

αναθεώρηση	α/α	ημερομηνία:	όνομα:	περιγραφή:

κύριος του έργου

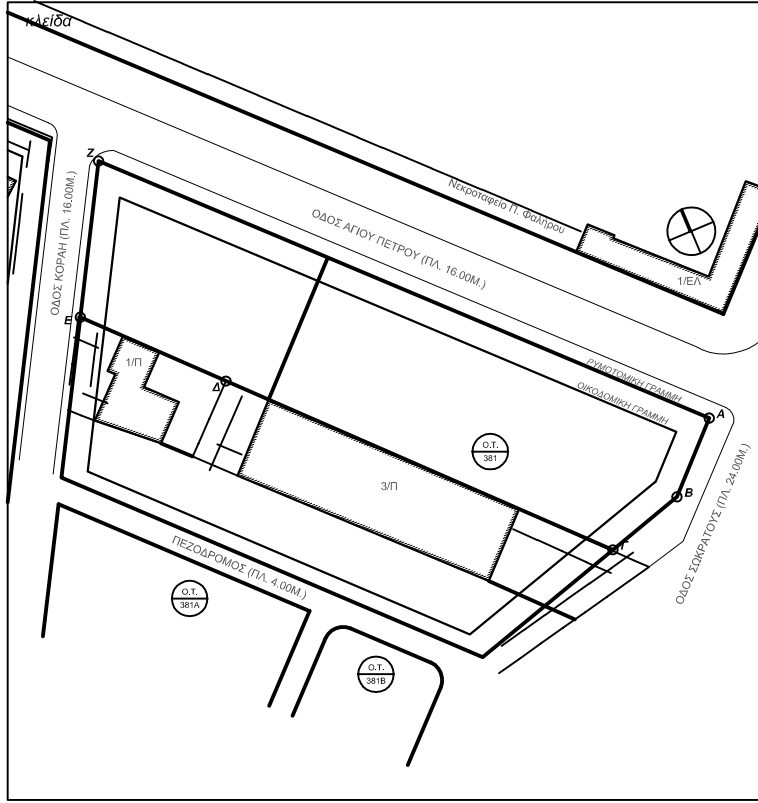
ΔΗΜΟΣ ΠΑΛΑΙΟΥ ΦΑΛΗΡΟΥ ΔΙΕΥΘΥΝΣΗ ΤΕΧΝΙΚΩΝ ΥΠΗΡΕΣΙΩΝ

έργο

ΚΑΤΑΣΚΕΥΗ ΥΠΟΓΕΙΟΥ ΧΩΡΟΥ ΣΤΑΘΜΕΥΣΗΣ ΟΧΗΜΑΤΩΝ ΚΑΘΑΡΙΟΤΗΤΑΣ ΚΑΙ ΥΠΕΡΓΕΙΟΥ ΧΩΡΟΥ ΓΡΑΦΕΙΩΝ ΚΑΘΑΡΙΟΤΗΤΑΣ, ΧΩΡΟΥ ΠΡΑΣΙΝΟΥ, ΠΑΙΔΙΚΗΣ ΧΑΡΑΣ & ΓΗΠΕΔΟΥ ΜΠΑΣΚΕΤ

θέση

ΔΗΜΟΣ ΠΑΛΑΙΟΥ ΦΑΛΗΡΟΥ-Ο.Τ 381 ΕΠΙ ΤΩΝ ΟΔΩΝ ΣΩΚΡΑΤΟΥΣ, ΑΓΙΟΥ ΠΕΤΡΟΥ & ΚΟΡΑΗ



μελέτη

ΣΤΑΤΙΚΗ

φάση μελέτης

ΟΡΙΣΤΙΚΗ

τίτλος τεύχους

ΤΕΥΧΟΣ ΣΤΑΤΙΚΩΝ ΥΠΟΛΟΓΙΣΜΩΝ (1/2)

α/α τεύχους	α/α αναθ.
T 02A	0

ημερομηνία	ΣΕΠΤΕΜΒΡΙΟΣ 2015
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κωδ. εντύπου:	
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κωδ. Η/Υ:	ελέγχθηκε:
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κωδ. έργου: 151494	εγκρίθηκε:
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ομάδα μελέτης	ΗΛΕΚΤΡΟΜΗΧΑΝΟΛΟΓΙΚΗ ΜΕΛΕΤΗ
ΑΡΧΙΤΕΚΤΟΝΙΚΗ ΜΕΛΕΤΗ	
ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ & ΜΕΛΕΤΗ ΑΝΤΙΣΤΗΡΙΑΣ	

υπογραφή - σφραγίδα μελετητή

θεωρήθηκε

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I. ΤΕΧΝΙΚΗ ΠΕΡΙΓΡΑΦΗ – ΔΕΔΟΜΕΝΑ ΥΠΟΛΟΓΙΣΜΟΥ

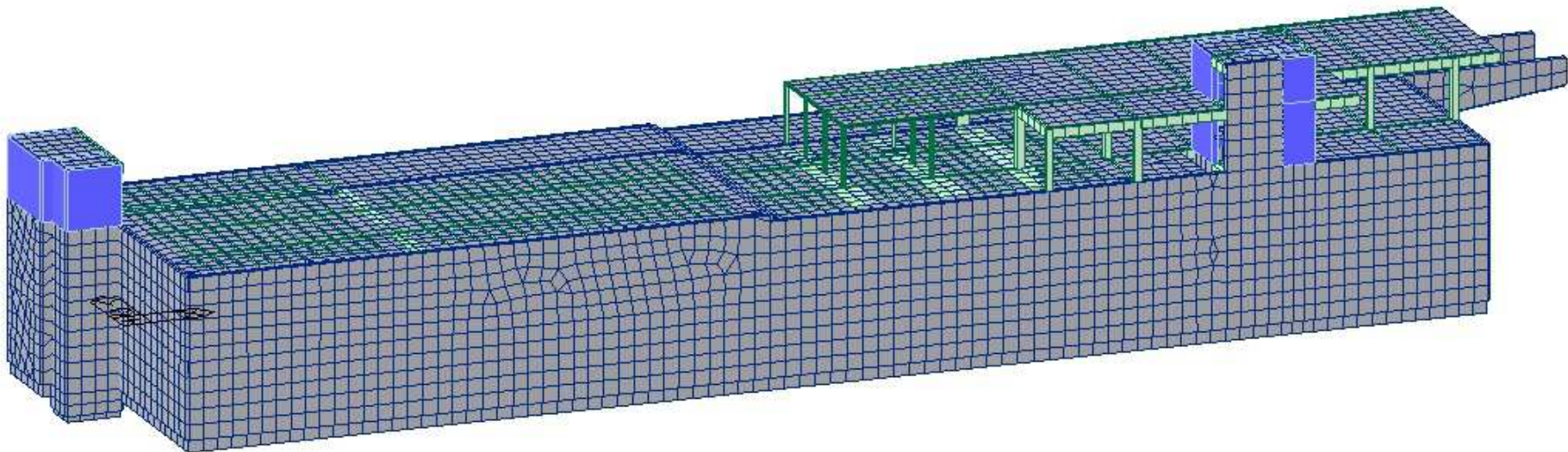
Το παρόν Τεύχος Στατικών Υπολογισμών αφορά στο έργο που αφορά την κατασκευή χώρου στάθμευσης οχημάτων καθαριότητας και υπέργειου χώρου γραφείων καθαριότητας, χώρου πρασίνου, παιδικής χαράς & γηπέδου μπάσκετ. Πρόκειται κατα κύριο λόγο για υπόγεια κατασκευή, η οποία επεκτείνεται μερικώς στην ανωδομή. Το κτίριο θεμελιώνεται στην ενιαία στάθμη θεμελίωσης -8.25μ. με εξαίρεση την υποβιβίαση του τοιχείου ανελκυστήρα.

Για την ανάλυση του φορέα χρησιμοποιήθηκε το πρόγραμμα MidasGEN 2015. Το πρόγραμμα MidasGEN 2015 είναι ένα πρόγραμμα ανάλυσης κατασκευών με την μέθοδο των πεπερασμένων στοιχείων και αποτελεί την τελευταία έκδοση της σειράς. Το πρόγραμμα αυτό παρέχει τη δυνατότητα τόσο στατικής όσο και δυναμικής ανάλυσης.

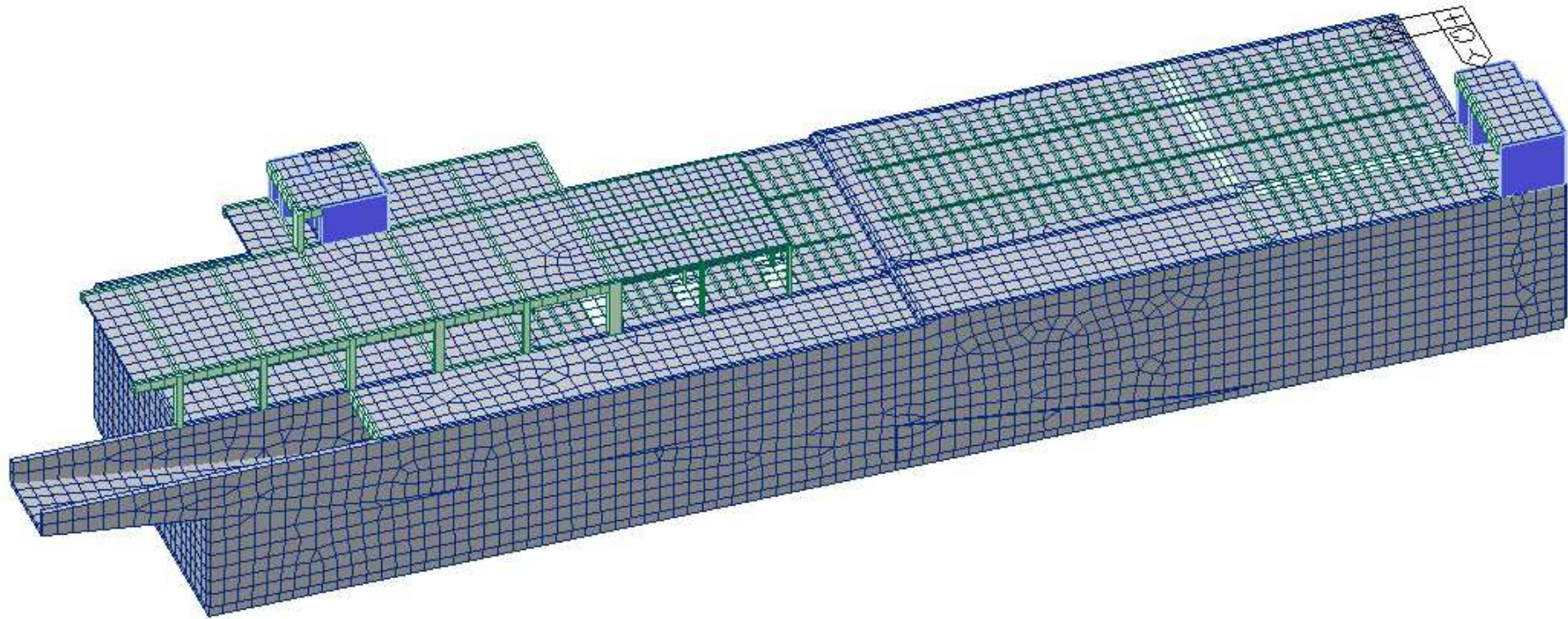
Για την προσομοίωση του φορέα χρησιμοποιήθηκαν γραμμικά και επιφανειακά πεπερασμένα στοιχεία. Οι συνθήκες έδρασης επιβλήθηκαν με βάση τα αποτελέσματα της γεωτεχνικής έρευνας-μελέτης. Στη στάθμη της θεμελίωσης, εφαρμόστηκαν ελαστικές εδράσεις με τις διαθέσιμες τιμές δεικτών εδάφους, όπως αναλύεται σε επόμενη ενότητα. Στα περιμετρικά τοιχώματα, επιβλήθηκαν μη γραμμικά ελατήρια με κατανομή που αναλύεται ακολούθως. Για την επίλυση και τη διαστασιολόγηση του φορέα, πραγματοποιήθηκε μη γραμμική ανάλυση λόγω των επιβληθέντων μη γραμμικών συνθηκών στήριξης.

Στη συνέχεια, παρατίθενται εικόνες του τρισδιάστατου στατικού μοντέλου, όπως προσομοιώθηκε στο στατικό πρόγραμμα ανάλυσης και διαστασιολόγησης.

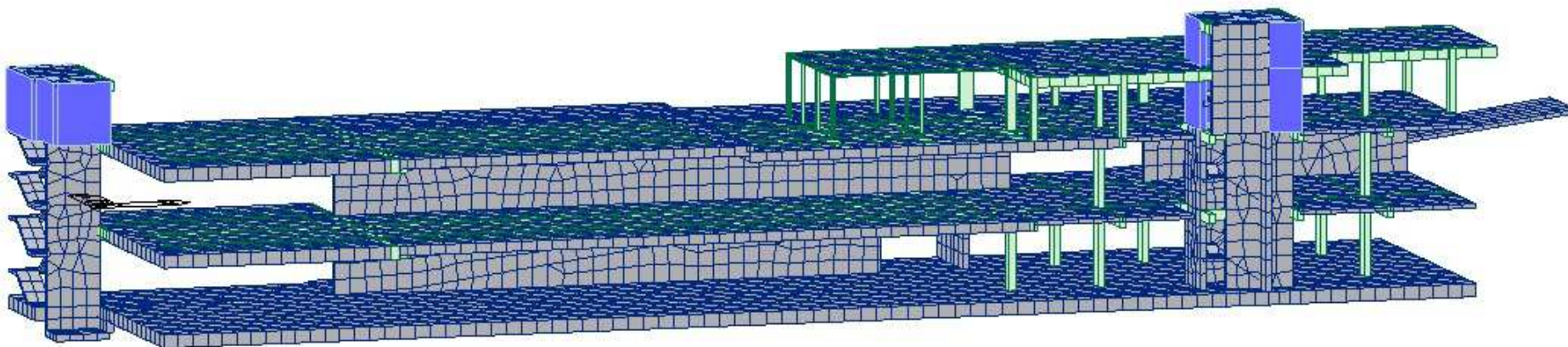
Παρέχονται επίσης, όλα τα απαραίτητα δεδομένα και παράμετροι που απαιτήθηκαν για τη σύσταση επαρκούς μοντέλου προσομοίωσης, οι στατικοί υπολογισμοί και τα αποτελέσματα διαστασιολόγησης των επιφανειακών και των γραμμικών δομικών στοιχείων του φορέα.



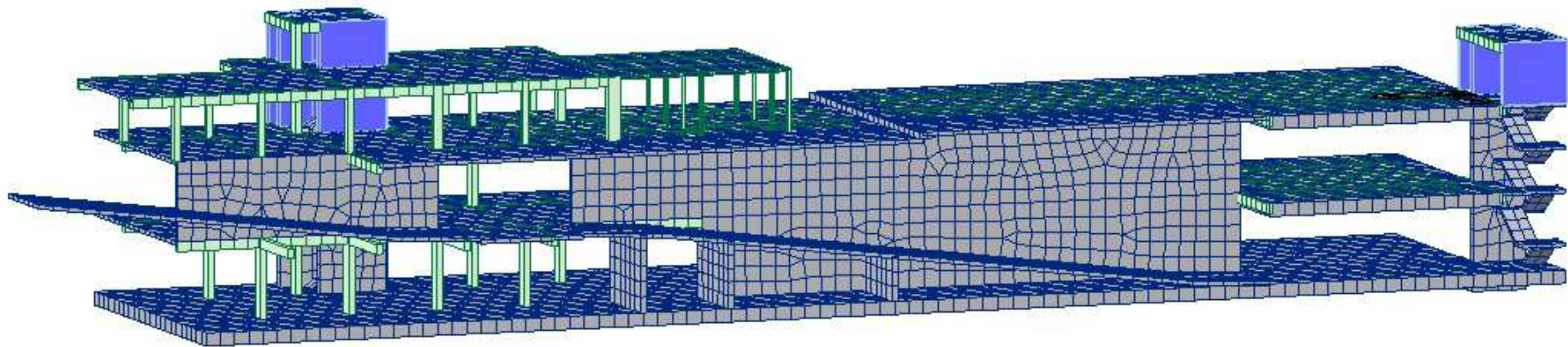
Εικόνα 1: Απεικόνιση 3D φορέα



Εικόνα 2: Απεικόνιση 3D φορέα



Εικόνα 3: Εσωτερική απεικόνιση 3D



Εικόνα 4: Εσωτερική Απεικόνιση 3D

1. ΥΛΙΚΑ - ΙΔΙΟΤΗΤΕΣ

ID	Name	Type	Standard	DB	Mass Density	Elasticity (kN/m ²)	Poisson	Thermal (1/[C])	Density (kN/m ³)	Mass Density (kN/m ³ /g)	Plastic Matl.	Material Type
1	C25/30	Concrete	EN04(RC)	C25/30	X	31475000.00	0.200	0.0000	25.0000	2.5493e+000	None	Isotropic
2	S235	Steel	EN05(S)	S235	X	210000000.00	0.300	0.0000	76.9800	7.8498e+000	None	Isotropic

2. ΔΙΑΤΟΜΕΣ ΓΡΑΜΜΙΚΩΝ ΣΤΟΙΧΕΙΩΝ

ID	Size4 (m)	Area (m ²)	Asy (m ²)	Asz (m ²)	Ixx (m ⁴)	Iyy (m ⁴)	Izz (m ⁴)	Cyp (m)	Cym (m)	Czp (m)	Czm (m)	Qyb (m ²)	Qzb (m ²)	Peri(Out)
1	C40x40	0.160	0.133	0.133	0.0036	0.0021	0.0021	0.200	0.200	0.200	0.2	0.020	0.020	1.600
2	C40x90	0.360	0.300	0.300	0.0138	0.0048	0.0243	0.450	0.450	0.200	0.2	0.020	0.101	2.600
3	B40/60	0.240	0.200	0.200	0.0075	0.0072	0.0032	0.200	0.200	0.300	0.3	0.045	0.020	2.000
6	C50x50	0.250	0.208	0.208	0.0088	0.0052	0.0052	0.250	0.250	0.250	0.25	0.031	0.031	2.000
7	C40x60	0.240	0.200	0.200	0.0075	0.0032	0.0072	0.300	0.300	0.200	0.2	0.020	0.045	2.000
8	IPE120	0.001	0.001	0.001	0.0000	0	0.0000	0.032	0.032	0.060	0.06	0.007	0.001	0.487
10	C40x80	0.320	0.267	0.267	0.0117	0.0043	0.0171	0.400	0.400	0.200	0.2	0.020	0.080	2.400
20	RIB30/60	0.180	0.150	0.150	0.0037	0.0054	0.0014	0.150	0.150	0.300	0.3	0.045	0.011	1.800
21	RIB60+SL	0.250	0.083	0.180	0.0040	0.0086	0.0095	0.500	0.500	0.230	0.37	0.068	0.125	3.200
22	EZ 200/60	1.200	1.000	1.000	0.1168	0.036	0.4000	1.000	1.000	0.300	0.3	0.045	0.500	5.200
23	EZ100/80	0.800	0.667	0.667	0.0876	0.0427	0.0667	0.500	0.500	0.400	0.4	0.080	0.125	3.600
24	RIB30/80	0.240	0.200	0.200	0.0055	0.0128	0.0018	0.150	0.150	0.400	0.4	0.080	0.011	2.200
25	RIB80+SL	0.310	0.083	0.240	0.0058	0.0195	0.0099	0.500	0.500	0.321	0.479	0.115	0.125	3.600
50	HEA200	0.005	0.003	0.001	0.0000	0	0.0000	0.100	0.100	0.095	0.095	0.031	0.005	1.167
51	IPE200	0.003	0.001	0.001	0.0000	0	0.0000	0.050	0.050	0.100	0.1	0.019	0.001	0.789
19	B40/80	0.32	0.2667	0.2667	0.0117	0.0171	0.0043	0.2	0.2	0.4	0.4	0.008	0.02	2.4

3. ΠΑΧΗ ΕΠΙΦΑΝΕΙΑΚΩΝ ΣΤΟΙΧΕΙΩΝ

ID	Type	In=Out	Thick-in(m)	Thick-out(m)	Offset	Offset Type
1	Value	Yes	0.2	0	No	Ratio
2	Value	Yes	0.4	0	No	Ratio
3	Value	Yes	0.5	0	No	Ratio
4	Value	Yes	0.6	0	No	Ratio
5	Value	Yes	0.15	0	No	Ratio
6	Value	Yes	0.8	0	No	Ratio
7	Value	Yes	0.25	0	No	Ratio
8	Value	Yes	0.12	0	No	Ratio

4. ΣΤΑΘΜΕΣ

NAME	LEVEL(m)	HEIGHT(m)	FLOOR DIAPHRAGM
Roof	8.2	0	Do not consider
1F	5.4	2.8	Do not consider
B1L	1.9	3.5	Do not consider
B1R	1.5	0.4	Do not consider
B2	-3.38	4.88	Do not consider
B3	-8.25	4.87	Do not consider
B4	-9.65	1.4	Do not consider

5. ΣΥΝΘΗΚΕΣ ΕΔΡΑΣΗΣ - ΕΛΑΤΗΡΙΑ

Για την αλληλεπίδραση εδάφους-κατασκευής στη θεμελίωση του φορέα έγινε χρήση γραμμικών ελατηρίων με τιμές που υπαγορεύουν τα αποτελέσματα της εδαφοτεχνικής μελέτης-έρευνας. Πιο συγκεκριμένα, ο δείκτης εδάφους λαμβανομένης υπόψη της γεωμετρίας θεμελίωσης λήφθηκε ως εξής:

Κατακόρυφα ελατήρια $K_s=25\text{MN/m}^3$

Εφαρμόστηκαν ακόμα, οριζόντια ελατήρια, κατά τις διευθύνσεις x και y σταθεράς $2/3*K_s=16.667\text{kN/m}^3$ στον πυθμένα της κατασκευής.

Στα επιφανειακά στοιχεία των περιμετρικών τοιχωμάτων, επιβλήθηκαν σε οριζόντιες ζώνες μη γραμμικά, κάθετα στα τοιχώματα, ελατήρια σταθεράς $(2.4*E_s/H_{tot}^2)*H/2$, όπου E_s το μέτρο συμπίεσεως του εδάφους πίσω από το βάθρο, H το ύψος της εκάστοτε ζώνης και H_{tot} το ολικό ύψος του τοιχώματος. Βάσει των αποτελεσμάτων της γεωτεχνικής έρευνας-μελέτης, στα τοιχώματα των παρειών

η κατανομή των ελατηρίων υπολογίστηκε για $E_s=40\text{MPa}$ από τη στάθμη -0.50m έως τη στάθμη -4.70m , για $E_s=40\text{MPa}$ από τη στάθμη -4.70m έως τη στάθμη -6.50m και για $E_s=25\text{MPa}$ από τη στάθμη -6.50m έως τη στάθμη -9.80m .

6. ΦΟΡΤΙΑ ΠΛΑΚΩΝ

Για την αλληλεπίδραση εδάφους-κατασκευής στη θεμελίωση του φορέα έγινε χρήση γραμμικών ελατηρίων.

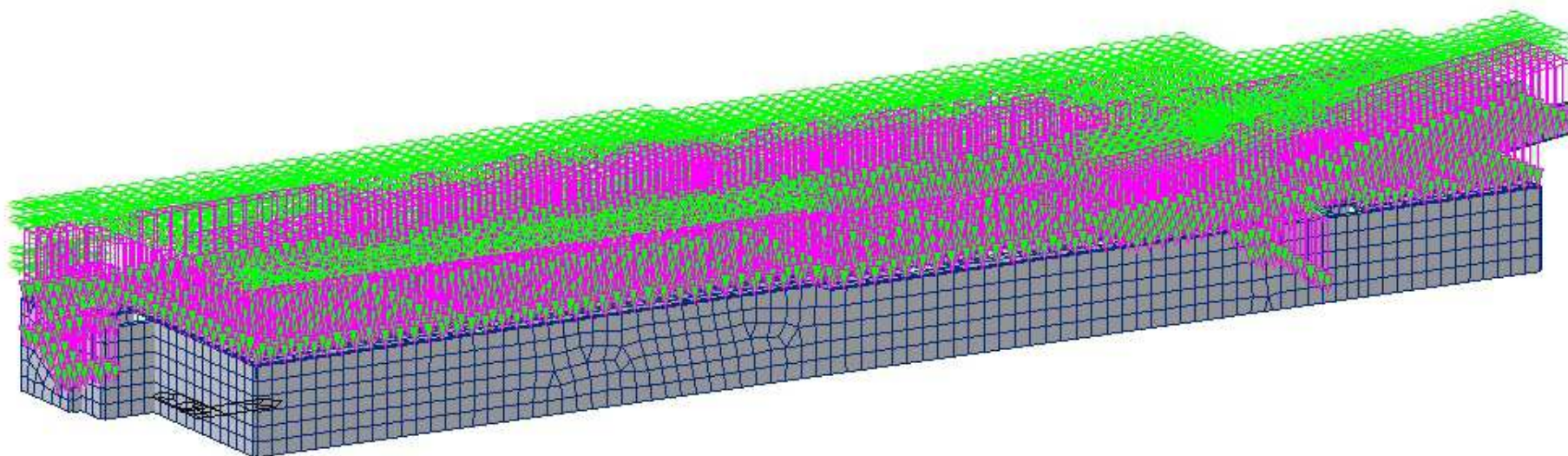
Ανάλογα με τη χρήση του κάθε χώρου, επιβάλλονται σύμφωνα με τον Ευρωκώδικα στα επιφανειακά στοιχεία πλακών του κάθε ορόφου τα ακόλουθα φορτία.

ΚΑΤΗΓΟΡΙΕΣ ΧΩΡΩΝ	ΜΟΝΙΜΟ G	ΚΙΝΗΤΟ Q
Γραφεία (B)	2.0	2.0
Κυλικείο (C1)	2.0	3.0
Γήπεδο (C4)	2.0	5.0
Περ. Χώρος (C3)	2.0	5.0
Δώμα (B)	3.0	2.0
Σκάλες (B)	2.0	3.5
Στάθμευση (G)	2.0	5.0

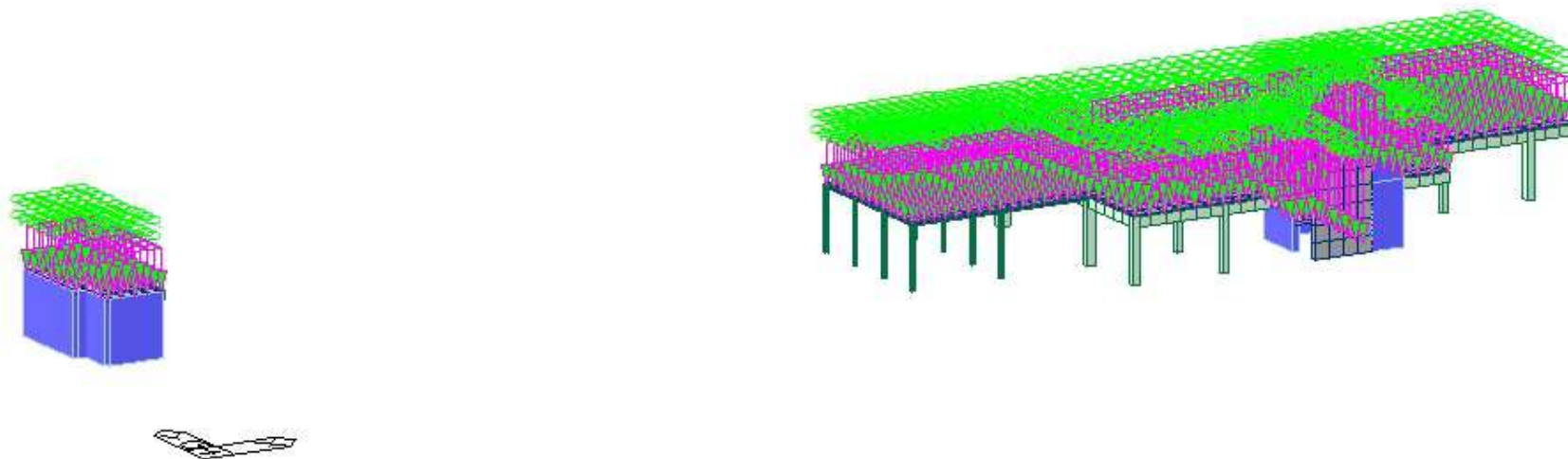
Κατά τη μελέτη λαμβάνεται επίσης κατάλληλα υπόψη το κινητό φορτίο των οχημάτων καθαριότητας επιβαλλόμενο κατά τις δυνατές διαδρομές (λωρίδες φόρτισης πλάτους 2.5m) στα επίπεδα -3.38 (οροφή B υπογείου) και -8.25 (βάση B υπογείου). Το κινούμενο φορτίο ελήφθηκε 100KN ανά άξονα οχήματος και ελήφθηκε επιπλέον υπόψιν κινητό φορτίο 5KN/m^2 για να καλυφθεί η περιοχή γύρω από το κινούμενο φορτίο οχήματος. Οι ιδιότητες του κινούμενου οχήματος και οι φορτίσεις ενδεικτικά φαίνονται στις ακόλουθες εικόνες.

II. ΦΟΡΤΙΣΕΙΣ

1. Φορτία Πλακών



Εικόνα 5: Μόνιμα Φορτία πλακών στη στάθμη -3.38μ.



Εικόνα 6: Κινητά Φορτία Πλακών στη στάθμη 1.9μ.

Standard Name
 EN 1991-2:2003 - RoadBridge/Footway and FootBridge

Load Type
 Load Model 1 / Fatigue Load Model 1
 Load Model 2,4 / Fatigue Load Model 2,4
 Load Model 3
 Load Model 3 (Straddling)
 Fatigue Load Model 3

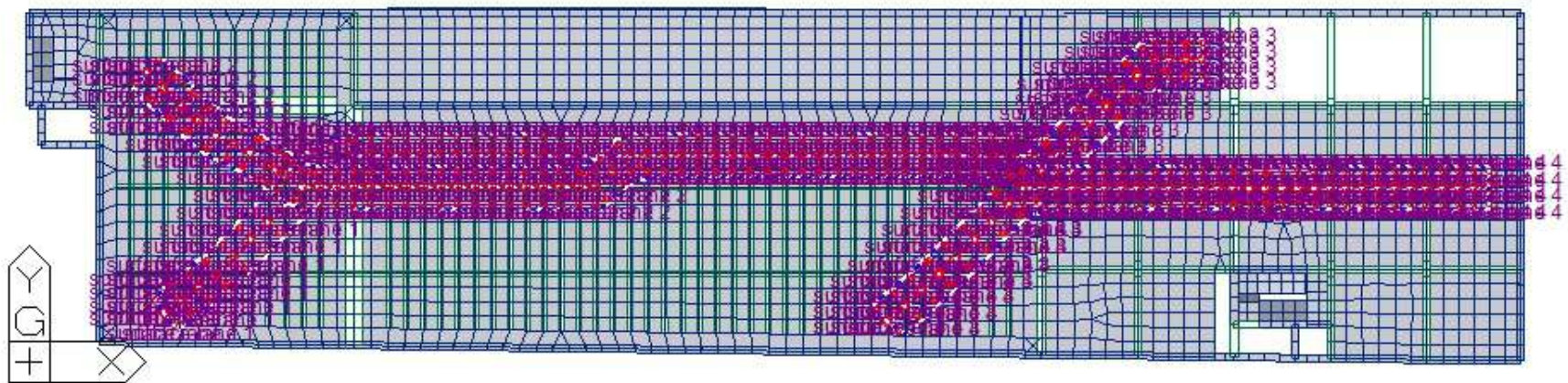
Vehicular Load Properties
 Vehicular Load Name : vehicle 1

Location	Tandem System		UDL System	
	Adjustment Factor	Axle Loads (kN)	Adjustment Factor	Uniformly Dist. Loads (kN/m^2)
Lane Number1	1	100	1	5
Lane Number2	1	0	1	0
Lane Number3	1	0	1	0
Other Lanes & Remaining Area	0	0	1	0

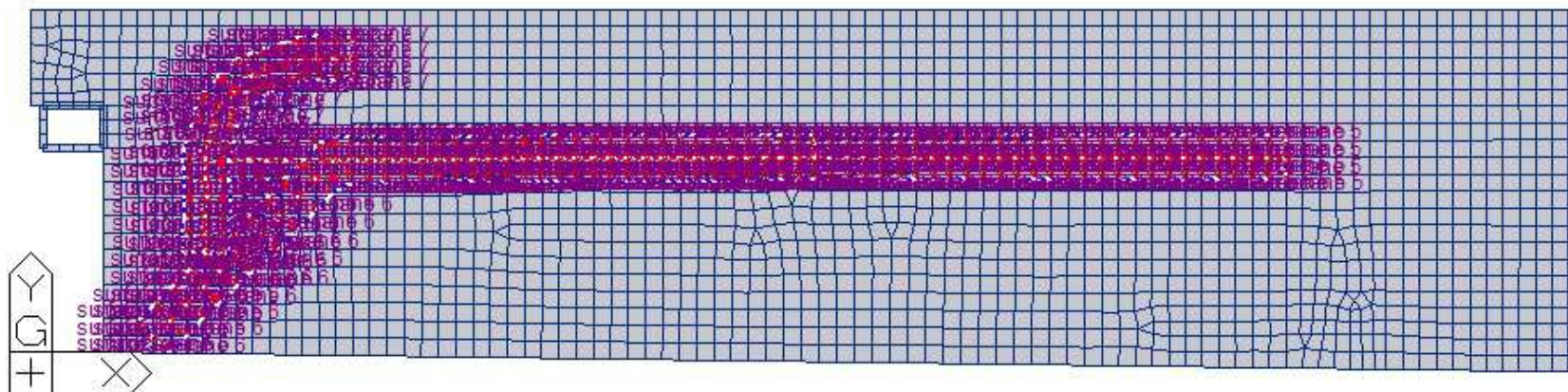
D : 3.8 m
 Phi : 1
 Psi factor for Tandem System : 0.75
 Psi factor for UDL System : 0.4

OK Cancel Apply

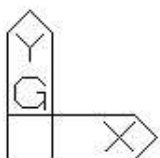
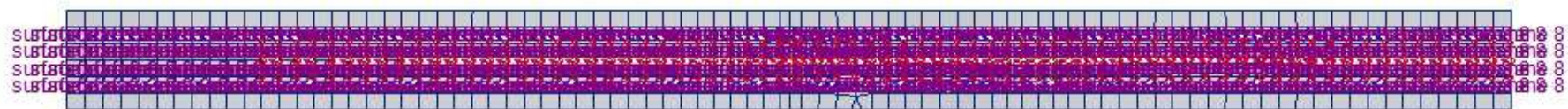
Εικόνα 7:Ιδιότητες κινούμενου οχήματος



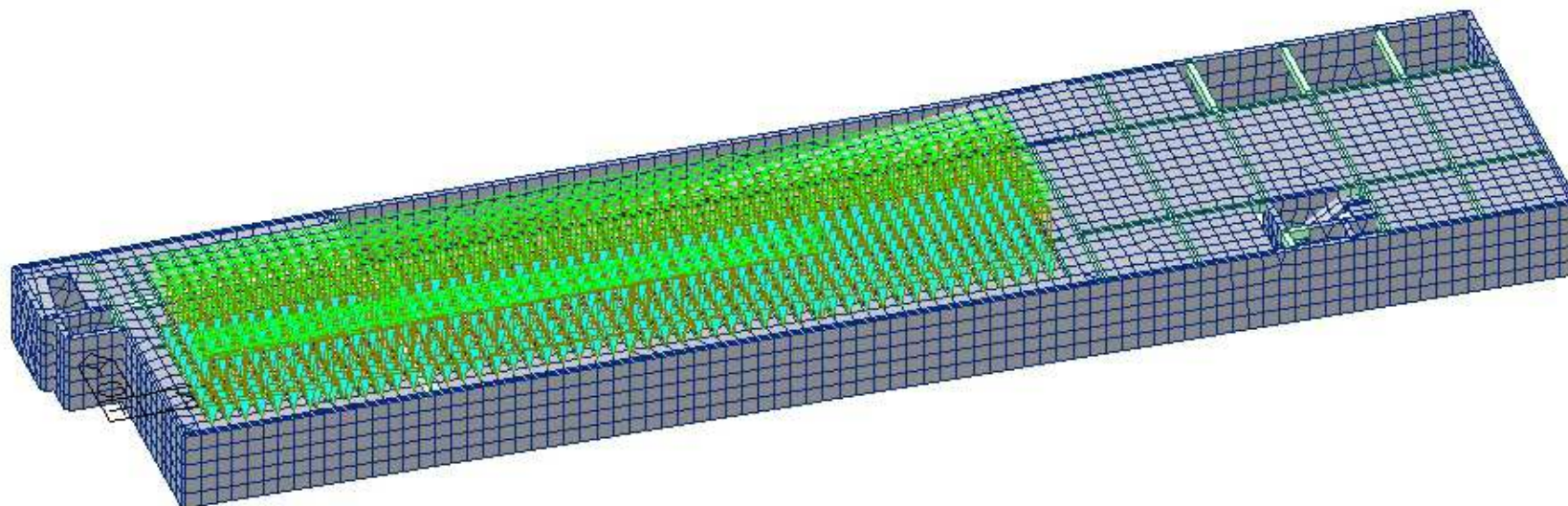
Εικόνα 8: Κινούμενα φορτία οχημάτων στάθμης -3.38μ



Εικόνα 9: Κινούμενα φορτία οχημάτων στάθμης -8.25μ

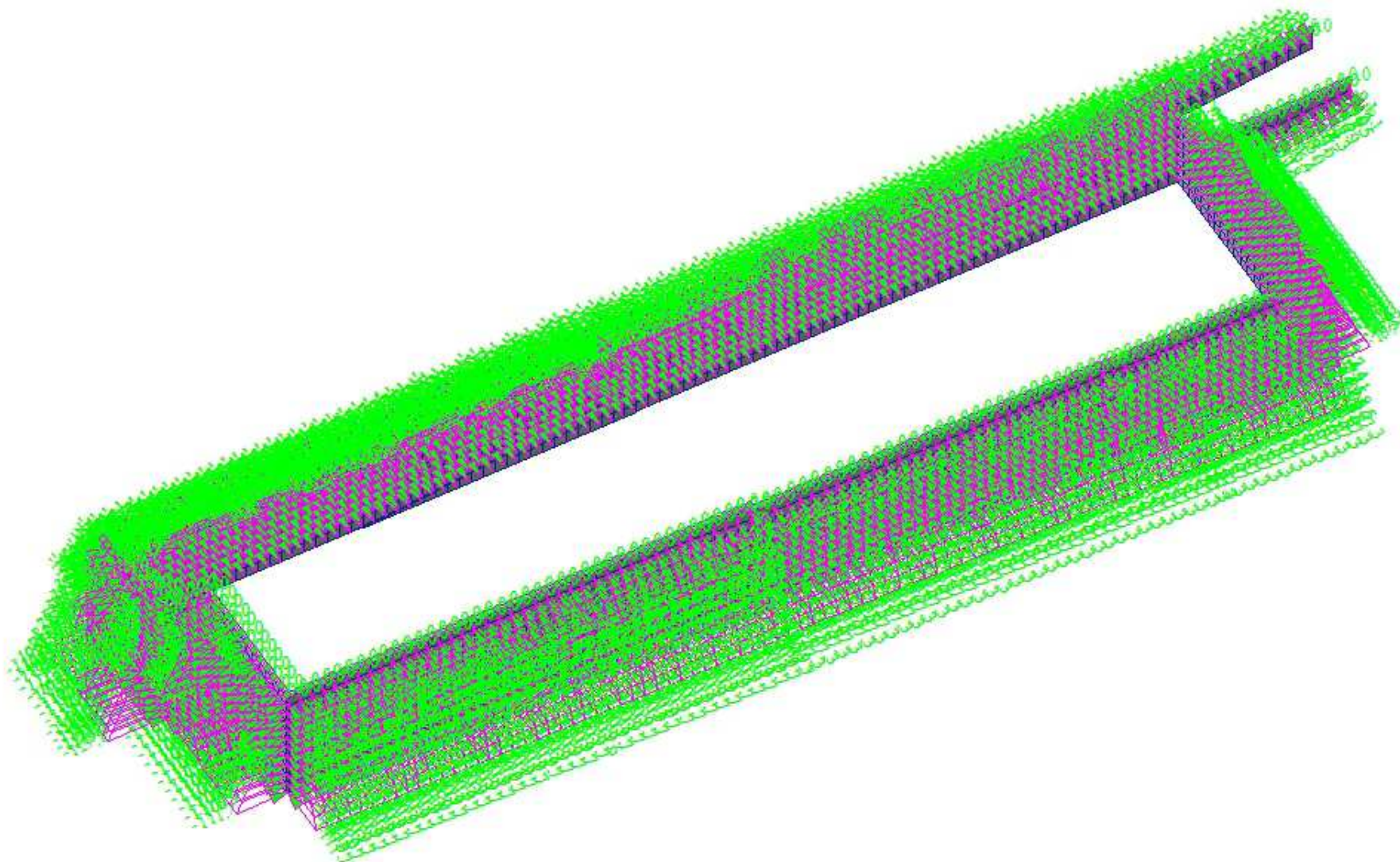


Εικόνα 5: Κινούμενα φορτία οχημάτων ράμπας



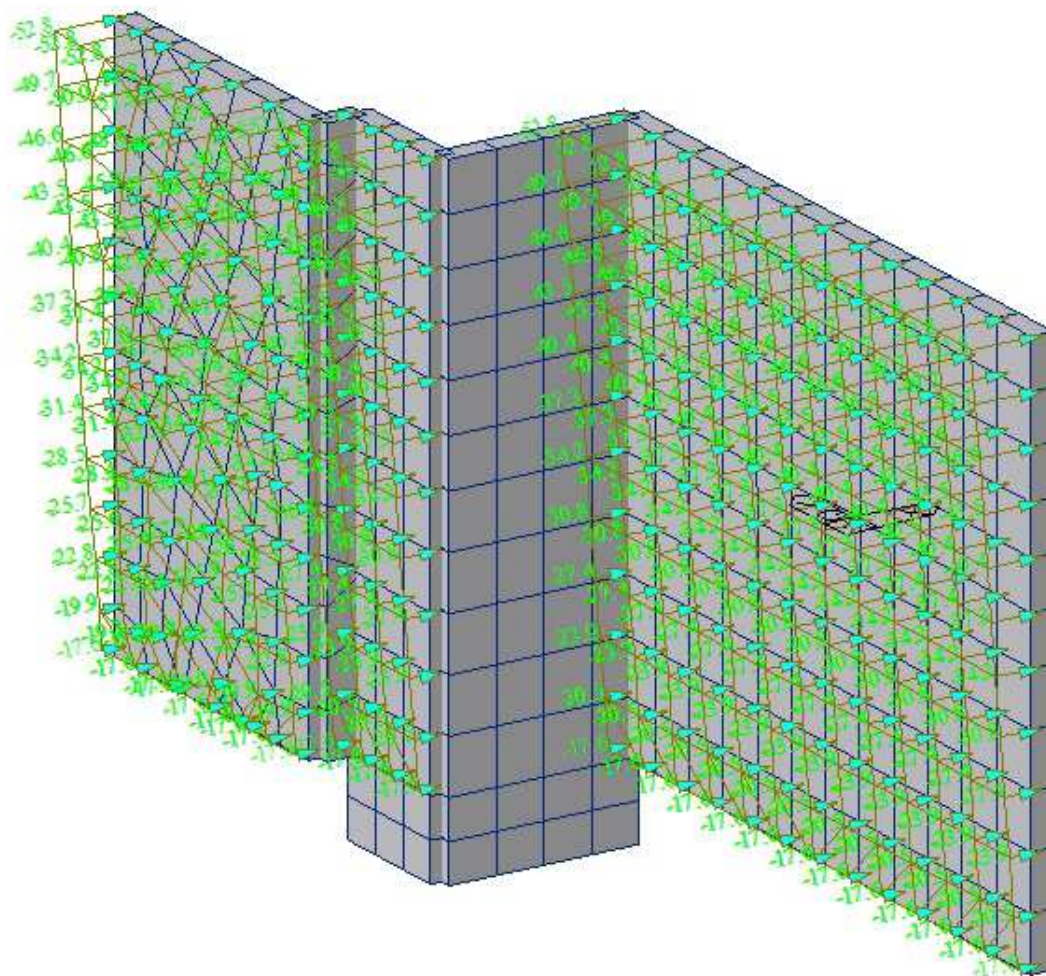
Εικόνα 11: Κινητό φορτίο λόγω σταθμευμένων οχημάτων στάθμη -3.38μ

4. Γεωστατικές Ωθήσεις

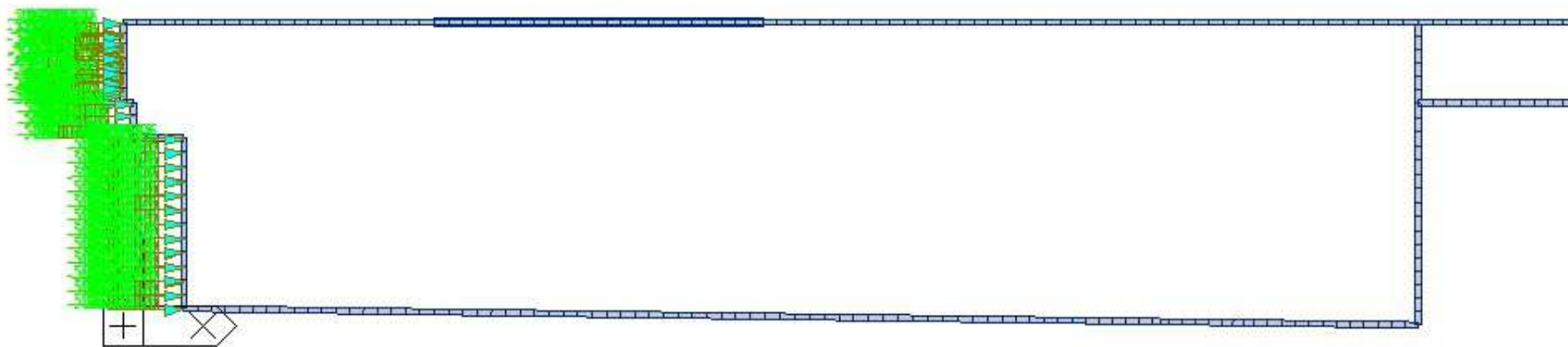


Εικόνα 12: Γεωστατικές Ωθήσεις στα περιμετρικά τοιχώματα

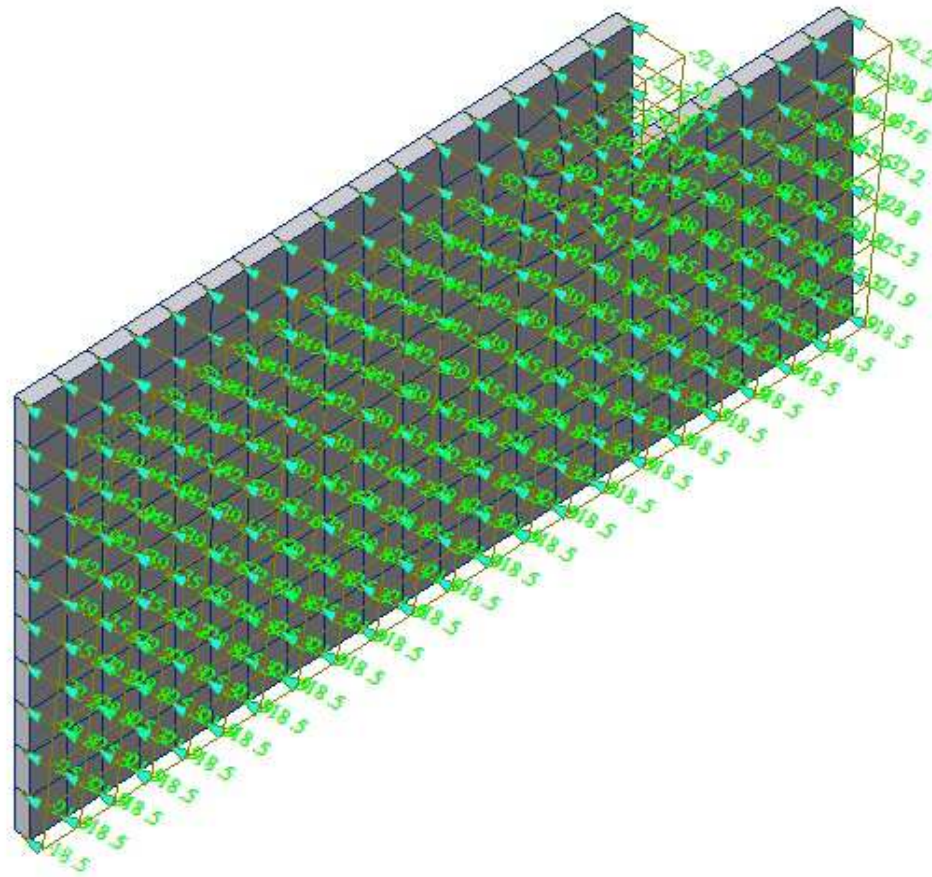
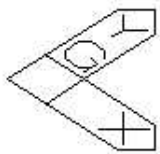
4. Γεωδυναμικές Ωθήσεις



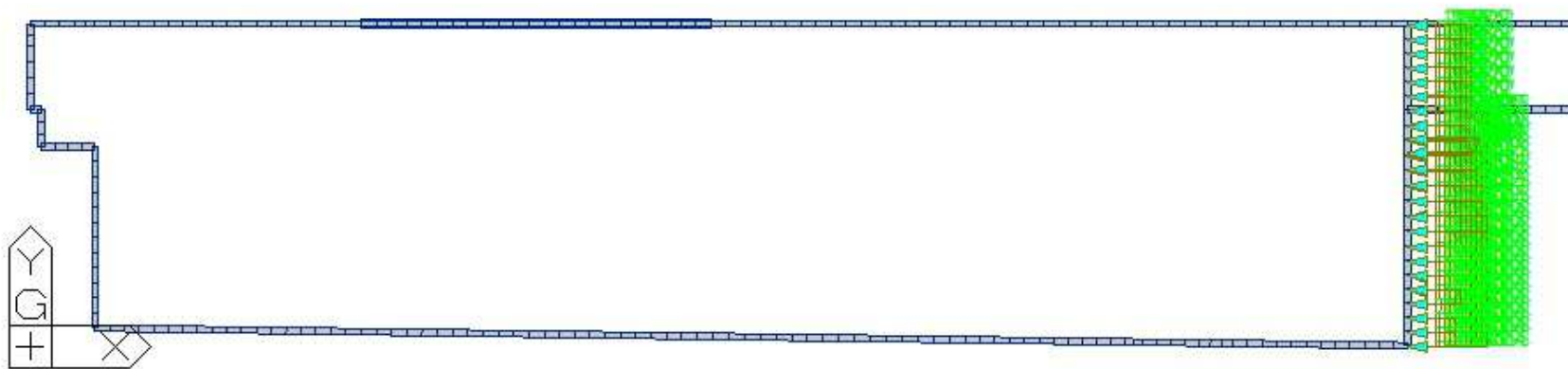
Εικόνα 13: Γεωδυναμικές Ωθήσεις στην παρειά κατά +X



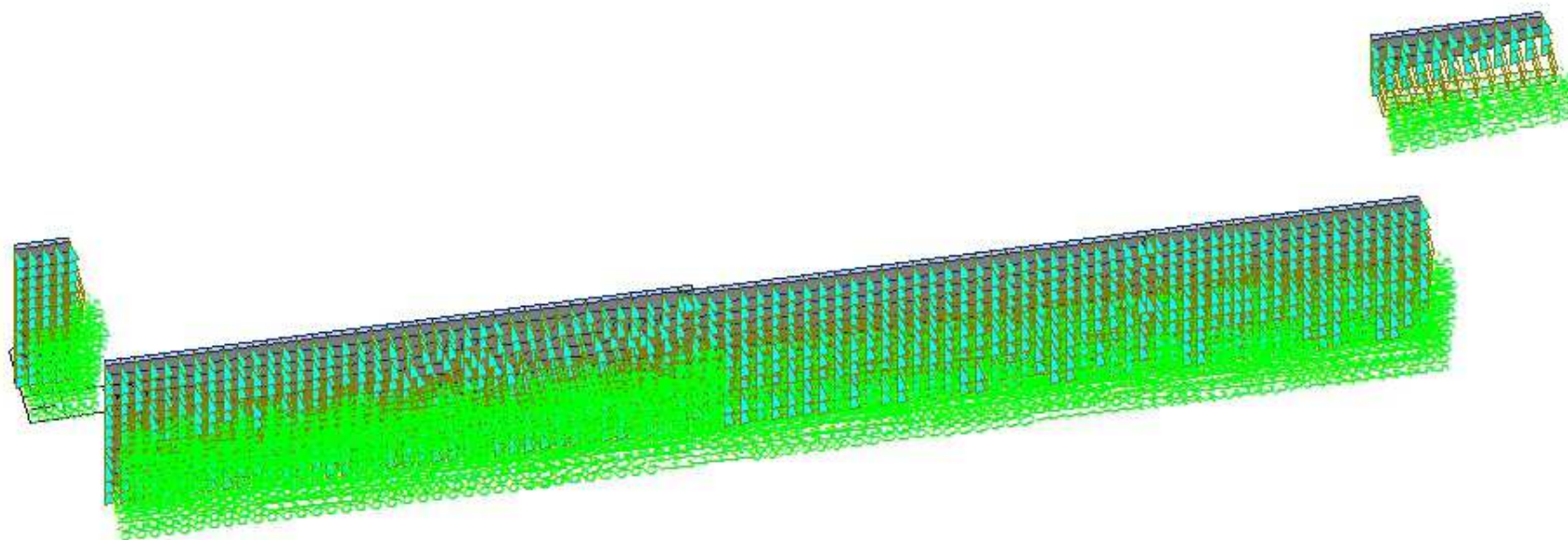
Εικόνα 64: Γεωδυναμικές Ωθήσεις στην παρειά κατά +X



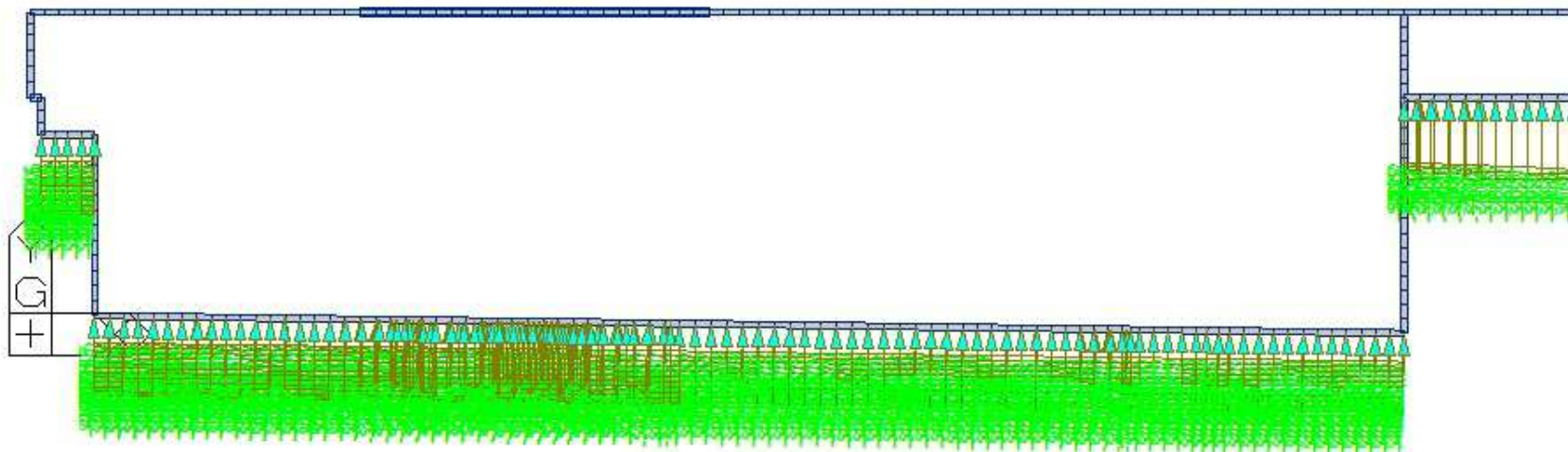
Εικόνα 15: Γεωδυναμικές Ωθήσεις στην παρειά κατά +X



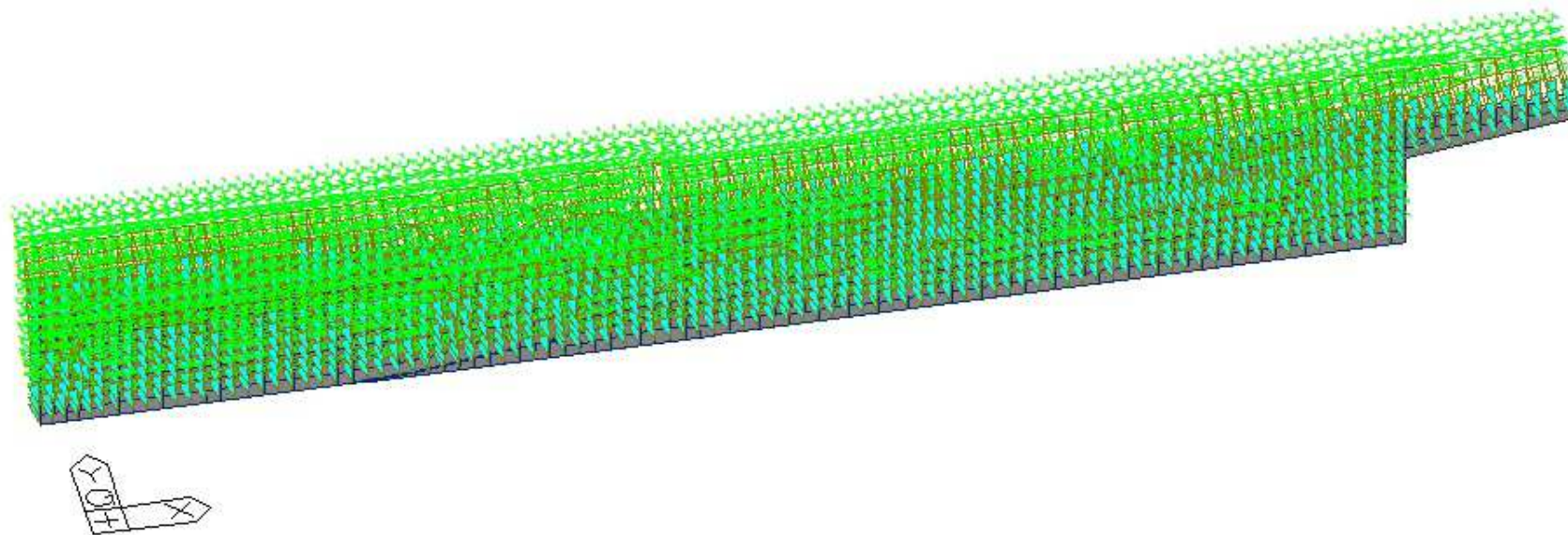
Εικόνα 16: Γεωδυναμικές Ωθήσεις στην παρειά κατά +X



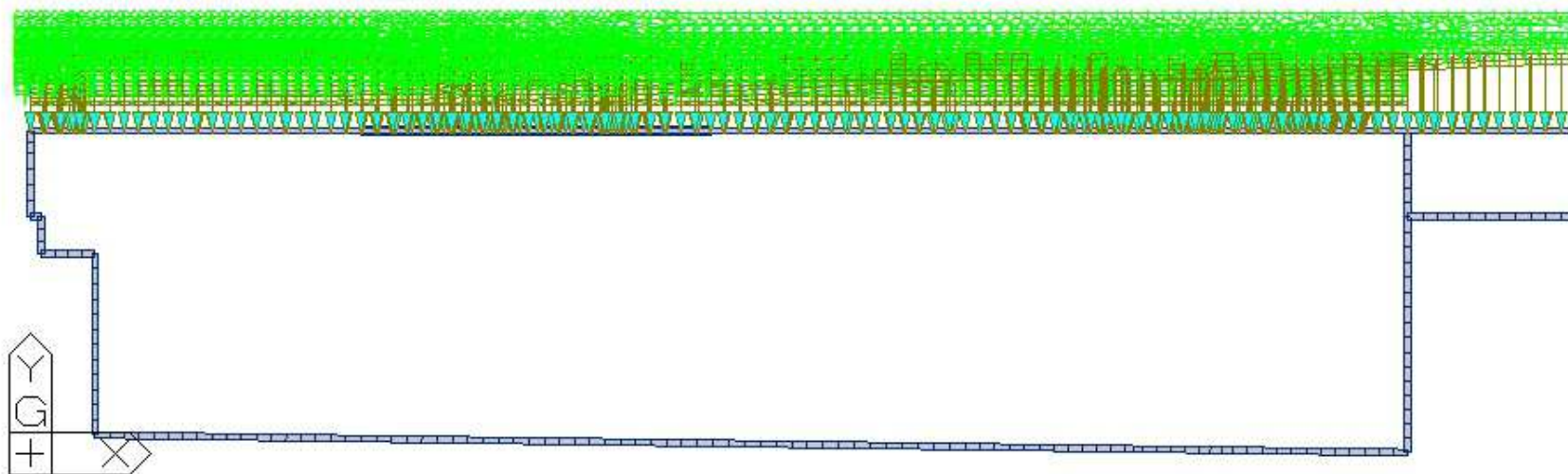
Εικόνα 17: Γεωδυναμικές Ωθήσεις στην παρειά κατά +Y



Εικόνα 18: Γεωδυναμικές Ωθήσεις στην παρειά κατά +Y



Εικόνα 19: Γεωδυναμικές Ωθήσεις στην παρειά κατά -Y



Εικόνα 20: Γεωδυναμικές Ωθήσεις στην παρειά κατά -Y

2. Πίνακας Φορτίσεων

No	Name	Type	Description
1	SELFWEIGHT	Dead Load (D)	Ιδιο βάρος
2	ADEAD	Dead Load (D)	Πρόσθετα μόνιμα
3	LIVE1	Live Load (L)	Κινητά φορτία κατ. B+G
4	LIVE2	Live Load (L)	Κινητά φορτία κατ. C
5	TRUCKS	Live Load (L)	Φορτία οχημάτων
6	SHRINKAGE	Shrinkage (SH)	Συστολή ξήρανσης
7	ΔT sum	Temperature (T)	Θερμοκρασιακή Μεταβολή (+)
8	ΔT win	Temperature (T)	Θερμοκρασιακή Μεταβολή (-)
9	EX dead	User Defined Load (USER)	Σεισμός κατά X λόγω μονίμων
10	EY dead	User Defined Load (USER)	Σεισμός κατά Y λόγω μονίμων
11	EY Live	Earthquake (E)	Σεισμός κατά X λόγω κινητών
12	EY Live	Earthquake (E)	Σεισμός κατά Y λόγω κινητών
13	GEOSTAT	Horizontal Earth Pressure (EH)	Ωθήσεις Γαιών
14	GEODYN X+	Horizontal Earth Pressure (EH)	Σεισμική επαύξηση ωθήσεων γαιών
15	GEODYN X-	Horizontal Earth Pressure (EH)	Σεισμική επαύξηση ωθήσεων γαιών
16	GEODYN Y+	Horizontal Earth Pressure (EH)	Σεισμική επαύξηση ωθήσεων γαιών
17	GEODYN Y-	Horizontal Earth Pressure (EH)	Σεισμική επαύξηση ωθήσεων γαιών

		LIVE2(1.000) +		TRUCKS(1.000) +		SHRINKAGE(0.600)
		ΔT sum(0.600) +		GEOSTAT(1.000)		
11	CHAR2	Inactive	Add			
		SELFWEIGHT(1.000) +		ADEAD(1.000) +		LIVE1(1.000)
		LIVE2(1.000) +		TRUCKS(1.000) +		SHRINKAGE(0.600)
		ΔT win(0.600) +		GEOSTAT(1.000)		
12	CHAR3	Inactive	Add			
		SELFWEIGHT(1.000) +		ADEAD(1.000) +		LIVE1(0.700)
		LIVE2(0.700) +		TRUCKS(0.700) +		SHRINKAGE(1.000)
		ΔT sum(1.000) +		GEOSTAT(1.000)		
13	CHAR4	Inactive	Add			
		SELFWEIGHT(1.000) +		ADEAD(1.000) +		LIVE1(0.700)
		LIVE2(0.700) +		TRUCKS(0.700) +		SHRINKAGE(1.000)
		ΔT win(1.000) +		GEOSTAT(1.000)		
14	FREQ1	Inactive	Add			
		SELFWEIGHT(1.000) +		ADEAD(1.000) +		LIVE1(0.500)
		LIVE2(0.700) +		TRUCKS(0.500) +		GEOSTAT(1.000)
15	FREQ2	Inactive	Add			
		SELFWEIGHT(1.000) +		ADEAD(1.000) +		LIVE1(0.300)
		LIVE2(0.600) +		TRUCKS(0.300) +		SHRINKAGE(0.500)
		ΔT sum(0.500) +		GEOSTAT(1.000)		
16	FREQ3	Inactive	Add			
		SELFWEIGHT(1.000) +		ADEAD(1.000) +		LIVE1(0.300)
		LIVE2(0.600) +		TRUCKS(0.300) +		SHRINKAGE(0.500)
		ΔT win(0.500) +		GEOSTAT(1.000)		
17	QP1	Inactive	Add			
		SELFWEIGHT(1.000) +		ADEAD(1.000) +		LIVE1(0.300)
		LIVE2(0.600) +		TRUCKS(0.300) +		GEOSTAT(1.000)
18	NSULS1	Strength/Stress	Add			
		NSULS1(1.000)				
19	NSULS2	Strength/Stress	Add			
		NSULS2(1.000)				
20	NSULS3	Strength/Stress	Add			
		NSULS3(1.000)				
21	NSULS4	Strength/Stress	Add			
		NSULS4(1.000)				
22	NSULS5	Strength/Stress	Add			
		NSULS5(1.000)				
23	NSEQ1	Strength/Stress	Add			
		NSEQ1(1.000)				
24	NSEQ2	Strength/Stress	Add			
		NSEQ2(1.000)				
25	NSEQ3	Strength/Stress	Add			
		NSEQ3(1.000)				
26	NSEQ7	Strength/Stress	Add			
		NSEQ7(1.000)				
27	NSCHAR1	Strength/Stress	Add			
		NSCHAR1(1.000)				
28	NSCHAR2	Strength/Stress	Add			
		NSCHAR2(1.000)				

3	ULS2	Inactive	Add			
		SELFWEIGHT(1.350) +		ADEAD(1.350) +		LIVE1(1.050)
		+ LIVE2(1.050) +		TRUCKS(1.050) +		SHRINKAGE(1.500)
		+ Æ sum(1.500) +		GEOSTAT(1.350)		

4	ULS3	Inactive	Add			
		SELFWEIGHT(1.350) +		ADEAD(1.350) +		LIVE1(1.050)
		+ LIVE2(1.050) +		TRUCKS(1.050) +		SHRINKAGE(1.500)
		+ Æ win(1.500) +		GEOSTAT(1.350)		

5	ULS4	Inactive	Add			
		SELFWEIGHT(1.350) +		ADEAD(1.350) +		LIVE1(1.500)
		+ LIVE2(1.500) +		TRUCKS(1.500) +		SHRINKAGE(0.900)
		+ Æ sum(0.900) +		GEOSTAT(1.350)		

6	ULS5	Inactive	Add			
		SELFWEIGHT(1.350) +		ADEAD(1.350) +		LIVE1(1.500)
		+ LIVE2(1.500) +		TRUCKS(1.500) +		SHRINKAGE(0.900)
		+ Æ win(0.900) +		GEOSTAT(1.350)		

7	EQ1	Inactive	Add			
		SELFWEIGHT(1.000) +		ADEAD(1.000) +		LIVE1(0.300)
		+ LIVE2(0.600) +		TRUCKS(0.300) +		EX dead(1.000)
		+ Ex Live(1.000) +		GEOSTAT(1.000) +		GEODYN X+(1.000)

8	EQ2	Inactive	Add			
		SELFWEIGHT(1.000) +		ADEAD(1.000) +		LIVE1(0.300)
		+ LIVE2(0.600) +		TRUCKS(0.300) +		EX dead(-1.000)
		+ Ex Live(-1.000) +		GEOSTAT(1.000) +		GEODYN X-(1.000)

9	EQ3	Inactive	Add			
		SELFWEIGHT(1.000) +		ADEAD(1.000) +		LIVE1(0.300)
		+ LIVE2(0.600) +		TRUCKS(0.300) +		EY dead(1.000)
		+ EY Live(1.000) +		GEOSTAT(1.000) +		GEODYN Y+(1.000)

10	EQ7	Inactive	Add			
		SELFWEIGHT(1.000) +		ADEAD(1.000) +		LIVE1(0.300)
		+ LIVE2(0.600) +		TRUCKS(0.300) +		EY dead(-1.000)
		+ EY Live(-1.000) +		GEOSTAT(1.000) +		GEODYN Y-(1.000)

11	CHAR1	Inactive	Add			
		SELFWEIGHT(1.000) +		ADEAD(1.000) +		LIVE1(1.000)
		+ LIVE2(1.000) +		TRUCKS(1.000) +		SHRINKAGE(0.600)
		+ Æ sum(0.600) +		GEOSTAT(1.000)		

12	CHAR2	Inactive	Add			
		SELFWEIGHT(1.000) +		ADEAD(1.000) +		LIVE1(1.000)
		+ LIVE2(1.000) +		TRUCKS(1.000) +		SHRINKAGE(0.600)
		+ Æ win(0.600) +		GEOSTAT(1.000)		

13	CHAR3	Inactive	Add			
		SELFWEIGHT(1.000) +		ADEAD(1.000) +		LIVE1(0.700)
		+ LIVE2(0.700) +		TRUCKS(0.700) +		SHRINKAGE(1.000)
		+ Æ sum(1.000) +		GEOSTAT(1.000)		

14	CHAR4	Inactive	Add			
		SELFWEIGHT(1.000) +		ADEAD(1.000) +		LIVE1(0.700)
		+ LIVE2(0.700) +		TRUCKS(0.700) +		SHRINKAGE(1.000)
		+ Æ win(1.000) +		GEOSTAT(1.000)		

15	FREQ1	Inactive	Add			
		SELFWEIGHT(1.000) +		ADEAD(1.000) +		LIVE1(0.500)
		+ LIVE2(0.700) +		TRUCKS(0.500) +		GEOSTAT(1.000)

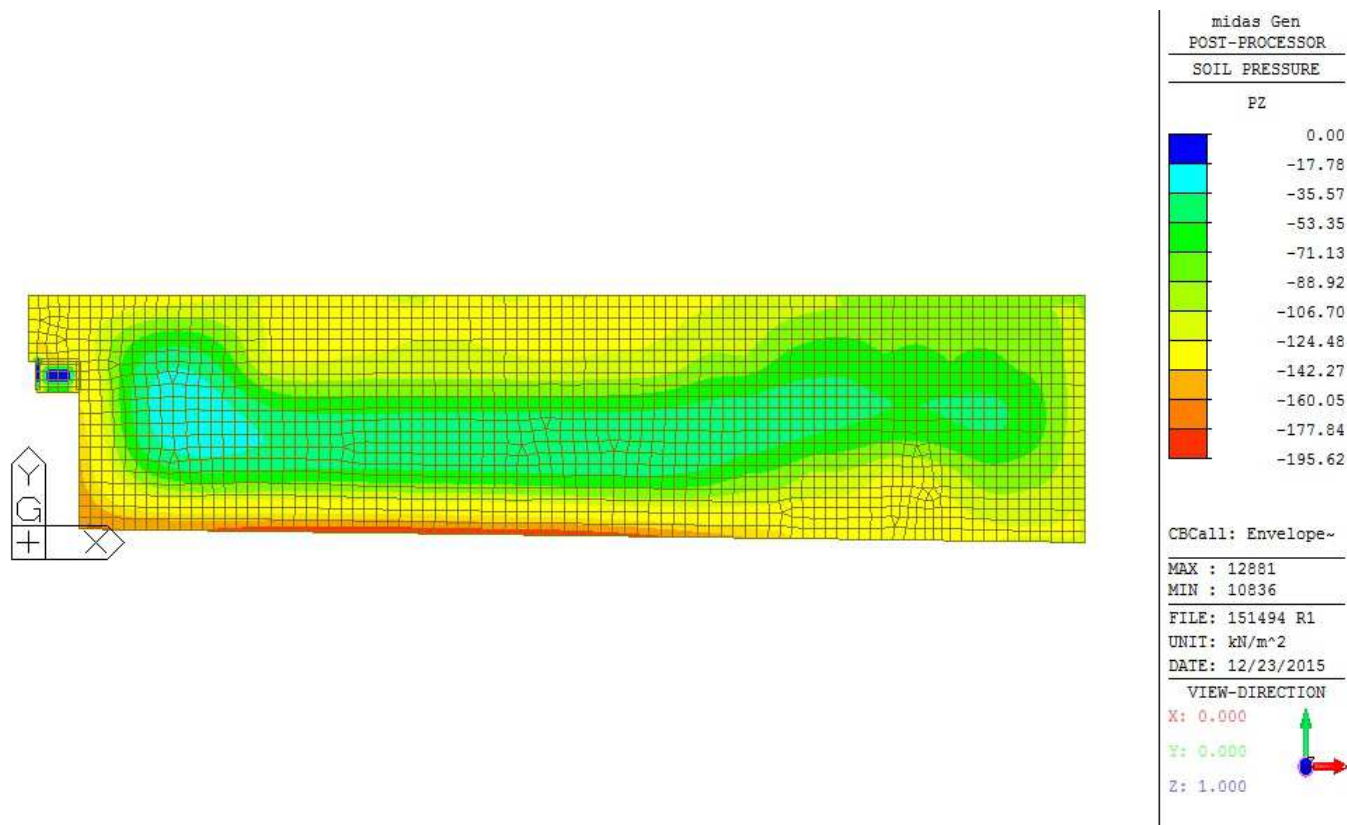
16	FREQ2	Inactive	Add			
		SELFWEIGHT(1.000) +		ADEAD(1.000) +		LIVE1(0.300)
		+ LIVE2(0.600) +		TRUCKS(0.300) +		SHRINKAGE(0.500)
		+ Æ sum(0.500) +		GEOSTAT(1.000)		

17	FREQ3	Inactive SELFWEIGHT(1.000) + LIVE2(0.600) + Ä win(0.500) +	Add	ADEAD(1.000) + TRUCKS(0.300) + GEOSTAT(1.000)	LIVE1(0.300) SHRINKAGE(0.500)
18	QP1	Inactive SELFWEIGHT(1.000) + LIVE2(0.600) +	Add	ADEAD(1.000) + TRUCKS(0.300) +	LIVE1(0.300) GEOSTAT(1.000)
19	NULS1	Strength/Stress NULS1(1.000)	Add		
20	NULS2	Strength/Stress NULS2(1.000)	Add		
21	NULS3	Strength/Stress NULS3(1.000)	Add		
22	NULS4	Strength/Stress NULS4(1.000)	Add		
23	NULS5	Strength/Stress NULS5(1.000)	Add		
24	NEQ1	Strength/Stress NEQ1(1.000)	Add		
25	NEQ2	Strength/Stress NEQ2(1.000)	Add		
26	NEQ3	Strength/Stress NEQ3(1.000)	Add		
27	NEQ7	Strength/Stress NEQ7(1.000)	Add		
28	NCHAR1	Strength/Stress NCHAR1(1.000)	Add		
29	NCHAR2	Strength/Stress NCHAR2(1.000)	Add		
30	NCHAR3	Strength/Stress NCHAR3(1.000)	Add		
31	NCHAR4	Strength/Stress NCHAR4(1.000)	Add		
32	NFREQ1	Strength/Stress NFREQ1(1.000)	Add		
33	NFREQ2	Strength/Stress NFREQ2(1.000)	Add		
34	NFREQ3	Strength/Stress NFREQ3(1.000)	Add		
35	NQP1	Strength/Stress NQP1(1.000)	Add		
36	NULS1 ALL	Strength/Stress NULS1(1.000) +	Add	Envelope moving(1.500)	
37	NULS2 ALL	Strength/Stress NULS2(1.000) +	Add	Envelope moving(1.050)	
38	NULS3 ALL	Strength/Stress	Add		

		NULS3(1.000) +	Envelope moving(1.050)	
39	NULS4 ALL	Strength/Stress NULS4(1.000) +	Add Envelope moving(1.500)	
40	NULS5 ALL	Strength/Stress NULS5(1.000) +	Add Envelope moving(1.500)	
41	NEQ1 ALL	Strength/Stress NEQ1(1.000) +	Add Envelope moving(0.300)	
42	NEQ2 ALL	Strength/Stress NEQ2(1.000) +	Add Envelope moving(0.300)	
43	NEQ3 ALL	Strength/Stress NEQ3(1.000) +	Add Envelope moving(0.300)	
44	NEQ7 ALL	Strength/Stress NEQ7(1.000) +	Add Envelope moving(0.300)	
45	NCHAR1 ALL	Serviceability NCHAR1(1.000) +	Add Envelope moving(1.000)	
46	NCHAR2 ALL	Serviceability NCHAR2(1.000) +	Add Envelope moving(1.000)	
47	NCHAR3 ALL	Serviceability NCHAR3(1.000) +	Add Envelope moving(0.700)	
48	NCHAR4 ALL	Serviceability NCHAR4(1.000) +	Add Envelope moving(0.700)	
49	NFREQ1 ALL	Serviceability NFREQ1(1.000) +	Add Envelope moving(0.500)	
50	NFREQ2 ALL	Serviceability NFREQ2(1.000) +	Add Envelope moving(0.300)	
51	NFREQ3 ALL	Serviceability NFREQ3(1.000) +	Add Envelope moving(0.300)	
52	NQP1 ALL	Serviceability NQP1(1.000) +	Add Envelope moving(0.300)	
53	Envelope strength	Serviceability NULS1 ALL(1.000) + + NULS4 ALL(1.000) + + NEQ2 ALL(1.000) +	Envelope NULS2 ALL(1.000) + NULS5 ALL(1.000) + NEQ3 ALL(1.000) +	NULS3 ALL(1.000) NEQ1 ALL(1.000) NEQ7 ALL(1.000)
54	Envelope serv	Strength/Stress NCHAR1 ALL(1.000) + + NCHAR4 ALL(1.000) + + NFREQ3 ALL(1.000) +	Envelope NCHAR2 ALL(1.000) + NFREQ1 ALL(1.000) + NQP1 ALL(1.000)	NCHAR3 ALL(1.000) NFREQ2 ALL(1.000)

III. ΑΠΟΤΕΛΕΣΜΑΤΑ ΑΝΑΛΥΣΗΣ

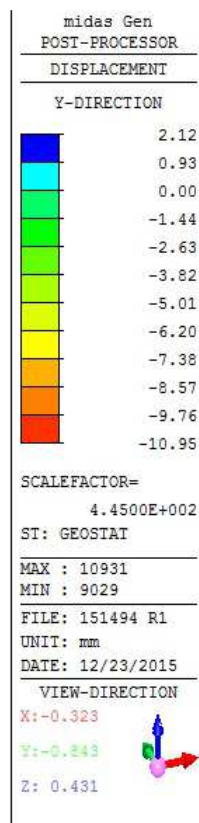
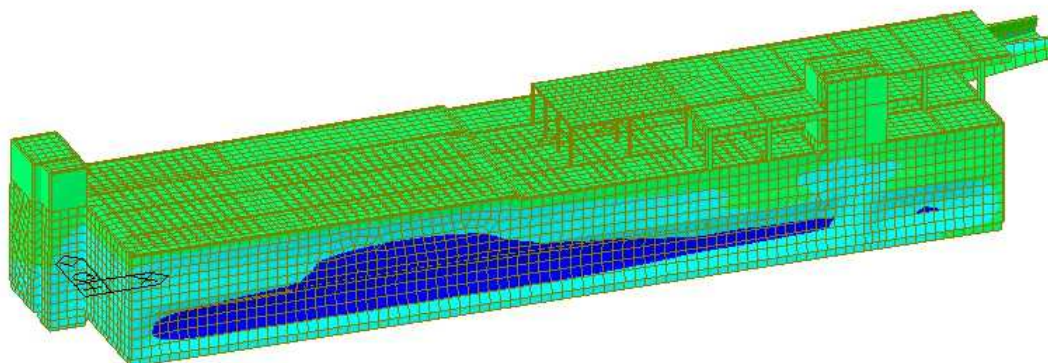
1. Τάση Θεμελίωσης



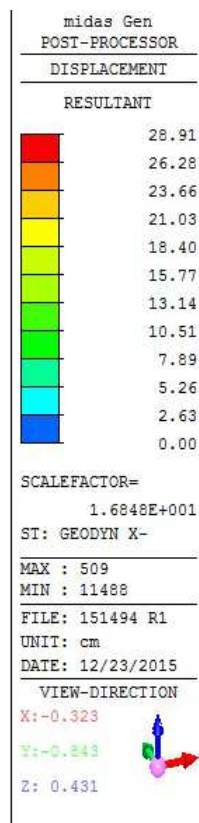
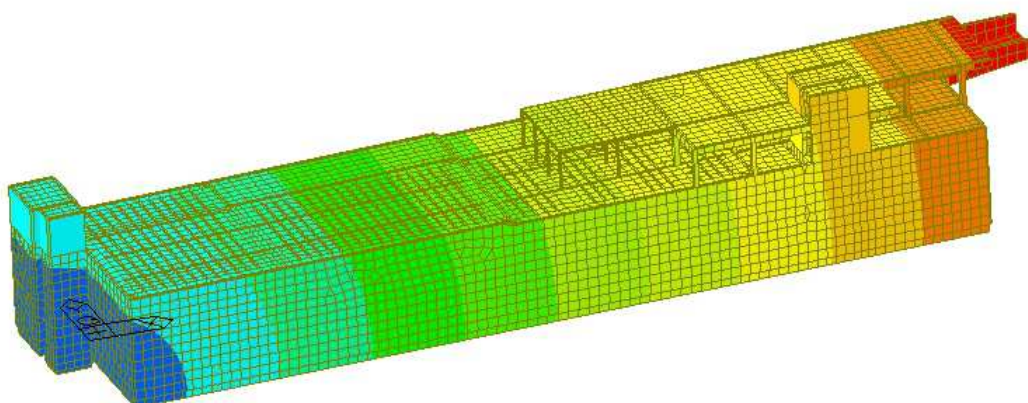
Εικόνα 21: Τάση Θεμελίωσης της πλάκας γενικής κοιτόστρωσης από περιβάλλουσα αστοχίας

Η επιτρεπόμενη τάση εδάφους είναι σύμφωνα με τη γεωτεχνική μελέτη $a_{επ}=250\text{KPa}$, μεγαλύτερη επομένως από τη δυσμενέστερη τάση θεμελίωσης της κατασκευής.

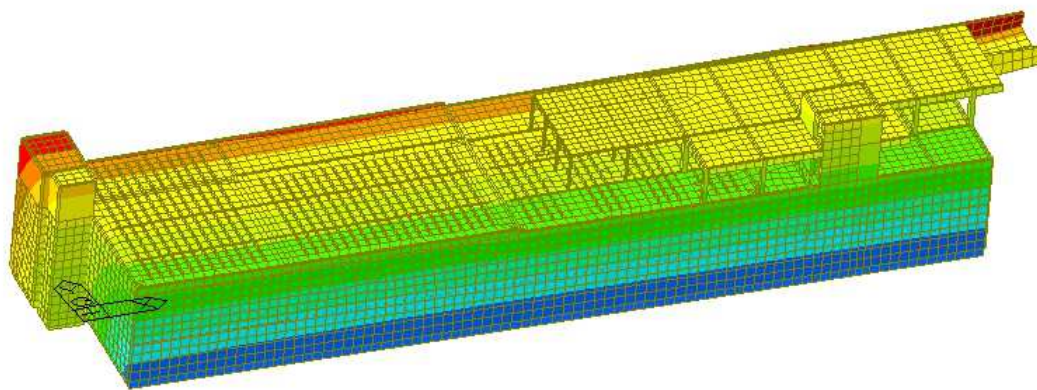
3. Γεωστατικές Ωθήσεις - Παραμορφώσεις



Εικόνα 22: Παραμόρφωση τοιχωμάτων λόγω γεωστατικών ωθήσεων

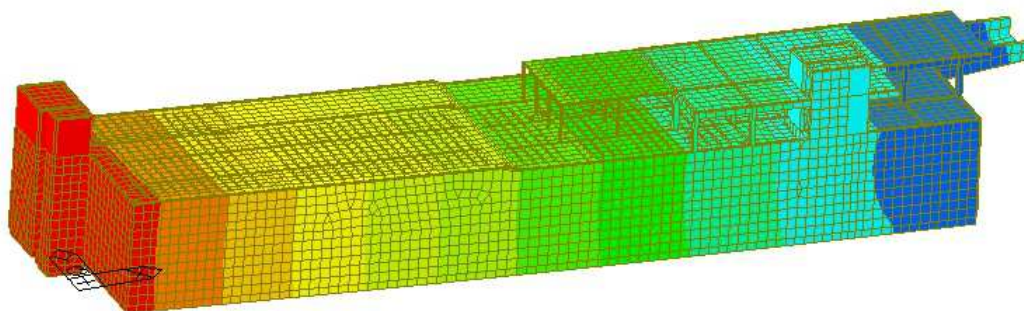


Εικόνα 23: Παραμόρφωση περιμετρικών τοιχείων λόγω γεωδυναμικών ωθήσεων κατά X



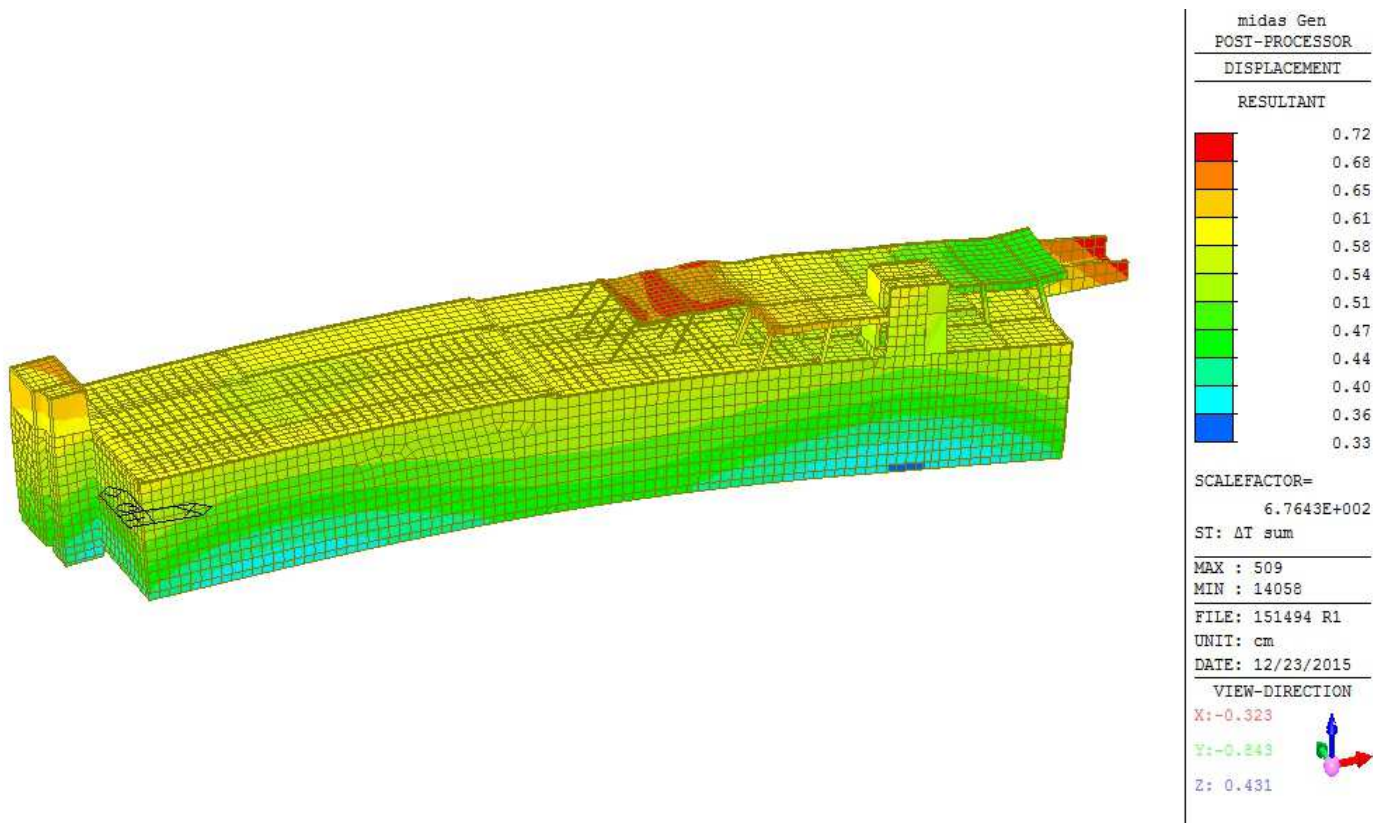
midas Gen	
POST-PROCESSOR	
DISPLACEMENT	
RESULTANT	
	8.59
	7.81
	7.03
	6.25
	5.47
	4.69
	3.91
	3.13
	2.35
	1.57
	0.79
	0.01
SCALEFACTOR= 5.6728E+001	
ST: GEODYN Y-	
MAX : 745	
MIN : 10481	
FILE: 151494 R1	
UNIT: cm	
DATE: 12/23/2015	
VIEW-DIRECTION	
X: -0.323	
Y: -0.243	
Z: 0.431	

Εικόνα 24: Παραμόρφωση περιμετρικών τοιχείων λόγω γεωδυναμικών ωθήσεων κατά +Y

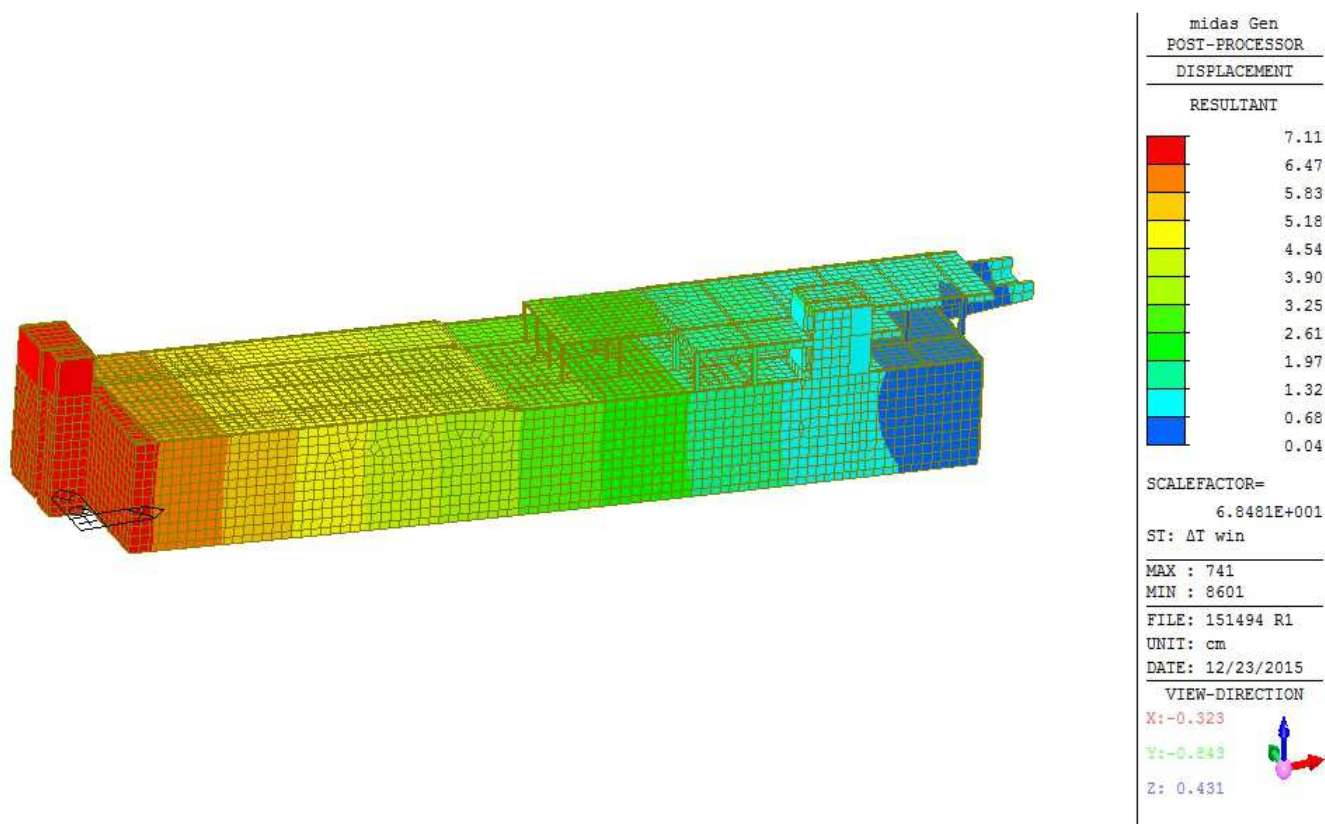


midas Gen	
POST-PROCESSOR	
DISPLACEMENT	
RESULTANT	
	8.21
	7.47
	6.72
	5.98
	5.24
	4.50
	3.76
	3.01
	2.27
	1.53
	0.79
	0.04
SCALEFACTOR= 5.9346E+001	
ST: SHRINKAGE	
MAX : 741	
MIN : 8601	
FILE: 151494 R1	
UNIT: cm	
DATE: 12/23/2015	
VIEW-DIRECTION	
X: -0.323	
Y: -0.243	
Z: 0.431	

Εικόνα 25: Παραμορφωσιακή κατάσταση λόγω συστολή ξήρανσης



Εικόνα 26: Παραμόρφωση περιμετρικών τοιχείων λόγω Θερμοκρασιακής μεταβολής $\Delta T = +13^\circ \text{C}$

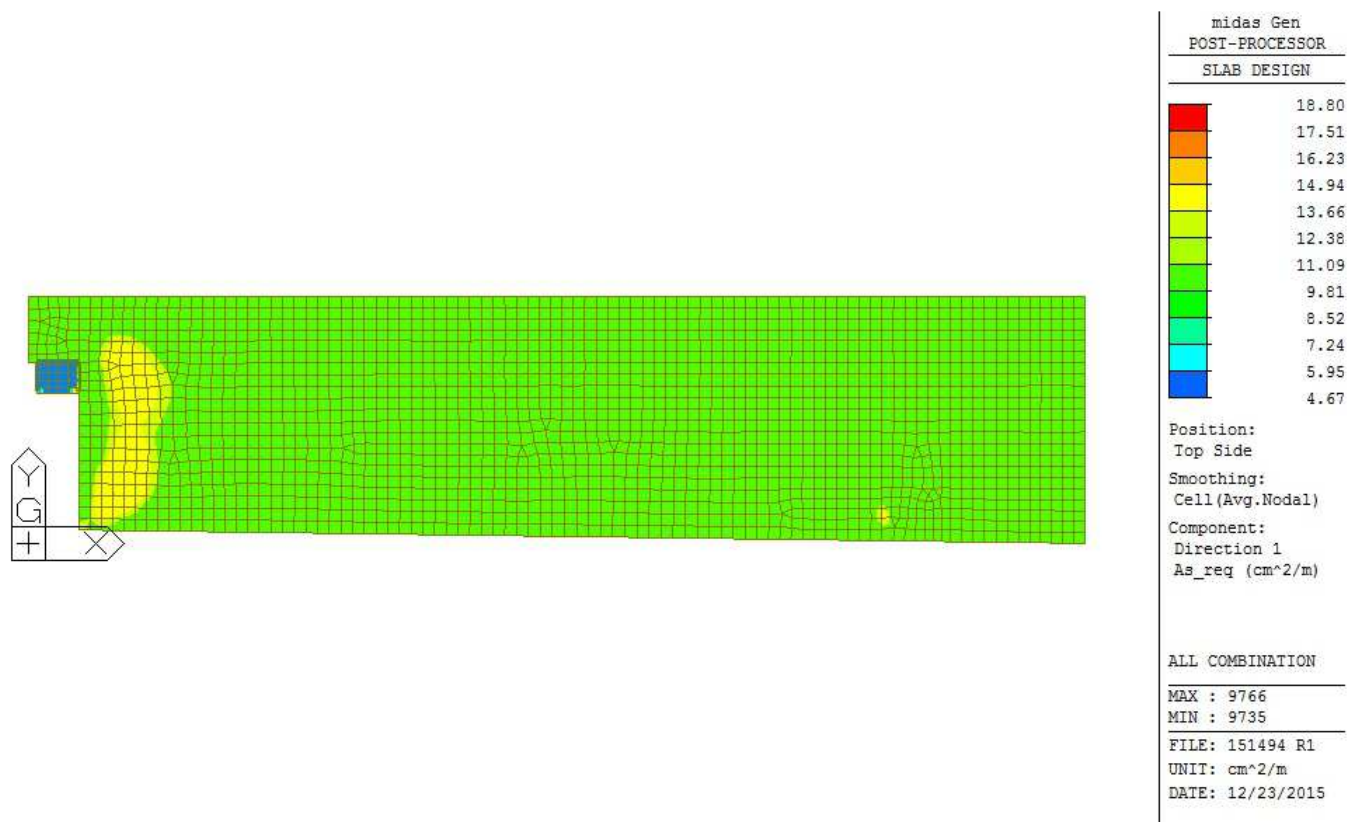


Εικόνα 27: Παραμόρφωση περιμετρικών τοιχείων λόγω Θερμοκρασιακής μεταβολής $\Delta T = -13^\circ \text{C}$

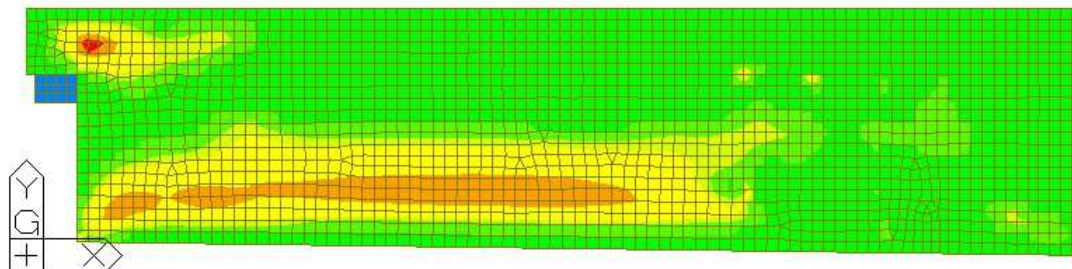
IV. ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗ ΠΛΑΚΩΝ ΑΝΩΔΟΜΗΣ ΚΑΙ ΘΕΜΕΛΙΩΣΗΣ

Ακολούθως, απεικονίζονται γραφικά τα αποτελέσματα της διαστασιολόγησης των επιφανειακών στοιχείων του φορέα ανά στάθμη. Ο απαιτούμενος οπλισμός παρουσιάζεται ανά διεύθυνση στην εφελκυσμένη και θλιβόμενη ζώνη και εκφράζεται σε cm^2/m .

➤ ΣΤΑΘΜΗ ΘΕΜΕΛΙΩΣΗΣ -8.25m, -9.65m



Εικόνα 28: Απαιτούμενος άνω οπλισμός στη διεύθυνση X



midas Gen POST-PROCESSOR SLAB DESIGN	
19.47	
18.12	
16.78	
15.43	
14.09	
12.74	
11.39	
10.05	
8.70	
7.36	
6.01	
4.67	

Position:
Top Side

Smoothing:
Cell (Avg.Nodal)

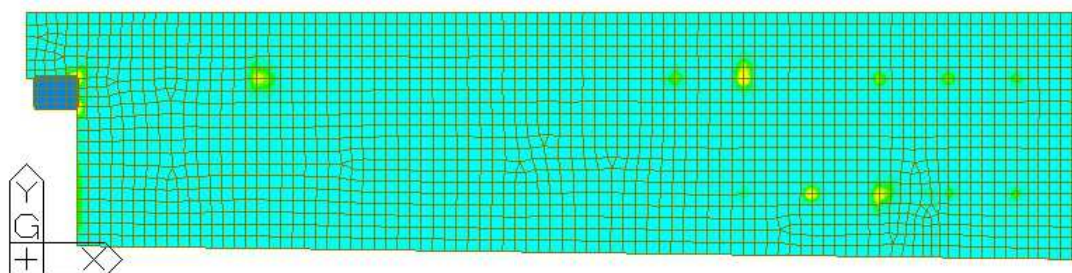
Component:
Direction 2
As_req (cm²/m)

ALL COMBINATION

MAX : 9962
MIN : 9735

FILE: 151494 R1
UNIT: cm²/m
DATE: 12/23/2015

Εικόνα 29: Απαιτούμενος άνω οπλισμός στη διεύθυνση Y



midas Gen POST-PROCESSOR SLAB DESIGN	
40.57	
37.30	
34.04	
30.78	
27.51	
24.25	
20.99	
17.72	
14.46	
11.19	
7.93	
4.67	

Position:
Bottom Side

Smoothing:
Cell (Avg.Nodal)

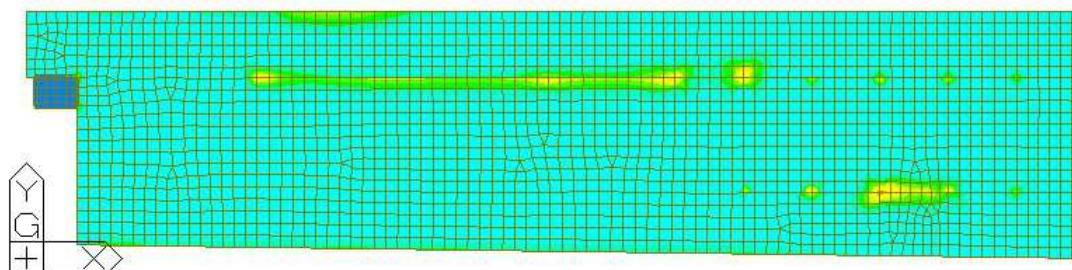
Component:
Direction 1
As_req (cm²/m)

ALL COMBINATION

MAX : 11205
MIN : 9735

FILE: 151494 R1
UNIT: cm²/m
DATE: 12/23/2015

Εικόνα 30: Απαιτούμενος κάτω οπλισμός στη διεύθυνση X



midas Gen POST-PROCESSOR SLAB DESIGN	
46.58	
42.77	
38.96	
35.15	
31.34	
27.53	
23.72	
19.91	
16.10	
12.29	
8.48	
4.67	

Position:
Bottom Side

Smoothing:
Cell (Avg.Nodal)

Component:
Direction 2
As_req (cm²/m)

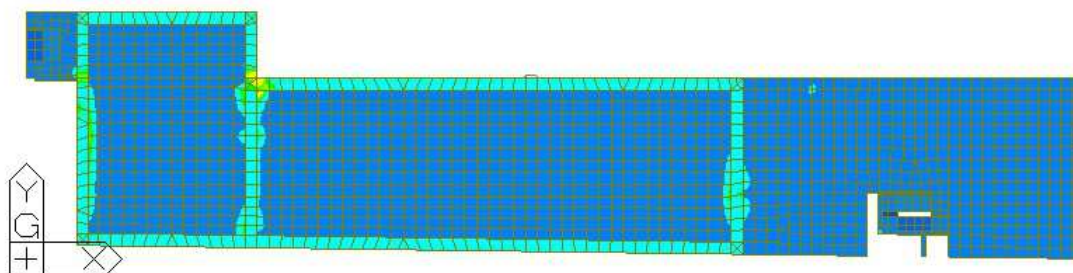
ALL COMBINATION

MAX : 10689
MIN : 9735

FILE: 151494 R1
UNIT: cm²/m
DATE: 12/23/2015

Εικόνα 31: Απαιτούμενος κάτω οπλισμός στη διεύθυνση Y

➤ **ΣΤΑΘΜΗ -3.38M.**



midas Gen POST-PROCESSOR SLAB DESIGN	
60.00	
54.67	
49.33	
44.00	
38.67	
33.33	
28.00	
22.67	
17.33	
12.00	
6.67	
1.33	

Position:
Top Side

Smoothing:
Cell (Avg.Nodal)

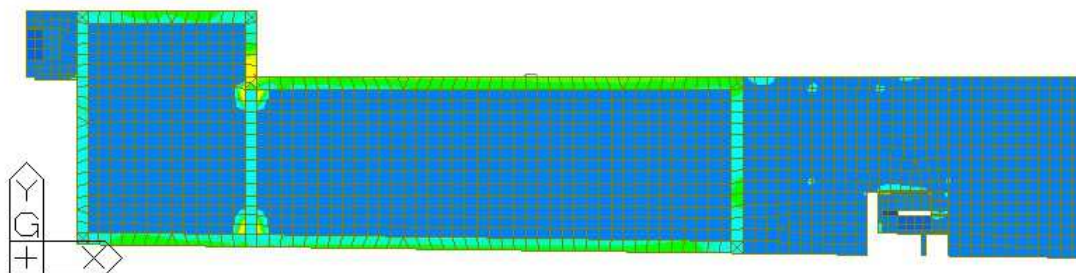
Component:
Direction 1
As_req (cm²/m)

ALL COMBINATION

MAX : 987
MIN : 674

FILE: 151494 R1
UNIT: cm²/m
DATE: 12/23/2015

Εικόνα 32: Απαιτούμενος άνω οπλισμός στη διεύθυνση X



midas Gen POST-PROCESSOR SLAB DESIGN	
61.70	
56.21	
50.73	
45.24	
39.75	
34.26	
28.77	
23.29	
17.80	
12.31	
6.82	
1.33	

Position:
Top Side

Smoothing:
Cell (Avg.Nodal)

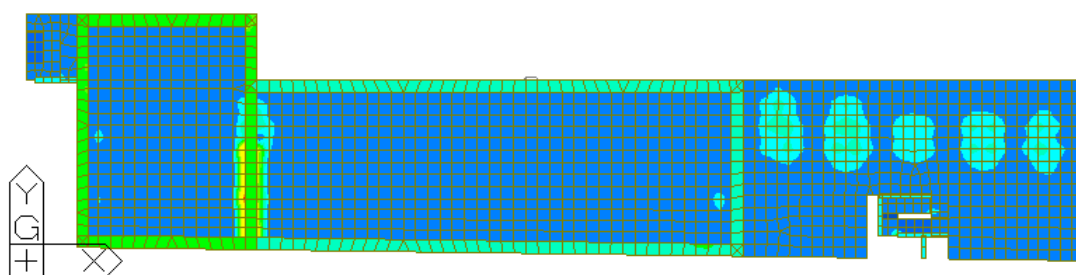
Component:
Direction 2
As_req (cm²/m)

ALL COMBINATION

MAX : 2182
MIN : 674

FILE: 151494 R1
UNIT: cm²/m
DATE: 12/23/2015

Εικόνα 33: Απαιτούμενος άνω οπλισμός στη διεύθυνση Y



midas Gen POST-PROCESSOR SLAB DESIGN	
31.83	
29.06	
26.29	
23.51	
20.74	
17.97	
15.20	
12.42	
9.65	
6.88	
4.11	
1.33	

Position:
Bottom Side

Smoothing:
Cell (Avg.Nodal)

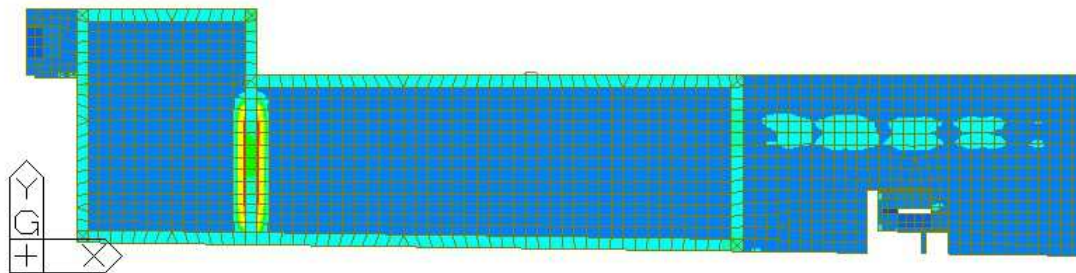
Component:
Direction 1
As_req (cm²/m)

ALL COMBINATION

MAX : 1238
MIN : 674

FILE: 151494 R1
UNIT: cm²/m
DATE: 12/23/2015

Εικόνα 34: Απαιτούμενος κάτω οπλισμός στη διεύθυνση X



midas Gen POST-PROCESSOR SLAB DESIGN	
60.00	
54.67	
49.33	
44.00	
38.67	
33.33	
28.00	
22.67	
17.33	
12.00	
6.67	
1.33	

Position:
Bottom Side

Smoothing:
Cell (Avg.Nodal)

Component:
Direction 2
As_req (cm²/m)

ALL COMBINATION

MAX : 675

MIN : 674

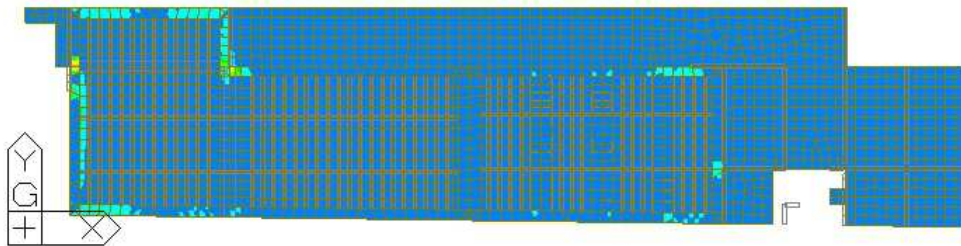
FILE: 151494 R1

UNIT: cm²/m

DATE: 12/23/2015

Εικόνα 75: Απαιτούμενος κάτω οπλισμός στη διεύθυνση Y

➤ ΣΤΑΘΜΕΣ +1.50, +1.90m.



midas Gen POST-PROCESSOR SLAB DESIGN	
122.56	
111.54	
100.52	
89.50	
78.48	
67.46	
56.44	
45.42	
34.40	
23.38	
12.35	
1.33	

Position:
Top Side

Smoothing:
Cell (Element)

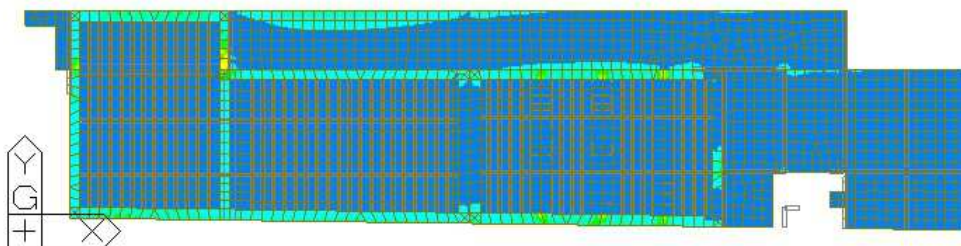
Component:
Direction 1
As_req (cm²/m)

ALL COMBINATION

MAX : 3275
MIN : 2221

FILE: 151494 R1
UNIT: cm²/m
DATE: 12/23/2015

Εικόνα 36: Απαιτούμενος άνω οπλισμός στη διεύθυνση X



midas Gen POST-PROCESSOR SLAB DESIGN	
82.62	
75.23	
67.84	
60.45	
53.06	
45.67	
38.28	
30.89	
23.50	
16.11	
8.72	
1.33	

Position:
Top Side

Smoothing:
Cell (Element)

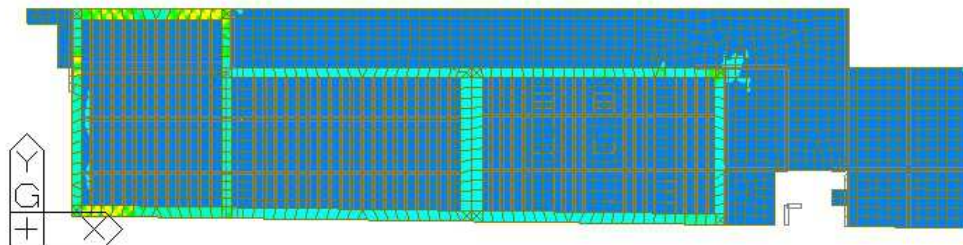
Component:
Direction 2
As_req (cm²/m)

ALL COMBINATION

MAX : 3255
MIN : 2221

FILE: 151494 R1
UNIT: cm²/m
DATE: 12/23/2015

Εικόνα 37: Απαιτούμενος άνω οπλισμός στη διεύθυνση Y



midas Gen POST-PROCESSOR SLAB DESIGN	
41.31	
37.68	
34.04	
30.41	
26.78	
23.14	
19.51	
15.87	
12.24	
8.60	
4.97	
1.33	

Position:
Bottom Side

Smoothing:
Cell (Element)

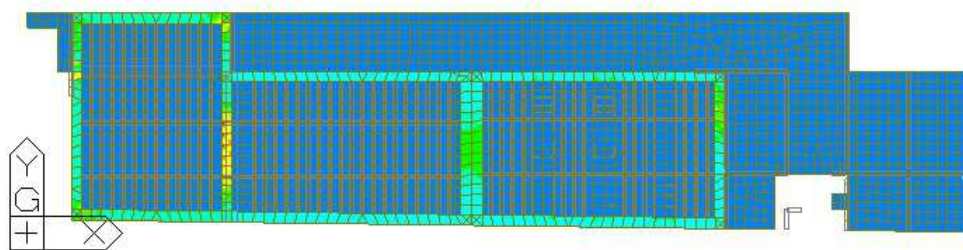
Component:
Direction 1
As_req (cm²/m)

ALL COMBINATION

MAX : 12065
MIN : 2221

FILE: 151494 R1
UNIT: cm²/m
DATE: 12/23/2015

Εικόνα 38: Απαιτούμενος κάτω οπλισμός στη διεύθυνση X



midas Gen POST-PROCESSOR SLAB DESIGN	
44.14	
40.25	
36.36	
32.47	
28.58	
24.68	
20.79	
16.90	
13.01	
9.12	
5.23	
1.33	

Position:
Bottom Side

Smoothing:
Cell (Element)

Component:
Direction 2
As_req (cm²/m)

ALL COMBINATION

MAX : 2416
MIN : 2221

FILE: 151494 R1
UNIT: cm²/m
DATE: 12/23/2015

Εικόνα 39: Απαιτούμενος κάτω οπλισμός στη διεύθυνση Y

ΑΠΟΤΕΛΕΣΜΑΤΑ ΟΡΙΖΟΝΤΙΩΝ ΕΠΙΦΑΝΕΙΑΚΩΝ ΣΤΟΙΧΕΙΩΝ (ΔΙΕΥΘΥΝΣΗ 1)

midas Gen - RC-Slab Flexural Design [Eurocode2:04] Gen 2015
=====

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN S-WAFFLE -3.38-[1], Dir 1.
=====

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 2031
LCB No. : 40+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.7500 m.
lambda = 0.800
a = lambda * x = 0.045 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.6680 kN.
M_Rd = Cc*(d-a/2) = 486.1038 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P14 @100
As_req = 0.0016 m²/m. (0.0016 m²/m.)
M_Ed = 460.5882 kN-m./m.
M_Rd = 486.1038 kN-m./m.
RatM = M_Ed / M_Rd = 0.948 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.076

<< TOP >>

-. Information of Parameters.

Elem No. : 2031
LCB No. : 40+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

```
-----
-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.7500 m.
lambda = 0.800
a      = lambda * x = 0.029 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.4351 kN.
M_Rd  = Cc*(d-a/2) = 319.9847 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P16 @200
As_req = 0.0010 m^2/m. ( 0.0010 m^2/m.)
M_Ed   = 258.1460 kN-m./m.
M_Rd   = 319.9847 kN-m./m.
RatM   = M_Ed / M_Rd = 0.807 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.048
-----
```

```
=====[[*]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN S-WAFFLE -3.38-[2], Dir 1.
=====
```

<< BOTTOM >>

```
-. Information of Parameters.
Elem No. : 2036
LCB No.  : 40+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.6000 m.
Covering  : dB = 0.0500 m.
           dT = 0.0500 m.

-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.5500 m.
lambda = 0.800
a      = lambda * x = 0.023 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.3416 kN.
M_Rd  = Cc*(d-a/2) = 183.9911 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P10 @100
As_req = 0.0008 m^2/m. ( 0.0008 m^2/m.)
M_Ed   = 178.9218 kN-m./m.
M_Rd   = 183.9911 kN-m./m.
RatM   = M_Ed / M_Rd = 0.972 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.055
```

<< TOP >>

-. Information of Parameters.

Elem No. : 2046
 LCB No. : 40+
 Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
 Thickness : 0.6000 m.
 Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
 d = 0.5500 m.
 lambda = 0.800
 a = lambda * x = 0.060 m.
 eta = 0.900
 Cc = eta*fcd*b*a = 0.9023 kN.
 M_Rd = Cc*(d-a/2) = 469.1483 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P20 @150
 As_req = 0.0022 m²/m. (0.0022 m²/m.)
 M_Ed = 466.3527 kN-m./m.
 M_Rd = 469.1483 kN-m./m.
 RatM = M_Ed / M_Rd = 0.994 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.143

[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN S-WAFFLE -3.38-[4], Dir 1.

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 2130
 LCB No. : 40+
 Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
 Thickness : 0.6000 m.
 Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
 d = 0.5500 m.
 lambda = 0.800
 a = lambda * x = 0.033 m.
 eta = 0.900
 Cc = eta*fcd*b*a = 0.4898 kN.
 M_Rd = Cc*(d-a/2) = 261.4158 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P12 @100
 As_req = 0.0011 m²/m. (0.0011 m²/m.)
 M_Ed = 244.1939 kN-m./m.
 M_Rd = 261.4158 kN-m./m.
 RatM = M_Ed / M_Rd = 0.934 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.075

<< TOP >>

-. Information of Parameters.

Elem No. : 2129
LCB No. : 36+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.7500 m.
lambda = 0.800
a = lambda * x = 0.039 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.5801 kN.
M_Rd = Cc*(d-a/2) = 423.8422 kN-m./m.

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=====

-. Information of Moments and Result.

Rein. Bar : P16 @150
As_req = 0.0014 m²/m. (0.0014 m²/m.)
M_Ed = 398.4914 kN-m./m.
M_Rd = 423.8422 kN-m./m.
RatM = M_Ed / M_Rd = 0.940 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.066

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN S-WAFFLE -3.38-[5], Dir 1.
=====

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 2163
LCB No. : 36+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.7500 m.
lambda = 0.800
a = lambda * x = 0.039 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.5801 kN.
M_Rd = Cc*(d-a/2) = 423.8422 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P16 @150
As_req = 0.0014 m²/m. (0.0014 m²/m.)
M_Ed = 417.1173 kN-m./m.
M_Rd = 423.8422 kN-m./m.
RatM = M_Ed / M_Rd = 0.984 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.069

<< TOP >>

-. Information of Parameters.

Elem No. : 2163
LCB No. : 36+

Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.
b = 0.0010 m. (by Code Unit Length).
d = 0.7500 m.
lambda = 0.800
a = lambda * x = 0.090 m.
eta = 0.900
Cc = eta*fcd*b*a = 1.3535 kN.
M_Rd = Cc*(d-a/2) = 954.0699 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P20 @100
As_req = 0.0028 m^2/m. (0.0028 m^2/m.)
M_Ed = 834.2962 kN-m./m.
M_Rd = 954.0699 kN-m./m.
RatM = M_Ed / M_Rd = 0.874 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.137

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN S-WAFFLE +1.90-[1], Dir 1.
=====

<< BOTTOM >>

-. Information of Parameters.
Elem No. : 3168
LCB No. : 44+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.6000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.
b = 0.0010 m. (by Code Unit Length).
d = 0.5500 m.
lambda = 0.800
a = lambda * x = 0.022 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.3255 kN.
M_Rd = Cc*(d-a/2) = 175.4871 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P12 @150
As_req = 0.0007 m^2/m. (0.0007 m^2/m.)
M_Ed = 53.0003 kN-m./m.
M_Rd = 175.4871 kN-m./m.
RatM = M_Ed / M_Rd = 0.302 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.048

<< TOP >>

-. Information of Parameters.
Elem No. : 3179
LCB No. : 43+
Materials : fck = 25000.0000 KPa.

fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.6000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.5500 m.
lambda = 0.800
a = lambda * x = 0.022 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.3255 kN.
M_Rd = Cc*(d-a/2) = 175.4871 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P12 @150
As_req = 0.0008 m²/m. (0.0008 m²/m.)
M_Ed = 171.8586 kN-m./m.
M_Rd = 175.4871 kN-m./m.
RatM = M_Ed / M_Rd = 0.979 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.053

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN S-WAFFLE +1.90-[2], Dir 1.
=====

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=====

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 12081
LCB No. : 40+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.7500 m.
lambda = 0.800
a = lambda * x = 0.058 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.8701 kN.
M_Rd = Cc*(d-a/2) = 627.3511 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P16 @100
As_req = 0.0019 m²/m. (0.0019 m²/m.)
M_Ed = 560.3763 kN-m./m.
M_Rd = 627.3511 kN-m./m.
RatM = M_Ed / M_Rd = 0.893 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.092

<< TOP >>

-. Information of Parameters.

Elem No. : 12045
LCB No. : 39+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

```

-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.7500 m.
lambda = 0.800
a      = lambda * x = 0.058 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.8701 kN.
M_Rd  = Cc*(d-a/2) = 627.3511 kN-m./m.

```

```

-----
midas Gen - RC-Slab Flexural Design [ Eurocode2:04 ] Gen 2015
=====

```

```

-. Information of Moments and Result.
Rein. Bar : P16 @100
As_req = 0.0021 m^2/m. ( 0.0021 m^2/m.)
M_Ed = 616.5396 kN-m./m.
M_Rd = 627.3511 kN-m./m.
RatM = M_Ed / M_Rd = 0.983 < 1.0 ---> O.K !

```

```

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.101

```

```

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN S-WAFFLE +1.90-[6], Dir 1.
=====

```

```

-----
midas Gen - RC-Slab Flexural Design [ Eurocode2:04 ] Gen 2015
=====

```

<< BOTTOM >>

```

-. Information of Parameters.
Elem No. : 3297
LCB NO. : 40+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering : dB = 0.0500 m.
           dT = 0.0500 m.

```

```

-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.7500 m.
lambda = 0.800
a      = lambda * x = 0.090 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 1.3535 kN.
M_Rd  = Cc*(d-a/2) = 954.0699 kN-m./m.

```

```

-. Information of Moments and Result.
Rein. Bar : P20 @100
As_req = 0.0024 m^2/m. ( 0.0024 m^2/m.)
M_Ed = 712.4007 kN-m./m.
M_Rd = 954.0699 kN-m./m.
RatM = M_Ed / M_Rd = 0.747 < 1.0 ---> O.K !

```

```

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.117

```

<< TOP >>

```

-. Information of Parameters.
Elem No. : 3286
LCB NO. : 40+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.8000 m.

```

Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.7500 m.
lambda = 0.800
a = lambda * x = 0.045 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.6680 kN.
M_Rd = Cc*(d-a/2) = 486.1038 kN-m./m.

midas Gen - RC-Slab Flexural Design [Eurocode2:04] Gen 2015
=====

-. Information of Moments and Result.

Rein. Bar : P14 @100
As_req = 0.0016 m²/m. (0.0016 m²/m.)
M_Ed = 477.0364 kN-m./m.
M_Rd = 486.1038 kN-m./m.
RatM = M_Ed / M_Rd = 0.981 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.079

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN ELV +5.70-[1], Dir 1.
=====

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 3974
LCB No. : 39+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1705 kN.
M_Rd = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0002 m²/m. (0.0002 m²/m.)
M_Ed = 1.9527 kN-m./m.
M_Rd = 24.6071 kN-m./m.
RatM = M_Ed / M_Rd = 0.079 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.048

<< TOP >>

-. Information of Parameters.

Elem No. : 3974
LCB No. : 40+

midas Gen - RC-Slab Flexural Design [Eurocode2:04] Gen 2015
=====

Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2000 m.

Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1705 kN.
M_Rd = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0002 m²/m. (0.0002 m²/m.)
M_Ed = 3.3793 kN-m./m.
M_Rd = 24.6071 kN-m./m.
RatM = M_Ed / M_Rd = 0.137 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.048

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN ELV +5.70-[2], Dir 1.
=====

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 3998
LCB No. : 39+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1705 kN.
M_Rd = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0002 m²/m. (0.0002 m²/m.)
M_Ed = 9.1945 kN-m./m.

midas Gen - RC-Slab Flexural Design [Eurocode2:04] Gen 2015
=====

M_Rd = 24.6071 kN-m./m.
RatM = M_Ed / M_Rd = 0.374 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.048

<< TOP >>

-. Information of Parameters.

Elem No. : 3985
LCB No. : 39+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

```

-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.1500 m.
lambda = 0.800
a      = lambda * x = 0.011 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.1705 kN.
M_Rd  = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P10 @200
As_req = 0.0004 m^2/m. ( 0.0004 m^2/m.)
M_Ed   = 22.8031 kN-m./m.
M_Rd   = 24.6071 kN-m./m.
RatM   = M_Ed / M_Rd = 0.927 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.094

```

```

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN ELV +8.20-[1], Dir 1.
=====

```

<< BOTTOM >>

```

-. Information of Parameters.
Elem No. : 4014
LCB No.  : 39+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering  : dB = 0.0500 m.
           dT = 0.0500 m.

```

```

-----
midas Gen - RC-Slab Flexural Design [ Eurocode2:04 ] Gen 2015
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```

```

-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.1500 m.
lambda = 0.800
a      = lambda * x = 0.011 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.1705 kN.
M_Rd  = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P10 @200
As_req = 0.0002 m^2/m. ( 0.0002 m^2/m.)
M_Ed   = 1.5196 kN-m./m.
M_Rd   = 24.6071 kN-m./m.
RatM   = M_Ed / M_Rd = 0.062 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.048

```

<< TOP >>

```

-. Information of Parameters.
Elem No. : 4013
LCB No.  : 44+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering  : dB = 0.0500 m.
           dT = 0.0500 m.

```

```

-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.1500 m.
lambda = 0.800
a      = lambda * x = 0.011 m.

```

eta = 0.900
Cc = eta*fcd*b*a = 0.1705 kN.
M_Rd = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0002 m²/m. (0.0002 m²/m.)
M_Ed = 2.8389 kN-m./m.
M_Rd = 24.6071 kN-m./m.
RatM = M_Ed / M_Rd = 0.115 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.048

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN ELV +8.20-[2], Dir 1.
=====

midas Gen - RC-Slab Flexural Design [Eurocode2:04] Gen 2015
=====

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 4026
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1705 kN.
M_Rd = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0003 m²/m. (0.0003 m²/m.)
M_Ed = 16.3273 kN-m./m.
M_Rd = 24.6071 kN-m./m.
RatM = M_Ed / M_Rd = 0.664 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.067

<< TOP >>

-. Information of Parameters.

Elem No. : 4026
LCB No. : 44+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1705 kN.
M_Rd = Cc*(d-a/2) = 24.6071 kN-m./m.

midas Gen - RC-Slab Flexural Design [Eurocode2:04] Gen 2015


```

=====
-. Information of Moments and Result.
Rein. Bar : P10 @200
As_req = 0.0002 m^2/m. ( 0.0002 m^2/m.)
M_Ed = 11.4653 kN-m./m.
M_Rd = 24.6071 kN-m./m.
RatM = M_Ed / M_Rd = 0.466 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.048

```

```

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN ELV +8.20-[3], Dir 1.
=====

```

<< BOTTOM >>

```

-. Information of Parameters.
Elem No. : 4053
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
            fcd = 16666.6667 KPa.
            fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
           dT = 0.0500 m.

-. Information of Design.
b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1705 kN.
M_Rd = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P10 @200
As_req = 0.0002 m^2/m. ( 0.0002 m^2/m.)
M_Ed = 10.7189 kN-m./m.
M_Rd = 24.6071 kN-m./m.
RatM = M_Ed / M_Rd = 0.436 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.048

```

<< TOP >>

```

-. Information of Parameters.
Elem No. : 4040
LCB No. : 38+

```

```

-----
midas Gen - RC-Slab Flexural Design [ Eurocode2:04 ] Gen 2015
-----

```

```

Materials : fck = 25000.0000 KPa.
            fcd = 16666.6667 KPa.
            fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
           dT = 0.0500 m.

-. Information of Design.
b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1705 kN.
M_Rd = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.

```

Rein. Bar : P10 @200
 As_req = 0.0002 m²/m. (0.0002 m²/m.)
 M_Ed = 9.6554 kN-m./m.
 M_Rd = 24.6071 kN-m./m.
 RatM = M_Ed / M_Rd = 0.392 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
 x/d = 0.048

=====
 [[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN SLABS +5.40-[1], Dir 1.
 =====

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 4114
 LCB No. : 37+
 Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
 Thickness : 0.2000 m.
 Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
 d = 0.1500 m.
 lambda = 0.800
 a = lambda * x = 0.015 m.
 eta = 0.900
 Cc = eta*fcd*b*a = 0.2285 kN.
 M_Rd = Cc*(d-a/2) = 32.5367 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @150
 As_req = 0.0005 m²/m. (0.0005 m²/m.)
 M_Ed = 31.1177 kN-m./m.

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M_Rd = 32.5367 kN-m./m.
 RatM = M_Ed / M_Rd = 0.956 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
 x/d = 0.128

<< TOP >>

-. Information of Parameters.

Elem No. : 4097
 LCB No. : 38+
 Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
 Thickness : 0.2000 m.
 Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
 d = 0.1500 m.
 lambda = 0.800
 a = lambda * x = 0.029 m.
 eta = 0.900
 Cc = eta*fcd*b*a = 0.4359 kN.
 M_Rd = Cc*(d-a/2) = 59.0559 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P16 @200
 As_req = 0.0008 m²/m. (0.0008 m²/m.)
 M_Ed = 49.4864 kN-m./m.
 M_Rd = 59.0559 kN-m./m.

RatM = M_{Ed} / M_{Rd} = 0.838 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.204

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN SLABS +5.40-[2], Dir 1.
=====

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 4170
LCB No. : 40+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

midas Gen - RC-Slab Flexural Design [Eurocode2:04] Gen 2015
=====

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1705 kN.
M_Rd = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0003 m²/m. (0.0003 m²/m.)
M_Ed = 18.2301 kN-m./m.
M_Rd = 24.6071 kN-m./m.
RatM = M_{Ed} / M_{Rd} = 0.741 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.075

<< TOP >>

-. Information of Parameters.

Elem No. : 4135
LCB No. : 39+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.022 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.3270 kN.
M_Rd = Cc*(d-a/2) = 45.4797 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P12 @150
As_req = 0.0006 m²/m. (0.0006 m²/m.)
M_Ed = 37.4446 kN-m./m.
M_Rd = 45.4797 kN-m./m.
RatM = M_{Ed} / M_{Rd} = 0.823 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.154

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN SLABS +5.40-[3], Dir 1.
=====

midas Gen - RC-Slab Flexural Design [Eurocode2:04] Gen 2015
=====

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 4220
LCB No. : 39+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1705 kN.
M_Rd = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0003 m²/m. (0.0003 m²/m.)
M_Ed = 15.5256 kN-m./m.
M_Rd = 24.6071 kN-m./m.
RatM = M_Ed / M_Rd = 0.631 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.064

<< TOP >>

-. Information of Parameters.

Elem No. : 4247
LCB No. : 39+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.022 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.3270 kN.
M_Rd = Cc*(d-a/2) = 45.4797 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P12 @150
As_req = 0.0008 m²/m. (0.0008 m²/m.)
M_Ed = 44.5839 kN-m./m.
M_Rd = 45.4797 kN-m./m.
RatM = M_Ed / M_Rd = 0.980 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.183

[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN SLABS +5.40-[4], Dir 1.

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 4291
LCB No. : 40+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1705 kN.
M_Rd = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0004 m²/m. (0.0004 m²/m.)
M_Ed = 21.8617 kN-m./m.
M_Rd = 24.6071 kN-m./m.
RatM = M_Ed / M_Rd = 0.888 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.090

<< TOP >>

-. Information of Parameters.

Elem No. : 4260
LCB No. : 39+

```
Materials : fck = 25000.0000 KPa.
            fcd = 16666.6667 KPa.
            fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering  : dB = 0.0500 m.
            dT = 0.0500 m.
```

-. Information of Design.

```
b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.029 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.4359 kN.
M_Rd = Cc*(d-a/2) = 59.0559 kN-m./m.
```

-. Information of Moments and Result.

```
Rein. Bar : P16 @200
As_req = 0.0008 m^2/m. ( 0.0008 m^2/m.)
M_Ed = 49.6721 kN-m./m.
M_Rd = 59.0559 kN-m./m.
RatM = M_Ed / M_Rd = 0.841 < 1.0 ---> O.K !
```

-. Check ratio of neutral axis depth to effective depth.

```
x/d = 0.204
```

```
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN SLABS +5.40-[5], Dir 1.
```

<< BOTTOM >>

-. Information of Parameters.

```
Elem No. : 4352
LCB No. : 39+
Materials : fck = 25000.0000 KPa.
            fcd = 16666.6667 KPa.
            fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering  : dB = 0.0500 m.
            dT = 0.0500 m.
```

-. Information of Design.

```
b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1705 kN.
M_Rd = Cc*(d-a/2) = 24.6071 kN-m./m.
```

-. Information of Moments and Result.

```
Rein. Bar : P10 @200
As_req = 0.0003 m^2/m. ( 0.0003 m^2/m.)
M_Ed = 15.3923 kN-m./m.
```

M_Rd = 24.6071 kN-m./m.
RatM = M_Ed / M_Rd = 0.626 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.063

<< TOP >>

-. Information of Parameters.

Elem No. : 4367
LCB No. : 40+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.022 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.3340 kN.
M_Rd = Cc*(d-a/2) = 46.3795 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P14 @200
As_req = 0.0008 m^2/m. (0.0008 m^2/m.)
M_Ed = 45.7322 kN-m./m.
M_Rd = 46.3795 kN-m./m.
RatM = M_Ed / M_Rd = 0.986 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.188

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN SLABS +5.40-[6], Dir 1.
=====

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 4405
LCB No. : 39+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

```

-----
-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.1500 m.
lambda = 0.800
a      = lambda * x = 0.011 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.1705 kN.
M_Rd  = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P10 @200
As_req = 0.0002 m^2/m. ( 0.0002 m^2/m.)
M_Ed   = 12.6780 kN-m./m.
M_Rd   = 24.6071 kN-m./m.
RatM   = M_Ed / M_Rd = 0.515 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.052

```

<< TOP >>

```

-. Information of Parameters.
Elem No. : 4378
LCB No.  : 40+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering  : dB = 0.0500 m.
           dT = 0.0500 m.

-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.1500 m.
lambda = 0.800
a      = lambda * x = 0.023 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.3410 kN.
M_Rd  = Cc*(d-a/2) = 47.2760 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P10 @100
As_req = 0.0008 m^2/m. ( 0.0008 m^2/m.)
M_Ed   = 46.9296 kN-m./m.
M_Rd   = 47.2760 kN-m./m.
RatM   = M_Ed / M_Rd = 0.993 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.193

```

```

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN SLABS +5.40-[7], Dir 1.
=====

```


<< BOTTOM >>

-. Information of Parameters.

Elem No. : 4407
LCB No. : 36+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1705 kN.
M_Rd = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0002 m²/m. (0.0002 m²/m.)
M_Ed = 5.5712 kN-m./m.
M_Rd = 24.6071 kN-m./m.
RatM = M_Ed / M_Rd = 0.226 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.048

<< TOP >>

-. Information of Parameters.

Elem No. : 4423
LCB No. : 40+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.015 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.2285 kN.
M_Rd = Cc*(d-a/2) = 32.5367 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @150
As_req = 0.0005 m²/m. (0.0005 m²/m.)
M_Ed = 27.1990 kN-m./m.
M_Rd = 32.5367 kN-m./m.
RatM = M_Ed / M_Rd = 0.836 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.112

[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN SLABS +5.40-[8], Dir 1.

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 4440
LCB No. : 38+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1705 kN.
M_Rd = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0002 m²/m. (0.0002 m²/m.)
M_Ed = 9.2589 kN-m./m.
M_Rd = 24.6071 kN-m./m.
RatM = M_Ed / M_Rd = 0.376 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.048

<< TOP >>

-. Information of Parameters.

Elem No. : 4457
LCB No. : 43+

Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.022 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.3270 kN.
M_Rd = Cc*(d-a/2) = 45.4797 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P12 @150
As_req = 0.0007 m²/m. (0.0007 m²/m.)
M_Ed = 39.6119 kN-m./m.
M_Rd = 45.4797 kN-m./m.
RatM = M_Ed / M_Rd = 0.871 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.163

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN SLABS +5.40-[9], Dir 1.
=====

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 4468
LCB No. : 37+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.015 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.2285 kN.
M_Rd = Cc*(d-a/2) = 32.5367 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @150
As_req = 0.0005 m²/m. (0.0005 m²/m.)
M_Ed = 29.3485 kN-m./m.

```
M_Rd = 32.5367 kN-m./m.
RatM = M_Ed / M_Rd = 0.902 < 1.0 ---> O.K !
```

```
-. Check ratio of neutral axis depth to effective depth.
x/d = 0.121
```

<< TOP >>

-. Information of Parameters.

```
Elem No. : 4471
LCB No. : 39+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
           dT = 0.0500 m.
```

-. Information of Design.

```
b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.022 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.3270 kN.
M_Rd = Cc*(d-a/2) = 45.4797 kN-m./m.
```

-. Information of Moments and Result.

```
Rein. Bar : P12 @150
As_req = 0.0007 m^2/m. ( 0.0007 m^2/m.)
M_Ed = 40.5456 kN-m./m.
M_Rd = 45.4797 kN-m./m.
RatM = M_Ed / M_Rd = 0.892 < 1.0 ---> O.K !
```

```
-. Check ratio of neutral axis depth to effective depth.
x/d = 0.167
```

```
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN RAMP COVER +1.90-[1], Dir 1.
```

<< BOTTOM >>

-. Information of Parameters.

```
Elem No. : 4712
LCB No. : 44+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering : dB = 0.0500 m.
           dT = 0.0500 m.
```

```
-----
-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.2000 m.
lambda = 0.800
a      = lambda * x = 0.015 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.2273 kN.
M_Rd   = Cc*(d-a/2) = 43.7459 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P10 @150
As_req = 0.0005 m^2/m. ( 0.0005 m^2/m.)
M_Ed   = 41.6739 kN-m./m.
M_Rd   = 43.7459 kN-m./m.
RatM   = M_Ed / M_Rd = 0.953 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.096
```

<< TOP >>

```
-. Information of Parameters.
Elem No. : 4663
LCB No.  : 40+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering  : dB = 0.0500 m.
           dT = 0.0500 m.
```

```
-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.2000 m.
lambda = 0.800
a      = lambda * x = 0.091 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 1.3594 kN.
M_Rd   = Cc*(d-a/2) = 210.2783 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P20 @100
As_req = 0.0022 m^2/m. ( 0.0022 m^2/m.)
M_Ed   = 174.1201 kN-m./m.
M_Rd   = 210.2783 kN-m./m.
RatM   = M_Ed / M_Rd = 0.828 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.403
```

```
=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN RAMP COVER +1.50-[1], Dir 1.
=====
```

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 4896
LCB No. : 39+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.2000 m.
lambda = 0.800
a = lambda * x = 0.015 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.2273 kN.
M_Rd = Cc*(d-a/2) = 43.7459 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @150
As_req = 0.0006 m²/m. (0.0006 m²/m.)
M_Ed = 43.2873 kN-m./m.
M_Rd = 43.7459 kN-m./m.
RatM = M_Ed / M_Rd = 0.990 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.100

<< TOP >>

-. Information of Parameters.

Elem No. : 4840
LCB No. : 39+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.2000 m.
lambda = 0.800
a = lambda * x = 0.039 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.5813 kN.
M_Rd = Cc*(d-a/2) = 104.9883 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P16 @150
As_req = 0.0013 m²/m. (0.0013 m²/m.)
M_Ed = 100.1764 kN-m./m.
M_Rd = 104.9883 kN-m./m.
RatM = M_Ed / M_Rd = 0.954 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.232

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN SLABS +1.50-[1], Dir 1.
=====

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 5053
LCB No. : 37+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.2000 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1711 kN.
M_Rd = Cc*(d-a/2) = 33.2430 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0003 m²/m. (0.0003 m²/m.)
M_Ed = 12.4253 kN-m./m.
M_Rd = 33.2430 kN-m./m.
RatM = M_Ed / M_Rd = 0.374 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.048

<< TOP >>

-. Information of Parameters.

Elem No. : 5011
LCB No. : 39+

```
Materials : fck = 25000.0000 KPa.
            fcd = 16666.6667 KPa.
            fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering  : dB = 0.0500 m.
            dT = 0.0500 m.
```

-. Information of Design.

```
b      = 0.0010 m. (by Code Unit Length).
d      = 0.2000 m.
lambda = 0.800
a      = lambda * x = 0.033 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.4875 kN.
M_Rd  = Cc*(d-a/2) = 89.5781 kN-m./m.
```

-. Information of Moments and Result.

```
Rein. Bar : P12 @100
As_req = 0.0011 m^2/m. ( 0.0011 m^2/m.)
M_Ed   = 89.2852 kN-m./m.
M_Rd   = 89.5781 kN-m./m.
RatM   = M_Ed / M_Rd = 0.997 < 1.0 ---> O.K !
```

-. Check ratio of neutral axis depth to effective depth.

```
x/d = 0.207
```

```
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN SLABS +1.50-[2], Dir 1.
```

<< BOTTOM >>

-. Information of Parameters.

```
Elem No. : 5125
LCB No.  : 37+
Materials : fck = 25000.0000 KPa.
            fcd = 16666.6667 KPa.
            fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering  : dB = 0.0500 m.
            dT = 0.0500 m.
```

-. Information of Design.

```
b      = 0.0010 m. (by Code Unit Length).
d      = 0.2000 m.
lambda = 0.800
a      = lambda * x = 0.011 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.1711 kN.
M_Rd  = Cc*(d-a/2) = 33.2430 kN-m./m.
```

-. Information of Moments and Result.

```
Rein. Bar : P10 @200
As_req = 0.0004 m^2/m. ( 0.0004 m^2/m.)
M_Ed   = 27.4984 kN-m./m.
```



```
M_Rd = 33.2430 kN-m./m.
RatM = M_Ed / M_Rd = 0.827 < 1.0 ---> O.K !
```

```
-. Check ratio of neutral axis depth to effective depth.
x/d = 0.064
```

<< TOP >>

-. Information of Parameters.

```
Elem No. : 5116
LCB No. : 36+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering : dB = 0.0500 m.
          dT = 0.0500 m.
```

-. Information of Design.

```
b = 0.0010 m. (by Code Unit Length).
d = 0.2000 m.
lambda = 0.800
a = lambda * x = 0.022 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.3258 kN.
M_Rd = Cc*(d-a/2) = 61.6185 kN-m./m.
```

-. Information of Moments and Result.

```
Rein. Bar : P12 @150
As_req = 0.0007 m^2/m. ( 0.0007 m^2/m.)
M_Ed = 52.2862 kN-m./m.
M_Rd = 61.6185 kN-m./m.
RatM = M_Ed / M_Rd = 0.849 < 1.0 ---> O.K !
```

```
-. Check ratio of neutral axis depth to effective depth.
x/d = 0.121
```

```
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN SLABS +1.50-[3], Dir 1.
```

<< BOTTOM >>

-. Information of Parameters.

```
Elem No. : 5185
LCB No. : 37+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering : dB = 0.0500 m.
          dT = 0.0500 m.
```

```
-----
-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.2000 m.
lambda = 0.800
a      = lambda * x = 0.023 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.3422 kN.
M_Rd  = Cc*(d-a/2) = 64.5344 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P10 @100
As_req = 0.0008 m^2/m. ( 0.0008 m^2/m.)
M_Ed   = 64.5041 kN-m./m.
M_Rd   = 64.5344 kN-m./m.
RatM   = M_Ed / M_Rd = 1.000 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.149
```

<< TOP >>

```
-. Information of Parameters.
Elem No. : 5177
LCB No.  : 42+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering  : dB = 0.0500 m.
           dT = 0.0500 m.
```

```
-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.2000 m.
lambda = 0.800
a      = lambda * x = 0.022 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.3258 kN.
M_Rd  = Cc*(d-a/2) = 61.6185 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P12 @150
As_req = 0.0008 m^2/m. ( 0.0008 m^2/m.)
M_Ed   = 59.4257 kN-m./m.
M_Rd   = 61.6185 kN-m./m.
RatM   = M_Ed / M_Rd = 0.964 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.138
```

```
=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN SLABS +1.50-[4], Dir 1.
=====
```

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 5216
LCB No. : 37+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.2000 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1711 kN.
M_Rd = Cc*(d-a/2) = 33.2430 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0003 m²/m. (0.0003 m²/m.)
M_Ed = 24.5116 kN-m./m.
M_Rd = 33.2430 kN-m./m.
RatM = M_Ed / M_Rd = 0.737 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.057

<< TOP >>

-. Information of Parameters.

Elem No. : 5216
LCB No. : 42+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.2000 m.
lambda = 0.800
a = lambda * x = 0.023 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.3422 kN.
M_Rd = Cc*(d-a/2) = 64.5344 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @100
As_req = 0.0008 m²/m. (0.0008 m²/m.)
M_Ed = 62.9155 kN-m./m.
M_Rd = 64.5344 kN-m./m.
RatM = M_Ed / M_Rd = 0.975 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.146

[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN SLABS +1.50-[5], Dir 1.

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 5255
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.2000 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1711 kN.
M_Rd = Cc*(d-a/2) = 33.2430 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0003 m²/m. (0.0003 m²/m.)
M_Ed = 21.3513 kN-m./m.
M_Rd = 33.2430 kN-m./m.
RatM = M_Ed / M_Rd = 0.642 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.049

<< TOP >>

-. Information of Parameters.

Elem No. : 5255
LCB No. : 40+

Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.2000 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1711 kN.
M_Rd = Cc*(d-a/2) = 33.2430 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0004 m²/m. (0.0004 m²/m.)
M_Ed = 31.2594 kN-m./m.
M_Rd = 33.2430 kN-m./m.
RatM = M_Ed / M_Rd = 0.940 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.072

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN SLABS +1.50-[6], Dir 1.
=====

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 5285
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.2000 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1711 kN.
M_Rd = Cc*(d-a/2) = 33.2430 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0003 m²/m. (0.0003 m²/m.)
M_Ed = 23.2269 kN-m./m.

M_Rd = 33.2430 kN-m./m.
RatM = M_Ed / M_Rd = 0.699 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.054

<< TOP >>

-. Information of Parameters.

Elem No. : 5267
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.2000 m.
lambda = 0.800
a = lambda * x = 0.029 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.4359 kN.
M_Rd = Cc*(d-a/2) = 80.8528 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P16 @200
As_req = 0.0010 m^2/m. (0.0010 m^2/m.)
M_Ed = 79.0242 kN-m./m.
M_Rd = 80.8528 kN-m./m.
RatM = M_Ed / M_Rd = 0.977 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.183

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN SLABS +1.50-[7], Dir 1.
=====

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 5331
LCB No. : 39+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

```
-----
-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.2000 m.
lambda = 0.800
a      = lambda * x = 0.022 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.3258 kN.
M_Rd  = Cc*(d-a/2) = 61.6185 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P12 @150
As_req = 0.0006 m^2/m. ( 0.0006 m^2/m.)
M_Ed   = 47.9352 kN-m./m.
M_Rd   = 61.6185 kN-m./m.
RatM   = M_Ed / M_Rd = 0.778 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.111
```

<< TOP >>

```
-. Information of Parameters.
Elem No. : 5326
LCB No.  : 40+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering  : dB = 0.0500 m.
           dT = 0.0500 m.
```

```
-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.2000 m.
lambda = 0.800
a      = lambda * x = 0.039 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.5813 kN.
M_Rd  = Cc*(d-a/2) = 104.9883 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P16 @150
As_req = 0.0012 m^2/m. ( 0.0012 m^2/m.)
M_Ed   = 91.9651 kN-m./m.
M_Rd   = 104.9883 kN-m./m.
RatM   = M_Ed / M_Rd = 0.876 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.213
```

```
=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN SLABS -3.38-[1], Dir 1.
=====
```

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 5454
LCB No. : 36+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.2000 m.
lambda = 0.800
a = lambda * x = 0.029 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.4359 kN.
M_Rd = Cc*(d-a/2) = 80.8528 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P16 @200
As_req = 0.0009 m²/m. (0.0009 m²/m.)
M_Ed = 67.5596 kN-m./m.
M_Rd = 80.8528 kN-m./m.
RatM = M_Ed / M_Rd = 0.836 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.156

<< TOP >>

-. Information of Parameters.

Elem No. : 5451
LCB No. : 40+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.2000 m.
lambda = 0.800
a = lambda * x = 0.033 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.4875 kN.
M_Rd = Cc*(d-a/2) = 89.5781 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P12 @100
As_req = 0.0011 m²/m. (0.0011 m²/m.)
M_Ed = 85.8949 kN-m./m.
M_Rd = 89.5781 kN-m./m.
RatM = M_Ed / M_Rd = 0.959 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.199

[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN SLABS -3.38-[2], Dir 1.

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 5494
LCB No. : 39+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.2000 m.
lambda = 0.800
a = lambda * x = 0.029 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.4359 kN.
M_Rd = Cc*(d-a/2) = 80.8528 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P16 @200
As_req = 0.0008 m²/m. (0.0008 m²/m.)
M_Ed = 66.0922 kN-m./m.
M_Rd = 80.8528 kN-m./m.
RatM = M_Ed / M_Rd = 0.817 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.153

<< TOP >>

-. Information of Parameters.

Elem No. : 5466
LCB No. : 40+

```
Materials : fck = 25000.0000 KPa.
            fcd = 16666.6667 KPa.
            fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering  : dB = 0.0500 m.
            dT = 0.0500 m.
```

-. Information of Design.

```
b = 0.0010 m. (by Code Unit Length).
d = 0.2000 m.
lambda = 0.800
a = lambda * x = 0.029 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.4359 kN.
M_Rd = Cc*(d-a/2) = 80.8528 kN-m./m.
```

-. Information of Moments and Result.

```
Rein. Bar : P16 @200
As_req = 0.0009 m^2/m. ( 0.0009 m^2/m.)
M_Ed = 68.2427 kN-m./m.
M_Rd = 80.8528 kN-m./m.
RatM = M_Ed / M_Rd = 0.844 < 1.0 ---> O.K !
```

-. Check ratio of neutral axis depth to effective depth.

```
x/d = 0.158
```

```
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN SLABS -3.38-[3], Dir 1.
```

<< BOTTOM >>

-. Information of Parameters.

```
Elem No. : 5560
LCB No. : 40+
Materials : fck = 25000.0000 KPa.
            fcd = 16666.6667 KPa.
            fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering  : dB = 0.0500 m.
            dT = 0.0500 m.
```

-. Information of Design.

```
b = 0.0010 m. (by Code Unit Length).
d = 0.2000 m.
lambda = 0.800
a = lambda * x = 0.022 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.3258 kN.
M_Rd = Cc*(d-a/2) = 61.6185 kN-m./m.
```

-. Information of Moments and Result.

```
Rein. Bar : P12 @150
As_req = 0.0007 m^2/m. ( 0.0007 m^2/m.)
M_Ed = 56.7446 kN-m./m.
```

```
M_Rd = 61.6185 kN-m./m.
RatM = M_Ed / M_Rd = 0.921 < 1.0 ---> O.K !
```

```
-. Check ratio of neutral axis depth to effective depth.
x/d = 0.131
```

<< TOP >>

-. Information of Parameters.

```
Elem No. : 5545
LCB No. : 44+
Materials : fck = 25000.0000 KPa.
            fcd = 16666.6667 KPa.
            fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering : dB = 0.0500 m.
           dT = 0.0500 m.
```

-. Information of Design.

```
b = 0.0010 m. (by Code Unit Length).
d = 0.2000 m.
lambda = 0.800
a = lambda * x = 0.023 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.3422 kN.
M_Rd = Cc*(d-a/2) = 64.5344 kN-m./m.
```

-. Information of Moments and Result.

```
Rein. Bar : P10 @100
As_req = 0.0008 m^2/m. ( 0.0008 m^2/m.)
M_Ed = 63.8488 kN-m./m.
M_Rd = 64.5344 kN-m./m.
RatM = M_Ed / M_Rd = 0.989 < 1.0 ---> O.K !
```

```
-. Check ratio of neutral axis depth to effective depth.
x/d = 0.148
```

```
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN SLABS -3.38-[4], Dir 1.
```

<< BOTTOM >>

-. Information of Parameters.

```
Elem No. : 5612
LCB No. : 36+
Materials : fck = 25000.0000 KPa.
            fcd = 16666.6667 KPa.
            fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering : dB = 0.0500 m.
           dT = 0.0500 m.
```

```
-----
-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.2000 m.
lambda = 0.800
a      = lambda * x = 0.011 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.1711 kN.
M_Rd   = Cc*(d-a/2) = 33.2430 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P10 @200
As_req = 0.0003 m^2/m. ( 0.0003 m^2/m.)
M_Ed   = 10.2437 kN-m./m.
M_Rd   = 33.2430 kN-m./m.
RatM   = M_Ed / M_Rd = 0.308 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.048
```

<< TOP >>

```
-. Information of Parameters.
Elem No. : 5615
LCB No.  : 43+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering  : dB = 0.0500 m.
           dT = 0.0500 m.
```

```
-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.2000 m.
lambda = 0.800
a      = lambda * x = 0.015 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.2273 kN.
M_Rd   = Cc*(d-a/2) = 43.7459 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P10 @150
As_req = 0.0005 m^2/m. ( 0.0005 m^2/m.)
M_Ed   = 35.9648 kN-m./m.
M_Rd   = 43.7459 kN-m./m.
RatM   = M_Ed / M_Rd = 0.822 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.083
```

```
=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN SLABS -3.38-[5], Dir 1.
=====
```

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 5664
LCB No. : 40+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.2000 m.
lambda = 0.800
a = lambda * x = 0.023 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.3422 kN.
M_Rd = Cc*(d-a/2) = 64.5344 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @100
As_req = 0.0008 m²/m. (0.0008 m²/m.)
M_Ed = 63.0647 kN-m./m.
M_Rd = 64.5344 kN-m./m.
RatM = M_Ed / M_Rd = 0.977 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.146

<< TOP >>

-. Information of Parameters.

Elem No. : 5671
LCB No. : 36+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.2000 m.
lambda = 0.800
a = lambda * x = 0.022 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.3258 kN.
M_Rd = Cc*(d-a/2) = 61.6185 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P12 @150
As_req = 0.0007 m²/m. (0.0007 m²/m.)
M_Ed = 52.7465 kN-m./m.
M_Rd = 61.6185 kN-m./m.
RatM = M_Ed / M_Rd = 0.856 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.122

[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN SLABS -3.38-[6], Dir 1.

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 5683
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.2000 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1711 kN.
M_Rd = Cc*(d-a/2) = 33.2430 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0003 m²/m. (0.0003 m²/m.)
M_Ed = 11.1830 kN-m./m.
M_Rd = 33.2430 kN-m./m.
RatM = M_Ed / M_Rd = 0.336 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.048

<< TOP >>

-. Information of Parameters.

Elem No. : 5715
LCB No. : 36+

```
Materials : fck = 25000.0000 KPa.
            fcd = 16666.6667 KPa.
            fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering  : dB = 0.0500 m.
            dT = 0.0500 m.
```

-. Information of Design.

```
b = 0.0010 m. (by Code Unit Length).
d = 0.2000 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1711 kN.
M_Rd = Cc*(d-a/2) = 33.2430 kN-m./m.
```

-. Information of Moments and Result.

```
Rein. Bar : P10 @200
As_req = 0.0004 m^2/m. ( 0.0004 m^2/m.)
M_Ed = 27.7528 kN-m./m.
M_Rd = 33.2430 kN-m./m.
RatM = M_Ed / M_Rd = 0.835 < 1.0 ---> O.K !
```

-. Check ratio of neutral axis depth to effective depth.

```
x/d = 0.064
```

```
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN SLABS -3.38-[7], Dir 1.
```

<< BOTTOM >>

-. Information of Parameters.

```
Elem No. : 5740
LCB No. : 40+
Materials : fck = 25000.0000 KPa.
            fcd = 16666.6667 KPa.
            fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering  : dB = 0.0500 m.
            dT = 0.0500 m.
```

-. Information of Design.

```
b = 0.0010 m. (by Code Unit Length).
d = 0.2000 m.
lambda = 0.800
a = lambda * x = 0.029 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.4359 kN.
M_Rd = Cc*(d-a/2) = 80.8528 kN-m./m.
```

-. Information of Moments and Result.

```
Rein. Bar : P16 @200
As_req = 0.0009 m^2/m. ( 0.0009 m^2/m.)
M_Ed = 67.4820 kN-m./m.
```

```
M_Rd = 80.8528 kN-m./m.
RatM = M_Ed / M_Rd = 0.835 < 1.0 ---> O.K !
```

```
-. Check ratio of neutral axis depth to effective depth.
x/d = 0.156
```

<< TOP >>

-. Information of Parameters.

```
Elem No. : 5773
LCB No. : 36+
Materials : fck = 25000.0000 KPa.
            fcd = 16666.6667 KPa.
            fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering : dB = 0.0500 m.
           dT = 0.0500 m.
```

-. Information of Design.

```
b = 0.0010 m. (by Code Unit Length).
d = 0.2000 m.
lambda = 0.800
a = lambda * x = 0.022 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.3258 kN.
M_Rd = Cc*(d-a/2) = 61.6185 kN-m./m.
```

-. Information of Moments and Result.

```
Rein. Bar : P12 @150
As_req = 0.0007 m^2/m. ( 0.0007 m^2/m.)
M_Ed = 55.6636 kN-m./m.
M_Rd = 61.6185 kN-m./m.
RatM = M_Ed / M_Rd = 0.903 < 1.0 ---> O.K !
```

```
-. Check ratio of neutral axis depth to effective depth.
x/d = 0.129
```

```
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN SLABS -3.38-[8], Dir 1.
```

<< BOTTOM >>

-. Information of Parameters.

```
Elem No. : 5806
LCB No. : 44+
Materials : fck = 25000.0000 KPa.
            fcd = 16666.6667 KPa.
            fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering : dB = 0.0500 m.
           dT = 0.0500 m.
```



```
-----
-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.2000 m.
lambda = 0.800
a      = lambda * x = 0.011 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.1711 kN.
M_Rd   = Cc*(d-a/2) = 33.2430 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P10 @200
As_req = 0.0003 m^2/m. ( 0.0003 m^2/m.)
M_Ed   = 20.4280 kN-m./m.
M_Rd   = 33.2430 kN-m./m.
RatM   = M_Ed / M_Rd = 0.615 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.048
```

<< TOP >>

-. Information of Parameters.

```
Elem No. : 5806
LCB No.  : 43+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering  : dB = 0.0500 m.
           dT = 0.0500 m.
```

-. Information of Design.

```
b      = 0.0010 m. (by Code Unit Length).
d      = 0.2000 m.
lambda = 0.800
a      = lambda * x = 0.022 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.3258 kN.
M_Rd   = Cc*(d-a/2) = 61.6185 kN-m./m.
```

-. Information of Moments and Result.

```
Rein. Bar : P12 @150
As_req = 0.0006 m^2/m. ( 0.0006 m^2/m.)
M_Ed   = 49.2813 kN-m./m.
M_Rd   = 61.6185 kN-m./m.
RatM   = M_Ed / M_Rd = 0.800 < 1.0 ---> O.K !
```

```
-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.114
```

```
=====  
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN SLABS -3.38-[9], Dir 1.  
=====
```

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 5823
LCB No. : 44+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.2000 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1711 kN.
M_Rd = Cc*(d-a/2) = 33.2430 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0003 m²/m. (0.0003 m²/m.)
M_Ed = 20.5513 kN-m./m.
M_Rd = 33.2430 kN-m./m.
RatM = M_Ed / M_Rd = 0.618 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.048

<< TOP >>

-. Information of Parameters.

Elem No. : 5838
LCB No. : 40+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.2000 m.
lambda = 0.800
a = lambda * x = 0.039 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.5813 kN.
M_Rd = Cc*(d-a/2) = 104.9883 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P16 @150
As_req = 0.0012 m²/m. (0.0012 m²/m.)
M_Ed = 91.1645 kN-m./m.
M_Rd = 104.9883 kN-m./m.
RatM = M_Ed / M_Rd = 0.868 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.211

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STAIRS-1-[1], Dir 1.
=====

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 5942
LCB No. : 36+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.022 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.3270 kN.
M_Rd = Cc*(d-a/2) = 45.4797 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P12 @150
As_req = 0.0007 m²/m. (0.0007 m²/m.)
M_Ed = 42.4615 kN-m./m.
M_Rd = 45.4797 kN-m./m.
RatM = M_Ed / M_Rd = 0.934 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.175

<< TOP >>

-. Information of Parameters.

Elem No. : 5940
LCB No. : 36+

Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.060 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.9070 kN.
M_Rd = Cc*(d-a/2) = 108.6312 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P20 @150
As_req = 0.0018 m²/m. (0.0018 m²/m.)
M_Ed = 107.9207 kN-m./m.
M_Rd = 108.6312 kN-m./m.
RatM = M_Ed / M_Rd = 0.993 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.444

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STAIRS-1-[2], Dir 1.
=====

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 5949
LCB No. : 44+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.015 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.2285 kN.
M_Rd = Cc*(d-a/2) = 32.5367 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @150
As_req = 0.0005 m²/m. (0.0005 m²/m.)
M_Ed = 26.6167 kN-m./m.

M_Rd = 32.5367 kN-m./m.
RatM = M_Ed / M_Rd = 0.818 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.110

<< TOP >>

-. Information of Parameters.

Elem No. : 5946
LCB No. : 44+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.022 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.3270 kN.
M_Rd = Cc*(d-a/2) = 45.4797 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P12 @150
As_req = 0.0007 m^2/m. (0.0007 m^2/m.)
M_Ed = 38.1859 kN-m./m.
M_Rd = 45.4797 kN-m./m.
RatM = M_Ed / M_Rd = 0.840 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.157

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STAIRS-1-[3], Dir 1.
=====

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 5954
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

```
-----
-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.1500 m.
lambda = 0.800
a      = lambda * x = 0.011 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.1705 kN.
M_Rd  = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P10 @200
As_req = 0.0002 m^2/m. ( 0.0002 m^2/m.)
M_Ed   = 11.3688 kN-m./m.
M_Rd   = 24.6071 kN-m./m.
RatM   = M_Ed / M_Rd = 0.462 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.048
```

<< TOP >>

-. Information of Parameters.

```
Elem No. : 5956
LCB No.  : 44+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering  : dB = 0.0500 m.
           dT = 0.0500 m.
```

-. Information of Design.

```
b      = 0.0010 m. (by Code Unit Length).
d      = 0.1500 m.
lambda = 0.800
a      = lambda * x = 0.022 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.3270 kN.
M_Rd  = Cc*(d-a/2) = 45.4797 kN-m./m.
```

-. Information of Moments and Result.

```
Rein. Bar : P12 @150
As_req = 0.0008 m^2/m. ( 0.0008 m^2/m.)
M_Ed   = 44.1727 kN-m./m.
M_Rd   = 45.4797 kN-m./m.
RatM   = M_Ed / M_Rd = 0.971 < 1.0 ---> O.K !
```

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.182

```
=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STAIRS-1-[4], Dir 1.
=====
```

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 5963
LCB No. : 44+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1705 kN.
M_Rd = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0004 m²/m. (0.0004 m²/m.)
M_Ed = 22.5559 kN-m./m.
M_Rd = 24.6071 kN-m./m.
RatM = M_Ed / M_Rd = 0.917 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.093

<< TOP >>

-. Information of Parameters.

Elem No. : 5960
LCB No. : 44+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.015 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.2285 kN.
M_Rd = Cc*(d-a/2) = 32.5367 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @150
As_req = 0.0005 m²/m. (0.0005 m²/m.)
M_Ed = 27.0431 kN-m./m.
M_Rd = 32.5367 kN-m./m.
RatM = M_Ed / M_Rd = 0.831 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.111

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STAIRS-1-[5], Dir 1.
=====

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 5969
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1705 kN.
M_Rd = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0002 m²/m. (0.0002 m²/m.)
M_Ed = 10.8045 kN-m./m.
M_Rd = 24.6071 kN-m./m.
RatM = M_Ed / M_Rd = 0.439 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.048

<< TOP >>

-. Information of Parameters.

Elem No. : 5969
LCB No. : 44+

Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1705 kN.
M_Rd = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0003 m²/m. (0.0003 m²/m.)
M_Ed = 16.9465 kN-m./m.
M_Rd = 24.6071 kN-m./m.
RatM = M_Ed / M_Rd = 0.689 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.070

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STAIRS-1-[6], Dir 1.
=====

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 5981
LCB No. : 38+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1705 kN.
M_Rd = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0002 m²/m. (0.0002 m²/m.)
M_Ed = 10.6926 kN-m./m.

M_Rd = 24.6071 kN-m./m.
RatM = M_Ed / M_Rd = 0.435 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.048

<< TOP >>

-. Information of Parameters.

Elem No. : 5978
LCB No. : 44+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.016 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.2443 kN.
M_Rd = Cc*(d-a/2) = 34.6604 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P12 @200
As_req = 0.0006 m^2/m. (0.0006 m^2/m.)
M_Ed = 33.9917 kN-m./m.
M_Rd = 34.6604 kN-m./m.
RatM = M_Ed / M_Rd = 0.981 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.140

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STAIRS-1-[7], Dir 1.
=====

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 5984
LCB No. : 44+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1705 kN.
M_Rd = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0002 m^2/m. (0.0002 m^2/m.)
M_Ed = 6.2564 kN-m./m.
M_Rd = 24.6071 kN-m./m.

RatM = $M_{Ed} / M_{Rd} = 0.254 < 1.0$ ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.048

<< TOP >>

-. Information of Parameters.

Elem No. : 5987
LCB No. : 36+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1705 kN.
M_Rd = Cc*(d-a/2) = 24.6071 kN-m./m.

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=====

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0002 m²/m. (0.0002 m²/m.)
M_Ed = 13.7324 kN-m./m.
M_Rd = 24.6071 kN-m./m.
RatM = $M_{Ed} / M_{Rd} = 0.558 < 1.0$ ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.057

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STAIRS-1-[8], Dir 1.
=====

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 5992
LCB No. : 44+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.015 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.2285 kN.
M_Rd = Cc*(d-a/2) = 32.5367 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @150
As_req = 0.0004 m²/m. (0.0004 m²/m.)
M_Ed = 26.2021 kN-m./m.
M_Rd = 32.5367 kN-m./m.
RatM = $M_{Ed} / M_{Rd} = 0.805 < 1.0$ ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.108

<< TOP >>

-. Information of Parameters.
Elem No. : 5995
LCB NO. : 44+

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=====

Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.
b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.016 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.2443 kN.
M_Rd = Cc*(d-a/2) = 34.6604 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P12 @200
As_req = 0.0006 m²/m. (0.0006 m²/m.)
M_Ed = 32.6554 kN-m./m.
M_Rd = 34.6604 kN-m./m.
RatM = M_Ed / M_Rd = 0.942 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.134

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STAIRS-1-[9], Dir 1.
=====

<< BOTTOM >>

-. Information of Parameters.
Elem No. : 5998
LCB No. : 37+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.
b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1705 kN.
M_Rd = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P10 @200
As_req = 0.0004 m²/m. (0.0004 m²/m.)
M_Ed = 21.4999 kN-m./m.

M_Rd = 24.6071 kN-m./m.
RatM = M_Ed / M_Rd = 0.874 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.088

<< TOP >>

-. Information of Parameters.

Elem No. : 5998
LCB No. : 38+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.022 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.3270 kN.
M_Rd = Cc*(d-a/2) = 45.4797 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P12 @150
As_req = 0.0007 m^2/m. (0.0007 m^2/m.)
M_Ed = 39.3901 kN-m./m.
M_Rd = 45.4797 kN-m./m.
RatM = M_Ed / M_Rd = 0.866 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.162

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STAIRS-1-[10], Dir 1.
=====

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 6007
LCB No. : 38+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

```
-----
-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.1500 m.
lambda = 0.800
a      = lambda * x = 0.011 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.1705 kN.
M_Rd  = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P10 @200
As_req = 0.0002 m^2/m. ( 0.0002 m^2/m.)
M_Ed   = 11.1103 kN-m./m.
M_Rd   = 24.6071 kN-m./m.
RatM   = M_Ed / M_Rd = 0.452 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.048
```

<< TOP >>

```
-. Information of Parameters.
Elem No. : 6004
LCB No.  : 44+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering  : dB = 0.0500 m.
           dT = 0.0500 m.
```

```
-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.1500 m.
lambda = 0.800
a      = lambda * x = 0.016 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.2443 kN.
M_Rd  = Cc*(d-a/2) = 34.6604 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P12 @200
As_req = 0.0006 m^2/m. ( 0.0006 m^2/m.)
M_Ed   = 33.6521 kN-m./m.
M_Rd   = 34.6604 kN-m./m.
RatM   = M_Ed / M_Rd = 0.971 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.138
```

```
=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STAIRS-1-[11], Dir 1.
=====
```

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 6010
LCB No. : 44+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1705 kN.
M_Rd = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0002 m²/m. (0.0002 m²/m.)
M_Ed = 7.5881 kN-m./m.
M_Rd = 24.6071 kN-m./m.
RatM = M_Ed / M_Rd = 0.308 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.048

<< TOP >>

-. Information of Parameters.

Elem No. : 6013
LCB No. : 44+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1705 kN.
M_Rd = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0003 m²/m. (0.0003 m²/m.)
M_Ed = 16.2569 kN-m./m.
M_Rd = 24.6071 kN-m./m.
RatM = M_Ed / M_Rd = 0.661 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.067

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STAIRS-1-[12], Dir 1.
=====

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 6018
LCB No. : 44+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1705 kN.
M_Rd = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0004 m²/m. (0.0004 m²/m.)
M_Ed = 23.5765 kN-m./m.
M_Rd = 24.6071 kN-m./m.
RatM = M_Ed / M_Rd = 0.958 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.097

<< TOP >>

-. Information of Parameters.

Elem No. : 6021
LCB No. : 44+

Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1705 kN.
M_Rd = Cc*(d-a/2) = 24.6071 kN-m./m.


```

-. Information of Moments and Result.
Rein. Bar : P10 @200
As_req = 0.0004 m^2/m. ( 0.0004 m^2/m.)
M_Ed = 22.8879 kN-m./m.
M_Rd = 24.6071 kN-m./m.
RatM = M_Ed / M_Rd = 0.930 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.094

```

```

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STAIRS-1-[13], Dir 1.
=====

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<< BOTTOM >>
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```

-. Information of Parameters.
Elem No. : 6024
LCB No. : 44+
Materials : fck = 25000.0000 KPa.
            fcd = 16666.6667 KPa.
            fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
           dT = 0.0500 m.

-. Information of Design.
b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.015 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.2285 kN.
M_Rd = Cc*(d-a/2) = 32.5367 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P10 @150
As_req = 0.0005 m^2/m. ( 0.0005 m^2/m.)
M_Ed = 27.0557 kN-m./m.

```

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M_Rd = 32.5367 kN-m./m.
RatM = M_Ed / M_Rd = 0.832 < 1.0 ---> O.K !

```

```

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.111

```

```
<< TOP >>
```

```

-. Information of Parameters.
Elem No. : 6027
LCB No. : 44+
Materials : fck = 25000.0000 KPa.
            fcd = 16666.6667 KPa.
            fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
           dT = 0.0500 m.

-. Information of Design.
b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1705 kN.
M_Rd = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P10 @200
As_req = 0.0004 m^2/m. ( 0.0004 m^2/m.)
M_Ed = 20.8122 kN-m./m.
M_Rd = 24.6071 kN-m./m.

```

RatM = $M_{Ed} / M_{Rd} = 0.846 < 1.0$ ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.086

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STAIRS-1-[14], Dir 1.
=====

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 6031
LCB No. : 44+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

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-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.015 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.2285 kN.
M_Rd = Cc*(d-a/2) = 32.5367 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @150
As_req = 0.0005 m²/m. (0.0005 m²/m.)
M_Ed = 27.8414 kN-m./m.
M_Rd = 32.5367 kN-m./m.
RatM = $M_{Ed} / M_{Rd} = 0.856 < 1.0$ ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.115

<< TOP >>

-. Information of Parameters.

Elem No. : 6028
LCB No. : 44+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.015 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.2285 kN.
M_Rd = Cc*(d-a/2) = 32.5367 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @150
As_req = 0.0005 m²/m. (0.0005 m²/m.)
M_Ed = 26.9768 kN-m./m.
M_Rd = 32.5367 kN-m./m.
RatM = $M_{Ed} / M_{Rd} = 0.829 < 1.0$ ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.111

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STAIRS-1-[15], Dir 1.
=====

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<< BOTTOM >>

-. Information of Parameters.

Elem No. : 6043
LCB No. : 39+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1705 kN.
M_Rd = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0002 m²/m. (0.0002 m²/m.)
M_Ed = 10.5191 kN-m./m.
M_Rd = 24.6071 kN-m./m.
RatM = M_Ed / M_Rd = 0.427 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.048

<< TOP >>

-. Information of Parameters.

Elem No. : 6041
LCB No. : 36+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.033 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.4887 kN.
M_Rd = Cc*(d-a/2) = 65.3408 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P12 @100
As_req = 0.0011 m²/m. (0.0011 m²/m.)
M_Ed = 64.2648 kN-m./m.
M_Rd = 65.3408 kN-m./m.
RatM = M_Ed / M_Rd = 0.984 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.264

[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STAIRS-1-[16], Dir 1.

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 6047
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1705 kN.
M_Rd = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0004 m²/m. (0.0004 m²/m.)
M_Ed = 24.0045 kN-m./m.
M_Rd = 24.6071 kN-m./m.
RatM = M_Ed / M_Rd = 0.976 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.099

<< TOP >>

-. Information of Parameters.

Elem No. : 6050
LCB No. : 38+

Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.022 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.3270 kN.
M_Rd = Cc*(d-a/2) = 45.4797 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P12 @150
As_req = 0.0007 m²/m. (0.0007 m²/m.)
M_Ed = 42.8897 kN-m./m.
M_Rd = 45.4797 kN-m./m.
RatM = M_Ed / M_Rd = 0.943 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.177

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STAIRS-2-[1], Dir 1.
=====

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 6055
LCB No. : 38+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1705 kN.
M_Rd = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0002 m²/m. (0.0002 m²/m.)
M_Ed = 3.1185 kN-m./m.

```
M_Rd = 24.6071 kN-m./m.
RatM = M_Ed / M_Rd = 0.127 < 1.0 ---> O.K !
```

```
-. Check ratio of neutral axis depth to effective depth.
x/d = 0.048
```

<< TOP >>

-. Information of Parameters.

```
Elem No. : 6056
LCB No. : 40+
Materials : fck = 25000.0000 KPa.
            fcd = 16666.6667 KPa.
            fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
           dT = 0.0500 m.
```

-. Information of Design.

```
b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1705 kN.
M_Rd = Cc*(d-a/2) = 24.6071 kN-m./m.
```

-. Information of Moments and Result.

```
Rein. Bar : P10 @200
As_req = 0.0004 m^2/m. ( 0.0004 m^2/m.)
M_Ed = 22.7266 kN-m./m.
M_Rd = 24.6071 kN-m./m.
RatM = M_Ed / M_Rd = 0.924 < 1.0 ---> O.K !
```

```
-. Check ratio of neutral axis depth to effective depth.
x/d = 0.094
```

```
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STAIRS-2-[2], Dir 1.
```

<< BOTTOM >>

-. Information of Parameters.

```
Elem No. : 6064
LCB No. : 44+
Materials : fck = 25000.0000 KPa.
            fcd = 16666.6667 KPa.
            fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
           dT = 0.0500 m.
```

```

-----
-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.1500 m.
lambda = 0.800
a      = lambda * x = 0.011 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.1705 kN.
M_Rd  = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P10 @200
As_req = 0.0004 m^2/m. ( 0.0004 m^2/m.)
M_Ed   = 22.9502 kN-m./m.
M_Rd   = 24.6071 kN-m./m.
RatM   = M_Ed / M_Rd = 0.933 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.094

```

<< TOP >>

```

-. Information of Parameters.
Elem No. : 6060
LCB No.  : 38+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering  : dB = 0.0500 m.
           dT = 0.0500 m.

-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.1500 m.
lambda = 0.800
a      = lambda * x = 0.015 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.2285 kN.
M_Rd  = Cc*(d-a/2) = 32.5367 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P10 @150
As_req = 0.0005 m^2/m. ( 0.0005 m^2/m.)
M_Ed   = 28.5751 kN-m./m.
M_Rd   = 32.5367 kN-m./m.
RatM   = M_Ed / M_Rd = 0.878 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.118

```

```

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN WAFFLE +1.50-[101], Dir 1.
=====

```

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 3466
LCB No. : 40+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.1500 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1000 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1711 kN.
M_Rd = Cc*(d-a/2) = 16.1336 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0004 m²/m. (0.0004 m²/m.)
M_Ed = 14.4512 kN-m./m.
M_Rd = 16.1336 kN-m./m.
RatM = M_Ed / M_Rd = 0.896 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.134

<< TOP >>

-. Information of Parameters.

Elem No. : 3414
LCB No. : 39+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.1500 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1000 m.
lambda = 0.800
a = lambda * x = 0.044 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.6656 kN.
M_Rd = Cc*(d-a/2) = 51.7939 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P14 @100
As_req = 0.0013 m²/m. (0.0013 m²/m.)
M_Ed = 51.6541 kN-m./m.
M_Rd = 51.7939 kN-m./m.
RatM = M_Ed / M_Rd = 0.997 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.478

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN S-WAFFLE +1.50-[1], Dir 1.
=====

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 3882
LCB No. : 38+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.6000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.5500 m.
lambda = 0.800
a = lambda * x = 0.039 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.5801 kN.
M_Rd = Cc*(d-a/2) = 307.8266 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P16 @150
As_req = 0.0012 m²/m. (0.0012 m²/m.)
M_Ed = 267.8356 kN-m./m.
M_Rd = 307.8266 kN-m./m.
RatM = M_Ed / M_Rd = 0.870 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.082

<< TOP >>

-. Information of Parameters.

Elem No. : 3861
LCB No. : 39+

Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.6000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.5500 m.
lambda = 0.800
a = lambda * x = 0.033 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.4898 kN.
M_Rd = Cc*(d-a/2) = 261.4158 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P12 @100
As_req = 0.0012 m²/m. (0.0012 m²/m.)
M_Ed = 256.3985 kN-m./m.
M_Rd = 261.4158 kN-m./m.
RatM = M_Ed / M_Rd = 0.981 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.078

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN S-WAFFLE +1.50-[3], Dir 1.
=====

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 3923
LCB No. : 40+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.6000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.5500 m.
lambda = 0.800
a = lambda * x = 0.044 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.6639 kN.
M_Rd = Cc*(d-a/2) = 350.4363 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P14 @100
As_req = 0.0015 m²/m. (0.0015 m²/m.)
M_Ed = 328.9578 kN-m./m.
M_Rd = 350.4363 kN-m./m.
RatM = M_Ed / M_Rd = 0.939 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.101

<< TOP >>

-. Information of Parameters.

Elem No. : 3915
LCB No. : 39+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.

fyk = 500000.0000 KPa.
Thickness : 0.6000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.5500 m.
lambda = 0.800
a = lambda * x = 0.090 m.
eta = 0.900
Cc = eta*fcd*b*a = 1.3535 kN.
M_Rd = Cc*(d-a/2) = 683.3668 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P20 @100
As_req = 0.0025 m²/m. (0.0025 m²/m.)
M_Ed = 545.6478 kN-m./m.
M_Rd = 683.3668 kN-m./m.
RatM = M_Ed / M_Rd = 0.798 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.167

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN S-WAFFLE +1.50-[4], Dir 1.
=====

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<< BOTTOM >>

-. Information of Parameters.

Elem No. : 3944
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.6000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.5500 m.
lambda = 0.800
a = lambda * x = 0.029 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.4351 kN.
M_Rd = Cc*(d-a/2) = 232.9730 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P16 @200
As_req = 0.0009 m²/m. (0.0009 m²/m.)
M_Ed = 199.0362 kN-m./m.
M_Rd = 232.9730 kN-m./m.
RatM = M_Ed / M_Rd = 0.854 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.061

<< TOP >>

-. Information of Parameters.

Elem No. : 3947
LCB No. : 44+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.6000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

```

-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.5500 m.
lambda = 0.800
a      = lambda * x = 0.029 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.4351 kN.
M_Rd  = Cc*(d-a/2) = 232.9730 kN-m./m.

```

```

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-. Information of Moments and Result.
Rein. Bar : P16 @200
As_req = 0.0011 m^2/m. ( 0.0011 m^2/m.)
M_Ed = 229.3124 kN-m./m.
M_Rd = 232.9730 kN-m./m.
RatM = M_Ed / M_Rd = 0.984 < 1.0 ---> O.K !

```

```

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.070

```

```

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STAIRS-2-[3], Dir 1.
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```

<< BOTTOM >>

```

-. Information of Parameters.
Elem No. : 6067
LCB No. : 40+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
           dT = 0.0500 m.

```

```

-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.1500 m.
lambda = 0.800
a      = lambda * x = 0.011 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.1705 kN.
M_Rd  = Cc*(d-a/2) = 24.6071 kN-m./m.

```

```

-. Information of Moments and Result.
Rein. Bar : P10 @200
As_req = 0.0004 m^2/m. ( 0.0004 m^2/m.)
M_Ed = 20.7102 kN-m./m.
M_Rd = 24.6071 kN-m./m.
RatM = M_Ed / M_Rd = 0.842 < 1.0 ---> O.K !

```

```

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.085

```

<< TOP >>

```

-. Information of Parameters.
Elem No. : 6066
LCB No. : 38+

```

Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1705 kN.
M_Rd = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0004 m²/m. (0.0004 m²/m.)
M_Ed = 21.9792 kN-m./m.
M_Rd = 24.6071 kN-m./m.
RatM = M_Ed / M_Rd = 0.893 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.090

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STAIRS-2-[4], Dir 1.
=====

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 6069
LCB No. : 39+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1705 kN.
M_Rd = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0003 m²/m. (0.0003 m²/m.)
M_Ed = 20.0297 kN-m./m.

```
M_Rd = 24.6071 kN-m./m.
RatM = M_Ed / M_Rd = 0.814 < 1.0 ---> O.K !
```

```
-. Check ratio of neutral axis depth to effective depth.
x/d = 0.082
```

<< TOP >>

-. Information of Parameters.

```
Elem No. : 6070
LCB No. : 38+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
           dT = 0.0500 m.
```

-. Information of Design.

```
b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1705 kN.
M_Rd = Cc*(d-a/2) = 24.6071 kN-m./m.
```

-. Information of Moments and Result.

```
Rein. Bar : P10 @200
As_req = 0.0004 m^2/m. ( 0.0004 m^2/m.)
M_Ed = 22.2313 kN-m./m.
M_Rd = 24.6071 kN-m./m.
RatM = M_Ed / M_Rd = 0.903 < 1.0 ---> O.K !
```

```
-. Check ratio of neutral axis depth to effective depth.
x/d = 0.091
```

```
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STAIRS-2-[5], Dir 1.
```

<< BOTTOM >>

-. Information of Parameters.

```
Elem No. : 6075
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
           dT = 0.0500 m.
```

```
-----
-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.1500 m.
lambda = 0.800
a      = lambda * x = 0.029 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.4359 kN.
M_Rd  = Cc*(d-a/2) = 59.0559 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P16 @200
As_req = 0.0009 m^2/m. ( 0.0009 m^2/m.)
M_Ed   = 50.9892 kN-m./m.
M_Rd   = 59.0559 kN-m./m.
RatM   = M_Ed / M_Rd = 0.863 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.210
```

<< TOP >>

```
-. Information of Parameters.
Elem No. : 6074
LCB No.  : 43+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering  : dB = 0.0500 m.
           dT = 0.0500 m.
```

```
-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.1500 m.
lambda = 0.800
a      = lambda * x = 0.022 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.3270 kN.
M_Rd  = Cc*(d-a/2) = 45.4797 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P12 @150
As_req = 0.0007 m^2/m. ( 0.0007 m^2/m.)
M_Ed   = 42.7958 kN-m./m.
M_Rd   = 45.4797 kN-m./m.
RatM   = M_Ed / M_Rd = 0.941 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.176
```

```
=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STAIRS-2-[6], Dir 1.
=====
```

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 6082
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.045 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.6680 kN.
M_Rd = Cc*(d-a/2) = 85.3226 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P14 @100
As_req = 0.0014 m²/m. (0.0014 m²/m.)
M_Ed = 80.7991 kN-m./m.
M_Rd = 85.3226 kN-m./m.
RatM = M_Ed / M_Rd = 0.947 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.333

<< TOP >>

-. Information of Parameters.

Elem No. : 6081
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.039 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.5801 kN.
M_Rd = Cc*(d-a/2) = 75.7954 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P16 @150
As_req = 0.0012 m²/m. (0.0012 m²/m.)
M_Ed = 68.4530 kN-m./m.
M_Rd = 75.7954 kN-m./m.
RatM = M_Ed / M_Rd = 0.903 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.282

[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STAIRS-2-[7], Dir 1.

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 6084
LCB No. : 44+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1705 kN.
M_Rd = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0003 m²/m. (0.0003 m²/m.)
M_Ed = 15.9979 kN-m./m.
M_Rd = 24.6071 kN-m./m.
RatM = M_Ed / M_Rd = 0.650 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.066

<< TOP >>

-. Information of Parameters.

Elem No. : 6083
LCB No. : 43+

```

Materials : fck = 25000.0000 KPa.
            fcd = 16666.6667 KPa.
            fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering  : dB = 0.0500 m.
            dT = 0.0500 m.

```

-. Information of Design.

```

b      = 0.0010 m. (by Code Unit Length).
d      = 0.1500 m.
lambda = 0.800
a      = lambda * x = 0.011 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.1705 kN.
M_Rd  = Cc*(d-a/2) = 24.6071 kN-m./m.

```

-. Information of Moments and Result.

```

Rein. Bar : P10 @200
As_req = 0.0004 m^2/m. ( 0.0004 m^2/m.)
M_Ed   = 23.6691 kN-m./m.
M_Rd   = 24.6071 kN-m./m.
RatM   = M_Ed / M_Rd = 0.962 < 1.0 ---> O.K !

```

-. Check ratio of neutral axis depth to effective depth.

```

x/d    = 0.097

```

```

[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STAIRS-2-[8], Dir 1.

```

<< BOTTOM >>

-. Information of Parameters.

```

Elem No. : 6085
LCB No.  : 43+
Materials : fck = 25000.0000 KPa.
            fcd = 16666.6667 KPa.
            fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering  : dB = 0.0500 m.
            dT = 0.0500 m.

```

-. Information of Design.

```

b      = 0.0010 m. (by Code Unit Length).
d      = 0.1500 m.
lambda = 0.800
a      = lambda * x = 0.011 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.1705 kN.
M_Rd  = Cc*(d-a/2) = 24.6071 kN-m./m.

```

-. Information of Moments and Result.

```

Rein. Bar : P10 @200
As_req = 0.0002 m^2/m. ( 0.0002 m^2/m.)
M_Ed   = 9.1513 kN-m./m.

```

```
M_Rd = 24.6071 kN-m./m.
RatM = M_Ed / M_Rd = 0.372 < 1.0 ---> O.K !
```

```
-. Check ratio of neutral axis depth to effective depth.
x/d = 0.048
```

<< TOP >>

-. Information of Parameters.

```
Elem No. : 6086
LCB No. : 38+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
           dT = 0.0500 m.
```

-. Information of Design.

```
b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.015 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.2285 kN.
M_Rd = Cc*(d-a/2) = 32.5367 kN-m./m.
```

-. Information of Moments and Result.

```
Rein. Bar : P10 @150
As_req = 0.0005 m^2/m. ( 0.0005 m^2/m.)
M_Ed = 28.7703 kN-m./m.
M_Rd = 32.5367 kN-m./m.
RatM = M_Ed / M_Rd = 0.884 < 1.0 ---> O.K !
```

```
-. Check ratio of neutral axis depth to effective depth.
x/d = 0.118
```

```
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STAIRS-2-[9], Dir 1.
```

<< BOTTOM >>

-. Information of Parameters.

```
Elem No. : 6096
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
           dT = 0.0500 m.
```

```
-----
-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.1500 m.
lambda = 0.800
a      = lambda * x = 0.022 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.3270 kN.
M_Rd  = Cc*(d-a/2) = 45.4797 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P12 @150
As_req = 0.0006 m^2/m. ( 0.0006 m^2/m.)
M_Ed   = 35.4141 kN-m./m.
M_Rd   = 45.4797 kN-m./m.
RatM   = M_Ed / M_Rd = 0.779 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.146
```

<< TOP >>

```
-. Information of Parameters.
Elem No. : 6092
LCB No.  : 38+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering  : dB = 0.0500 m.
           dT = 0.0500 m.
```

```
-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.1500 m.
lambda = 0.800
a      = lambda * x = 0.016 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.2443 kN.
M_Rd  = Cc*(d-a/2) = 34.6604 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P12 @200
As_req = 0.0006 m^2/m. ( 0.0006 m^2/m.)
M_Ed   = 34.6154 kN-m./m.
M_Rd   = 34.6604 kN-m./m.
RatM   = M_Ed / M_Rd = 0.999 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.142
```

```
=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STAIRS-2-[10], Dir 1.
=====
```

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 6099
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.016 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.2443 kN.
M_Rd = Cc*(d-a/2) = 34.6604 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P12 @200
As_req = 0.0006 m²/m. (0.0006 m²/m.)
M_Ed = 33.3750 kN-m./m.
M_Rd = 34.6604 kN-m./m.
RatM = M_Ed / M_Rd = 0.963 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.137

<< TOP >>

-. Information of Parameters.

Elem No. : 6098
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.022 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.3270 kN.
M_Rd = Cc*(d-a/2) = 45.4797 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P12 @150
As_req = 0.0007 m²/m. (0.0007 m²/m.)
M_Ed = 39.9400 kN-m./m.
M_Rd = 45.4797 kN-m./m.
RatM = M_Ed / M_Rd = 0.878 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.164

[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STAIRS-2-[11], Dir 1.

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 6101
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.022 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.3270 kN.
M_Rd = Cc*(d-a/2) = 45.4797 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P12 @150
As_req = 0.0006 m²/m. (0.0006 m²/m.)
M_Ed = 36.9638 kN-m./m.
M_Rd = 45.4797 kN-m./m.
RatM = M_Ed / M_Rd = 0.813 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.152

<< TOP >>

-. Information of Parameters.

Elem No. : 6101
LCB No. : 43+

Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.022 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.3270 kN.
M_Rd = Cc*(d-a/2) = 45.4797 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P12 @150
As_req = 0.0006 m²/m. (0.0006 m²/m.)
M_Ed = 35.6151 kN-m./m.
M_Rd = 45.4797 kN-m./m.
RatM = M_Ed / M_Rd = 0.783 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.147

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STAIRS-2-[12], Dir 1.
=====

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 6104
LCB No. : 39+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1705 kN.
M_Rd = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0002 m²/m. (0.0002 m²/m.)
M_Ed = 8.1995 kN-m./m.

```
M_Rd = 24.6071 kN-m./m.
RatM = M_Ed / M_Rd = 0.333 < 1.0 ---> O.K !
```

```
-. Check ratio of neutral axis depth to effective depth.
x/d = 0.048
```

<< TOP >>

-. Information of Parameters.

```
Elem No. : 6106
LCB No. : 39+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
           dT = 0.0500 m.
```

-. Information of Design.

```
b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1705 kN.
M_Rd = Cc*(d-a/2) = 24.6071 kN-m./m.
```

-. Information of Moments and Result.

```
Rein. Bar : P10 @200
As_req = 0.0002 m^2/m. ( 0.0002 m^2/m.)
M_Ed = 13.7185 kN-m./m.
M_Rd = 24.6071 kN-m./m.
RatM = M_Ed / M_Rd = 0.558 < 1.0 ---> O.K !
```

```
-. Check ratio of neutral axis depth to effective depth.
x/d = 0.056
```

```
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STAIRS-2-[13], Dir 1.
```

<< BOTTOM >>

-. Information of Parameters.

```
Elem No. : 6111
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
           dT = 0.0500 m.
```



```
-----
-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.1500 m.
lambda = 0.800
a      = lambda * x = 0.029 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.4359 kN.
M_Rd  = Cc*(d-a/2) = 59.0559 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P16 @200
As_req = 0.0009 m^2/m. ( 0.0009 m^2/m.)
M_Ed   = 49.9499 kN-m./m.
M_Rd   = 59.0559 kN-m./m.
RatM   = M_Ed / M_Rd = 0.846 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.206
```

<< TOP >>

```
-. Information of Parameters.
Elem No. : 6111
LCB No.  : 44+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering  : dB = 0.0500 m.
           dT = 0.0500 m.
```

```
-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.1500 m.
lambda = 0.800
a      = lambda * x = 0.011 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.1705 kN.
M_Rd  = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P10 @200
As_req = 0.0002 m^2/m. ( 0.0002 m^2/m.)
M_Ed   = 13.4534 kN-m./m.
M_Rd   = 24.6071 kN-m./m.
RatM   = M_Ed / M_Rd = 0.547 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.055
```

```
=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STAIRS-2-[14], Dir 1.
=====
```

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 6117
LCB No. : 44+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1705 kN.
M_Rd = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0004 m²/m. (0.0004 m²/m.)
M_Ed = 20.5459 kN-m./m.
M_Rd = 24.6071 kN-m./m.
RatM = M_Ed / M_Rd = 0.835 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.085

<< TOP >>

-. Information of Parameters.

Elem No. : 6118
LCB No. : 44+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1705 kN.
M_Rd = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0003 m²/m. (0.0003 m²/m.)
M_Ed = 17.6727 kN-m./m.
M_Rd = 24.6071 kN-m./m.
RatM = M_Ed / M_Rd = 0.718 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.073

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STAIRS-2-[15], Dir 1.
=====

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 6122
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.039 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.5801 kN.
M_Rd = Cc*(d-a/2) = 75.7954 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P16 @150
As_req = 0.0012 m²/m. (0.0012 m²/m.)
M_Ed = 70.8734 kN-m./m.
M_Rd = 75.7954 kN-m./m.
RatM = M_Ed / M_Rd = 0.935 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.292

<< TOP >>

-. Information of Parameters.

Elem No. : 6121
LCB No. : 43+

```
Materials : fck = 25000.0000 KPa.
            fcd = 16666.6667 KPa.
            fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering  : dB = 0.0500 m.
            dT = 0.0500 m.
```

-. Information of Design.

```
b      = 0.0010 m. (by Code Unit Length).
d      = 0.1500 m.
lambda = 0.800
a      = lambda * x = 0.029 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.4359 kN.
M_Rd  = Cc*(d-a/2) = 59.0559 kN-m./m.
```

-. Information of Moments and Result.

```
Rein. Bar : P16 @200
As_req = 0.0010 m^2/m. ( 0.0010 m^2/m.)
M_Ed  = 56.0751 kN-m./m.
M_Rd  = 59.0559 kN-m./m.
RatM  = M_Ed / M_Rd = 0.950 < 1.0 ---> O.K !
```

-. Check ratio of neutral axis depth to effective depth.

```
x/d = 0.231
```

```
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STAIRS-2-[16], Dir 1.
```

<< BOTTOM >>

-. Information of Parameters.

```
Elem No. : 6124
LCB No.  : 43+
Materials : fck = 25000.0000 KPa.
            fcd = 16666.6667 KPa.
            fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering  : dB = 0.0500 m.
            dT = 0.0500 m.
```

-. Information of Design.

```
b      = 0.0010 m. (by Code Unit Length).
d      = 0.1500 m.
lambda = 0.800
a      = lambda * x = 0.011 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.1705 kN.
M_Rd  = Cc*(d-a/2) = 24.6071 kN-m./m.
```

-. Information of Moments and Result.

```
Rein. Bar : P10 @200
As_req = 0.0002 m^2/m. ( 0.0002 m^2/m.)
M_Ed  = 8.3431 kN-m./m.
```

```
M_Rd = 24.6071 kN-m./m.
RatM = M_Ed / M_Rd = 0.339 < 1.0 ---> O.K !
```

```
-. Check ratio of neutral axis depth to effective depth.
x/d = 0.048
```

<< TOP >>

-. Information of Parameters.

```
Elem No. : 6123
LCB No. : 38+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
          dT = 0.0500 m.
```

-. Information of Design.

```
b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.015 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.2285 kN.
M_Rd = Cc*(d-a/2) = 32.5367 kN-m./m.
```

-. Information of Moments and Result.

```
Rein. Bar : P10 @150
As_req = 0.0005 m^2/m. ( 0.0005 m^2/m.)
M_Ed = 26.9993 kN-m./m.
M_Rd = 32.5367 kN-m./m.
RatM = M_Ed / M_Rd = 0.830 < 1.0 ---> O.K !
```

```
-. Check ratio of neutral axis depth to effective depth.
x/d = 0.111
```

```
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STAIRS-2-[17], Dir 1.
```

<< BOTTOM >>

-. Information of Parameters.

```
Elem No. : 6128
LCB No. : 39+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
          dT = 0.0500 m.
```

```
-----
-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.1500 m.
lambda = 0.800
a      = lambda * x = 0.011 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.1705 kN.
M_Rd  = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P10 @200
As_req = 0.0004 m^2/m. ( 0.0004 m^2/m.)
M_Ed   = 23.9211 kN-m./m.
M_Rd   = 24.6071 kN-m./m.
RatM   = M_Ed / M_Rd = 0.972 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.098
```

<< TOP >>

```
-. Information of Parameters.
Elem No. : 6128
LCB No.  : 39+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering  : dB = 0.0500 m.
           dT = 0.0500 m.

-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.1500 m.
lambda = 0.800
a      = lambda * x = 0.058 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.8719 kN.
M_Rd  = Cc*(d-a/2) = 105.4424 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P16 @100
As_req = 0.0016 m^2/m. ( 0.0016 m^2/m.)
M_Ed   = 92.2070 kN-m./m.
M_Rd   = 105.4424 kN-m./m.
RatM   = M_Ed / M_Rd = 0.874 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.379
```

```
=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STAIRS-2-[18], Dir 1.
=====
```

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 6136
LCB No. : 38+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1705 kN.
M_Rd = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0003 m²/m. (0.0003 m²/m.)
M_Ed = 15.1294 kN-m./m.
M_Rd = 24.6071 kN-m./m.
RatM = M_Ed / M_Rd = 0.615 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.062

<< TOP >>

-. Information of Parameters.

Elem No. : 6135
LCB No. : 38+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.015 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.2285 kN.
M_Rd = Cc*(d-a/2) = 32.5367 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @150
As_req = 0.0004 m²/m. (0.0004 m²/m.)
M_Ed = 25.4892 kN-m./m.
M_Rd = 32.5367 kN-m./m.
RatM = M_Ed / M_Rd = 0.783 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.105

[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STAIRS-2-[19], Dir 1.

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 6137
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1705 kN.
M_Rd = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0003 m²/m. (0.0003 m²/m.)
M_Ed = 17.0098 kN-m./m.
M_Rd = 24.6071 kN-m./m.
RatM = M_Ed / M_Rd = 0.691 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.070

<< TOP >>

-. Information of Parameters.

Elem No. : 6138
LCB No. : 39+

Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.015 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.2285 kN.
M_Rd = Cc*(d-a/2) = 32.5367 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @150
As_req = 0.0004 m²/m. (0.0004 m²/m.)
M_Ed = 24.8617 kN-m./m.
M_Rd = 32.5367 kN-m./m.
RatM = M_Ed / M_Rd = 0.764 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.102

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STAIRS-2-[20], Dir 1.
=====

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 6143
LCB No. : 40+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1705 kN.
M_Rd = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0002 m²/m. (0.0002 m²/m.)
M_Ed = 8.8683 kN-m./m.

M_Rd = 24.6071 kN-m./m.
RatM = M_Ed / M_Rd = 0.360 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.048

<< TOP >>

-. Information of Parameters.

Elem No. : 6144
LCB No. : 40+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1705 kN.
M_Rd = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0004 m^2/m. (0.0004 m^2/m.)
M_Ed = 20.7872 kN-m./m.
M_Rd = 24.6071 kN-m./m.
RatM = M_Ed / M_Rd = 0.845 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.086

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STAIRS-2-[21], Dir 1.
=====

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 6147
LCB No. : 44+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

```
-----
-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.1500 m.
lambda = 0.800
a      = lambda * x = 0.011 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.1705 kN.
M_Rd  = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P10 @200
As_req = 0.0002 m^2/m. ( 0.0002 m^2/m.)
M_Ed   = 9.6325 kN-m./m.
M_Rd   = 24.6071 kN-m./m.
RatM   = M_Ed / M_Rd = 0.391 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.048
```

<< TOP >>

```
-. Information of Parameters.
```

```
Elem No. : 6146
LCB No.  : 40+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering  : dB = 0.0500 m.
           dT = 0.0500 m.
```

```
-. Information of Design.
```

```
b      = 0.0010 m. (by Code Unit Length).
d      = 0.1500 m.
lambda = 0.800
a      = lambda * x = 0.022 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.3270 kN.
M_Rd  = Cc*(d-a/2) = 45.4797 kN-m./m.
```

```
-. Information of Moments and Result.
```

```
Rein. Bar : P12 @150
As_req = 0.0007 m^2/m. ( 0.0007 m^2/m.)
M_Ed   = 38.8435 kN-m./m.
M_Rd   = 45.4797 kN-m./m.
RatM   = M_Ed / M_Rd = 0.854 < 1.0 ---> O.K !
```

```
-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.160
```

```
=====  
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STAIRS-2-[22], Dir 1.  
=====
```

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 6156
LCB No. : 37+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1705 kN.
M_Rd = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0002 m²/m. (0.0002 m²/m.)
M_Ed = 13.0781 kN-m./m.
M_Rd = 24.6071 kN-m./m.
RatM = M_Ed / M_Rd = 0.531 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.054

<< TOP >>

-. Information of Parameters.

Elem No. : 6156
LCB No. : 39+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1705 kN.
M_Rd = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0004 m²/m. (0.0004 m²/m.)
M_Ed = 23.7774 kN-m./m.
M_Rd = 24.6071 kN-m./m.
RatM = M_Ed / M_Rd = 0.966 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.098

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STAIRS-2-[23], Dir 1.
=====

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 6160
LCB No. : 40+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1705 kN.
M_Rd = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0002 m²/m. (0.0002 m²/m.)
M_Ed = 9.9877 kN-m./m.
M_Rd = 24.6071 kN-m./m.
RatM = M_Ed / M_Rd = 0.406 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.048

<< TOP >>

-. Information of Parameters.

Elem No. : 6158
LCB No. : 37+

Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.
b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1705 kN.
M_Rd = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P10 @200
As_req = 0.0002 m²/m. (0.0002 m²/m.)
M_Ed = 13.2421 kN-m./m.
M_Rd = 24.6071 kN-m./m.
RatM = M_Ed / M_Rd = 0.538 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.054

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN RAMP-[1], Dir 1.
=====

<< BOTTOM >>

-. Information of Parameters.
Elem No. : 6173
LCB NO. : 40+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.
b = 0.0010 m. (by Code Unit Length).
d = 0.2000 m.
lambda = 0.800
a = lambda * x = 0.015 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.2273 kN.
M_Rd = Cc*(d-a/2) = 43.7459 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P10 @150
As_req = 0.0006 m²/m. (0.0006 m²/m.)
M_Ed = 43.0775 kN-m./m.
M_Rd = 43.7459 kN-m./m.
RatM = M_Ed / M_Rd = 0.985 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.100

<< TOP >>

-. Information of Parameters.
Elem No. : 6171
LCB NO. : 40+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.

fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.2000 m.
lambda = 0.800
a = lambda * x = 0.022 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.3258 kN.
M_Rd = Cc*(d-a/2) = 61.6185 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P12 @150
As_req = 0.0007 m²/m. (0.0007 m²/m.)
M_Ed = 57.7364 kN-m./m.
M_Rd = 61.6185 kN-m./m.
RatM = M_Ed / M_Rd = 0.937 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.134

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN RAMP-[2], Dir 1.
=====

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<< BOTTOM >>

-. Information of Parameters.

Elem No. : 6183
LCB No. : 36+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.2000 m.
lambda = 0.800
a = lambda * x = 0.015 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.2273 kN.
M_Rd = Cc*(d-a/2) = 43.7459 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @150
As_req = 0.0005 m²/m. (0.0005 m²/m.)
M_Ed = 36.8538 kN-m./m.
M_Rd = 43.7459 kN-m./m.
RatM = M_Ed / M_Rd = 0.842 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.085

<< TOP >>

-. Information of Parameters.

Elem No. : 6189
LCB No. : 44+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
 d = 0.2000 m.
 lambda = 0.800
 a = lambda * x = 0.022 m.
 eta = 0.900
 Cc = eta*fcd*b*a = 0.3258 kN.
 M_Rd = Cc*(d-a/2) = 61.6185 kN-m./m.

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 =====

-. Information of Moments and Result.

Rein. Bar : P12 @150
 As_req = 0.0006 m²/m. (0.0006 m²/m.)
 M_Ed = 49.6378 kN-m./m.
 M_Rd = 61.6185 kN-m./m.
 RatM = M_Ed / M_Rd = 0.806 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.115

=====
 [[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN RAMP-[3], Dir 1.
 =====

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 6211
 LCB No. : 36+
 Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
 Thickness : 0.2500 m.
 Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
 d = 0.2000 m.
 lambda = 0.800
 a = lambda * x = 0.022 m.
 eta = 0.900
 Cc = eta*fcd*b*a = 0.3258 kN.
 M_Rd = Cc*(d-a/2) = 61.6185 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P12 @150
 As_req = 0.0006 m²/m. (0.0006 m²/m.)
 M_Ed = 47.7464 kN-m./m.
 M_Rd = 61.6185 kN-m./m.
 RatM = M_Ed / M_Rd = 0.775 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.111

<< TOP >>

-. Information of Parameters.

Elem No. : 6205
 LCB No. : 36+

Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.2000 m.
lambda = 0.800
a = lambda * x = 0.033 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.4875 kN.
M_Rd = Cc*(d-a/2) = 89.5781 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P12 @100
As_req = 0.0011 m²/m. (0.0011 m²/m.)
M_Ed = 82.9137 kN-m./m.
M_Rd = 89.5781 kN-m./m.
RatM = M_Ed / M_Rd = 0.926 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.192

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN RAMP-[4], Dir 1.
=====

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 6301
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.2000 m.
lambda = 0.800
a = lambda * x = 0.091 m.
eta = 0.900
Cc = eta*fcd*b*a = 1.3594 kN.
M_Rd = Cc*(d-a/2) = 210.2783 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P20 @100
As_req = 0.0020 m²/m. (0.0020 m²/m.)
M_Ed = 159.9795 kN-m./m.

```
M_Rd = 210.2783 kN-m./m.
RatM = M_Ed / M_Rd = 0.761 < 1.0 ---> O.K !
```

```
-. Check ratio of neutral axis depth to effective depth.
x/d = 0.370
```

<< TOP >>

-. Information of Parameters.

```
Elem No. : 6265
LCB No. : 44+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering : dB = 0.0500 m.
          dT = 0.0500 m.
```

-. Information of Design.

```
b = 0.0010 m. (by Code Unit Length).
d = 0.2000 m.
lambda = 0.800
a = lambda * x = 0.015 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.2273 kN.
M_Rd = Cc*(d-a/2) = 43.7459 kN-m./m.
```

-. Information of Moments and Result.

```
Rein. Bar : P10 @150
As_req = 0.0006 m^2/m. ( 0.0006 m^2/m.)
M_Ed = 43.1701 kN-m./m.
M_Rd = 43.7459 kN-m./m.
RatM = M_Ed / M_Rd = 0.987 < 1.0 ---> O.K !
```

```
-. Check ratio of neutral axis depth to effective depth.
x/d = 0.100
```

```
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN RAMP-[5], Dir 1.
```

<< BOTTOM >>

-. Information of Parameters.

```
Elem No. : 6307
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering : dB = 0.0500 m.
          dT = 0.0500 m.
```

```
-----
-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.2000 m.
lambda = 0.800
a      = lambda * x = 0.091 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 1.3594 kN.
M_Rd  = Cc*(d-a/2) = 210.2783 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P20 @100
As_req = 0.0022 m^2/m. ( 0.0022 m^2/m.)
M_Ed   = 171.4669 kN-m./m.
M_Rd   = 210.2783 kN-m./m.
RatM   = M_Ed / M_Rd = 0.815 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.397
```

<< TOP >>

```
-. Information of Parameters.
Elem No. : 6307
LCB No.  : 43+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering  : dB = 0.0500 m.
           dT = 0.0500 m.
```

```
-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.2000 m.
lambda = 0.800
a      = lambda * x = 0.015 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.2273 kN.
M_Rd  = Cc*(d-a/2) = 43.7459 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P10 @150
As_req = 0.0005 m^2/m. ( 0.0005 m^2/m.)
M_Ed   = 38.5830 kN-m./m.
M_Rd   = 43.7459 kN-m./m.
RatM   = M_Ed / M_Rd = 0.882 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.089
```

```
=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN RAMP-[6], Dir 1.
=====
```

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 6337
LCB No. : 36+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.2000 m.
lambda = 0.800
a = lambda * x = 0.022 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.3258 kN.
M_Rd = Cc*(d-a/2) = 61.6185 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P12 @150
As_req = 0.0006 m²/m. (0.0006 m²/m.)
M_Ed = 50.4176 kN-m./m.
M_Rd = 61.6185 kN-m./m.
RatM = M_Ed / M_Rd = 0.818 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.117

<< TOP >>

-. Information of Parameters.

Elem No. : 6361
LCB No. : 44+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.2000 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1711 kN.
M_Rd = Cc*(d-a/2) = 33.2430 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0004 m²/m. (0.0004 m²/m.)
M_Ed = 30.7769 kN-m./m.
M_Rd = 33.2430 kN-m./m.
RatM = M_Ed / M_Rd = 0.926 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.071

[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN RAMP-[7], Dir 1.

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 6367
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.2000 m.
lambda = 0.800
a = lambda * x = 0.058 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.8719 kN.
M_Rd = Cc*(d-a/2) = 149.0361 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P16 @100
As_req = 0.0017 m²/m. (0.0017 m²/m.)
M_Ed = 134.5510 kN-m./m.
M_Rd = 149.0361 kN-m./m.
RatM = M_Ed / M_Rd = 0.903 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.311

<< TOP >>

-. Information of Parameters.

Elem No. : 6374
LCB No. : 43+

Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.2000 m.
lambda = 0.800
a = lambda * x = 0.022 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.3328 kN.
M_Rd = Cc*(d-a/2) = 62.8704 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P14 @200
As_req = 0.0008 m²/m. (0.0008 m²/m.)
M_Ed = 62.5750 kN-m./m.
M_Rd = 62.8704 kN-m./m.
RatM = M_Ed / M_Rd = 0.995 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.145

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN RAMP-[8], Dir 1.
=====

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 6381
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.2000 m.
lambda = 0.800
a = lambda * x = 0.044 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.6656 kN.
M_Rd = Cc*(d-a/2) = 118.3564 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P14 @100
As_req = 0.0014 m²/m. (0.0014 m²/m.)
M_Ed = 111.8577 kN-m./m.

```
M_Rd = 118.3564 kN-m./m.
RatM = M_Ed / M_Rd = 0.945 < 1.0 ---> O.K !
```

```
-. Check ratio of neutral axis depth to effective depth.
x/d = 0.259
```

<< TOP >>

-. Information of Parameters.

```
Elem No. : 6385
LCB No. : 38+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering : dB = 0.0500 m.
           dT = 0.0500 m.
```

-. Information of Design.

```
b = 0.0010 m. (by Code Unit Length).
d = 0.2000 m.
lambda = 0.800
a = lambda * x = 0.022 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.3258 kN.
M_Rd = Cc*(d-a/2) = 61.6185 kN-m./m.
```

-. Information of Moments and Result.

```
Rein. Bar : P12 @150
As_req = 0.0008 m^2/m. ( 0.0008 m^2/m.)
M_Ed = 59.0282 kN-m./m.
M_Rd = 61.6185 kN-m./m.
RatM = M_Ed / M_Rd = 0.958 < 1.0 ---> O.K !
```

```
-. Check ratio of neutral axis depth to effective depth.
x/d = 0.137
```

```
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN RAMP-[9], Dir 1.
```

<< BOTTOM >>

-. Information of Parameters.

```
Elem No. : 6518
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering : dB = 0.0500 m.
           dT = 0.0500 m.
```

```
-----
-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.2000 m.
lambda = 0.800
a      = lambda * x = 0.058 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.8719 kN.
M_Rd   = Cc*(d-a/2) = 149.0361 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P16 @100
As_req = 0.0016 m^2/m. ( 0.0016 m^2/m.)
M_Ed   = 126.0833 kN-m./m.
M_Rd   = 149.0361 kN-m./m.
RatM   = M_Ed / M_Rd = 0.846 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.292
```

<< TOP >>

```
-. Information of Parameters.
Elem No. : 6452
LCB No.  : 44+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering  : dB = 0.0500 m.
           dT = 0.0500 m.
```

```
-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.2000 m.
lambda = 0.800
a      = lambda * x = 0.029 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.4359 kN.
M_Rd   = Cc*(d-a/2) = 80.8528 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P16 @200
As_req = 0.0009 m^2/m. ( 0.0009 m^2/m.)
M_Ed   = 71.8207 kN-m./m.
M_Rd   = 80.8528 kN-m./m.
RatM   = M_Ed / M_Rd = 0.888 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.166
```

```
=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN RAMP-[10], Dir 1.
=====
```


<< BOTTOM >>

-. Information of Parameters.

Elem No. : 6584
LCB No. : 44+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.2000 m.
lambda = 0.800
a = lambda * x = 0.091 m.
eta = 0.900
Cc = eta*fcd*b*a = 1.3594 kN.
M_Rd = Cc*(d-a/2) = 210.2783 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P20 @100
As_req = 0.0022 m²/m. (0.0022 m²/m.)
M_Ed = 169.4919 kN-m./m.
M_Rd = 210.2783 kN-m./m.
RatM = M_Ed / M_Rd = 0.806 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.392

<< TOP >>

-. Information of Parameters.

Elem No. : 6567
LCB No. : 44+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.2000 m.
lambda = 0.800
a = lambda * x = 0.022 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.3258 kN.
M_Rd = Cc*(d-a/2) = 61.6185 kN-m./m.

```

-. Information of Moments and Result.
Rein. Bar : P12 @150
As_req = 0.0007 m^2/m. ( 0.0007 m^2/m.)
M_Ed = 51.2360 kN-m./m.
M_Rd = 61.6185 kN-m./m.
RatM = M_Ed / M_Rd = 0.832 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.119

```

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN FOUND-[6], Dir 1.
=====

<< BOTTOM >>

```

-. Information of Parameters.
Elem No. : 9794
LCB No. : 39+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering : dB = 0.0500 m.
           dT = 0.0500 m.

-. Information of Design.
b = 0.0010 m. (by Code Unit Length).
d = 0.7500 m.
lambda = 0.800
a = lambda * x = 0.045 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.6768 kN.
M_Rd = Cc*(d-a/2) = 492.3017 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P20 @200
As_req = 0.0016 m^2/m. ( 0.0016 m^2/m.)
M_Ed = 456.8976 kN-m./m.

```

```

M_Rd = 492.3017 kN-m./m.
RatM = M_Ed / M_Rd = 0.928 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.075

```

<< TOP >>

```

-. Information of Parameters.
Elem No. : 9789
LCB No. : 44+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering : dB = 0.0500 m.
           dT = 0.0500 m.

-. Information of Design.
b = 0.0010 m. (by Code Unit Length).
d = 0.7500 m.
lambda = 0.800
a = lambda * x = 0.029 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.4351 kN.
M_Rd = Cc*(d-a/2) = 319.9847 kN-m./m.

```

```

-. Information of Moments and Result.
Rein. Bar : P16 @200
As_req = 0.0010 m^2/m. ( 0.0010 m^2/m.)
M_Ed = 300.5147 kN-m./m.
M_Rd = 319.9847 kN-m./m.
RatM = M_Ed / M_Rd = 0.939 < 1.0 ---> O.K !

```

```

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.049

```

```

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN FOUND-[7], Dir 1.
=====

```

```
<< BOTTOM >>
```

```

-. Information of Parameters.
Elem No. : 9838
LCB No. : 40+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering : dB = 0.0500 m.
           dT = 0.0500 m.

```

```

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```

```

-. Information of Design.
b = 0.0010 m. (by Code Unit Length).
d = 0.7500 m.
lambda = 0.800
a = lambda * x = 0.055 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.8218 kN.
M_Rd = Cc*(d-a/2) = 593.8224 kN-m./m.

```

```

-. Information of Moments and Result.
Rein. Bar : P22 @200
As_req = 0.0020 m^2/m. ( 0.0020 m^2/m.)
M_Ed = 587.6825 kN-m./m.
M_Rd = 593.8224 kN-m./m.
RatM = M_Ed / M_Rd = 0.990 < 1.0 ---> O.K !

```

```

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.097

```

```
<< TOP >>
```

```

-. Information of Parameters.
Elem No. : 9811
LCB No. : 36+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering : dB = 0.0500 m.
           dT = 0.0500 m.

```

```

-. Information of Design.
b = 0.0010 m. (by Code Unit Length).
d = 0.7500 m.
lambda = 0.800
a = lambda * x = 0.029 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.4351 kN.
M_Rd = Cc*(d-a/2) = 319.9847 kN-m./m.

```

```

-. Information of Moments and Result.
Rein. Bar : P16 @200
As_req = 0.0010 m^2/m. ( 0.0010 m^2/m.)
M_Ed = 262.7566 kN-m./m.
M_Rd = 319.9847 kN-m./m.
RatM = M_Ed / M_Rd = 0.821 < 1.0 ---> O.K !

```

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.048

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN FOUND-[8], Dir 1.
=====

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=====

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 9847
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.7500 m.
lambda = 0.800
a = lambda * x = 0.087 m.
eta = 0.900
Cc = eta*fcd*b*a = 1.3008 kN.
M_Rd = Cc*(d-a/2) = 919.1849 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P24 @150
As_req = 0.0029 m²/m. (0.0029 m²/m.)
M_Ed = 847.5564 kN-m./m.
M_Rd = 919.1849 kN-m./m.
RatM = M_Ed / M_Rd = 0.922 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.140

<< TOP >>

-. Information of Parameters.

Elem No. : 9854
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.7500 m.
lambda = 0.800
a = lambda * x = 0.045 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.6768 kN.
M_Rd = Cc*(d-a/2) = 492.3017 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P20 @200
As_req = 0.0016 m²/m. (0.0016 m²/m.)
M_Ed = 469.5763 kN-m./m.
M_Rd = 492.3017 kN-m./m.
RatM = M_Ed / M_Rd = 0.954 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.077

[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN FOUND-[10], Dir 1.

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 9890
LCB No. : 39+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.7500 m.
lambda = 0.800
a = lambda * x = 0.029 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.4351 kN.
M_Rd = Cc*(d-a/2) = 319.9847 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P16 @200
As_req = 0.0010 m²/m. (0.0010 m²/m.)
M_Ed = 247.0076 kN-m./m.
M_Rd = 319.9847 kN-m./m.
RatM = M_Ed / M_Rd = 0.772 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.048

<< TOP >>

-. Information of Parameters.

Elem No. : 9894
LCB No. : 38+

Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.7500 m.
lambda = 0.800
a = lambda * x = 0.029 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.4351 kN.
M_Rd = Cc*(d-a/2) = 319.9847 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P16 @200
As_req = 0.0010 m²/m. (0.0010 m²/m.)
M_Ed = 115.8014 kN-m./m.
M_Rd = 319.9847 kN-m./m.
RatM = M_Ed / M_Rd = 0.362 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.048

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN FOUND-[10], Dir 1.
=====

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 9930
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.7500 m.
lambda = 0.800
a = lambda * x = 0.110 m.
eta = 0.900
Cc = eta*fcd*b*a = 1.6436 kN.
M_Rd = Cc*(d-a/2) = 1142.6236 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P22 @100
As_req = 0.0034 m²/m. (0.0034 m²/m.)
M_Ed = 999.8786 kN-m./m.

```
M_Rd = 1142.6236 kN-m./m.
RatM = M_Ed / M_Rd = 0.875 < 1.0 ---> O.K !
```

```
-. Check ratio of neutral axis depth to effective depth.
x/d = 0.165
```

<< TOP >>

-. Information of Parameters.

```
Elem No. : 9927
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering : dB = 0.0500 m.
           dT = 0.0500 m.
```

-. Information of Design.

```
b = 0.0010 m. (by Code Unit Length).
d = 0.7500 m.
lambda = 0.800
a = lambda * x = 0.039 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.5801 kN.
M_Rd = Cc*(d-a/2) = 423.8422 kN-m./m.
```

-. Information of Moments and Result.

```
Rein. Bar : P16 @150
As_req = 0.0012 m^2/m. ( 0.0012 m^2/m.)
M_Ed = 363.3598 kN-m./m.
M_Rd = 423.8422 kN-m./m.
RatM = M_Ed / M_Rd = 0.857 < 1.0 ---> O.K !
```

```
-. Check ratio of neutral axis depth to effective depth.
x/d = 0.060
```

```
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN FOUND-[11], Dir 1.
```

<< BOTTOM >>

-. Information of Parameters.

```
Elem No. : 9956
LCB No. : 40+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering : dB = 0.0500 m.
           dT = 0.0500 m.
```

```
-----
-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.7500 m.
lambda = 0.800
a      = lambda * x = 0.110 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 1.6436 kN.
M_Rd  = Cc*(d-a/2) = 1142.6236 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P22 @100
As_req = 0.0036 m^2/m. ( 0.0036 m^2/m.)
M_Ed   = 1045.5415 kN-m./m.
M_Rd   = 1142.6236 kN-m./m.
RatM   = M_Ed / M_Rd = 0.915 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.172
```

<< TOP >>

```
-. Information of Parameters.
Elem No. : 9931
LCB No.  : 38+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering  : dB = 0.0500 m.
           dT = 0.0500 m.
```

```
-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.7500 m.
lambda = 0.800
a      = lambda * x = 0.029 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.4351 kN.
M_Rd  = Cc*(d-a/2) = 319.9847 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P16 @200
As_req = 0.0010 m^2/m. ( 0.0010 m^2/m.)
M_Ed   = 192.2776 kN-m./m.
M_Rd   = 319.9847 kN-m./m.
RatM   = M_Ed / M_Rd = 0.601 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.048
```

```
=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN FOUND-[12], Dir 1.
=====
```


<< BOTTOM >>

-. Information of Parameters.

Elem No. : 10158
LCB No. : 44+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.7500 m.
lambda = 0.800
a = lambda * x = 0.110 m.
eta = 0.900
Cc = eta*fcd*b*a = 1.6436 kN.
M_Rd = Cc*(d-a/2) = 1142.6236 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P22 @100
As_req = 0.0036 m²/m. (0.0036 m²/m.)
M_Ed = 1057.8017 kN-m./m.
M_Rd = 1142.6236 kN-m./m.
RatM = M_Ed / M_Rd = 0.926 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.174

<< TOP >>

-. Information of Parameters.

Elem No. : 10158
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.7500 m.
lambda = 0.800
a = lambda * x = 0.029 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.4351 kN.
M_Rd = Cc*(d-a/2) = 319.9847 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P16 @200
As_req = 0.0010 m²/m. (0.0010 m²/m.)
M_Ed = 208.6095 kN-m./m.
M_Rd = 319.9847 kN-m./m.
RatM = M_Ed / M_Rd = 0.652 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.048

[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN FOUND-[13], Dir 1.

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 10588
LCB No. : 44+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.7500 m.
lambda = 0.800
a = lambda * x = 0.110 m.
eta = 0.900
Cc = eta*fcd*b*a = 1.6436 kN.
M_Rd = Cc*(d-a/2) = 1142.6236 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P22 @100
As_req = 0.0036 m²/m. (0.0036 m²/m.)
M_Ed = 1064.6254 kN-m./m.
M_Rd = 1142.6236 kN-m./m.
RatM = M_Ed / M_Rd = 0.932 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.175

<< TOP >>

-. Information of Parameters.

Elem No. : 10588
LCB No. : 43+

```

Materials : fck = 25000.0000 KPa.
            fcd = 16666.6667 KPa.
            fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering  : dB = 0.0500 m.
            dT = 0.0500 m.

```

-. Information of Design.

```

b          = 0.0010 m. (by Code Unit Length).
d          = 0.7500 m.
lambda    = 0.800
a          = lambda * x = 0.029 m.
eta       = 0.900
Cc        = eta*fcd*b*a = 0.4351 kN.
M_Rd     = Cc*(d-a/2) = 319.9847 kN-m./m.

```

-. Information of Moments and Result.

```

Rein. Bar : P16 @200
As_req = 0.0010 m^2/m. ( 0.0010 m^2/m.)
M_Ed = 197.7673 kN-m./m.
M_Rd = 319.9847 kN-m./m.
RatM = M_Ed / M_Rd = 0.618 < 1.0 ---> O.K !

```

-. Check ratio of neutral axis depth to effective depth.

```

x/d = 0.048

```

```

[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN FOUND-[14], Dir 1.

```

<< BOTTOM >>

-. Information of Parameters.

```

Elem No. : 10639
LCB No. : 39+
Materials : fck = 25000.0000 KPa.
            fcd = 16666.6667 KPa.
            fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering  : dB = 0.0500 m.
            dT = 0.0500 m.

```

-. Information of Design.

```

b          = 0.0010 m. (by Code Unit Length).
d          = 0.7500 m.
lambda    = 0.800
a          = lambda * x = 0.087 m.
eta       = 0.900
Cc        = eta*fcd*b*a = 1.3008 kN.
M_Rd     = Cc*(d-a/2) = 919.1849 kN-m./m.

```

-. Information of Moments and Result.

```

Rein. Bar : P24 @150
As_req = 0.0031 m^2/m. ( 0.0031 m^2/m.)
M_Ed = 915.0134 kN-m./m.

```

M_Rd = 919.1849 kN-m./m.
RatM = M_Ed / M_Rd = 0.995 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.151

<< TOP >>

-. Information of Parameters.

Elem No. : 10659
LCB No. : 39+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.7500 m.
lambda = 0.800
a = lambda * x = 0.029 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.4351 kN.
M_Rd = Cc*(d-a/2) = 319.9847 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P16 @200
As_req = 0.0010 m^2/m. (0.0010 m^2/m.)
M_Ed = 188.4701 kN-m./m.
M_Rd = 319.9847 kN-m./m.
RatM = M_Ed / M_Rd = 0.589 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.048

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN FOUND-[15], Dir 1.
=====

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 10722
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

```
-----
-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.7500 m.
lambda = 0.800
a      = lambda * x = 0.087 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 1.3008 kN.
M_Rd   = Cc*(d-a/2) = 919.1849 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P24 @150
As_req = 0.0029 m^2/m. ( 0.0029 m^2/m.)
M_Ed   = 839.6387 kN-m./m.
M_Rd   = 919.1849 kN-m./m.
RatM   = M_Ed / M_Rd = 0.913 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.138
```

<< TOP >>

```
-. Information of Parameters.
Elem No. : 10718
LCB No.  : 43+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering  : dB = 0.0500 m.
           dT = 0.0500 m.
```

```
-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.7500 m.
lambda = 0.800
a      = lambda * x = 0.029 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.4351 kN.
M_Rd   = Cc*(d-a/2) = 319.9847 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P16 @200
As_req = 0.0010 m^2/m. ( 0.0010 m^2/m.)
M_Ed   = 144.9406 kN-m./m.
M_Rd   = 319.9847 kN-m./m.
RatM   = M_Ed / M_Rd = 0.453 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.048
```

```
=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN FOUND-[16], Dir 1.
=====
```

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 10771
LCB No. : 36+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.7500 m.
lambda = 0.800
a = lambda * x = 0.060 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.9053 kN.
M_Rd = Cc*(d-a/2) = 651.6377 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P20 @150
As_req = 0.0022 m²/m. (0.0022 m²/m.)
M_Ed = 648.1181 kN-m./m.
M_Rd = 651.6377 kN-m./m.
RatM = M_Ed / M_Rd = 0.995 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.107

<< TOP >>

-. Information of Parameters.

Elem No. : 10782
LCB No. : 36+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.7500 m.
lambda = 0.800
a = lambda * x = 0.029 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.4351 kN.
M_Rd = Cc*(d-a/2) = 319.9847 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P16 @200
As_req = 0.0010 m²/m. (0.0010 m²/m.)
M_Ed = 264.7155 kN-m./m.
M_Rd = 319.9847 kN-m./m.
RatM = M_Ed / M_Rd = 0.827 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.048

[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN FOUND-[17], Dir 1.

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 10838
LCB No. : 36+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.7500 m.
lambda = 0.800
a = lambda * x = 0.055 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.8218 kN.
M_Rd = Cc*(d-a/2) = 593.8224 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P22 @200
As_req = 0.0019 m²/m. (0.0019 m²/m.)
M_Ed = 560.4252 kN-m./m.
M_Rd = 593.8224 kN-m./m.
RatM = M_Ed / M_Rd = 0.944 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.092

<< TOP >>

-. Information of Parameters.

Elem No. : 10872
LCB No. : 44+

Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.7500 m.
lambda = 0.800
a = lambda * x = 0.029 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.4351 kN.
M_Rd = Cc*(d-a/2) = 319.9847 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P16 @200
As_req = 0.0010 m²/m. (0.0010 m²/m.)
M_Ed = 287.9647 kN-m./m.
M_Rd = 319.9847 kN-m./m.
RatM = M_Ed / M_Rd = 0.900 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.048

[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN FOUND-[18], Dir 1.

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 11004
LCB No. : 38+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.7500 m.
lambda = 0.800
a = lambda * x = 0.110 m.
eta = 0.900
Cc = eta*fcd*b*a = 1.6436 kN.
M_Rd = Cc*(d-a/2) = 1142.6236 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P22 @100
As_req = 0.0039 m²/m. (0.0039 m²/m.)
M_Ed = 1135.2756 kN-m./m.

M_Rd = 1142.6236 kN-m./m.
RatM = M_Ed / M_Rd = 0.994 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.187

<< TOP >>

-. Information of Parameters.

Elem No. : 11107
LCB No. : 36+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.7500 m.
lambda = 0.800
a = lambda * x = 0.045 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.6768 kN.
M_Rd = Cc*(d-a/2) = 492.3017 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P20 @200
As_req = 0.0016 m^2/m. (0.0016 m^2/m.)
M_Ed = 479.3297 kN-m./m.
M_Rd = 492.3017 kN-m./m.
RatM = M_Ed / M_Rd = 0.974 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.079

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN FOUND-[19], Dir 1.
=====

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 11205
LCB No. : 39+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

```
-----
-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.7500 m.
lambda = 0.800
a      = lambda * x = 0.130 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 1.9512 kN.
M_Rd   = Cc*(d-a/2) = 1336.4765 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P24 @100
As_req = 0.0041 m^2/m. ( 0.0041 m^2/m.)
M_Ed   = 1190.5025 kN-m./m.
M_Rd   = 1336.4765 kN-m./m.
RatM   = M_Ed / M_Rd = 0.891 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.196
```

<< TOP >>

```
-. Information of Parameters.
Elem No. : 11206
LCB No.  : 43+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering  : dB = 0.0500 m.
           dT = 0.0500 m.

-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.7500 m.
lambda = 0.800
a      = lambda * x = 0.029 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.4351 kN.
M_Rd   = Cc*(d-a/2) = 319.9847 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P16 @200
As_req = 0.0010 m^2/m. ( 0.0010 m^2/m.)
M_Ed   = 219.1106 kN-m./m.
M_Rd   = 319.9847 kN-m./m.
RatM   = M_Ed / M_Rd = 0.685 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.048
```

```
=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN FOUND-[20], Dir 1.
=====
```

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 11282
LCB No. : 36+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.7500 m.
lambda = 0.800
a = lambda * x = 0.087 m.
eta = 0.900
Cc = eta*fcd*b*a = 1.3008 kN.
M_Rd = Cc*(d-a/2) = 919.1849 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P24 @150
As_req = 0.0028 m²/m. (0.0028 m²/m.)
M_Ed = 829.0938 kN-m./m.
M_Rd = 919.1849 kN-m./m.
RatM = M_Ed / M_Rd = 0.902 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.136

<< TOP >>

-. Information of Parameters.

Elem No. : 11258
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.7500 m.
lambda = 0.800
a = lambda * x = 0.029 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.4351 kN.
M_Rd = Cc*(d-a/2) = 319.9847 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P16 @200
As_req = 0.0010 m²/m. (0.0010 m²/m.)
M_Ed = 141.6991 kN-m./m.
M_Rd = 319.9847 kN-m./m.
RatM = M_Ed / M_Rd = 0.443 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.048

[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN FOUND-[21], Dir 1.

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 11379
LCB No. : 44+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.7500 m.
lambda = 0.800
a = lambda * x = 0.039 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.5801 kN.
M_Rd = Cc*(d-a/2) = 423.8422 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P16 @150
As_req = 0.0011 m²/m. (0.0011 m²/m.)
M_Ed = 323.4462 kN-m./m.
M_Rd = 423.8422 kN-m./m.
RatM = M_Ed / M_Rd = 0.763 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.053

<< TOP >>

-. Information of Parameters.

Elem No. : 11381
LCB No. : 44+

```
Materials : fck = 25000.0000 KPa.
            fcd = 16666.6667 KPa.
            fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering  : dB = 0.0500 m.
            dT = 0.0500 m.
```

-. Information of Design.

```
b = 0.0010 m. (by Code Unit Length).
d = 0.7500 m.
lambda = 0.800
a = lambda * x = 0.029 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.4351 kN.
M_Rd = Cc*(d-a/2) = 319.9847 kN-m./m.
```

-. Information of Moments and Result.

```
Rein. Bar : P16 @200
As_req = 0.0010 m^2/m. ( 0.0010 m^2/m.)
M_Ed = 89.7355 kN-m./m.
M_Rd = 319.9847 kN-m./m.
RatM = M_Ed / M_Rd = 0.280 < 1.0 ---> O.K !
```

-. Check ratio of neutral axis depth to effective depth.

```
x/d = 0.048
```

```
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN FOUND-[22], Dir 1.
```

<< BOTTOM >>

-. Information of Parameters.

```
Elem No. : 11437
LCB No. : 44+
Materials : fck = 25000.0000 KPa.
            fcd = 16666.6667 KPa.
            fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering  : dB = 0.0500 m.
            dT = 0.0500 m.
```

-. Information of Design.

```
b = 0.0010 m. (by Code Unit Length).
d = 0.7500 m.
lambda = 0.800
a = lambda * x = 0.058 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.8701 kN.
M_Rd = Cc*(d-a/2) = 627.3511 kN-m./m.
```

-. Information of Moments and Result.

```
Rein. Bar : P16 @100
As_req = 0.0021 m^2/m. ( 0.0021 m^2/m.)
M_Ed = 605.8626 kN-m./m.
```

M_Rd = 627.3511 kN-m./m.
RatM = M_Ed / M_Rd = 0.966 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.100

<< TOP >>

-. Information of Parameters.

Elem No. : 11413
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.7500 m.
lambda = 0.800
a = lambda * x = 0.029 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.4351 kN.
M_Rd = Cc*(d-a/2) = 319.9847 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P16 @200
As_req = 0.0010 m^2/m. (0.0010 m^2/m.)
M_Ed = 101.6999 kN-m./m.
M_Rd = 319.9847 kN-m./m.
RatM = M_Ed / M_Rd = 0.318 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.048

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN FOUND-[23], Dir 1.
=====

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 11468
LCB No. : 44+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

```
-----
-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.7500 m.
lambda = 0.800
a      = lambda * x = 0.110 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 1.6436 kN.
M_Rd   = Cc*(d-a/2) = 1142.6236 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P22 @100
As_req = 0.0034 m^2/m. ( 0.0034 m^2/m.)
M_Ed   = 1004.1215 kN-m./m.
M_Rd   = 1142.6236 kN-m./m.
RatM   = M_Ed / M_Rd = 0.879 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.165
```

<< TOP >>

```
-. Information of Parameters.
Elem No. : 11468
LCB No.  : 43+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering  : dB = 0.0500 m.
           dT = 0.0500 m.
```

```
-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.7500 m.
lambda = 0.800
a      = lambda * x = 0.029 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.4351 kN.
M_Rd   = Cc*(d-a/2) = 319.9847 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P16 @200
As_req = 0.0010 m^2/m. ( 0.0010 m^2/m.)
M_Ed   = 219.3566 kN-m./m.
M_Rd   = 319.9847 kN-m./m.
RatM   = M_Ed / M_Rd = 0.686 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.048
```

```
=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN FOUND-[24], Dir 1.
=====
```

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 11515
LCB No. : 44+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.7500 m.
lambda = 0.800
a = lambda * x = 0.110 m.
eta = 0.900
Cc = eta*fcd*b*a = 1.6436 kN.
M_Rd = Cc*(d-a/2) = 1142.6236 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P22 @100
As_req = 0.0035 m²/m. (0.0035 m²/m.)
M_Ed = 1013.6098 kN-m./m.
M_Rd = 1142.6236 kN-m./m.
RatM = M_Ed / M_Rd = 0.887 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.167

<< TOP >>

-. Information of Parameters.

Elem No. : 11515
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.7500 m.
lambda = 0.800
a = lambda * x = 0.029 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.4351 kN.
M_Rd = Cc*(d-a/2) = 319.9847 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P16 @200
As_req = 0.0010 m²/m. (0.0010 m²/m.)
M_Ed = 220.6738 kN-m./m.
M_Rd = 319.9847 kN-m./m.
RatM = M_Ed / M_Rd = 0.690 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.048

[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN FOUND-[25], Dir 1.

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 11540
LCB No. : 38+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.7500 m.
lambda = 0.800
a = lambda * x = 0.073 m.
eta = 0.900
Cc = eta*fcd*b*a = 1.0986 kN.
M_Rd = Cc*(d-a/2) = 783.7415 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P22 @150
As_req = 0.0027 m²/m. (0.0027 m²/m.)
M_Ed = 781.6795 kN-m./m.
M_Rd = 783.7415 kN-m./m.
RatM = M_Ed / M_Rd = 0.997 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.129

<< TOP >>

-. Information of Parameters.

Elem No. : 11556
LCB No. : 38+

```
Materials : fck = 25000.0000 KPa.
            fcd = 16666.6667 KPa.
            fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering  : dB = 0.0500 m.
            dT = 0.0500 m.
```

-. Information of Design.

```
b          = 0.0010 m. (by Code Unit Length).
d          = 0.7500 m.
lambda    = 0.800
a          = lambda * x = 0.029 m.
eta       = 0.900
Cc        = eta*fcd*b*a = 0.4351 kN.
M_Rd     = Cc*(d-a/2) = 319.9847 kN-m./m.
```

-. Information of Moments and Result.

```
Rein. Bar : P16 @200
As_req = 0.0010 m^2/m. ( 0.0010 m^2/m.)
M_Ed = 161.0896 kN-m./m.
M_Rd = 319.9847 kN-m./m.
RatM = M_Ed / M_Rd = 0.503 < 1.0 ---> O.K !
```

-. Check ratio of neutral axis depth to effective depth.

```
x/d = 0.048
```

```
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN FOUND-[26], Dir 1.
```

<< BOTTOM >>

-. Information of Parameters.

```
Elem No. : 11576
LCB No. : 39+
Materials : fck = 25000.0000 KPa.
            fcd = 16666.6667 KPa.
            fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering  : dB = 0.0500 m.
            dT = 0.0500 m.
```

-. Information of Design.

```
b          = 0.0010 m. (by Code Unit Length).
d          = 0.7500 m.
lambda    = 0.800
a          = lambda * x = 0.065 m.
eta       = 0.900
Cc        = eta*fcd*b*a = 0.9756 kN.
M_Rd     = Cc*(d-a/2) = 699.9639 kN-m./m.
```

-. Information of Moments and Result.

```
Rein. Bar : P24 @200
As_req = 0.0023 m^2/m. ( 0.0023 m^2/m.)
M_Ed = 663.4195 kN-m./m.
```

```
M_Rd = 699.9639 kN-m./m.
RatM = M_Ed / M_Rd = 0.948 < 1.0 ---> O.K !
```

```
-. Check ratio of neutral axis depth to effective depth.
x/d = 0.109
```

<< TOP >>

-. Information of Parameters.

```
Elem No. : 11593
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering : dB = 0.0500 m.
           dT = 0.0500 m.
```

-. Information of Design.

```
b = 0.0010 m. (by Code Unit Length).
d = 0.7500 m.
lambda = 0.800
a = lambda * x = 0.029 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.4351 kN.
M_Rd = Cc*(d-a/2) = 319.9847 kN-m./m.
```

-. Information of Moments and Result.

```
Rein. Bar : P16 @200
As_req = 0.0010 m^2/m. ( 0.0010 m^2/m.)
M_Ed = 120.3991 kN-m./m.
M_Rd = 319.9847 kN-m./m.
RatM = M_Ed / M_Rd = 0.376 < 1.0 ---> O.K !
```

```
-. Check ratio of neutral axis depth to effective depth.
x/d = 0.048
```

```
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN FOUND-[27], Dir 1.
```

<< BOTTOM >>

-. Information of Parameters.

```
Elem No. : 11623
LCB No. : 36+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering : dB = 0.0500 m.
           dT = 0.0500 m.
```

```
-----
-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.7500 m.
lambda = 0.800
a      = lambda * x = 0.060 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.9053 kN.
M_Rd  = Cc*(d-a/2) = 651.6377 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P20 @150
As_req = 0.0022 m^2/m. ( 0.0022 m^2/m.)
M_Ed   = 643.8218 kN-m./m.
M_Rd   = 651.6377 kN-m./m.
RatM   = M_Ed / M_Rd = 0.988 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.106
```

<< TOP >>

```
-. Information of Parameters.
Elem No. : 11614
LCB No.  : 43+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering  : dB = 0.0500 m.
           dT = 0.0500 m.
```

```
-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.7500 m.
lambda = 0.800
a      = lambda * x = 0.029 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.4351 kN.
M_Rd  = Cc*(d-a/2) = 319.9847 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P16 @200
As_req = 0.0010 m^2/m. ( 0.0010 m^2/m.)
M_Ed   = 191.1894 kN-m./m.
M_Rd   = 319.9847 kN-m./m.
RatM   = M_Ed / M_Rd = 0.597 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.048
```

```
=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN FOUND-[28], Dir 1.
=====
```

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 11642
LCB No. : 36+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.7500 m.
lambda = 0.800
a = lambda * x = 0.045 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.6768 kN.
M_Rd = Cc*(d-a/2) = 492.3017 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P20 @200
As_req = 0.0016 m²/m. (0.0016 m²/m.)
M_Ed = 467.5179 kN-m./m.
M_Rd = 492.3017 kN-m./m.
RatM = M_Ed / M_Rd = 0.950 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.077

<< TOP >>

-. Information of Parameters.

Elem No. : 11645
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.7500 m.
lambda = 0.800
a = lambda * x = 0.029 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.4351 kN.
M_Rd = Cc*(d-a/2) = 319.9847 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P16 @200
As_req = 0.0010 m²/m. (0.0010 m²/m.)
M_Ed = 219.5364 kN-m./m.
M_Rd = 319.9847 kN-m./m.
RatM = M_Ed / M_Rd = 0.686 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.048

[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN ANST-[1], Dir 1.

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 12030
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.5000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.4500 m.
lambda = 0.800
a = lambda * x = 0.022 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.3270 kN.
M_Rd = Cc*(d-a/2) = 143.5656 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P12 @150
As_req = 0.0006 m²/m. (0.0006 m²/m.)
M_Ed = 65.5631 kN-m./m.
M_Rd = 143.5656 kN-m./m.
RatM = M_Ed / M_Rd = 0.457 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.048

<< TOP >>

-. Information of Parameters.

Elem No. : 12031
LCB No. : 44+

Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.5000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.4500 m.
lambda = 0.800
a = lambda * x = 0.033 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.4904 kN.
M_Rd = Cc*(d-a/2) = 212.6760 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P12 @100
As_req = 0.0012 m²/m. (0.0012 m²/m.)
M_Ed = 209.8204 kN-m./m.
M_Rd = 212.6760 kN-m./m.
RatM = M_Ed / M_Rd = 0.987 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.096

[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN ANST-[2], Dir 1.

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 12043
LCB No. : 38+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.5000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.4500 m.
lambda = 0.800
a = lambda * x = 0.022 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.3270 kN.
M_Rd = Cc*(d-a/2) = 143.5656 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P12 @150
As_req = 0.0006 m²/m. (0.0006 m²/m.)
M_Ed = 86.4091 kN-m./m.

M_Rd = 143.5656 kN-m./m.
RatM = M_Ed / M_Rd = 0.602 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.048

<< TOP >>

-. Information of Parameters.

Elem No. : 12041
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.5000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.4500 m.
lambda = 0.800
a = lambda * x = 0.058 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.8701 kN.
M_Rd = Cc*(d-a/2) = 366.3159 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P16 @100
As_req = 0.0020 m^2/m. (0.0020 m^2/m.)
M_Ed = 356.9056 kN-m./m.
M_Rd = 366.3159 kN-m./m.
RatM = M_Ed / M_Rd = 0.974 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.163

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STEEL-[4], Dir 1.
=====

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 12170
LCB No. : 39+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.1200 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.0700 m.
lambda = 0.800
a = lambda * x = 0.022 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.3248 kN.
M_Rd = Cc*(d-a/2) = 19.2216 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P12 @150
As_req = 0.0006 m^2/m. (0.0006 m^2/m.)
M_Ed = 16.8068 kN-m./m.


```

M_Rd = 19.2216 kN-m./m.
RatM = M_Ed / M_Rd = 0.874 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.318

<< TOP >>

-. Information of Parameters.
Elem No. : 12167
LCB No. : 36+
Materials : fck = 25000.0000 KPa.
            fcd = 16666.6667 KPa.
            fyk = 500000.0000 KPa.
Thickness : 0.1200 m.
Covering : dB = 0.0500 m.
           dT = 0.0500 m.

-. Information of Design.
b = 0.0010 m. (by Code Unit Length).
d = 0.0700 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1706 kN.
M_Rd = Cc*(d-a/2) = 10.9733 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P10 @200
As_req = 9.3365e-005 m^2/m. ( 9.3365e-005 m^2/m.)
M_Ed = 0.0000 kN-m./m.
M_Rd = 10.9733 kN-m./m.
RatM = M_Ed / M_Rd = 0.000 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.048

```

```

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STEEL-[5], Dir 1.
=====

```

```

<< BOTTOM >>

-. Information of Parameters.
Elem No. : 12178
LCB No. : 39+
Materials : fck = 25000.0000 KPa.
            fcd = 16666.6667 KPa.
            fyk = 500000.0000 KPa.
Thickness : 0.1200 m.
Covering : dB = 0.0500 m.
           dT = 0.0500 m.

```

```

-----
-- Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.0700 m.
lambda = 0.800
a      = lambda * x = 0.022 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.3248 kN.
M_Rd  = Cc*(d-a/2) = 19.2216 kN-m./m.

-- Information of Moments and Result.
Rein. Bar : P12 @150
As_req = 0.0007 m^2/m. ( 0.0007 m^2/m.)
M_Ed   = 17.8509 kN-m./m.
M_Rd   = 19.2216 kN-m./m.
RatM   = M_Ed / M_Rd = 0.929 < 1.0 ---> O.K !

-- Check ratio of neutral axis depth to effective depth.
x/d    = 0.337

```

<< TOP >>

```

-- Information of Parameters.
Elem No. : 12179
LCB No.  : 37+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.1200 m.
Covering  : dB = 0.0500 m.
           dT = 0.0500 m.

-- Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.0700 m.
lambda = 0.800
a      = lambda * x = 0.011 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.1706 kN.
M_Rd  = Cc*(d-a/2) = 10.9733 kN-m./m.

-- Information of Moments and Result.
Rein. Bar : P10 @200
As_req = 9.3365e-005 m^2/m. ( 9.3365e-005 m^2/m.)
M_Ed   = 1.4829 kN-m./m.
M_Rd   = 10.9733 kN-m./m.
RatM   = M_Ed / M_Rd = 0.135 < 1.0 ---> O.K !

-- Check ratio of neutral axis depth to effective depth.
x/d    = 0.048

```

```

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STEEL-[8], Dir 1.
=====

```

<< BOTTOM >>

```

-- Information of Parameters.
Elem No. : 12206
LCB No.  : 36+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.1200 m.
Covering  : dB = 0.0500 m.
           dT = 0.0500 m.

-- Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.0700 m.
lambda = 0.800
a      = lambda * x = 0.015 m.

```

eta = 0.900
Cc = eta*fcd*b*a = 0.2280 kN.
M_Rd = Cc*(d-a/2) = 14.2298 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @150
As_req = 0.0005 m²/m. (0.0005 m²/m.)
M_Ed = 13.8075 kN-m./m.

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=====

M_Rd = 14.2298 kN-m./m.
RatM = M_Ed / M_Rd = 0.970 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.261

<< TOP >>

-. Information of Parameters.

Elem No. : 12199
LCB No. : 38+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.1200 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.0700 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1706 kN.
M_Rd = Cc*(d-a/2) = 10.9733 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 9.3365e-005 m²/m. (9.3365e-005 m²/m.)
M_Ed = 1.6814 kN-m./m.
M_Rd = 10.9733 kN-m./m.
RatM = M_Ed / M_Rd = 0.153 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.048

[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STEEL-[9], Dir 1.
=====

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 12210
LCB No. : 39+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.1200 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

```
-----
-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.0700 m.
lambda = 0.800
a      = lambda * x = 0.015 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.2280 kN.
M_Rd  = Cc*(d-a/2) = 14.2298 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P10 @150
As_req = 0.0005 m^2/m. ( 0.0005 m^2/m.)
M_Ed   = 13.5479 kN-m./m.
M_Rd   = 14.2298 kN-m./m.
RatM   = M_Ed / M_Rd = 0.952 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.256
```

<< TOP >>

```
-. Information of Parameters.
Elem No. : 12211
LCB No.  : 37+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.1200 m.
Covering  : dB = 0.0500 m.
           dT = 0.0500 m.
```

```
-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.0700 m.
lambda = 0.800
a      = lambda * x = 0.011 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.1706 kN.
M_Rd  = Cc*(d-a/2) = 10.9733 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P10 @200
As_req = 9.4036e-005 m^2/m. ( 9.4036e-005 m^2/m.)
M_Ed   = 2.5758 kN-m./m.
M_Rd   = 10.9733 kN-m./m.
RatM   = M_Ed / M_Rd = 0.235 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.049
```

```
=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STEEL-[10], Dir 1.
=====
```

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 12219
LCB No. : 40+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.1200 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.0700 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1706 kN.
M_Rd = Cc*(d-a/2) = 10.9733 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0003 m²/m. (0.0003 m²/m.)
M_Ed = 8.1542 kN-m./m.
M_Rd = 10.9733 kN-m./m.
RatM = M_Ed / M_Rd = 0.743 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.154

<< TOP >>

-. Information of Parameters.

Elem No. : 12215
LCB No. : 39+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.1200 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.0700 m.
lambda = 0.800
a = lambda * x = 0.033 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.4889 kN.
M_Rd = Cc*(d-a/2) = 26.2558 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P12 @100
As_req = 0.0009 m²/m. (0.0009 m²/m.)
M_Ed = 24.9901 kN-m./m.
M_Rd = 26.2558 kN-m./m.
RatM = M_Ed / M_Rd = 0.952 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.472

[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STEEL-[11], Dir 1.

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 12225
LCB No. : 40+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.1200 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.0700 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1706 kN.
M_Rd = Cc*(d-a/2) = 10.9733 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0003 m²/m. (0.0003 m²/m.)
M_Ed = 8.0745 kN-m./m.
M_Rd = 10.9733 kN-m./m.
RatM = M_Ed / M_Rd = 0.736 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.153

<< TOP >>

-. Information of Parameters.

Elem No. : 12230
LCB No. : 39+

Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.1200 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.0700 m.
lambda = 0.800
a = lambda * x = 0.029 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.4331 kN.
M_Rd = Cc*(d-a/2) = 24.0655 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P16 @200
As_req = 0.0008 m²/m. (0.0008 m²/m.)
M_Ed = 21.8925 kN-m./m.
M_Rd = 24.0655 kN-m./m.
RatM = M_Ed / M_Rd = 0.910 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.414

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STEEL-[12], Dir 1.
=====

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 12231
LCB No. : 38+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.1200 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.0700 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1706 kN.
M_Rd = Cc*(d-a/2) = 10.9733 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0002 m²/m. (0.0002 m²/m.)
M_Ed = 6.8374 kN-m./m.

M_Rd = 10.9733 kN-m./m.
RatM = M_Ed / M_Rd = 0.623 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.129

<< TOP >>

-. Information of Parameters.

Elem No. : 12238
LCB No. : 39+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.1200 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.0700 m.
lambda = 0.800
a = lambda * x = 0.039 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.5906 kN.
M_Rd = Cc*(d-a/2) = 29.7158 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P16 @100
As_req = 0.0011 m^2/m. (0.0011 m^2/m.)
M_Ed = 29.4796 kN-m./m.
M_Rd = 29.7158 kN-m./m.
RatM = M_Ed / M_Rd = 0.992 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.557

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STEEL-[13], Dir 1.
=====

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 12246
LCB No. : 36+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.1200 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.


```

-----
-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.0700 m.
lambda = 0.800
a      = lambda * x = 0.015 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.2280 kN.
M_Rd  = Cc*(d-a/2) = 14.2298 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P10 @150
As_req = 0.0005 m^2/m. ( 0.0005 m^2/m.)
M_Ed   = 12.7112 kN-m./m.
M_Rd   = 14.2298 kN-m./m.
RatM   = M_Ed / M_Rd = 0.893 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.240

```

<< TOP >>

```

-. Information of Parameters.
Elem No. : 12239
LCB No.  : 37+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.1200 m.
Covering  : dB = 0.0500 m.
           dT = 0.0500 m.

-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.0700 m.
lambda = 0.800
a      = lambda * x = 0.011 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.1706 kN.
M_Rd  = Cc*(d-a/2) = 10.9733 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P10 @200
As_req = 0.0002 m^2/m. ( 0.0002 m^2/m.)
M_Ed   = 6.0344 kN-m./m.
M_Rd   = 10.9733 kN-m./m.
RatM   = M_Ed / M_Rd = 0.550 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.114

```

```

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STEEL-[14], Dir 1.
=====

```

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 12250
LCB No. : 40+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.1200 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.0700 m.
lambda = 0.800
a = lambda * x = 0.015 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.2280 kN.
M_Rd = Cc*(d-a/2) = 14.2298 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @150
As_req = 0.0005 m²/m. (0.0005 m²/m.)
M_Ed = 12.9195 kN-m./m.
M_Rd = 14.2298 kN-m./m.
RatM = M_Ed / M_Rd = 0.908 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.244

<< TOP >>

-. Information of Parameters.

Elem No. : 12251
LCB No. : 38+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.1200 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.0700 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1706 kN.
M_Rd = Cc*(d-a/2) = 10.9733 kN-m./m.

```

-. Information of Moments and Result.
Rein. Bar : P10 @200
As_req = 0.0001 m^2/m. ( 0.0001 m^2/m.)
M_Ed = 3.0550 kN-m./m.
M_Rd = 10.9733 kN-m./m.
RatM = M_Ed / M_Rd = 0.278 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.058

```

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STEEL-[17], Dir 1.
=====

<< BOTTOM >>

```

-. Information of Parameters.
Elem No. : 12278
LCB No. : 39+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.1200 m.
Covering : dB = 0.0500 m.
           dT = 0.0500 m.

```

```

-. Information of Design.
b = 0.0010 m. (by Code Unit Length).
d = 0.0700 m.
lambda = 0.800
a = lambda * x = 0.022 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.3248 kN.
M_Rd = Cc*(d-a/2) = 19.2216 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P12 @150
As_req = 0.0007 m^2/m. ( 0.0007 m^2/m.)
M_Ed = 17.8353 kN-m./m.
M_Rd = 19.2216 kN-m./m.
RatM = M_Ed / M_Rd = 0.928 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.337

```

<< TOP >>

```

-. Information of Parameters.
Elem No. : 12271
LCB No. : 37+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.1200 m.
Covering : dB = 0.0500 m.
           dT = 0.0500 m.

-. Information of Design.
b = 0.0010 m. (by Code Unit Length).
d = 0.0700 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1706 kN.
M_Rd = Cc*(d-a/2) = 10.9733 kN-m./m.

```

```

-. Information of Moments and Result.
Rein. Bar : P10 @200
As_req = 9.3365e-005 m^2/m. ( 9.3365e-005 m^2/m.)
M_Ed = 1.8482 kN-m./m.
M_Rd = 10.9733 kN-m./m.
RatM = M_Ed / M_Rd = 0.168 < 1.0 ---> O.K !

```

```

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.048

```

```

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STEEL-[18], Dir 1.
=====

```

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<< BOTTOM >>
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```
-. Information of Parameters.
```

```

Elem No. : 12286
LCB No. : 39+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.1200 m.
Covering : dB = 0.0500 m.
           dT = 0.0500 m.

```

```
-. Information of Design.
```

```

b = 0.0010 m. (by Code Unit Length).
d = 0.0700 m.
lambda = 0.800
a = lambda * x = 0.022 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.3248 kN.
M_Rd = Cc*(d-a/2) = 19.2216 kN-m./m.

```

```
-. Information of Moments and Result.
```

```

Rein. Bar : P12 @150
As_req = 0.0007 m^2/m. ( 0.0007 m^2/m.)
M_Ed = 17.8063 kN-m./m.
M_Rd = 19.2216 kN-m./m.
RatM = M_Ed / M_Rd = 0.926 < 1.0 ---> O.K !

```

```

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.336

```

```
<< TOP >>
```

```
-. Information of Parameters.
```

```

Elem No. : 12283
LCB No. : 36+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.1200 m.
Covering : dB = 0.0500 m.
           dT = 0.0500 m.

```

```
-. Information of Design.
```

```

b = 0.0010 m. (by Code Unit Length).
d = 0.0700 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1706 kN.
M_Rd = Cc*(d-a/2) = 10.9733 kN-m./m.

```

```

-. Information of Moments and Result.
Rein. Bar : P10 @200
As_req = 9.3365e-005 m^2/m. ( 9.3365e-005 m^2/m.)
M_Ed = 0.0000 kN-m./m.
M_Rd = 10.9733 kN-m./m.
RatM = M_Ed / M_Rd = 0.000 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.048

```

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STEEL-[21], Dir 1.
=====

<< BOTTOM >>

```

-. Information of Parameters.
Elem No. : 12309
LCB No. : 39+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.1200 m.
Covering : dB = 0.0500 m.
           dT = 0.0500 m.

```

```

-. Information of Design.
b = 0.0010 m. (by Code Unit Length).
d = 0.0700 m.
lambda = 0.800
a = lambda * x = 0.022 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.3248 kN.
M_Rd = Cc*(d-a/2) = 19.2216 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P12 @150
As_req = 0.0006 m^2/m. ( 0.0006 m^2/m.)
M_Ed = 17.3713 kN-m./m.
M_Rd = 19.2216 kN-m./m.
RatM = M_Ed / M_Rd = 0.904 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.328

```

<< TOP >>

```

-. Information of Parameters.
Elem No. : 12309
LCB No. : 36+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.1200 m.
Covering : dB = 0.0500 m.
           dT = 0.0500 m.

-. Information of Design.
b = 0.0010 m. (by Code Unit Length).
d = 0.0700 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1706 kN.
M_Rd = Cc*(d-a/2) = 10.9733 kN-m./m.

```

```

-. Information of Moments and Result.
Rein. Bar : P10 @200
As_req = 9.3365e-005 m^2/m. ( 9.3365e-005 m^2/m.)
M_Ed = 0.0000 kN-m./m.
M_Rd = 10.9733 kN-m./m.
RatM = M_Ed / M_Rd = 0.000 < 1.0 ---> O.K !

```

```

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.048

```

```

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STEEL-[22], Dir 1.
=====

```

```

-----
midas Gen - RC-Slab Flexural Design [ Eurocode2:04 ] Gen 2015
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```

<< BOTTOM >>

```

-. Information of Parameters.
Elem No. : 12318
LCB No. : 39+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.1200 m.
Covering : dB = 0.0500 m.
           dT = 0.0500 m.

-. Information of Design.
b = 0.0010 m. (by Code Unit Length).
d = 0.0700 m.
lambda = 0.800
a = lambda * x = 0.022 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.3248 kN.
M_Rd = Cc*(d-a/2) = 19.2216 kN-m./m.

```

```

-. Information of Moments and Result.
Rein. Bar : P12 @150
As_req = 0.0006 m^2/m. ( 0.0006 m^2/m.)
M_Ed = 17.7481 kN-m./m.
M_Rd = 19.2216 kN-m./m.
RatM = M_Ed / M_Rd = 0.923 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.335

```

<< TOP >>

```

-. Information of Parameters.
Elem No. : 12316
LCB No. : 36+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.1200 m.
Covering : dB = 0.0500 m.
           dT = 0.0500 m.

-. Information of Design.
b = 0.0010 m. (by Code Unit Length).
d = 0.0700 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1706 kN.
M_Rd = Cc*(d-a/2) = 10.9733 kN-m./m.

```

```

-----
-. Information of Moments and Result.
Rein. Bar : P10 @200
As_req = 9.3365e-005 m^2/m. ( 9.3365e-005 m^2/m.)
M_Ed = 0.0000 kN-m./m.
M_Rd = 10.9733 kN-m./m.
RatM = M_Ed / M_Rd = 0.000 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.048

```

```

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STEEL-[23], Dir 1.
=====

```

<< BOTTOM >>

```

-. Information of Parameters.
Elem No. : 12323
LCB No. : 36+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.1200 m.
Covering : dB = 0.0500 m.
           dT = 0.0500 m.

-. Information of Design.
b = 0.0010 m. (by Code Unit Length).
d = 0.0700 m.
lambda = 0.800
a = lambda * x = 0.015 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.2280 kN.
M_Rd = Cc*(d-a/2) = 14.2298 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P10 @150
As_req = 0.0005 m^2/m. ( 0.0005 m^2/m.)
M_Ed = 13.5303 kN-m./m.
M_Rd = 14.2298 kN-m./m.
RatM = M_Ed / M_Rd = 0.951 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.256

```

<< TOP >>

```

-. Information of Parameters.
Elem No. : 12321
LCB No. : 36+

```

```
Materials : fck = 25000.0000 KPa.
            fcd = 16666.6667 KPa.
            fyk = 500000.0000 KPa.
Thickness : 0.1200 m.
Covering  : dB = 0.0500 m.
            dT = 0.0500 m.
```

-. Information of Design.

```
b      = 0.0010 m. (by Code Unit Length).
d      = 0.0700 m.
lambda = 0.800
a      = lambda * x = 0.011 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.1706 kN.
M_Rd  = Cc*(d-a/2) = 10.9733 kN-m./m.
```

-. Information of Moments and Result.

```
Rein. Bar : P10 @200
As_req = 9.3365e-005 m^2/m. ( 9.3365e-005 m^2/m.)
M_Ed   = 0.0000 kN-m./m.
M_Rd   = 10.9733 kN-m./m.
RatM   = M_Ed / M_Rd = 0.000 < 1.0 ---> O.K !
```

-. Check ratio of neutral axis depth to effective depth.

```
x/d = 0.048
```

```
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STEEL-[24], Dir 1.
```

<< BOTTOM >>

-. Information of Parameters.

```
Elem No. : 12328
LCB No.  : 39+
Materials : fck = 25000.0000 KPa.
            fcd = 16666.6667 KPa.
            fyk = 500000.0000 KPa.
Thickness : 0.1200 m.
Covering  : dB = 0.0500 m.
            dT = 0.0500 m.
```

-. Information of Design.

```
b      = 0.0010 m. (by Code Unit Length).
d      = 0.0700 m.
lambda = 0.800
a      = lambda * x = 0.015 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.2280 kN.
M_Rd  = Cc*(d-a/2) = 14.2298 kN-m./m.
```

-. Information of Moments and Result.

```
Rein. Bar : P10 @150
As_req = 0.0005 m^2/m. ( 0.0005 m^2/m.)
M_Ed   = 13.6219 kN-m./m.
```



```
-----  
-----  
M_Rd = 14.2298 kN-m./m.  
RatM = M_Ed / M_Rd = 0.957 < 1.0 ---> O.K !  
  
-. Check ratio of neutral axis depth to effective depth.  
x/d = 0.257  
  
<< TOP >>  
  
-. Information of Parameters.  
Elem No. : 12328  
LCB No. : 36+  
Materials : fck = 25000.0000 KPa.  
          fcd = 16666.6667 KPa.  
          fyk = 500000.0000 KPa.  
Thickness : 0.1200 m.  
Covering : dB = 0.0500 m.  
          dT = 0.0500 m.  
  
-. Information of Design.  
b = 0.0010 m. (by Code Unit Length).  
d = 0.0700 m.  
lambda = 0.800  
a = lambda * x = 0.011 m.  
eta = 0.900  
Cc = eta*fcd*b*a = 0.1706 kN.  
M_Rd = Cc*(d-a/2) = 10.9733 kN-m./m.  
  
-. Information of Moments and Result.  
Rein. Bar : P10 @200  
As_req = 9.3365e-005 m^2/m. ( 9.3365e-005 m^2/m.)  
M_Ed = 0.0000 kN-m./m.  
M_Rd = 10.9733 kN-m./m.  
RatM = M_Ed / M_Rd = 0.000 < 1.0 ---> O.K !  
  
-. Check ratio of neutral axis depth to effective depth.  
x/d = 0.048
```

ΑΠΟΤΕΛΕΣΜΑΤΑ ΟΡΙΖΟΝΤΙΩΝ ΕΠΙΦΑΝΕΙΑΚΩΝ ΣΤΟΙΧΕΙΩΝ (ΔΙΕΥΘΥΝΣΗ 2)

midas Gen - RC-Slab Flexural Design [Eurocode2:04] Gen 2015
=====

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN S-WAFFLE -3.38-[1], Dir 2.
=====

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 2022
LCB No. : 40+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.7500 m.
lambda = 0.800
a = lambda * x = 0.058 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.8701 kN.
M_Rd = Cc*(d-a/2) = 627.3511 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P16 @100
As_req = 0.0018 m²/m. (0.0018 m²/m.)
M_Ed = 532.4023 kN-m./m.
M_Rd = 627.3511 kN-m./m.
RatM = M_Ed / M_Rd = 0.849 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.088

<< TOP >>

-. Information of Parameters.

Elem No. : 2026
LCB No. : 40+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

```

-----
-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.7500 m.
lambda = 0.800
a      = lambda * x = 0.058 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.8701 kN.
M_Rd  = Cc*(d-a/2) = 627.3511 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P16 @100
As_req = 0.0021 m^2/m. ( 0.0021 m^2/m.)
M_Ed   = 621.1065 kN-m./m.
M_Rd   = 627.3511 kN-m./m.
RatM   = M_Ed / M_Rd = 0.990 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.102

```

```

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN S-WAFFLE -3.38-[2], Dir 2.
=====

```

<< BOTTOM >>

```

-. Information of Parameters.
Elem No. : 2036
LCB No.  : 43+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.6000 m.
Covering  : dB = 0.0500 m.
           dT = 0.0500 m.

-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.5500 m.
lambda = 0.800
a      = lambda * x = 0.058 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.8701 kN.
M_Rd  = Cc*(d-a/2) = 453.3277 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P16 @100
As_req = 0.0019 m^2/m. ( 0.0019 m^2/m.)
M_Ed   = 403.9444 kN-m./m.
M_Rd   = 453.3277 kN-m./m.
RatM   = M_Ed / M_Rd = 0.891 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.124

```

<< TOP >>

-. Information of Parameters.

Elem No. : 2041
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.6000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.5500 m.
lambda = 0.800
a = lambda * x = 0.090 m.
eta = 0.900
Cc = eta*fcd*b*a = 1.3535 kN.
M_Rd = Cc*(d-a/2) = 683.3668 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P20 @100
As_req = 0.0026 m^2/m. (0.0026 m^2/m.)
M_Ed = 550.3035 kN-m./m.
M_Rd = 683.3668 kN-m./m.
RatM = M_Ed / M_Rd = 0.805 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.168

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN S-WAFFLE -3.38-[4], Dir 2.
=====

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 2151
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.6000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.5500 m.
lambda = 0.800
a = lambda * x = 0.044 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.6639 kN.
M_Rd = Cc*(d-a/2) = 350.4363 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P14 @100
As_req = 0.0015 m^2/m. (0.0015 m^2/m.)
M_Ed = 326.9505 kN-m./m.
M_Rd = 350.4363 kN-m./m.
RatM = M_Ed / M_Rd = 0.933 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.100

<< TOP >>

-. Information of Parameters.

Elem No. : 2143
LCB No. : 36+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.7500 m.
lambda = 0.800
a = lambda * x = 0.090 m.
eta = 0.900
Cc = eta*fcd*b*a = 1.3535 kN.
M_Rd = Cc*(d-a/2) = 954.0699 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P20 @100
As_req = 0.0024 m²/m. (0.0024 m²/m.)
M_Ed = 707.0010 kN-m./m.
M_Rd = 954.0699 kN-m./m.
RatM = M_Ed / M_Rd = 0.741 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.116

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN S-WAFFLE -3.38-[5], Dir 2.
=====

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 2159
LCB No. : 39+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.7500 m.
lambda = 0.800
a = lambda * x = 0.058 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.8701 kN.
M_Rd = Cc*(d-a/2) = 627.3511 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P16 @100
As_req = 0.0019 m²/m. (0.0019 m²/m.)
M_Ed = 572.0256 kN-m./m.
M_Rd = 627.3511 kN-m./m.
RatM = M_Ed / M_Rd = 0.912 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.094

<< TOP >>

-. Information of Parameters.

Elem No. : 2173
LCB No. : 44+

```
Materials : fck = 25000.0000 KPa.
            fcd = 16666.6667 KPa.
            fyk = 500000.0000 KPa.
Thickness  : 0.8000 m.
Covering   : dB = 0.0500 m.
            dT = 0.0500 m.
```

-. Information of Design.

```
b      = 0.0010 m. (by Code Unit Length).
d      = 0.7500 m.
lambda = 0.800
a      = lambda * x = 0.058 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.8701 kN.
M_Rd  = Cc*(d-a/2) = 627.3511 kN-m./m.
```

-. Information of Moments and Result.

```
Rein. Bar : P16 @100
As_req = 0.0019 m^2/m. ( 0.0019 m^2/m.)
M_Ed   = 560.3030 kN-m./m.
M_Rd   = 627.3511 kN-m./m.
RatM   = M_Ed / M_Rd = 0.893 < 1.0 ---> O.K !
```

-. Check ratio of neutral axis depth to effective depth.

```
x/d = 0.092
```

```
=====  
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN S-WAFFLE +1.90-[1], Dir 2.  
=====
```

<< BOTTOM >>

-. Information of Parameters.

```
Elem No. : 3174
LCB No.  : 36+
Materials : fck = 25000.0000 KPa.
            fcd = 16666.6667 KPa.
            fyk = 500000.0000 KPa.
Thickness : 0.6000 m.
Covering  : dB = 0.0500 m.
            dT = 0.0500 m.
```

```
-----
-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.5500 m.
lambda = 0.800
a      = lambda * x = 0.044 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.6639 kN.
M_Rd  = Cc*(d-a/2) = 350.4363 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P14 @100
As_req = 0.0015 m^2/m. ( 0.0015 m^2/m.)
M_Ed   = 325.5501 kN-m./m.
M_Rd   = 350.4363 kN-m./m.
RatM   = M_Ed / M_Rd = 0.929 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.100
```

<< TOP >>

```
-. Information of Parameters.
Elem No. : 3178
LCB No.  : 44+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.6000 m.
Covering  : dB = 0.0500 m.
           dT = 0.0500 m.

-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.5500 m.
lambda = 0.800
a      = lambda * x = 0.039 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.5801 kN.
M_Rd  = Cc*(d-a/2) = 307.8266 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P16 @150
As_req = 0.0014 m^2/m. ( 0.0014 m^2/m.)
M_Ed   = 305.0360 kN-m./m.
M_Rd   = 307.8266 kN-m./m.
RatM   = M_Ed / M_Rd = 0.991 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.093
```

```
=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN S-WAFFLE +1.90-[2], Dir 2.
=====
```


<< BOTTOM >>

-. Information of Parameters.

Elem No. : 12082
LCB No. : 39+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.7500 m.
lambda = 0.800
a = lambda * x = 0.058 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.8701 kN.
M_Rd = Cc*(d-a/2) = 627.3511 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P16 @100
As_req = 0.0019 m²/m. (0.0019 m²/m.)
M_Ed = 572.2099 kN-m./m.
M_Rd = 627.3511 kN-m./m.
RatM = M_Ed / M_Rd = 0.912 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.094

<< TOP >>

-. Information of Parameters.

Elem No. : 12080
LCB No. : 36+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.7500 m.
lambda = 0.800
a = lambda * x = 0.090 m.
eta = 0.900
Cc = eta*fcd*b*a = 1.3535 kN.
M_Rd = Cc*(d-a/2) = 954.0699 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P20 @100
As_req = 0.0028 m²/m. (0.0028 m²/m.)
M_Ed = 815.1649 kN-m./m.
M_Rd = 954.0699 kN-m./m.
RatM = M_Ed / M_Rd = 0.854 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.134

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN S-WAFFLE +1.90-[4], Dir 2.
=====

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 3252
LCB No. : 40+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.7500 m.
lambda = 0.800
a = lambda * x = 0.058 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.8701 kN.
M_Rd = Cc*(d-a/2) = 627.3511 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P16 @100
As_req = 0.0020 m²/m. (0.0020 m²/m.)
M_Ed = 576.5132 kN-m./m.

M_Rd = 627.3511 kN-m./m.
RatM = M_Ed / M_Rd = 0.919 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.095

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN S-WAFFLE +1.90-[5], Dir 2.
=====

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 3275
LCB No. : 39+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.7500 m.
lambda = 0.800
a = lambda * x = 0.090 m.
eta = 0.900
Cc = eta*fcd*b*a = 1.3535 kN.
M_Rd = Cc*(d-a/2) = 954.0699 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P20 @100
As_req = 0.0028 m^2/m. (0.0028 m^2/m.)
M_Ed = 809.1295 kN-m./m.
M_Rd = 954.0699 kN-m./m.
RatM = M_Ed / M_Rd = 0.848 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.133

<< TOP >>

-. Information of Parameters.

Elem No. : 3263
LCB No. : 40+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.7500 m.
lambda = 0.800
a = lambda * x = 0.090 m.
eta = 0.900
Cc = eta*fcd*b*a = 1.3535 kN.
M_Rd = Cc*(d-a/2) = 954.0699 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P20 @100
As_req = 0.0032 m^2/m. (0.0032 m^2/m.)
M_Ed = 937.0306 kN-m./m.
M_Rd = 954.0699 kN-m./m.

RatM = $M_{Ed} / M_{Rd} = 0.982 < 1.0$ ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.154

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN S-WAFFLE +1.90-[6], Dir 2.
=====

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=====

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 3288
LCB No. : 40+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.7500 m.
lambda = 0.800
a = lambda * x = 0.090 m.
eta = 0.900
Cc = eta*fcd*b*a = 1.3535 kN.
M_Rd = Cc*(d-a/2) = 954.0699 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P20 @100
As_req = 0.0024 m²/m. (0.0024 m²/m.)
M_Ed = 702.8417 kN-m./m.
M_Rd = 954.0699 kN-m./m.
RatM = $M_{Ed} / M_{Rd} = 0.737 < 1.0$ ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.116

<< TOP >>

-. Information of Parameters.

Elem No. : 3291
LCB No. : 40+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.7500 m.
lambda = 0.800
a = lambda * x = 0.090 m.
eta = 0.900
Cc = eta*fcd*b*a = 1.3535 kN.
M_Rd = Cc*(d-a/2) = 954.0699 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P20 @100
As_req = 0.0025 m²/m. (0.0025 m²/m.)
M_Ed = 745.3785 kN-m./m.
M_Rd = 954.0699 kN-m./m.
RatM = M_Ed / M_Rd = 0.781 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.123

[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN ELV +5.70-[1], Dir 2.

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 3967
LCB No. : 39+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1705 kN.
M_Rd = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0002 m²/m. (0.0002 m²/m.)
M_Ed = 2.9630 kN-m./m.
M_Rd = 24.6071 kN-m./m.
RatM = M_Ed / M_Rd = 0.120 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.048

<< TOP >>

-. Information of Parameters.

Elem No. : 3972
LCB No. : 40+

Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1705 kN.
M_Rd = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0002 m²/m. (0.0002 m²/m.)
M_Ed = 8.8098 kN-m./m.
M_Rd = 24.6071 kN-m./m.
RatM = M_Ed / M_Rd = 0.358 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.048

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN ELV +5.70-[2], Dir 2.
=====

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 4001
LCB No. : 40+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1705 kN.
M_Rd = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0002 m²/m. (0.0002 m²/m.)
M_Ed = 9.4012 kN-m./m.

```
M_Rd = 24.6071 kN-m./m.
RatM = M_Ed / M_Rd = 0.382 < 1.0 ---> O.K !
```

```
-. Check ratio of neutral axis depth to effective depth.
x/d = 0.048
```

<< TOP >>

-. Information of Parameters.

```
Elem No. : 3996
LCB No. : 40+
Materials : fck = 25000.0000 KPa.
            fcd = 16666.6667 KPa.
            fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
           dT = 0.0500 m.
```

-. Information of Design.

```
b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1705 kN.
M_Rd = Cc*(d-a/2) = 24.6071 kN-m./m.
```

-. Information of Moments and Result.

```
Rein. Bar : P10 @200
As_req = 0.0003 m^2/m. ( 0.0003 m^2/m.)
M_Ed = 17.1841 kN-m./m.
M_Rd = 24.6071 kN-m./m.
RatM = M_Ed / M_Rd = 0.698 < 1.0 ---> O.K !
```

```
-. Check ratio of neutral axis depth to effective depth.
x/d = 0.071
```

```
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN ELV +8.20-[1], Dir 2.
```

<< BOTTOM >>

-. Information of Parameters.

```
Elem No. : 4014
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
            fcd = 16666.6667 KPa.
            fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
           dT = 0.0500 m.
```

```
-----
-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.1500 m.
lambda = 0.800
a      = lambda * x = 0.011 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.1705 kN.
M_Rd  = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P10 @200
As_req = 0.0002 m^2/m. ( 0.0002 m^2/m.)
M_Ed   = 2.7172 kN-m./m.
M_Rd   = 24.6071 kN-m./m.
RatM   = M_Ed / M_Rd = 0.110 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.048
```

<< TOP >>

```
-. Information of Parameters.
Elem No. : 4016
LCB No.  : 44+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering  : dB = 0.0500 m.
           dT = 0.0500 m.
```

```
-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.1500 m.
lambda = 0.800
a      = lambda * x = 0.011 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.1705 kN.
M_Rd  = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P10 @200
As_req = 0.0002 m^2/m. ( 0.0002 m^2/m.)
M_Ed   = 7.4169 kN-m./m.
M_Rd   = 24.6071 kN-m./m.
RatM   = M_Ed / M_Rd = 0.301 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.048
```

```
=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN ELV +8.20-[2], Dir 2.
=====
```


<< BOTTOM >>

-. Information of Parameters.

Elem No. : 4026
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1705 kN.
M_Rd = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0002 m²/m. (0.0002 m²/m.)
M_Ed = 13.8674 kN-m./m.
M_Rd = 24.6071 kN-m./m.
RatM = M_Ed / M_Rd = 0.564 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.057

<< TOP >>

-. Information of Parameters.

Elem No. : 4025
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1705 kN.
M_Rd = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0003 m²/m. (0.0003 m²/m.)
M_Ed = 17.6935 kN-m./m.
M_Rd = 24.6071 kN-m./m.
RatM = M_Ed / M_Rd = 0.719 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.073

[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN ELV +8.20-[3], Dir 2.

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 4057
LCB No. : 39+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1705 kN.
M_Rd = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0002 m²/m. (0.0002 m²/m.)
M_Ed = 8.5933 kN-m./m.
M_Rd = 24.6071 kN-m./m.
RatM = M_Ed / M_Rd = 0.349 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.048

<< TOP >>

-. Information of Parameters.

Elem No. : 4047
LCB No. : 44+

```

Materials : fck = 25000.0000 KPa.
            fcd = 16666.6667 KPa.
            fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering  : dB = 0.0500 m.
            dT = 0.0500 m.

```

-. Information of Design.

```

b          = 0.0010 m. (by Code Unit Length).
d          = 0.1500 m.
lambda    = 0.800
a          = lambda * x = 0.011 m.
eta       = 0.900
Cc        = eta*fcd*b*a = 0.1705 kN.
M_Rd      = Cc*(d-a/2) = 24.6071 kN-m./m.

```

-. Information of Moments and Result.

```

Rein. Bar : P10 @200
As_req = 0.0003 m^2/m. ( 0.0003 m^2/m.)
M_Ed = 15.0265 kN-m./m.
M_Rd = 24.6071 kN-m./m.
RatM = M_Ed / M_Rd = 0.611 < 1.0 ---> O.K !

```

-. Check ratio of neutral axis depth to effective depth.

```

x/d = 0.062

```

```

[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN SLABS +5.40-[1], Dir 2.

```

<< BOTTOM >>

-. Information of Parameters.

```

Elem No. : 4073
LCB No. : 39+
Materials : fck = 25000.0000 KPa.
            fcd = 16666.6667 KPa.
            fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering  : dB = 0.0500 m.
            dT = 0.0500 m.

```

-. Information of Design.

```

b          = 0.0010 m. (by Code Unit Length).
d          = 0.1500 m.
lambda    = 0.800
a          = lambda * x = 0.022 m.
eta       = 0.900
Cc        = eta*fcd*b*a = 0.3270 kN.
M_Rd      = Cc*(d-a/2) = 45.4797 kN-m./m.

```

-. Information of Moments and Result.

```

Rein. Bar : P12 @150
As_req = 0.0007 m^2/m. ( 0.0007 m^2/m.)
M_Ed = 39.0337 kN-m./m.

```

M_Rd = 45.4797 kN-m./m.
RatM = M_Ed / M_Rd = 0.858 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.161

<< TOP >>

-. Information of Parameters.

Elem No. : 4097
LCB No. : 38+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.029 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.4359 kN.
M_Rd = Cc*(d-a/2) = 59.0559 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P16 @200
As_req = 0.0009 m^2/m. (0.0009 m^2/m.)
M_Ed = 52.3981 kN-m./m.
M_Rd = 59.0559 kN-m./m.
RatM = M_Ed / M_Rd = 0.887 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.216

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN SLABS +5.40-[2], Dir 2.
=====

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 4170
LCB No. : 39+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

```
-----
-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.1500 m.
lambda = 0.800
a      = lambda * x = 0.015 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.2285 kN.
M_Rd   = Cc*(d-a/2) = 32.5367 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P10 @150
As_req = 0.0005 m^2/m. ( 0.0005 m^2/m.)
M_Ed   = 31.6332 kN-m./m.
M_Rd   = 32.5367 kN-m./m.
RatM   = M_Ed / M_Rd = 0.972 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.130
```

<< TOP >>

-. Information of Parameters.

```
Elem No. : 4184
LCB No.  : 39+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering  : dB = 0.0500 m.
           dT = 0.0500 m.
```

-. Information of Design.

```
b      = 0.0010 m. (by Code Unit Length).
d      = 0.1500 m.
lambda = 0.800
a      = lambda * x = 0.039 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.5801 kN.
M_Rd   = Cc*(d-a/2) = 75.7954 kN-m./m.
```

-. Information of Moments and Result.

```
Rein. Bar : P16 @150
As_req = 0.0011 m^2/m. ( 0.0011 m^2/m.)
M_Ed   = 66.5021 kN-m./m.
M_Rd   = 75.7954 kN-m./m.
RatM   = M_Ed / M_Rd = 0.877 < 1.0 ---> O.K !
```

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.274

```
=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN SLABS +5.40-[3], Dir 2.
=====
```

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 4220
LCB No. : 39+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.015 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.2285 kN.
M_Rd = Cc*(d-a/2) = 32.5367 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @150
As_req = 0.0005 m²/m. (0.0005 m²/m.)
M_Ed = 29.0679 kN-m./m.
M_Rd = 32.5367 kN-m./m.
RatM = M_Ed / M_Rd = 0.893 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.120

<< TOP >>

-. Information of Parameters.

Elem No. : 4217
LCB No. : 39+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.030 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.4430 kN.
M_Rd = Cc*(d-a/2) = 59.9046 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P14 @150
As_req = 0.0010 m²/m. (0.0010 m²/m.)
M_Ed = 59.2473 kN-m./m.
M_Rd = 59.9046 kN-m./m.
RatM = M_Ed / M_Rd = 0.989 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.244

[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN SLABS +5.40-[4], Dir 2.

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 4267
LCB No. : 39+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.016 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.2443 kN.
M_Rd = Cc*(d-a/2) = 34.6604 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P12 @200
As_req = 0.0006 m²/m. (0.0006 m²/m.)
M_Ed = 33.4633 kN-m./m.
M_Rd = 34.6604 kN-m./m.
RatM = M_Ed / M_Rd = 0.965 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.138

<< TOP >>

-. Information of Parameters.

Elem No. : 4260
LCB No. : 39+

Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.029 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.4359 kN.
M_Rd = Cc*(d-a/2) = 59.0559 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P16 @200
As_req = 0.0009 m²/m. (0.0009 m²/m.)
M_Ed = 52.8860 kN-m./m.
M_Rd = 59.0559 kN-m./m.
RatM = M_Ed / M_Rd = 0.896 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.218

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN SLABS +5.40-[5], Dir 2.
=====

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 4331
LCB No. : 39+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.015 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.2285 kN.
M_Rd = Cc*(d-a/2) = 32.5367 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @150
As_req = 0.0005 m²/m. (0.0005 m²/m.)
M_Ed = 31.3938 kN-m./m.


```
M_Rd = 32.5367 kN-m./m.
RatM = M_Ed / M_Rd = 0.965 < 1.0 ---> O.K !
```

```
-. Check ratio of neutral axis depth to effective depth.
x/d = 0.129
```

<< TOP >>

-. Information of Parameters.

```
Elem No. : 4376
LCB No. : 38+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
           dT = 0.0500 m.
```

-. Information of Design.

```
b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.015 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.2285 kN.
M_Rd = Cc*(d-a/2) = 32.5367 kN-m./m.
```

-. Information of Moments and Result.

```
Rein. Bar : P10 @150
As_req = 0.0005 m^2/m. ( 0.0005 m^2/m.)
M_Ed = 31.6243 kN-m./m.
M_Rd = 32.5367 kN-m./m.
RatM = M_Ed / M_Rd = 0.972 < 1.0 ---> O.K !
```

```
-. Check ratio of neutral axis depth to effective depth.
x/d = 0.130
```

```
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN SLABS +5.40-[6], Dir 2.
```

<< BOTTOM >>

-. Information of Parameters.

```
Elem No. : 4402
LCB No. : 39+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
           dT = 0.0500 m.
```

```

-----
-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.1500 m.
lambda = 0.800
a      = lambda * x = 0.022 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.3270 kN.
M_Rd  = Cc*(d-a/2) = 45.4797 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P12 @150
As_req = 0.0006 m^2/m. ( 0.0006 m^2/m.)
M_Ed   = 38.0581 kN-m./m.
M_Rd   = 45.4797 kN-m./m.
RatM   = M_Ed / M_Rd = 0.837 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.157

```

<< TOP >>

```

-. Information of Parameters.
Elem No. : 4397
LCB No.  : 39+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering  : dB = 0.0500 m.
           dT = 0.0500 m.

-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.1500 m.
lambda = 0.800
a      = lambda * x = 0.029 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.4359 kN.
M_Rd  = Cc*(d-a/2) = 59.0559 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P16 @200
As_req = 0.0009 m^2/m. ( 0.0009 m^2/m.)
M_Ed   = 55.1203 kN-m./m.
M_Rd   = 59.0559 kN-m./m.
RatM   = M_Ed / M_Rd = 0.933 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.227

```

```

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN SLABS +5.40-[7], Dir 2.
=====

```

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 4408
LCB No. : 39+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1705 kN.
M_Rd = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0002 m²/m. (0.0002 m²/m.)
M_Ed = 12.2617 kN-m./m.
M_Rd = 24.6071 kN-m./m.
RatM = M_Ed / M_Rd = 0.498 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.050

<< TOP >>

-. Information of Parameters.

Elem No. : 4416
LCB No. : 39+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.039 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.5801 kN.
M_Rd = Cc*(d-a/2) = 75.7954 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P16 @150
As_req = 0.0013 m²/m. (0.0013 m²/m.)
M_Ed = 75.3237 kN-m./m.
M_Rd = 75.7954 kN-m./m.
RatM = M_Ed / M_Rd = 0.994 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.310

[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN SLABS +5.40-[8], Dir 2.

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 4436
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1705 kN.
M_Rd = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0002 m²/m. (0.0002 m²/m.)
M_Ed = 12.1960 kN-m./m.
M_Rd = 24.6071 kN-m./m.
RatM = M_Ed / M_Rd = 0.496 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.050

<< TOP >>

-. Information of Parameters.

Elem No. : 4459
LCB No. : 40+

```
Materials : fck = 25000.0000 KPa.
            fcd = 16666.6667 KPa.
            fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering  : dB = 0.0500 m.
            dT = 0.0500 m.
```

-. Information of Design.

```
b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.022 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.3270 kN.
M_Rd = Cc*(d-a/2) = 45.4797 kN-m./m.
```

-. Information of Moments and Result.

```
Rein. Bar : P12 @150
As_req = 0.0007 m^2/m. ( 0.0007 m^2/m.)
M_Ed = 39.9613 kN-m./m.
M_Rd = 45.4797 kN-m./m.
RatM = M_Ed / M_Rd = 0.879 < 1.0 ---> O.K !
```

-. Check ratio of neutral axis depth to effective depth.

```
x/d = 0.164
```

```
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN SLABS +5.40-[9], Dir 2.
```

<< BOTTOM >>

-. Information of Parameters.

```
Elem No. : 4492
LCB No. : 40+
Materials : fck = 25000.0000 KPa.
            fcd = 16666.6667 KPa.
            fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering  : dB = 0.0500 m.
            dT = 0.0500 m.
```

-. Information of Design.

```
b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.015 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.2285 kN.
M_Rd = Cc*(d-a/2) = 32.5367 kN-m./m.
```

-. Information of Moments and Result.

```
Rein. Bar : P10 @150
As_req = 0.0004 m^2/m. ( 0.0004 m^2/m.)
M_Ed = 26.3048 kN-m./m.
```

```
M_Rd = 32.5367 kN-m./m.
RatM = M_Ed / M_Rd = 0.808 < 1.0 ---> O.K !
```

```
-. Check ratio of neutral axis depth to effective depth.
x/d = 0.108
```

<< TOP >>

-. Information of Parameters.

```
Elem No. : 4469
LCB No. : 39+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
           dT = 0.0500 m.
```

-. Information of Design.

```
b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.022 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.3270 kN.
M_Rd = Cc*(d-a/2) = 45.4797 kN-m./m.
```

-. Information of Moments and Result.

```
Rein. Bar : P12 @150
As_req = 0.0007 m^2/m. ( 0.0007 m^2/m.)
M_Ed = 41.3670 kN-m./m.
M_Rd = 45.4797 kN-m./m.
RatM = M_Ed / M_Rd = 0.910 < 1.0 ---> O.K !
```

```
-. Check ratio of neutral axis depth to effective depth.
x/d = 0.170
```

```
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN RAMP COVER +1.90-[1], Dir 2.
```

<< BOTTOM >>

-. Information of Parameters.

```
Elem No. : 4712
LCB No. : 38+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering : dB = 0.0500 m.
           dT = 0.0500 m.
```

```
-----
-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.2000 m.
lambda = 0.800
a      = lambda * x = 0.011 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.1711 kN.
M_Rd  = Cc*(d-a/2) = 33.2430 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P10 @200
As_req = 0.0003 m^2/m. ( 0.0003 m^2/m.)
M_Ed   = 19.9690 kN-m./m.
M_Rd   = 33.2430 kN-m./m.
RatM   = M_Ed / M_Rd = 0.601 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.048
```

<< TOP >>

```
-. Information of Parameters.
Elem No. : 4716
LCB No.  : 44+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering  : dB = 0.0500 m.
           dT = 0.0500 m.

-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.2000 m.
lambda = 0.800
a      = lambda * x = 0.091 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 1.3594 kN.
M_Rd  = Cc*(d-a/2) = 210.2783 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P20 @100
As_req = 0.0021 m^2/m. ( 0.0021 m^2/m.)
M_Ed   = 167.5360 kN-m./m.
M_Rd   = 210.2783 kN-m./m.
RatM   = M_Ed / M_Rd = 0.797 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.388
```

```
=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN RAMP COVER +1.50-[1], Dir 2.
=====
```

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 4865
LCB No. : 36+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.2000 m.
lambda = 0.800
a = lambda * x = 0.015 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.2273 kN.
M_Rd = Cc*(d-a/2) = 43.7459 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @150
As_req = 0.0005 m²/m. (0.0005 m²/m.)
M_Ed = 35.2594 kN-m./m.
M_Rd = 43.7459 kN-m./m.
RatM = M_Ed / M_Rd = 0.806 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.082

<< TOP >>

-. Information of Parameters.

Elem No. : 4840
LCB No. : 40+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.2000 m.
lambda = 0.800
a = lambda * x = 0.058 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.8719 kN.
M_Rd = Cc*(d-a/2) = 149.0361 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P16 @100
As_req = 0.0018 m²/m. (0.0018 m²/m.)
M_Ed = 141.8079 kN-m./m.
M_Rd = 149.0361 kN-m./m.
RatM = M_Ed / M_Rd = 0.952 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.328

[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN SLABS +1.50-[1], Dir 2.

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 5029
LCB No. : 39+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.2000 m.
lambda = 0.800
a = lambda * x = 0.015 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.2273 kN.
M_Rd = Cc*(d-a/2) = 43.7459 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @150
As_req = 0.0004 m²/m. (0.0004 m²/m.)
M_Ed = 35.0316 kN-m./m.
M_Rd = 43.7459 kN-m./m.
RatM = M_Ed / M_Rd = 0.801 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.081

<< TOP >>

-. Information of Parameters.

Elem No. : 5011
LCB No. : 43+

```
Materials : fck = 25000.0000 KPa.
            fcd = 16666.6667 KPa.
            fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering  : dB = 0.0500 m.
            dT = 0.0500 m.
```

-. Information of Design.

```
b = 0.0010 m. (by Code Unit Length).
d = 0.2000 m.
lambda = 0.800
a = lambda * x = 0.044 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.6656 kN.
M_Rd = Cc*(d-a/2) = 118.3564 kN-m./m.
```

-. Information of Moments and Result.

```
Rein. Bar : P14 @100
As_req = 0.0014 m^2/m. ( 0.0014 m^2/m.)
M_Ed = 111.3803 kN-m./m.
M_Rd = 118.3564 kN-m./m.
RatM = M_Ed / M_Rd = 0.941 < 1.0 ---> O.K !
```

-. Check ratio of neutral axis depth to effective depth.

```
x/d = 0.258
```

```
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN SLABS +1.50-[2], Dir 2.
```

<< BOTTOM >>

-. Information of Parameters.

```
Elem No. : 5111
LCB No. : 39+
Materials : fck = 25000.0000 KPa.
            fcd = 16666.6667 KPa.
            fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering  : dB = 0.0500 m.
            dT = 0.0500 m.
```

-. Information of Design.

```
b = 0.0010 m. (by Code Unit Length).
d = 0.2000 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1711 kN.
M_Rd = Cc*(d-a/2) = 33.2430 kN-m./m.
```

-. Information of Moments and Result.

```
Rein. Bar : P10 @200
As_req = 0.0004 m^2/m. ( 0.0004 m^2/m.)
M_Ed = 32.6741 kN-m./m.
```

```
M_Rd = 33.2430 kN-m./m.
RatM = M_Ed / M_Rd = 0.983 < 1.0 ---> O.K !
```

```
-. Check ratio of neutral axis depth to effective depth.
x/d = 0.076
```

<< TOP >>

-. Information of Parameters.

```
Elem No. : 5085
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
            fcd = 16666.6667 KPa.
            fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering : dB = 0.0500 m.
           dT = 0.0500 m.
```

-. Information of Design.

```
b = 0.0010 m. (by Code Unit Length).
d = 0.2000 m.
lambda = 0.800
a = lambda * x = 0.033 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.4875 kN.
M_Rd = Cc*(d-a/2) = 89.5781 kN-m./m.
```

-. Information of Moments and Result.

```
Rein. Bar : P12 @100
As_req = 0.0011 m^2/m. ( 0.0011 m^2/m.)
M_Ed = 85.2897 kN-m./m.
M_Rd = 89.5781 kN-m./m.
RatM = M_Ed / M_Rd = 0.952 < 1.0 ---> O.K !
```

```
-. Check ratio of neutral axis depth to effective depth.
x/d = 0.197
```

```
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN SLABS +1.50-[3], Dir 2.
```

<< BOTTOM >>

-. Information of Parameters.

```
Elem No. : 5130
LCB No. : 39+
Materials : fck = 25000.0000 KPa.
            fcd = 16666.6667 KPa.
            fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering : dB = 0.0500 m.
           dT = 0.0500 m.
```

```
-----
-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.2000 m.
lambda = 0.800
a      = lambda * x = 0.011 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.1711 kN.
M_Rd  = Cc*(d-a/2) = 33.2430 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P10 @200
As_req = 0.0003 m^2/m. ( 0.0003 m^2/m.)
M_Ed   = 26.7081 kN-m./m.
M_Rd   = 33.2430 kN-m./m.
RatM   = M_Ed / M_Rd = 0.803 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.062
```

<< TOP >>

```
-. Information of Parameters.
Elem No. : 5185
LCB No.  : 38+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering  : dB = 0.0500 m.
           dT = 0.0500 m.
```

```
-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.2000 m.
lambda = 0.800
a      = lambda * x = 0.029 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.4359 kN.
M_Rd  = Cc*(d-a/2) = 80.8528 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P16 @200
As_req = 0.0010 m^2/m. ( 0.0010 m^2/m.)
M_Ed   = 76.9622 kN-m./m.
M_Rd   = 80.8528 kN-m./m.
RatM   = M_Ed / M_Rd = 0.952 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.178
```

```
=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN SLABS +1.50-[4], Dir 2.
=====
```

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 5216
LCB No. : 44+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.2000 m.
lambda = 0.800
a = lambda * x = 0.039 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.5813 kN.
M_Rd = Cc*(d-a/2) = 104.9883 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P16 @150
As_req = 0.0012 m²/m. (0.0012 m²/m.)
M_Ed = 90.7903 kN-m./m.
M_Rd = 104.9883 kN-m./m.
RatM = M_Ed / M_Rd = 0.865 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.210

<< TOP >>

-. Information of Parameters.

Elem No. : 5190
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.2000 m.
lambda = 0.800
a = lambda * x = 0.022 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.3258 kN.
M_Rd = Cc*(d-a/2) = 61.6185 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P12 @150
As_req = 0.0006 m²/m. (0.0006 m²/m.)
M_Ed = 47.9836 kN-m./m.
M_Rd = 61.6185 kN-m./m.
RatM = M_Ed / M_Rd = 0.779 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.111

[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN SLABS +1.50-[5], Dir 2.

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 5255
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.2000 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1711 kN.
M_Rd = Cc*(d-a/2) = 33.2430 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0003 m²/m. (0.0003 m²/m.)
M_Ed = 23.9280 kN-m./m.
M_Rd = 33.2430 kN-m./m.
RatM = M_Ed / M_Rd = 0.720 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.055

<< TOP >>

-. Information of Parameters.

Elem No. : 5248
LCB No. : 43+

```

Materials : fck = 25000.0000 KPa.
            fcd = 16666.6667 KPa.
            fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering  : dB = 0.0500 m.
            dT = 0.0500 m.

```

-. Information of Design.

```

b          = 0.0010 m. (by Code Unit Length).
d          = 0.2000 m.
lambda    = 0.800
a          = lambda * x = 0.022 m.
eta       = 0.900
Cc        = eta*fcd*b*a = 0.3258 kN.
M_Rd     = Cc*(d-a/2) = 61.6185 kN-m./m.

```

-. Information of Moments and Result.

```

Rein. Bar : P12 @150
As_req = 0.0007 m^2/m. ( 0.0007 m^2/m.)
M_Ed = 55.1121 kN-m./m.
M_Rd = 61.6185 kN-m./m.
RatM = M_Ed / M_Rd = 0.894 < 1.0 ---> O.K !

```

-. Check ratio of neutral axis depth to effective depth.

```

x/d = 0.128

```

```

[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN SLABS +1.50-[6], Dir 2.

```

<< BOTTOM >>

-. Information of Parameters.

```

Elem No. : 5285
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
            fcd = 16666.6667 KPa.
            fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering  : dB = 0.0500 m.
            dT = 0.0500 m.

```

-. Information of Design.

```

b          = 0.0010 m. (by Code Unit Length).
d          = 0.2000 m.
lambda    = 0.800
a          = lambda * x = 0.091 m.
eta       = 0.900
Cc        = eta*fcd*b*a = 1.3594 kN.
M_Rd     = Cc*(d-a/2) = 210.2783 kN-m./m.

```

-. Information of Moments and Result.

```

Rein. Bar : P20 @100
As_req = 0.0024 m^2/m. ( 0.0024 m^2/m.)
M_Ed = 191.6798 kN-m./m.

```

```
M_Rd = 210.2783 kN-m./m.
RatM = M_Ed / M_Rd = 0.912 < 1.0 ---> O.K !
```

```
-. Check ratio of neutral axis depth to effective depth.
x/d = 0.444
```

<< TOP >>

-. Information of Parameters.

```
Elem No. : 5267
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering : dB = 0.0500 m.
           dT = 0.0500 m.
```

-. Information of Design.

```
b = 0.0010 m. (by Code Unit Length).
d = 0.2000 m.
lambda = 0.800
a = lambda * x = 0.058 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.8719 kN.
M_Rd = Cc*(d-a/2) = 149.0361 kN-m./m.
```

-. Information of Moments and Result.

```
Rein. Bar : P16 @100
As_req = 0.0016 m^2/m. ( 0.0016 m^2/m.)
M_Ed = 121.9654 kN-m./m.
M_Rd = 149.0361 kN-m./m.
RatM = M_Ed / M_Rd = 0.818 < 1.0 ---> O.K !
```

```
-. Check ratio of neutral axis depth to effective depth.
x/d = 0.282
```

```
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN SLABS +1.50-[7], Dir 2.
```

<< BOTTOM >>

-. Information of Parameters.

```
Elem No. : 5310
LCB No. : 39+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering : dB = 0.0500 m.
           dT = 0.0500 m.
```



```
-----
-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.2000 m.
lambda = 0.800
a      = lambda * x = 0.015 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.2273 kN.
M_Rd  = Cc*(d-a/2) = 43.7459 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P10 @150
As_req = 0.0005 m^2/m. ( 0.0005 m^2/m.)
M_Ed   = 40.3999 kN-m./m.
M_Rd   = 43.7459 kN-m./m.
RatM   = M_Ed / M_Rd = 0.924 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.094
```

<< TOP >>

```
-. Information of Parameters.
Elem No. : 5317
LCB No.  : 44+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering  : dB = 0.0500 m.
           dT = 0.0500 m.
```

```
-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.2000 m.
lambda = 0.800
a      = lambda * x = 0.039 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.5813 kN.
M_Rd  = Cc*(d-a/2) = 104.9883 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P16 @150
As_req = 0.0013 m^2/m. ( 0.0013 m^2/m.)
M_Ed   = 98.9008 kN-m./m.
M_Rd   = 104.9883 kN-m./m.
RatM   = M_Ed / M_Rd = 0.942 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.229
```

```
=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN SLABS -3.38-[1], Dir 2.
=====
```

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 5454
LCB No. : 39+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.2000 m.
lambda = 0.800
a = lambda * x = 0.029 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.4359 kN.
M_Rd = Cc*(d-a/2) = 80.8528 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P16 @200
As_req = 0.0009 m²/m. (0.0009 m²/m.)
M_Ed = 71.3817 kN-m./m.
M_Rd = 80.8528 kN-m./m.
RatM = M_Ed / M_Rd = 0.883 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.165

<< TOP >>

-. Information of Parameters.

Elem No. : 5411
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.2000 m.
lambda = 0.800
a = lambda * x = 0.033 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.4875 kN.
M_Rd = Cc*(d-a/2) = 89.5781 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P12 @100
As_req = 0.0011 m²/m. (0.0011 m²/m.)
M_Ed = 88.0238 kN-m./m.
M_Rd = 89.5781 kN-m./m.
RatM = M_Ed / M_Rd = 0.983 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.204

[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN SLABS -3.38-[2], Dir 2.

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 5489
LCB No. : 39+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.2000 m.
lambda = 0.800
a = lambda * x = 0.029 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.4359 kN.
M_Rd = Cc*(d-a/2) = 80.8528 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P16 @200
As_req = 0.0009 m²/m. (0.0009 m²/m.)
M_Ed = 71.7286 kN-m./m.
M_Rd = 80.8528 kN-m./m.
RatM = M_Ed / M_Rd = 0.887 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.166

<< TOP >>

-. Information of Parameters.

Elem No. : 5466
LCB No. : 43+

Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.2000 m.
lambda = 0.800
a = lambda * x = 0.029 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.4359 kN.
M_Rd = Cc*(d-a/2) = 80.8528 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P16 @200
As_req = 0.0009 m²/m. (0.0009 m²/m.)
M_Ed = 70.4793 kN-m./m.
M_Rd = 80.8528 kN-m./m.
RatM = M_Ed / M_Rd = 0.872 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.163

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN SLABS -3.38-[3], Dir 2.
=====

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 5553
LCB No. : 39+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.2000 m.
lambda = 0.800
a = lambda * x = 0.029 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.4359 kN.
M_Rd = Cc*(d-a/2) = 80.8528 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P16 @200
As_req = 0.0009 m²/m. (0.0009 m²/m.)
M_Ed = 70.8128 kN-m./m.

```
M_Rd = 80.8528 kN-m./m.
RatM = M_Ed / M_Rd = 0.876 < 1.0 ---> O.K !
```

```
-. Check ratio of neutral axis depth to effective depth.
x/d = 0.164
```

<< TOP >>

-. Information of Parameters.

```
Elem No. : 5571
LCB No. : 44+
Materials : fck = 25000.0000 KPa.
            fcd = 16666.6667 KPa.
            fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering : dB = 0.0500 m.
           dT = 0.0500 m.
```

-. Information of Design.

```
b = 0.0010 m. (by Code Unit Length).
d = 0.2000 m.
lambda = 0.800
a = lambda * x = 0.039 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.5813 kN.
M_Rd = Cc*(d-a/2) = 104.9883 kN-m./m.
```

-. Information of Moments and Result.

```
Rein. Bar : P16 @150
As_req = 0.0013 m^2/m. ( 0.0013 m^2/m.)
M_Ed = 104.2536 kN-m./m.
M_Rd = 104.9883 kN-m./m.
RatM = M_Ed / M_Rd = 0.993 < 1.0 ---> O.K !
```

```
-. Check ratio of neutral axis depth to effective depth.
x/d = 0.241
```

```
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN SLABS -3.38-[4], Dir 2.
```

<< BOTTOM >>

-. Information of Parameters.

```
Elem No. : 5601
LCB No. : 36+
Materials : fck = 25000.0000 KPa.
            fcd = 16666.6667 KPa.
            fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering : dB = 0.0500 m.
           dT = 0.0500 m.
```

```
-----
-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.2000 m.
lambda = 0.800
a      = lambda * x = 0.011 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.1711 kN.
M_Rd  = Cc*(d-a/2) = 33.2430 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P10 @200
As_req = 0.0003 m^2/m. ( 0.0003 m^2/m.)
M_Ed   = 9.1688 kN-m./m.
M_Rd   = 33.2430 kN-m./m.
RatM   = M_Ed / M_Rd = 0.276 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.048
```

<< TOP >>

```
-. Information of Parameters.
Elem No. : 5589
LCB No.  : 38+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering  : dB = 0.0500 m.
           dT = 0.0500 m.
```

```
-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.2000 m.
lambda = 0.800
a      = lambda * x = 0.011 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.1711 kN.
M_Rd  = Cc*(d-a/2) = 33.2430 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P10 @200
As_req = 0.0004 m^2/m. ( 0.0004 m^2/m.)
M_Ed   = 30.3309 kN-m./m.
M_Rd   = 33.2430 kN-m./m.
RatM   = M_Ed / M_Rd = 0.912 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.070
```

```
=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN SLABS -3.38-[5], Dir 2.
=====
```

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 5636
LCB No. : 40+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.2000 m.
lambda = 0.800
a = lambda * x = 0.029 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.4359 kN.
M_Rd = Cc*(d-a/2) = 80.8528 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P16 @200
As_req = 0.0009 m²/m. (0.0009 m²/m.)
M_Ed = 69.9070 kN-m./m.
M_Rd = 80.8528 kN-m./m.
RatM = M_Ed / M_Rd = 0.865 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.162

<< TOP >>

-. Information of Parameters.

Elem No. : 5622
LCB No. : 44+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.2000 m.
lambda = 0.800
a = lambda * x = 0.022 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.3258 kN.
M_Rd = Cc*(d-a/2) = 61.6185 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P12 @150
As_req = 0.0008 m²/m. (0.0008 m²/m.)
M_Ed = 61.5576 kN-m./m.
M_Rd = 61.6185 kN-m./m.
RatM = M_Ed / M_Rd = 0.999 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.142

[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN SLABS -3.38-[6], Dir 2.

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 5683
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.2000 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1711 kN.
M_Rd = Cc*(d-a/2) = 33.2430 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0003 m²/m. (0.0003 m²/m.)
M_Ed = 23.0001 kN-m./m.
M_Rd = 33.2430 kN-m./m.
RatM = M_Ed / M_Rd = 0.692 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.053

<< TOP >>

-. Information of Parameters.

Elem No. : 5682
LCB No. : 38+


```

Materials : fck = 25000.0000 KPa.
            fcd = 16666.6667 KPa.
            fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering  : dB = 0.0500 m.
            dT = 0.0500 m.

```

-. Information of Design.

```

b          = 0.0010 m. (by Code Unit Length).
d          = 0.2000 m.
lambda    = 0.800
a          = lambda * x = 0.011 m.
eta       = 0.900
Cc        = eta*fcd*b*a = 0.1711 kN.
M_Rd      = Cc*(d-a/2) = 33.2430 kN-m./m.

```

-. Information of Moments and Result.

```

Rein. Bar : P10 @200
As_req    = 0.0004 m^2/m. ( 0.0004 m^2/m.)
M_Ed      = 31.2816 kN-m./m.
M_Rd      = 33.2430 kN-m./m.
RatM      = M_Ed / M_Rd = 0.941 < 1.0 ---> O.K !

```

-. Check ratio of neutral axis depth to effective depth.

```

x/d       = 0.072

```

```

[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN SLABS -3.38-[7], Dir 2.

```

<< BOTTOM >>

-. Information of Parameters.

```

Elem No.  : 5740
LCB No.   : 36+
Materials : fck = 25000.0000 KPa.
            fcd = 16666.6667 KPa.
            fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering  : dB = 0.0500 m.
            dT = 0.0500 m.

```

-. Information of Design.

```

b          = 0.0010 m. (by Code Unit Length).
d          = 0.2000 m.
lambda    = 0.800
a          = lambda * x = 0.022 m.
eta       = 0.900
Cc        = eta*fcd*b*a = 0.3328 kN.
M_Rd      = Cc*(d-a/2) = 62.8704 kN-m./m.

```

-. Information of Moments and Result.

```

Rein. Bar : P14 @200
As_req    = 0.0008 m^2/m. ( 0.0008 m^2/m.)
M_Ed      = 61.7809 kN-m./m.

```

```
M_Rd = 62.8704 kN-m./m.
RatM = M_Ed / M_Rd = 0.983 < 1.0 ---> O.K !
```

```
-. Check ratio of neutral axis depth to effective depth.
x/d = 0.143
```

<< TOP >>

-. Information of Parameters.

```
Elem No. : 5717
LCB No. : 44+
Materials : fck = 25000.0000 KPa.
            fcd = 16666.6667 KPa.
            fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering : dB = 0.0500 m.
           dT = 0.0500 m.
```

-. Information of Design.

```
b = 0.0010 m. (by Code Unit Length).
d = 0.2000 m.
lambda = 0.800
a = lambda * x = 0.022 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.3258 kN.
M_Rd = Cc*(d-a/2) = 61.6185 kN-m./m.
```

-. Information of Moments and Result.

```
Rein. Bar : P12 @150
As_req = 0.0007 m^2/m. ( 0.0007 m^2/m.)
M_Ed = 53.7798 kN-m./m.
M_Rd = 61.6185 kN-m./m.
RatM = M_Ed / M_Rd = 0.873 < 1.0 ---> O.K !
```

```
-. Check ratio of neutral axis depth to effective depth.
x/d = 0.124
```

```
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN SLABS -3.38-[8], Dir 2.
```

<< BOTTOM >>

-. Information of Parameters.

```
Elem No. : 5780
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
            fcd = 16666.6667 KPa.
            fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering : dB = 0.0500 m.
           dT = 0.0500 m.
```

```
-----
-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.2000 m.
lambda = 0.800
a      = lambda * x = 0.015 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.2273 kN.
M_Rd  = Cc*(d-a/2) = 43.7459 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P10 @150
As_req = 0.0005 m^2/m. ( 0.0005 m^2/m.)
M_Ed   = 40.9488 kN-m./m.
M_Rd   = 43.7459 kN-m./m.
RatM   = M_Ed / M_Rd = 0.936 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.095
```

<< TOP >>

```
-. Information of Parameters.
Elem No. : 5802
LCB No.  : 36+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering  : dB = 0.0500 m.
           dT = 0.0500 m.
```

```
-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.2000 m.
lambda = 0.800
a      = lambda * x = 0.029 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.4359 kN.
M_Rd  = Cc*(d-a/2) = 80.8528 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P16 @200
As_req = 0.0009 m^2/m. ( 0.0009 m^2/m.)
M_Ed   = 66.9250 kN-m./m.
M_Rd   = 80.8528 kN-m./m.
RatM   = M_Ed / M_Rd = 0.828 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.155
```

```
=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN SLABS -3.38-[9], Dir 2.
=====
```

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 5813
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.2000 m.
lambda = 0.800
a = lambda * x = 0.029 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.4359 kN.
M_Rd = Cc*(d-a/2) = 80.8528 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P16 @200
As_req = 0.0008 m²/m. (0.0008 m²/m.)
M_Ed = 65.6324 kN-m./m.
M_Rd = 80.8528 kN-m./m.
RatM = M_Ed / M_Rd = 0.812 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.152

<< TOP >>

-. Information of Parameters.

Elem No. : 5832
LCB No. : 44+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.2000 m.
lambda = 0.800
a = lambda * x = 0.022 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.3258 kN.
M_Rd = Cc*(d-a/2) = 61.6185 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P12 @150
As_req = 0.0007 m²/m. (0.0007 m²/m.)
M_Ed = 58.4291 kN-m./m.
M_Rd = 61.6185 kN-m./m.
RatM = M_Ed / M_Rd = 0.948 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.135

[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STAIRS-1-[1], Dir 2.

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 5942
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.015 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.2285 kN.
M_Rd = Cc*(d-a/2) = 32.5367 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @150
As_req = 0.0005 m²/m. (0.0005 m²/m.)
M_Ed = 31.9431 kN-m./m.
M_Rd = 32.5367 kN-m./m.
RatM = M_Ed / M_Rd = 0.982 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.131

<< TOP >>

-. Information of Parameters.

Elem No. : 5940
LCB No. : 36+

Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.015 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.2285 kN.
M_Rd = Cc*(d-a/2) = 32.5367 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @150
As_req = 0.0006 m²/m. (0.0006 m²/m.)
M_Ed = 32.4980 kN-m./m.
M_Rd = 32.5367 kN-m./m.
RatM = M_Ed / M_Rd = 0.999 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.134

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STAIRS-1-[2], Dir 2.
=====

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 5950
LCB No. : 44+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1705 kN.
M_Rd = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0003 m²/m. (0.0003 m²/m.)
M_Ed = 17.5839 kN-m./m.

M_Rd = 24.6071 kN-m./m.
RatM = M_Ed / M_Rd = 0.715 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.072

<< TOP >>

-. Information of Parameters.

Elem No. : 5950
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.022 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.3270 kN.
M_Rd = Cc*(d-a/2) = 45.4797 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P12 @150
As_req = 0.0006 m^2/m. (0.0006 m^2/m.)
M_Ed = 36.6042 kN-m./m.
M_Rd = 45.4797 kN-m./m.
RatM = M_Ed / M_Rd = 0.805 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.151

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STAIRS-1-[3], Dir 2.
=====

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 5956
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

```

-----
-- Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.1500 m.
lambda = 0.800
a      = lambda * x = 0.011 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.1705 kN.
M_Rd  = Cc*(d-a/2) = 24.6071 kN-m./m.

-- Information of Moments and Result.
Rein. Bar : P10 @200
As_req = 0.0002 m^2/m. ( 0.0002 m^2/m.)
M_Ed   = 13.3126 kN-m./m.
M_Rd   = 24.6071 kN-m./m.
RatM   = M_Ed / M_Rd = 0.541 < 1.0 ---> O.K !

-- Check ratio of neutral axis depth to effective depth.
x/d    = 0.055

```

<< TOP >>

```

-- Information of Parameters.
Elem No. : 5956
LCB No.  : 44+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering  : dB = 0.0500 m.
           dT = 0.0500 m.

-- Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.1500 m.
lambda = 0.800
a      = lambda * x = 0.015 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.2285 kN.
M_Rd  = Cc*(d-a/2) = 32.5367 kN-m./m.

-- Information of Moments and Result.
Rein. Bar : P10 @150
As_req = 0.0005 m^2/m. ( 0.0005 m^2/m.)
M_Ed   = 26.5175 kN-m./m.
M_Rd   = 32.5367 kN-m./m.
RatM   = M_Ed / M_Rd = 0.815 < 1.0 ---> O.K !

-- Check ratio of neutral axis depth to effective depth.
x/d    = 0.109

```

```

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STAIRS-1-[4], Dir 2.
=====

```


<< BOTTOM >>

-. Information of Parameters.

Elem No. : 5967
LCB No. : 44+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1705 kN.
M_Rd = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0003 m²/m. (0.0003 m²/m.)
M_Ed = 15.2816 kN-m./m.
M_Rd = 24.6071 kN-m./m.
RatM = M_Ed / M_Rd = 0.621 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.063

<< TOP >>

-. Information of Parameters.

Elem No. : 5960
LCB No. : 44+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1705 kN.
M_Rd = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0004 m²/m. (0.0004 m²/m.)
M_Ed = 23.9575 kN-m./m.
M_Rd = 24.6071 kN-m./m.
RatM = M_Ed / M_Rd = 0.974 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.099

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STAIRS-1-[5], Dir 2.
=====

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 5973
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.015 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.2285 kN.
M_Rd = Cc*(d-a/2) = 32.5367 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @150
As_req = 0.0005 m²/m. (0.0005 m²/m.)
M_Ed = 28.3272 kN-m./m.
M_Rd = 32.5367 kN-m./m.
RatM = M_Ed / M_Rd = 0.871 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.117

<< TOP >>

-. Information of Parameters.

Elem No. : 5968
LCB No. : 43+

Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1705 kN.
M_Rd = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0004 m²/m. (0.0004 m²/m.)
M_Ed = 22.4393 kN-m./m.
M_Rd = 24.6071 kN-m./m.
RatM = M_Ed / M_Rd = 0.912 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.092

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STAIRS-1-[6], Dir 2.
=====

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 5981
LCB No. : 40+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1705 kN.
M_Rd = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0002 m²/m. (0.0002 m²/m.)
M_Ed = 9.8217 kN-m./m.

M_Rd = 24.6071 kN-m./m.
RatM = M_Ed / M_Rd = 0.399 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.048

<< TOP >>

-. Information of Parameters.

Elem No. : 5978
LCB No. : 44+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1705 kN.
M_Rd = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0004 m^2/m. (0.0004 m^2/m.)
M_Ed = 22.6062 kN-m./m.
M_Rd = 24.6071 kN-m./m.
RatM = M_Ed / M_Rd = 0.919 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.093

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STAIRS-1-[7], Dir 2.
=====

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 5987
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1705 kN.
M_Rd = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0002 m^2/m. (0.0002 m^2/m.)
M_Ed = 13.0853 kN-m./m.
M_Rd = 24.6071 kN-m./m.

RatM = $M_{Ed} / M_{Rd} = 0.532 < 1.0$ ---> O.K !
 -. Check ratio of neutral axis depth to effective depth.
 $x/d = 0.054$

<< TOP >>

-. Information of Parameters.

Elem No. : 5987
 LCB No. : 44+
 Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
 Thickness : 0.2000 m.
 Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
 d = 0.1500 m.
 lambda = 0.800
 a = lambda * x = 0.011 m.
 eta = 0.900
 Cc = eta*fcd*b*a = 0.1705 kN.
 M_Rd = Cc*(d-a/2) = 24.6071 kN-m./m.

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-. Information of Moments and Result.

Rein. Bar : P10 @200
 As_req = 0.0002 m²/m. (0.0002 m²/m.)
 M_Ed = 14.5515 kN-m./m.
 M_Rd = 24.6071 kN-m./m.
 RatM = $M_{Ed} / M_{Rd} = 0.591 < 1.0$ ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
 $x/d = 0.060$

=====
 [[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STAIRS-1-[8], Dir 2.
 =====

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 5995
 LCB No. : 43+
 Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
 Thickness : 0.2000 m.
 Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
 d = 0.1500 m.
 lambda = 0.800
 a = lambda * x = 0.011 m.
 eta = 0.900
 Cc = eta*fcd*b*a = 0.1705 kN.
 M_Rd = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
 As_req = 0.0004 m²/m. (0.0004 m²/m.)
 M_Ed = 23.6161 kN-m./m.
 M_Rd = 24.6071 kN-m./m.
 RatM = $M_{Ed} / M_{Rd} = 0.960 < 1.0$ ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
 $x/d = 0.097$

<< TOP >>

-. Information of Parameters.

Elem No. : 5995
LCB No. : 44+

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Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.015 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.2285 kN.
M_Rd = Cc*(d-a/2) = 32.5367 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @150
As_req = 0.0005 m²/m. (0.0005 m²/m.)
M_Ed = 28.3483 kN-m./m.
M_Rd = 32.5367 kN-m./m.
RatM = M_Ed / M_Rd = 0.871 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.117

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STAIRS-1-[9], Dir 2.
=====

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 6001
LCB No. : 38+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.015 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.2285 kN.
M_Rd = Cc*(d-a/2) = 32.5367 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @150
As_req = 0.0005 m²/m. (0.0005 m²/m.)
M_Ed = 29.7388 kN-m./m.

```
M_Rd = 32.5367 kN-m./m.
RatM = M_Ed / M_Rd = 0.914 < 1.0 ---> O.K !
```

```
-. Check ratio of neutral axis depth to effective depth.
x/d = 0.122
```

<< TOP >>

-. Information of Parameters.

```
Elem No. : 6001
LCB No. : 44+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
           dT = 0.0500 m.
```

-. Information of Design.

```
b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.015 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.2285 kN.
M_Rd = Cc*(d-a/2) = 32.5367 kN-m./m.
```

-. Information of Moments and Result.

```
Rein. Bar : P10 @150
As_req = 0.0005 m^2/m. ( 0.0005 m^2/m.)
M_Ed = 28.5574 kN-m./m.
M_Rd = 32.5367 kN-m./m.
RatM = M_Ed / M_Rd = 0.878 < 1.0 ---> O.K !
```

```
-. Check ratio of neutral axis depth to effective depth.
x/d = 0.118
```

```
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STAIRS-1-[10], Dir 2.
```

<< BOTTOM >>

-. Information of Parameters.

```
Elem No. : 6007
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
           dT = 0.0500 m.
```

```

-----
-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.1500 m.
lambda = 0.800
a      = lambda * x = 0.011 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.1705 kN.
M_Rd  = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P10 @200
As_req = 0.0003 m^2/m. ( 0.0003 m^2/m.)
M_Ed   = 19.2326 kN-m./m.
M_Rd   = 24.6071 kN-m./m.
RatM   = M_Ed / M_Rd = 0.782 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.079

```

<< TOP >>

```

-. Information of Parameters.
Elem No. : 6004
LCB No.  : 44+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering  : dB = 0.0500 m.
           dT = 0.0500 m.

-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.1500 m.
lambda = 0.800
a      = lambda * x = 0.011 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.1705 kN.
M_Rd  = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P10 @200
As_req = 0.0004 m^2/m. ( 0.0004 m^2/m.)
M_Ed   = 24.5559 kN-m./m.
M_Rd   = 24.6071 kN-m./m.
RatM   = M_Ed / M_Rd = 0.998 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.101

```

```

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STAIRS-1-[11], Dir 2.
=====

```


<< BOTTOM >>

-. Information of Parameters.

Elem No. : 6013
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.015 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.2285 kN.
M_Rd = Cc*(d-a/2) = 32.5367 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @150
As_req = 0.0005 m²/m. (0.0005 m²/m.)
M_Ed = 27.2948 kN-m./m.
M_Rd = 32.5367 kN-m./m.
RatM = M_Ed / M_Rd = 0.839 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.112

<< TOP >>

-. Information of Parameters.

Elem No. : 6013
LCB No. : 44+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.016 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.2443 kN.
M_Rd = Cc*(d-a/2) = 34.6604 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P12 @200
As_req = 0.0006 m²/m. (0.0006 m²/m.)
M_Ed = 33.7560 kN-m./m.
M_Rd = 34.6604 kN-m./m.
RatM = M_Ed / M_Rd = 0.974 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.139

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STAIRS-1-[12], Dir 2.
=====

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 6021
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1705 kN.
M_Rd = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0003 m²/m. (0.0003 m²/m.)
M_Ed = 18.8590 kN-m./m.
M_Rd = 24.6071 kN-m./m.
RatM = M_Ed / M_Rd = 0.766 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.078

<< TOP >>

-. Information of Parameters.

Elem No. : 6021
LCB No. : 44+

Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1705 kN.
M_Rd = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0004 m²/m. (0.0004 m²/m.)
M_Ed = 23.6231 kN-m./m.
M_Rd = 24.6071 kN-m./m.
RatM = M_Ed / M_Rd = 0.960 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.097

[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STAIRS-1-[13], Dir 2.

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 6026
LCB No. : 44+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1705 kN.
M_Rd = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0002 m²/m. (0.0002 m²/m.)
M_Ed = 8.1064 kN-m./m.

```
M_Rd = 24.6071 kN-m./m.
RatM = M_Ed / M_Rd = 0.329 < 1.0 ---> O.K !
```

```
-. Check ratio of neutral axis depth to effective depth.
x/d = 0.048
```

<< TOP >>

-. Information of Parameters.

```
Elem No. : 6027
LCB No. : 44+
Materials : fck = 25000.0000 KPa.
            fcd = 16666.6667 KPa.
            fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
           dT = 0.0500 m.
```

-. Information of Design.

```
b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.015 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.2285 kN.
M_Rd = Cc*(d-a/2) = 32.5367 kN-m./m.
```

-. Information of Moments and Result.

```
Rein. Bar : P10 @150
As_req = 0.0004 m^2/m. ( 0.0004 m^2/m.)
M_Ed = 25.1599 kN-m./m.
M_Rd = 32.5367 kN-m./m.
RatM = M_Ed / M_Rd = 0.773 < 1.0 ---> O.K !
```

```
-. Check ratio of neutral axis depth to effective depth.
x/d = 0.104
```

```
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STAIRS-1-[14], Dir 2.
```

<< BOTTOM >>

-. Information of Parameters.

```
Elem No. : 6033
LCB No. : 44+
Materials : fck = 25000.0000 KPa.
            fcd = 16666.6667 KPa.
            fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
           dT = 0.0500 m.
```

```
-----
-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.1500 m.
lambda = 0.800
a      = lambda * x = 0.015 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.2285 kN.
M_Rd  = Cc*(d-a/2) = 32.5367 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P10 @150
As_req = 0.0005 m^2/m. ( 0.0005 m^2/m.)
M_Ed   = 31.4308 kN-m./m.
M_Rd   = 32.5367 kN-m./m.
RatM   = M_Ed / M_Rd = 0.966 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.129
```

<< TOP >>

```
-. Information of Parameters.
Elem No. : 6032
LCB No.  : 43+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering  : dB = 0.0500 m.
           dT = 0.0500 m.
```

```
-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.1500 m.
lambda = 0.800
a      = lambda * x = 0.022 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.3270 kN.
M_Rd  = Cc*(d-a/2) = 45.4797 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P12 @150
As_req = 0.0007 m^2/m. ( 0.0007 m^2/m.)
M_Ed   = 39.1442 kN-m./m.
M_Rd   = 45.4797 kN-m./m.
RatM   = M_Ed / M_Rd = 0.861 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.161
```

```
=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STAIRS-1-[15], Dir 2.
=====
```

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 6043
LCB No. : 39+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1705 kN.
M_Rd = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0003 m²/m. (0.0003 m²/m.)
M_Ed = 17.7344 kN-m./m.
M_Rd = 24.6071 kN-m./m.
RatM = M_Ed / M_Rd = 0.721 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.073

<< TOP >>

-. Information of Parameters.

Elem No. : 6041
LCB No. : 36+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1705 kN.
M_Rd = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0003 m²/m. (0.0003 m²/m.)
M_Ed = 17.3687 kN-m./m.
M_Rd = 24.6071 kN-m./m.
RatM = M_Ed / M_Rd = 0.706 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.071

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STAIRS-1-[16], Dir 2.
=====

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 6050
LCB No. : 38+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.015 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.2285 kN.
M_Rd = Cc*(d-a/2) = 32.5367 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @150
As_req = 0.0004 m²/m. (0.0004 m²/m.)
M_Ed = 26.0917 kN-m./m.
M_Rd = 32.5367 kN-m./m.
RatM = M_Ed / M_Rd = 0.802 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.107

<< TOP >>

-. Information of Parameters.

Elem No. : 6047
LCB No. : 44+

```

Materials : fck = 25000.0000 KPa.
            fcd = 16666.6667 KPa.
            fyk = 500000.0000 KPa.
Thickness  : 0.2000 m.
Covering   : dB = 0.0500 m.
            dT = 0.0500 m.

```

-. Information of Design.

```

b      = 0.0010 m. (by Code Unit Length).
d      = 0.1500 m.
lambda = 0.800
a      = lambda * x = 0.011 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.1705 kN.
M_Rd   = Cc*(d-a/2) = 24.6071 kN-m./m.

```

-. Information of Moments and Result.

```

Rein. Bar : P10 @200
As_req = 0.0003 m^2/m. ( 0.0003 m^2/m.)
M_Ed   = 18.1199 kN-m./m.
M_Rd   = 24.6071 kN-m./m.
RatM   = M_Ed / M_Rd = 0.736 < 1.0 ---> O.K !

```

-. Check ratio of neutral axis depth to effective depth.

```

x/d    = 0.075

```

```

[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STAIRS-2-[1], Dir 2.

```

<< BOTTOM >>

-. Information of Parameters.

```

Elem No. : 6055
LCB No.  : 36+
Materials : fck = 25000.0000 KPa.
            fcd = 16666.6667 KPa.
            fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering   : dB = 0.0500 m.
            dT = 0.0500 m.

```

-. Information of Design.

```

b      = 0.0010 m. (by Code Unit Length).
d      = 0.1500 m.
lambda = 0.800
a      = lambda * x = 0.011 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.1705 kN.
M_Rd   = Cc*(d-a/2) = 24.6071 kN-m./m.

```

-. Information of Moments and Result.

```

Rein. Bar : P10 @200
As_req = 0.0002 m^2/m. ( 0.0002 m^2/m.)
M_Ed   = 0.0000 kN-m./m.

```



```
M_Rd = 24.6071 kN-m./m.
RatM = M_Ed / M_Rd = 0.000 < 1.0 ---> O.K !
```

```
-. Check ratio of neutral axis depth to effective depth.
x/d = 0.048
```

<< TOP >>

-. Information of Parameters.

```
Elem No. : 6056
LCB No. : 39+
Materials : fck = 25000.0000 KPa.
            fcd = 16666.6667 KPa.
            fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
           dT = 0.0500 m.
```

-. Information of Design.

```
b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.016 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.2443 kN.
M_Rd = Cc*(d-a/2) = 34.6604 kN-m./m.
```

-. Information of Moments and Result.

```
Rein. Bar : P12 @200
As_req = 0.0006 m^2/m. ( 0.0006 m^2/m.)
M_Ed = 33.1176 kN-m./m.
M_Rd = 34.6604 kN-m./m.
RatM = M_Ed / M_Rd = 0.955 < 1.0 ---> O.K !
```

```
-. Check ratio of neutral axis depth to effective depth.
x/d = 0.136
```

```
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STAIRS-2-[2], Dir 2.
```

<< BOTTOM >>

-. Information of Parameters.

```
Elem No. : 6064
LCB No. : 38+
Materials : fck = 25000.0000 KPa.
            fcd = 16666.6667 KPa.
            fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
           dT = 0.0500 m.
```

```
-----
-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.1500 m.
lambda = 0.800
a      = lambda * x = 0.011 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.1705 kN.
M_Rd  = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P10 @200
As_req = 0.0002 m^2/m. ( 0.0002 m^2/m.)
M_Ed   = 10.6603 kN-m./m.
M_Rd   = 24.6071 kN-m./m.
RatM   = M_Ed / M_Rd = 0.433 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.048
```

<< TOP >>

```
-. Information of Parameters.
Elem No. : 6061
LCB No.  : 44+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering  : dB = 0.0500 m.
           dT = 0.0500 m.
```

```
-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.1500 m.
lambda = 0.800
a      = lambda * x = 0.011 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.1705 kN.
M_Rd  = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P10 @200
As_req = 0.0002 m^2/m. ( 0.0002 m^2/m.)
M_Ed   = 12.4689 kN-m./m.
M_Rd   = 24.6071 kN-m./m.
RatM   = M_Ed / M_Rd = 0.507 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.051
```

```
=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN WAFFLE +1.50-[101], Dir 2.
=====
```

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 3561
LCB No. : 36+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.1500 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1000 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1711 kN.
M_Rd = Cc*(d-a/2) = 16.1336 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0003 m²/m. (0.0003 m²/m.)
M_Ed = 12.1005 kN-m./m.
M_Rd = 16.1336 kN-m./m.
RatM = M_Ed / M_Rd = 0.750 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.112

<< TOP >>

-. Information of Parameters.

Elem No. : 3457
LCB No. : 40+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.1500 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1000 m.
lambda = 0.800
a = lambda * x = 0.033 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.4875 kN.
M_Rd = Cc*(d-a/2) = 40.8281 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P12 @100
As_req = 0.0010 m²/m. (0.0010 m²/m.)
M_Ed = 40.7730 kN-m./m.
M_Rd = 40.8281 kN-m./m.
RatM = M_Ed / M_Rd = 0.999 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.378

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN S-WAFFLE +1.50-[3], Dir 2.
=====

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 3920
LCB No. : 39+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.6000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.5500 m.
lambda = 0.800
a = lambda * x = 0.058 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.8701 kN.
M_Rd = Cc*(d-a/2) = 453.3277 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P16 @100
As_req = 0.0019 m²/m. (0.0019 m²/m.)
M_Ed = 416.7597 kN-m./m.
M_Rd = 453.3277 kN-m./m.
RatM = M_Ed / M_Rd = 0.919 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.128

<< TOP >>

-. Information of Parameters.

Elem No. : 3915
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.6000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.5500 m.
lambda = 0.800
a = lambda * x = 0.090 m.
eta = 0.900
Cc = eta*fcd*b*a = 1.3535 kN.
M_Rd = Cc*(d-a/2) = 683.3668 kN-m./m.

```

-. Information of Moments and Result.
Rein. Bar : P20 @100
As_req = 0.0023 m^2/m. ( 0.0023 m^2/m.)
M_Ed = 494.2989 kN-m./m.
M_Rd = 683.3668 kN-m./m.
RatM = M_Ed / M_Rd = 0.723 < 1.0 ---> O.K !

```

```

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.151

```

```

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN S-WAFFLE +1.50-[4], Dir 2.
=====

```

```

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```

<< BOTTOM >>

```

-. Information of Parameters.

```

```

Elem No. : 3941
LCB No. : 40+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.6000 m.
Covering : dB = 0.0500 m.
           dT = 0.0500 m.

```

```

-. Information of Design.

```

```

b = 0.0010 m. (by Code Unit Length).
d = 0.5500 m.
lambda = 0.800
a = lambda * x = 0.044 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.6639 kN.
M_Rd = Cc*(d-a/2) = 350.4363 kN-m./m.

```

```

-. Information of Moments and Result.

```

```

Rein. Bar : P14 @100
As_req = 0.0015 m^2/m. ( 0.0015 m^2/m.)
M_Ed = 329.1591 kN-m./m.
M_Rd = 350.4363 kN-m./m.
RatM = M_Ed / M_Rd = 0.939 < 1.0 ---> O.K !

```

```

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.101

```

<< TOP >>

```

-. Information of Parameters.

```

```

Elem No. : 3947
LCB No. : 44+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.6000 m.
Covering : dB = 0.0500 m.
           dT = 0.0500 m.

```

```

-. Information of Design.

```

```

b = 0.0010 m. (by Code Unit Length).
d = 0.5500 m.
lambda = 0.800
a = lambda * x = 0.090 m.
eta = 0.900
Cc = eta*fcd*b*a = 1.3535 kN.
M_Rd = Cc*(d-a/2) = 683.3668 kN-m./m.

```

-. Information of Moments and Result.

Rein. Bar : P20 @100
As_req = 0.0026 m²/m. (0.0026 m²/m.)
M_Ed = 552.9636 kN-m./m.
M_Rd = 683.3668 kN-m./m.
RatM = M_Ed / M_Rd = 0.809 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.169

[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STAIRS-2-[3], Dir 2.

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 6067
LCB No. : 37+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.016 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.2443 kN.
M_Rd = Cc*(d-a/2) = 34.6604 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P12 @200
As_req = 0.0006 m²/m. (0.0006 m²/m.)
M_Ed = 32.7800 kN-m./m.
M_Rd = 34.6604 kN-m./m.
RatM = M_Ed / M_Rd = 0.946 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.135

<< TOP >>

-. Information of Parameters.

Elem No. : 6065
LCB No. : 40+

Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.015 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.2285 kN.
M_Rd = Cc*(d-a/2) = 32.5367 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @150
As_req = 0.0005 m²/m. (0.0005 m²/m.)
M_Ed = 31.9420 kN-m./m.
M_Rd = 32.5367 kN-m./m.
RatM = M_Ed / M_Rd = 0.982 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.131

[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STAIRS-2-[4], Dir 2.

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 6069
LCB No. : 39+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.033 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.4887 kN.
M_Rd = Cc*(d-a/2) = 65.3408 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P12 @100
As_req = 0.0010 m²/m. (0.0010 m²/m.)
M_Ed = 61.6171 kN-m./m.

M_Rd = 65.3408 kN-m./m.
RatM = M_Ed / M_Rd = 0.943 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.254

<< TOP >>

-. Information of Parameters.

Elem No. : 6069
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.029 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.4359 kN.
M_Rd = Cc*(d-a/2) = 59.0559 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P16 @200
As_req = 0.0008 m^2/m. (0.0008 m^2/m.)
M_Ed = 49.1575 kN-m./m.
M_Rd = 59.0559 kN-m./m.
RatM = M_Ed / M_Rd = 0.832 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.202

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STAIRS-2-[5], Dir 2.
=====

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 6075
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.


```

-----
-- Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.1500 m.
lambda = 0.800
a      = lambda * x = 0.015 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.2285 kN.
M_Rd  = Cc*(d-a/2) = 32.5367 kN-m./m.

-- Information of Moments and Result.
Rein. Bar : P10 @150
As_req = 0.0004 m^2/m. ( 0.0004 m^2/m.)
M_Ed   = 26.1969 kN-m./m.
M_Rd   = 32.5367 kN-m./m.
RatM   = M_Ed / M_Rd = 0.805 < 1.0 ---> O.K !

-- Check ratio of neutral axis depth to effective depth.
x/d    = 0.108

```

<< TOP >>

```

-- Information of Parameters.
Elem No. : 6071
LCB No.  : 44+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering  : dB = 0.0500 m.
           dT = 0.0500 m.

-- Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.1500 m.
lambda = 0.800
a      = lambda * x = 0.011 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.1705 kN.
M_Rd  = Cc*(d-a/2) = 24.6071 kN-m./m.

-- Information of Moments and Result.
Rein. Bar : P10 @200
As_req = 0.0003 m^2/m. ( 0.0003 m^2/m.)
M_Ed   = 16.4175 kN-m./m.
M_Rd   = 24.6071 kN-m./m.
RatM   = M_Ed / M_Rd = 0.667 < 1.0 ---> O.K !

-- Check ratio of neutral axis depth to effective depth.
x/d    = 0.068

```

```

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STAIRS-2-[6], Dir 2.
=====

```

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 6082
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.029 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.4359 kN.
M_Rd = Cc*(d-a/2) = 59.0559 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P16 @200
As_req = 0.0009 m²/m. (0.0009 m²/m.)
M_Ed = 51.2428 kN-m./m.
M_Rd = 59.0559 kN-m./m.
RatM = M_Ed / M_Rd = 0.868 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.211

<< TOP >>

-. Information of Parameters.

Elem No. : 6082
LCB No. : 44+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.015 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.2285 kN.
M_Rd = Cc*(d-a/2) = 32.5367 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @150
As_req = 0.0005 m²/m. (0.0005 m²/m.)
M_Ed = 30.2583 kN-m./m.
M_Rd = 32.5367 kN-m./m.
RatM = M_Ed / M_Rd = 0.930 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.125

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STAIRS-2-[7], Dir 2.
=====

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 6084
LCB No. : 44+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.029 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.4359 kN.
M_Rd = Cc*(d-a/2) = 59.0559 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P16 @200
As_req = 0.0010 m²/m. (0.0010 m²/m.)
M_Ed = 55.8974 kN-m./m.
M_Rd = 59.0559 kN-m./m.
RatM = M_Ed / M_Rd = 0.947 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.230

<< TOP >>

-. Information of Parameters.

Elem No. : 6084
LCB No. : 44+

Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.023 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.3410 kN.
M_Rd = Cc*(d-a/2) = 47.2760 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @100
As_req = 0.0008 m²/m. (0.0008 m²/m.)
M_Ed = 46.3948 kN-m./m.
M_Rd = 47.2760 kN-m./m.
RatM = M_Ed / M_Rd = 0.981 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.191

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STAIRS-2-[8], Dir 2.
=====

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 6088
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1705 kN.
M_Rd = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0003 m²/m. (0.0003 m²/m.)
M_Ed = 19.0072 kN-m./m.

```
M_Rd = 24.6071 kN-m./m.
RatM = M_Ed / M_Rd = 0.772 < 1.0 ---> O.K !
```

```
-. Check ratio of neutral axis depth to effective depth.
x/d = 0.078
```

<< TOP >>

-. Information of Parameters.

```
Elem No. : 6086
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
           dT = 0.0500 m.
```

-. Information of Design.

```
b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.015 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.2285 kN.
M_Rd = Cc*(d-a/2) = 32.5367 kN-m./m.
```

-. Information of Moments and Result.

```
Rein. Bar : P10 @150
As_req = 0.0005 m^2/m. ( 0.0005 m^2/m.)
M_Ed = 26.6318 kN-m./m.
M_Rd = 32.5367 kN-m./m.
RatM = M_Ed / M_Rd = 0.819 < 1.0 ---> O.K !
```

```
-. Check ratio of neutral axis depth to effective depth.
x/d = 0.110
```

```
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STAIRS-2-[9], Dir 2.
```

<< BOTTOM >>

-. Information of Parameters.

```
Elem No. : 6093
LCB No. : 38+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
           dT = 0.0500 m.
```

```
-----
-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.1500 m.
lambda = 0.800
a      = lambda * x = 0.011 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.1705 kN.
M_Rd  = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P10 @200
As_req = 0.0003 m^2/m. ( 0.0003 m^2/m.)
M_Ed   = 14.6987 kN-m./m.
M_Rd   = 24.6071 kN-m./m.
RatM   = M_Ed / M_Rd = 0.597 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.060
```

<< TOP >>

```
-. Information of Parameters.
Elem No. : 6092
LCB No.  : 38+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering  : dB = 0.0500 m.
           dT = 0.0500 m.
```

```
-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.1500 m.
lambda = 0.800
a      = lambda * x = 0.011 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.1705 kN.
M_Rd  = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P10 @200
As_req = 0.0002 m^2/m. ( 0.0002 m^2/m.)
M_Ed   = 12.6014 kN-m./m.
M_Rd   = 24.6071 kN-m./m.
RatM   = M_Ed / M_Rd = 0.512 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.052
```

```
=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STAIRS-2-[10], Dir 2.
=====
```

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 6099
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.033 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.4887 kN.
M_Rd = Cc*(d-a/2) = 65.3408 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P12 @100
As_req = 0.0011 m²/m. (0.0011 m²/m.)
M_Ed = 63.6444 kN-m./m.
M_Rd = 65.3408 kN-m./m.
RatM = M_Ed / M_Rd = 0.974 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.262

<< TOP >>

-. Information of Parameters.

Elem No. : 6098
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.039 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.5801 kN.
M_Rd = Cc*(d-a/2) = 75.7954 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P16 @150
As_req = 0.0012 m²/m. (0.0012 m²/m.)
M_Ed = 72.2081 kN-m./m.
M_Rd = 75.7954 kN-m./m.
RatM = M_Ed / M_Rd = 0.953 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.297

[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STAIRS-2-[11], Dir 2.

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 6101
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.078 m.
eta = 0.900
Cc = eta*fcd*b*a = 1.1707 kN.
M_Rd = Cc*(d-a/2) = 129.9206 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P20 @100
As_req = 0.0021 m²/m. (0.0021 m²/m.)
M_Ed = 120.5823 kN-m./m.
M_Rd = 129.9206 kN-m./m.
RatM = M_Ed / M_Rd = 0.928 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.496

<< TOP >>

-. Information of Parameters.

Elem No. : 6101
LCB No. : 43+

Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.078 m.
eta = 0.900
Cc = eta*fcd*b*a = 1.1707 kN.
M_Rd = Cc*(d-a/2) = 129.9206 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P20 @100
As_req = 0.0019 m²/m. (0.0019 m²/m.)
M_Ed = 114.0663 kN-m./m.
M_Rd = 129.9206 kN-m./m.
RatM = M_Ed / M_Rd = 0.878 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.469

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STAIRS-2-[12], Dir 2.
=====

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 6104
LCB No. : 38+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1705 kN.
M_Rd = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0002 m²/m. (0.0002 m²/m.)
M_Ed = 2.0147 kN-m./m.

```
M_Rd = 24.6071 kN-m./m.
RatM = M_Ed / M_Rd = 0.082 < 1.0 ---> O.K !
```

```
-. Check ratio of neutral axis depth to effective depth.
x/d = 0.048
```

<< TOP >>

-. Information of Parameters.

```
Elem No. : 6106
LCB No. : 40+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
           dT = 0.0500 m.
```

-. Information of Design.

```
b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1705 kN.
M_Rd = Cc*(d-a/2) = 24.6071 kN-m./m.
```

-. Information of Moments and Result.

```
Rein. Bar : P10 @200
As_req = 0.0004 m^2/m. ( 0.0004 m^2/m.)
M_Ed = 24.4640 kN-m./m.
M_Rd = 24.6071 kN-m./m.
RatM = M_Ed / M_Rd = 0.994 < 1.0 ---> O.K !
```

```
-. Check ratio of neutral axis depth to effective depth.
x/d = 0.101
```

```
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STAIRS-2-[13], Dir 2.
```

<< BOTTOM >>

-. Information of Parameters.

```
Elem No. : 6111
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
           dT = 0.0500 m.
```

```
-----
-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.1500 m.
lambda = 0.800
a      = lambda * x = 0.011 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.1705 kN.
M_Rd  = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P10 @200
As_req = 0.0004 m^2/m. ( 0.0004 m^2/m.)
M_Ed   = 23.7111 kN-m./m.
M_Rd   = 24.6071 kN-m./m.
RatM   = M_Ed / M_Rd = 0.964 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.098
```

<< TOP >>

```
-. Information of Parameters.
Elem No. : 6110
LCB No.  : 38+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering  : dB = 0.0500 m.
           dT = 0.0500 m.

-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.1500 m.
lambda = 0.800
a      = lambda * x = 0.011 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.1705 kN.
M_Rd  = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P10 @200
As_req = 0.0003 m^2/m. ( 0.0003 m^2/m.)
M_Ed   = 19.5505 kN-m./m.
M_Rd   = 24.6071 kN-m./m.
RatM   = M_Ed / M_Rd = 0.795 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.080
```

```
=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STAIRS-2-[14], Dir 2.
=====
```

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 6116
LCB No. : 44+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1705 kN.
M_Rd = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0003 m²/m. (0.0003 m²/m.)
M_Ed = 16.8617 kN-m./m.
M_Rd = 24.6071 kN-m./m.
RatM = M_Ed / M_Rd = 0.685 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.069

<< TOP >>

-. Information of Parameters.

Elem No. : 6118
LCB No. : 44+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1705 kN.
M_Rd = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0004 m²/m. (0.0004 m²/m.)
M_Ed = 24.4240 kN-m./m.
M_Rd = 24.6071 kN-m./m.
RatM = M_Ed / M_Rd = 0.993 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.101

[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STAIRS-2-[15], Dir 2.

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 6122
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.029 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.4359 kN.
M_Rd = Cc*(d-a/2) = 59.0559 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P16 @200
As_req = 0.0009 m²/m. (0.0009 m²/m.)
M_Ed = 50.3830 kN-m./m.
M_Rd = 59.0559 kN-m./m.
RatM = M_Ed / M_Rd = 0.853 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.207

<< TOP >>

-. Information of Parameters.

Elem No. : 6121
LCB No. : 43+

```

Materials : fck = 25000.0000 KPa.
            fcd = 16666.6667 KPa.
            fyk = 500000.0000 KPa.
Thickness  : 0.2000 m.
Covering   : dB = 0.0500 m.
            dT = 0.0500 m.

```

-. Information of Design.

```

b          = 0.0010 m. (by Code Unit Length).
d          = 0.1500 m.
lambda    = 0.800
a          = lambda * x = 0.011 m.
eta       = 0.900
Cc        = eta*fcd*b*a = 0.1705 kN.
M_Rd     = Cc*(d-a/2) = 24.6071 kN-m./m.

```

-. Information of Moments and Result.

```

Rein. Bar : P10 @200
As_req = 0.0004 m^2/m. ( 0.0004 m^2/m.)
M_Ed = 23.4798 kN-m./m.
M_Rd = 24.6071 kN-m./m.
RatM = M_Ed / M_Rd = 0.954 < 1.0 ---> O.K !

```

-. Check ratio of neutral axis depth to effective depth.

```

x/d = 0.097

```

```

[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STAIRS-2-[16], Dir 2.

```

<< BOTTOM >>

-. Information of Parameters.

```

Elem No. : 6124
LCB No. : 44+
Materials : fck = 25000.0000 KPa.
            fcd = 16666.6667 KPa.
            fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering   : dB = 0.0500 m.
            dT = 0.0500 m.

```

-. Information of Design.

```

b          = 0.0010 m. (by Code Unit Length).
d          = 0.1500 m.
lambda    = 0.800
a          = lambda * x = 0.015 m.
eta       = 0.900
Cc        = eta*fcd*b*a = 0.2285 kN.
M_Rd     = Cc*(d-a/2) = 32.5367 kN-m./m.

```

-. Information of Moments and Result.

```

Rein. Bar : P10 @150
As_req = 0.0004 m^2/m. ( 0.0004 m^2/m.)
M_Ed = 25.7306 kN-m./m.

```

M_Rd = 32.5367 kN-m./m.
RatM = M_Ed / M_Rd = 0.791 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.106

<< TOP >>

-. Information of Parameters.

Elem No. : 6124
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1705 kN.
M_Rd = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0004 m^2/m. (0.0004 m^2/m.)
M_Ed = 21.5663 kN-m./m.
M_Rd = 24.6071 kN-m./m.
RatM = M_Ed / M_Rd = 0.876 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.089

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STAIRS-2-[17], Dir 2.
=====

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 6126
LCB No. : 40+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

```
-----
-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.1500 m.
lambda = 0.800
a      = lambda * x = 0.011 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.1705 kN.
M_Rd   = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P10 @200
As_req = 0.0002 m^2/m. ( 0.0002 m^2/m.)
M_Ed   = 14.1266 kN-m./m.
M_Rd   = 24.6071 kN-m./m.
RatM   = M_Ed / M_Rd = 0.574 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.058
```

<< TOP >>

```
-. Information of Parameters.
Elem No. : 6128
LCB No.  : 39+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering  : dB = 0.0500 m.
           dT = 0.0500 m.
```

```
-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.1500 m.
lambda = 0.800
a      = lambda * x = 0.039 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.5801 kN.
M_Rd   = Cc*(d-a/2) = 75.7954 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P16 @150
As_req = 0.0012 m^2/m. ( 0.0012 m^2/m.)
M_Ed   = 70.8383 kN-m./m.
M_Rd   = 75.7954 kN-m./m.
RatM   = M_Ed / M_Rd = 0.935 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.292
```

```
=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STAIRS-2-[18], Dir 2.
=====
```


<< BOTTOM >>

-. Information of Parameters.

Elem No. : 6135
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1705 kN.
M_Rd = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0002 m²/m. (0.0002 m²/m.)
M_Ed = 11.8859 kN-m./m.
M_Rd = 24.6071 kN-m./m.
RatM = M_Ed / M_Rd = 0.483 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.049

<< TOP >>

-. Information of Parameters.

Elem No. : 6134
LCB No. : 38+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.015 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.2285 kN.
M_Rd = Cc*(d-a/2) = 32.5367 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @150
As_req = 0.0005 m²/m. (0.0005 m²/m.)
M_Ed = 28.3638 kN-m./m.
M_Rd = 32.5367 kN-m./m.
RatM = M_Ed / M_Rd = 0.872 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.117

[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STAIRS-2-[19], Dir 2.

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 6137
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.016 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.2443 kN.
M_Rd = Cc*(d-a/2) = 34.6604 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P12 @200
As_req = 0.0006 m²/m. (0.0006 m²/m.)
M_Ed = 33.8722 kN-m./m.
M_Rd = 34.6604 kN-m./m.
RatM = M_Ed / M_Rd = 0.977 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.139

<< TOP >>

-. Information of Parameters.

Elem No. : 6138
LCB No. : 43+

Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.033 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.4887 kN.
M_Rd = Cc*(d-a/2) = 65.3408 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P12 @100
As_req = 0.0011 m²/m. (0.0011 m²/m.)
M_Ed = 64.6945 kN-m./m.
M_Rd = 65.3408 kN-m./m.
RatM = M_Ed / M_Rd = 0.990 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.266

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STAIRS-2-[20], Dir 2.
=====

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 6143
LCB No. : 40+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1705 kN.
M_Rd = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0003 m²/m. (0.0003 m²/m.)
M_Ed = 20.5174 kN-m./m.

```
M_Rd = 24.6071 kN-m./m.
RatM = M_Ed / M_Rd = 0.834 < 1.0 ---> O.K !
```

```
-. Check ratio of neutral axis depth to effective depth.
x/d = 0.084
```

<< TOP >>

-. Information of Parameters.

```
Elem No. : 6142
LCB No. : 44+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
          dT = 0.0500 m.
```

-. Information of Design.

```
b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1705 kN.
M_Rd = Cc*(d-a/2) = 24.6071 kN-m./m.
```

-. Information of Moments and Result.

```
Rein. Bar : P10 @200
As_req = 0.0003 m^2/m. ( 0.0003 m^2/m.)
M_Ed = 19.6894 kN-m./m.
M_Rd = 24.6071 kN-m./m.
RatM = M_Ed / M_Rd = 0.800 < 1.0 ---> O.K !
```

```
-. Check ratio of neutral axis depth to effective depth.
x/d = 0.081
```

```
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STAIRS-2-[21], Dir 2.
```

<< BOTTOM >>

-. Information of Parameters.

```
Elem No. : 6147
LCB No. : 40+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
          dT = 0.0500 m.
```

```
-----
-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.1500 m.
lambda = 0.800
a      = lambda * x = 0.015 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.2285 kN.
M_Rd  = Cc*(d-a/2) = 32.5367 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P10 @150
As_req = 0.0005 m^2/m. ( 0.0005 m^2/m.)
M_Ed   = 28.1642 kN-m./m.
M_Rd   = 32.5367 kN-m./m.
RatM   = M_Ed / M_Rd = 0.866 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.116
```

<< TOP >>

```
-. Information of Parameters.
Elem No. : 6146
LCB No.  : 40+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering  : dB = 0.0500 m.
           dT = 0.0500 m.
```

```
-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.1500 m.
lambda = 0.800
a      = lambda * x = 0.058 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.8719 kN.
M_Rd  = Cc*(d-a/2) = 105.4424 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P16 @100
As_req = 0.0018 m^2/m. ( 0.0018 m^2/m.)
M_Ed   = 103.9279 kN-m./m.
M_Rd   = 105.4424 kN-m./m.
RatM   = M_Ed / M_Rd = 0.986 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.428
```

```
=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STAIRS-2-[22], Dir 2.
=====
```

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 6153
LCB No. : 40+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1705 kN.
M_Rd = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0002 m²/m. (0.0002 m²/m.)
M_Ed = 13.8537 kN-m./m.
M_Rd = 24.6071 kN-m./m.
RatM = M_Ed / M_Rd = 0.563 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.057

<< TOP >>

-. Information of Parameters.

Elem No. : 6156
LCB No. : 39+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.029 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.4359 kN.
M_Rd = Cc*(d-a/2) = 59.0559 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P16 @200
As_req = 0.0009 m²/m. (0.0009 m²/m.)
M_Ed = 55.1632 kN-m./m.
M_Rd = 59.0559 kN-m./m.
RatM = M_Ed / M_Rd = 0.934 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.227

[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STAIRS-2-[23], Dir 2.

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 6160
LCB No. : 37+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1705 kN.
M_Rd = Cc*(d-a/2) = 24.6071 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0002 m²/m. (0.0002 m²/m.)
M_Ed = 7.5292 kN-m./m.
M_Rd = 24.6071 kN-m./m.
RatM = M_Ed / M_Rd = 0.306 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.048

<< TOP >>

-. Information of Parameters.

Elem No. : 6158
LCB No. : 39+

Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.1500 m.
lambda = 0.800
a = lambda * x = 0.015 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.2285 kN.
M_Rd = Cc*(d-a/2) = 32.5367 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @150
As_req = 0.0004 m²/m. (0.0004 m²/m.)
M_Ed = 25.4725 kN-m./m.
M_Rd = 32.5367 kN-m./m.
RatM = M_Ed / M_Rd = 0.783 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.105

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN RAMP-[1], Dir 2.
=====

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 6166
LCB No. : 40+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.


```
-----
-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.2000 m.
lambda = 0.800
a      = lambda * x = 0.015 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.2273 kN.
M_Rd  = Cc*(d-a/2) = 43.7459 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P10 @150
As_req = 0.0004 m^2/m. ( 0.0004 m^2/m.)
M_Ed   = 34.8402 kN-m./m.
M_Rd   = 43.7459 kN-m./m.
RatM   = M_Ed / M_Rd = 0.796 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.081
```

<< TOP >>

```
-. Information of Parameters.
Elem No. : 6171
LCB No.  : 40+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering  : dB = 0.0500 m.
           dT = 0.0500 m.
```

```
-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.2000 m.
lambda = 0.800
a      = lambda * x = 0.022 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.3258 kN.
M_Rd  = Cc*(d-a/2) = 61.6185 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P12 @150
As_req = 0.0006 m^2/m. ( 0.0006 m^2/m.)
M_Ed   = 49.7184 kN-m./m.
M_Rd   = 61.6185 kN-m./m.
RatM   = M_Ed / M_Rd = 0.807 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.115
```

```
=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN RAMP-[2], Dir 2.
=====
```

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 6183
LCB No. : 36+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.2000 m.
lambda = 0.800
a = lambda * x = 0.015 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.2273 kN.
M_Rd = Cc*(d-a/2) = 43.7459 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @150
As_req = 0.0006 m²/m. (0.0006 m²/m.)
M_Ed = 43.3061 kN-m./m.
M_Rd = 43.7459 kN-m./m.
RatM = M_Ed / M_Rd = 0.990 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.100

<< TOP >>

-. Information of Parameters.

Elem No. : 6185
LCB No. : 36+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.2000 m.
lambda = 0.800
a = lambda * x = 0.029 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.4359 kN.
M_Rd = Cc*(d-a/2) = 80.8528 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P16 @200
As_req = 0.0009 m²/m. (0.0009 m²/m.)
M_Ed = 71.1411 kN-m./m.
M_Rd = 80.8528 kN-m./m.
RatM = M_Ed / M_Rd = 0.880 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.165

[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN RAMP-[3], Dir 2.

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 6213
LCB No. : 40+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.2000 m.
lambda = 0.800
a = lambda * x = 0.016 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.2437 kN.
M_Rd = Cc*(d-a/2) = 46.7695 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P12 @200
As_req = 0.0006 m²/m. (0.0006 m²/m.)
M_Ed = 43.8066 kN-m./m.
M_Rd = 46.7695 kN-m./m.
RatM = M_Ed / M_Rd = 0.937 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.101

<< TOP >>

-. Information of Parameters.

Elem No. : 6205
LCB No. : 39+

Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.2000 m.
lambda = 0.800
a = lambda * x = 0.015 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.2273 kN.
M_Rd = Cc*(d-a/2) = 43.7459 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @150
As_req = 0.0005 m²/m. (0.0005 m²/m.)
M_Ed = 42.1984 kN-m./m.
M_Rd = 43.7459 kN-m./m.
RatM = M_Ed / M_Rd = 0.965 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.098

[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN RAMP-[4], Dir 2.

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 6291
LCB No. : 36+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.2000 m.
lambda = 0.800
a = lambda * x = 0.022 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.3258 kN.
M_Rd = Cc*(d-a/2) = 61.6185 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P12 @150
As_req = 0.0006 m²/m. (0.0006 m²/m.)
M_Ed = 46.7768 kN-m./m.

```
M_Rd = 61.6185 kN-m./m.
RatM = M_Ed / M_Rd = 0.759 < 1.0 ---> O.K !
```

```
-. Check ratio of neutral axis depth to effective depth.
x/d = 0.108
```

<< TOP >>

-. Information of Parameters.

```
Elem No. : 6301
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering : dB = 0.0500 m.
          dT = 0.0500 m.
```

-. Information of Design.

```
b = 0.0010 m. (by Code Unit Length).
d = 0.2000 m.
lambda = 0.800
a = lambda * x = 0.029 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.4359 kN.
M_Rd = Cc*(d-a/2) = 80.8528 kN-m./m.
```

-. Information of Moments and Result.

```
Rein. Bar : P16 @200
As_req = 0.0010 m^2/m. ( 0.0010 m^2/m.)
M_Ed = 78.2262 kN-m./m.
M_Rd = 80.8528 kN-m./m.
RatM = M_Ed / M_Rd = 0.968 < 1.0 ---> O.K !
```

```
-. Check ratio of neutral axis depth to effective depth.
x/d = 0.181
```

```
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN RAMP-[5], Dir 2.
```

<< BOTTOM >>

-. Information of Parameters.

```
Elem No. : 6307
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering : dB = 0.0500 m.
          dT = 0.0500 m.
```

```
-----
-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.2000 m.
lambda = 0.800
a      = lambda * x = 0.022 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.3258 kN.
M_Rd   = Cc*(d-a/2) = 61.6185 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P12 @150
As_req = 0.0007 m^2/m. ( 0.0007 m^2/m.)
M_Ed   = 58.3808 kN-m./m.
M_Rd   = 61.6185 kN-m./m.
RatM   = M_Ed / M_Rd = 0.947 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.135
```

<< TOP >>

```
-. Information of Parameters.
Elem No. : 6307
LCB No.  : 43+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering  : dB = 0.0500 m.
           dT = 0.0500 m.
```

```
-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.2000 m.
lambda = 0.800
a      = lambda * x = 0.029 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.4359 kN.
M_Rd   = Cc*(d-a/2) = 80.8528 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P16 @200
As_req = 0.0010 m^2/m. ( 0.0010 m^2/m.)
M_Ed   = 79.1340 kN-m./m.
M_Rd   = 80.8528 kN-m./m.
RatM   = M_Ed / M_Rd = 0.979 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.183
```

```
=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN RAMP-[6], Dir 2.
=====
```

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 6352
LCB No. : 40+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.2000 m.
lambda = 0.800
a = lambda * x = 0.015 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.2273 kN.
M_Rd = Cc*(d-a/2) = 43.7459 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @150
As_req = 0.0004 m²/m. (0.0004 m²/m.)
M_Ed = 33.7318 kN-m./m.
M_Rd = 43.7459 kN-m./m.
RatM = M_Ed / M_Rd = 0.771 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.078

<< TOP >>

-. Information of Parameters.

Elem No. : 6340
LCB No. : 36+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.2000 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1711 kN.
M_Rd = Cc*(d-a/2) = 33.2430 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0004 m²/m. (0.0004 m²/m.)
M_Ed = 28.0641 kN-m./m.
M_Rd = 33.2430 kN-m./m.
RatM = M_Ed / M_Rd = 0.844 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.065

[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN RAMP-[7], Dir 2.

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 6367
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.2000 m.
lambda = 0.800
a = lambda * x = 0.029 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.4359 kN.
M_Rd = Cc*(d-a/2) = 80.8528 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P16 @200
As_req = 0.0010 m²/m. (0.0010 m²/m.)
M_Ed = 78.4168 kN-m./m.
M_Rd = 80.8528 kN-m./m.
RatM = M_Ed / M_Rd = 0.970 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.182

<< TOP >>

-. Information of Parameters.

Elem No. : 6374
LCB No. : 43+


```
Materials : fck = 25000.0000 KPa.
            fcd = 16666.6667 KPa.
            fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering  : dB = 0.0500 m.
            dT = 0.0500 m.
```

-. Information of Design.

```
b = 0.0010 m. (by Code Unit Length).
d = 0.2000 m.
lambda = 0.800
a = lambda * x = 0.039 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.5813 kN.
M_Rd = Cc*(d-a/2) = 104.9883 kN-m./m.
```

-. Information of Moments and Result.

```
Rein. Bar : P16 @150
As_req = 0.0013 m^2/m. ( 0.0013 m^2/m.)
M_Ed = 98.5315 kN-m./m.
M_Rd = 104.9883 kN-m./m.
RatM = M_Ed / M_Rd = 0.938 < 1.0 ---> O.K !
```

-. Check ratio of neutral axis depth to effective depth.

```
x/d = 0.228
```

```
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN RAMP-[8], Dir 2.
```

<< BOTTOM >>

-. Information of Parameters.

```
Elem No. : 6391
LCB No. : 36+
Materials : fck = 25000.0000 KPa.
            fcd = 16666.6667 KPa.
            fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering  : dB = 0.0500 m.
            dT = 0.0500 m.
```

-. Information of Design.

```
b = 0.0010 m. (by Code Unit Length).
d = 0.2000 m.
lambda = 0.800
a = lambda * x = 0.044 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.6656 kN.
M_Rd = Cc*(d-a/2) = 118.3564 kN-m./m.
```

-. Information of Moments and Result.

```
Rein. Bar : P14 @100
As_req = 0.0014 m^2/m. ( 0.0014 m^2/m.)
M_Ed = 109.4547 kN-m./m.
```

```
M_Rd = 118.3564 kN-m./m.
RatM = M_Ed / M_Rd = 0.925 < 1.0 ---> O.K !
```

```
-. Check ratio of neutral axis depth to effective depth.
x/d = 0.253
```

<< TOP >>

-. Information of Parameters.

```
Elem No. : 6383
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
            fcd = 16666.6667 KPa.
            fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering : dB = 0.0500 m.
           dT = 0.0500 m.
```

-. Information of Design.

```
b = 0.0010 m. (by Code Unit Length).
d = 0.2000 m.
lambda = 0.800
a = lambda * x = 0.030 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.4453 kN.
M_Rd = Cc*(d-a/2) = 82.4524 kN-m./m.
```

-. Information of Moments and Result.

```
Rein. Bar : P14 @150
As_req = 0.0010 m^2/m. ( 0.0010 m^2/m.)
M_Ed = 81.5612 kN-m./m.
M_Rd = 82.4524 kN-m./m.
RatM = M_Ed / M_Rd = 0.989 < 1.0 ---> O.K !
```

```
-. Check ratio of neutral axis depth to effective depth.
x/d = 0.189
```

```
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN RAMP-[9], Dir 2.
```

<< BOTTOM >>

-. Information of Parameters.

```
Elem No. : 6496
LCB No. : 40+
Materials : fck = 25000.0000 KPa.
            fcd = 16666.6667 KPa.
            fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering : dB = 0.0500 m.
           dT = 0.0500 m.
```

```
-----
-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.2000 m.
lambda = 0.800
a      = lambda * x = 0.016 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.2437 kN.
M_Rd  = Cc*(d-a/2) = 46.7695 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P12 @200
As_req = 0.0006 m^2/m. ( 0.0006 m^2/m.)
M_Ed   = 44.8015 kN-m./m.
M_Rd   = 46.7695 kN-m./m.
RatM   = M_Ed / M_Rd = 0.958 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.104
```

<< TOP >>

```
-. Information of Parameters.
Elem No. : 6518
LCB No.  : 43+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering  : dB = 0.0500 m.
           dT = 0.0500 m.
```

```
-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.2000 m.
lambda = 0.800
a      = lambda * x = 0.029 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.4359 kN.
M_Rd  = Cc*(d-a/2) = 80.8528 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P16 @200
As_req = 0.0008 m^2/m. ( 0.0008 m^2/m.)
M_Ed   = 65.5868 kN-m./m.
M_Rd   = 80.8528 kN-m./m.
RatM   = M_Ed / M_Rd = 0.811 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.152
```

```
=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN RAMP-[10], Dir 2.
=====
```

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 6534
LCB No. : 40+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.2000 m.
lambda = 0.800
a = lambda * x = 0.016 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.2437 kN.
M_Rd = Cc*(d-a/2) = 46.7695 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P12 @200
As_req = 0.0006 m²/m. (0.0006 m²/m.)
M_Ed = 44.7679 kN-m./m.
M_Rd = 46.7695 kN-m./m.
RatM = M_Ed / M_Rd = 0.957 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.104

<< TOP >>

-. Information of Parameters.

Elem No. : 6579
LCB No. : 44+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.2000 m.
lambda = 0.800
a = lambda * x = 0.030 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.4453 kN.
M_Rd = Cc*(d-a/2) = 82.4524 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P14 @150
As_req = 0.0010 m²/m. (0.0010 m²/m.)
M_Ed = 81.3936 kN-m./m.
M_Rd = 82.4524 kN-m./m.
RatM = M_Ed / M_Rd = 0.987 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.188

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN RAMP-[11], Dir 2.
=====

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 6613
LCB No. : 44+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.2000 m.
lambda = 0.800
a = lambda * x = 0.039 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.5813 kN.
M_Rd = Cc*(d-a/2) = 104.9883 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P16 @150
As_req = 0.0012 m²/m. (0.0012 m²/m.)
M_Ed = 96.1206 kN-m./m.
M_Rd = 104.9883 kN-m./m.
RatM = M_Ed / M_Rd = 0.916 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.223

<< TOP >>

-. Information of Parameters.

Elem No. : 6606
LCB No. : 44+

Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.2500 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.2000 m.
lambda = 0.800
a = lambda * x = 0.058 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.8719 kN.
M_Rd = Cc*(d-a/2) = 149.0361 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P16 @100
As_req = 0.0017 m²/m. (0.0017 m²/m.)
M_Ed = 131.7189 kN-m./m.
M_Rd = 149.0361 kN-m./m.
RatM = M_Ed / M_Rd = 0.884 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.305

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN FOUND-[6], Dir 2.
=====

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 9794
LCB No. : 40+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.7500 m.
lambda = 0.800
a = lambda * x = 0.055 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.8218 kN.
M_Rd = Cc*(d-a/2) = 593.8224 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P22 @200
As_req = 0.0018 m²/m. (0.0018 m²/m.)
M_Ed = 516.3345 kN-m./m.

```
M_Rd = 593.8224 kN-m./m.
RatM = M_Ed / M_Rd = 0.870 < 1.0 ---> O.K !
```

```
-. Check ratio of neutral axis depth to effective depth.
x/d = 0.085
```

<< TOP >>

-. Information of Parameters.

```
Elem No. : 9782
LCB No. : 44+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering : dB = 0.0500 m.
          dT = 0.0500 m.
```

-. Information of Design.

```
b = 0.0010 m. (by Code Unit Length).
d = 0.7500 m.
lambda = 0.800
a = lambda * x = 0.039 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.5801 kN.
M_Rd = Cc*(d-a/2) = 423.8422 kN-m./m.
```

-. Information of Moments and Result.

```
Rein. Bar : P16 @150
As_req = 0.0012 m^2/m. ( 0.0012 m^2/m.)
M_Ed = 345.4949 kN-m./m.
M_Rd = 423.8422 kN-m./m.
RatM = M_Ed / M_Rd = 0.815 < 1.0 ---> O.K !
```

```
-. Check ratio of neutral axis depth to effective depth.
x/d = 0.057
```

```
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN FOUND-[7], Dir 2.
```

<< BOTTOM >>

-. Information of Parameters.

```
Elem No. : 9838
LCB No. : 40+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering : dB = 0.0500 m.
          dT = 0.0500 m.
```

```
-----
-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.7500 m.
lambda = 0.800
a      = lambda * x = 0.055 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.8218 kN.
M_Rd  = Cc*(d-a/2) = 593.8224 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P22 @200
As_req = 0.0020 m^2/m. ( 0.0020 m^2/m.)
M_Ed   = 591.7323 kN-m./m.
M_Rd   = 593.8224 kN-m./m.
RatM   = M_Ed / M_Rd = 0.996 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.097
```

<< TOP >>

```
-. Information of Parameters.
Elem No. : 9832
LCB No.  : 44+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering  : dB = 0.0500 m.
           dT = 0.0500 m.
```

```
-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.7500 m.
lambda = 0.800
a      = lambda * x = 0.039 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.5801 kN.
M_Rd  = Cc*(d-a/2) = 423.8422 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P16 @150
As_req = 0.0012 m^2/m. ( 0.0012 m^2/m.)
M_Ed   = 344.3699 kN-m./m.
M_Rd   = 423.8422 kN-m./m.
RatM   = M_Ed / M_Rd = 0.812 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.057
```

```
=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN FOUND-[8], Dir 2.
=====
```


<< BOTTOM >>

-. Information of Parameters.

Elem No. : 9847
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.7500 m.
lambda = 0.800
a = lambda * x = 0.130 m.
eta = 0.900
Cc = eta*fcd*b*a = 1.9512 kN.
M_Rd = Cc*(d-a/2) = 1336.4765 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P24 @100
As_req = 0.0043 m²/m. (0.0043 m²/m.)
M_Ed = 1260.1626 kN-m./m.
M_Rd = 1336.4765 kN-m./m.
RatM = M_Ed / M_Rd = 0.943 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.207

<< TOP >>

-. Information of Parameters.

Elem No. : 9854
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.7500 m.
lambda = 0.800
a = lambda * x = 0.039 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.5801 kN.
M_Rd = Cc*(d-a/2) = 423.8422 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P16 @150
As_req = 0.0011 m²/m. (0.0011 m²/m.)
M_Ed = 333.7206 kN-m./m.
M_Rd = 423.8422 kN-m./m.
RatM = M_Ed / M_Rd = 0.787 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.055

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN FOUND-[10], Dir 2.
=====

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 9890
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.7500 m.
lambda = 0.800
a = lambda * x = 0.029 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.4351 kN.
M_Rd = Cc*(d-a/2) = 319.9847 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P16 @200
As_req = 0.0010 m²/m. (0.0010 m²/m.)
M_Ed = 302.7724 kN-m./m.
M_Rd = 319.9847 kN-m./m.
RatM = M_Ed / M_Rd = 0.946 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.050

<< TOP >>

-. Information of Parameters.

Elem No. : 9889
LCB No. : 44+

```

Materials : fck = 25000.0000 KPa.
            fcd = 16666.6667 KPa.
            fyk = 500000.0000 KPa.
Thickness  : 0.8000 m.
Covering   : dB = 0.0500 m.
            dT = 0.0500 m.

```

-. Information of Design.

```

b          = 0.0010 m. (by Code Unit Length).
d          = 0.7500 m.
lambda    = 0.800
a          = lambda * x = 0.029 m.
eta       = 0.900
Cc        = eta*fcd*b*a = 0.4351 kN.
M_Rd     = Cc*(d-a/2) = 319.9847 kN-m./m.

```

-. Information of Moments and Result.

```

Rein. Bar : P16 @200
As_req = 0.0010 m^2/m. ( 0.0010 m^2/m.)
M_Ed = 105.1942 kN-m./m.
M_Rd = 319.9847 kN-m./m.
RatM = M_Ed / M_Rd = 0.329 < 1.0 ---> O.K !

```

-. Check ratio of neutral axis depth to effective depth.

```

x/d = 0.048

```

```

[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN FOUND-[10], Dir 2.

```

<< TOP >>

-. Information of Parameters.

```

Elem No. : 9930
LCB No. : 44+
Materials : fck = 25000.0000 KPa.
            fcd = 16666.6667 KPa.
            fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering   : dB = 0.0500 m.
            dT = 0.0500 m.

```

-. Information of Design.

```

b          = 0.0010 m. (by Code Unit Length).
d          = 0.7500 m.
lambda    = 0.800
a          = lambda * x = 0.029 m.
eta       = 0.900
Cc        = eta*fcd*b*a = 0.4351 kN.
M_Rd     = Cc*(d-a/2) = 319.9847 kN-m./m.

```

-. Information of Moments and Result.

```

Rein. Bar : P16 @200
As_req = 0.0010 m^2/m. ( 0.0010 m^2/m.)
M_Ed = 296.8651 kN-m./m.
M_Rd = 319.9847 kN-m./m.
RatM = M_Ed / M_Rd = 0.928 < 1.0 ---> O.K !

```

-. Check ratio of neutral axis depth to effective depth.

```

x/d = 0.049

```

```

[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN FOUND-[11], Dir 2.

```

<< BOTTOM >>

-. Information of Parameters.

```

Elem No. : 9956
LCB No. : 39+
Materials : fck = 25000.0000 KPa.
            fcd = 16666.6667 KPa.

```

fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

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=====

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.7500 m.
lambda = 0.800
a = lambda * x = 0.087 m.
eta = 0.900
Cc = eta*fcd*b*a = 1.3008 kN.
M_Rd = Cc*(d-a/2) = 919.1849 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P24 @150
As_req = 0.0029 m²/m. (0.0029 m²/m.)
M_Ed = 848.3384 kN-m./m.
M_Rd = 919.1849 kN-m./m.
RatM = M_Ed / M_Rd = 0.923 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.140

<< TOP >>

-. Information of Parameters.

Elem No. : 9962
LCB NO. : 43+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.7500 m.
lambda = 0.800
a = lambda * x = 0.055 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.8218 kN.
M_Rd = Cc*(d-a/2) = 593.8224 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P22 @200
As_req = 0.0019 m²/m. (0.0019 m²/m.)
M_Ed = 571.2856 kN-m./m.
M_Rd = 593.8224 kN-m./m.
RatM = M_Ed / M_Rd = 0.962 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.094

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN FOUND-[12], Dir 2.
=====

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 10158
LCB No. : 44+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.7500 m.
lambda = 0.800
a = lambda * x = 0.130 m.
eta = 0.900
Cc = eta*fcd*b*a = 1.9512 kN.
M_Rd = Cc*(d-a/2) = 1336.4765 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P24 @100
As_req = 0.0040 m²/m. (0.0040 m²/m.)
M_Ed = 1164.0970 kN-m./m.
M_Rd = 1336.4765 kN-m./m.
RatM = M_Ed / M_Rd = 0.871 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.192

<< TOP >>

-. Information of Parameters.

Elem No. : 10516
LCB No. : 38+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.7500 m.
lambda = 0.800
a = lambda * x = 0.055 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.8218 kN.
M_Rd = Cc*(d-a/2) = 593.8224 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P22 @200
As_req = 0.0018 m²/m. (0.0018 m²/m.)
M_Ed = 530.0405 kN-m./m.
M_Rd = 593.8224 kN-m./m.
RatM = M_Ed / M_Rd = 0.893 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.087

[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN FOUND-[13], Dir 2.

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 10629
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.7500 m.
lambda = 0.800
a = lambda * x = 0.130 m.
eta = 0.900
Cc = eta*fcd*b*a = 1.9512 kN.
M_Rd = Cc*(d-a/2) = 1336.4765 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P24 @100
As_req = 0.0045 m²/m. (0.0045 m²/m.)
M_Ed = 1317.6688 kN-m./m.
M_Rd = 1336.4765 kN-m./m.
RatM = M_Ed / M_Rd = 0.986 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.217

<< TOP >>

-. Information of Parameters.

Elem No. : 10638
LCB No. : 43+

Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.
b = 0.0010 m. (by Code Unit Length).
d = 0.7500 m.
lambda = 0.800
a = lambda * x = 0.045 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.6768 kN.
M_Rd = Cc*(d-a/2) = 492.3017 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P20 @200
As_req = 0.0015 m^2/m. (0.0015 m^2/m.)
M_Ed = 446.4526 kN-m./m.
M_Rd = 492.3017 kN-m./m.
RatM = M_Ed / M_Rd = 0.907 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.073

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN FOUND-[14], Dir 2.
=====

<< TOP >>

-. Information of Parameters.
Elem No. : 10648
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.
b = 0.0010 m. (by Code Unit Length).
d = 0.7500 m.
lambda = 0.800
a = lambda * x = 0.045 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.6768 kN.
M_Rd = Cc*(d-a/2) = 492.3017 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P20 @200
As_req = 0.0017 m^2/m. (0.0017 m^2/m.)
M_Ed = 490.2367 kN-m./m.
M_Rd = 492.3017 kN-m./m.
RatM = M_Ed / M_Rd = 0.996 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.081

<< TOP >>

-. Information of Parameters.
Elem No. : 10744
LCB No. : 39+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

```

-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.7500 m.
lambda = 0.800
a      = lambda * x = 0.039 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.5801 kN.
M_Rd  = Cc*(d-a/2) = 423.8422 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P16 @150
As_req = 0.0011 m^2/m. ( 0.0011 m^2/m.)
M_Ed   = 330.6055 kN-m./m.
M_Rd   = 423.8422 kN-m./m.
RatM   = M_Ed / M_Rd = 0.780 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.054

```

```

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN FOUND-[16], Dir 2.
=====

```

```

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```

-. Information of Parameters.
Elem No. : 10762
LCB No.  : 43+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering  : dB = 0.0500 m.
           dT = 0.0500 m.

-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.7500 m.
lambda = 0.800
a      = lambda * x = 0.130 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 1.9512 kN.
M_Rd  = Cc*(d-a/2) = 1336.4765 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P24 @100
As_req = 0.0039 m^2/m. ( 0.0039 m^2/m.)
M_Ed   = 1153.0588 kN-m./m.
M_Rd   = 1336.4765 kN-m./m.
RatM   = M_Ed / M_Rd = 0.863 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.190

```

<< TOP >>

```

-. Information of Parameters.
Elem No. : 10766
LCB No.  : 36+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering  : dB = 0.0500 m.
           dT = 0.0500 m.

-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.7500 m.
lambda = 0.800
a      = lambda * x = 0.039 m.

```


eta = 0.900
Cc = eta*fcd*b*a = 0.5801 kN.
M_Rd = Cc*(d-a/2) = 423.8422 kN-m./m.

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-. Information of Moments and Result.

Rein. Bar : P16 @150
As_req = 0.0011 m²/m. (0.0011 m²/m.)
M_Ed = 327.1072 kN-m./m.
M_Rd = 423.8422 kN-m./m.
RatM = M_Ed / M_Rd = 0.772 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.054

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN FOUND-[17], Dir 2.
=====

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 10863
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.7500 m.
lambda = 0.800
a = lambda * x = 0.073 m.
eta = 0.900
Cc = eta*fcd*b*a = 1.0986 kN.
M_Rd = Cc*(d-a/2) = 783.7415 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P22 @150
As_req = 0.0026 m²/m. (0.0026 m²/m.)
M_Ed = 748.7284 kN-m./m.
M_Rd = 783.7415 kN-m./m.
RatM = M_Ed / M_Rd = 0.955 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.123

<< TOP >>

-. Information of Parameters.

Elem No. : 10867
LCB No. : 44+

```

Materials : fck = 25000.0000 KPa.
            fcd = 16666.6667 KPa.
            fyk = 500000.0000 KPa.
Thickness  : 0.8000 m.
Covering   : dB = 0.0500 m.
            dT = 0.0500 m.

```

-. Information of Design.

```

b          = 0.0010 m. (by Code Unit Length).
d          = 0.7500 m.
lambda    = 0.800
a          = lambda * x = 0.029 m.
eta       = 0.900
Cc        = eta*fcd*b*a = 0.4351 kN.
M_Rd     = Cc*(d-a/2) = 319.9847 kN-m./m.

```

-. Information of Moments and Result.

```

Rein. Bar : P16 @200
As_req    = 0.0010 m^2/m. ( 0.0010 m^2/m.)
M_Ed     = 273.0462 kN-m./m.
M_Rd     = 319.9847 kN-m./m.
RatM     = M_Ed / M_Rd = 0.853 < 1.0 ---> O.K !

```

-. Check ratio of neutral axis depth to effective depth.

```

x/d      = 0.048

```

```

[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN FOUND-[18], Dir 2.

```

<< BOTTOM >>

-. Information of Parameters.

```

Elem No.  : 10950
LCB No.   : 36+
Materials : fck = 25000.0000 KPa.
            fcd = 16666.6667 KPa.
            fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering  : dB = 0.0500 m.
            dT = 0.0500 m.

```

-. Information of Design.

```

b          = 0.0010 m. (by Code Unit Length).
d          = 0.7500 m.
lambda    = 0.800
a          = lambda * x = 0.110 m.
eta       = 0.900
Cc        = eta*fcd*b*a = 1.6436 kN.
M_Rd     = Cc*(d-a/2) = 1142.6236 kN-m./m.

```

-. Information of Moments and Result.

```

Rein. Bar : P22 @100
As_req    = 0.0033 m^2/m. ( 0.0033 m^2/m.)
M_Ed     = 958.8574 kN-m./m.

```

```
M_Rd = 1142.6236 kN-m./m.
RatM = M_Ed / M_Rd = 0.839 < 1.0 ---> O.K !
```

```
-. Check ratio of neutral axis depth to effective depth.
x/d = 0.158
```

<< TOP >>

-. Information of Parameters.

```
Elem No. : 11028
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering : dB = 0.0500 m.
           dT = 0.0500 m.
```

-. Information of Design.

```
b = 0.0010 m. (by Code Unit Length).
d = 0.7500 m.
lambda = 0.800
a = lambda * x = 0.055 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.8218 kN.
M_Rd = Cc*(d-a/2) = 593.8224 kN-m./m.
```

-. Information of Moments and Result.

```
Rein. Bar : P22 @200
As_req = 0.0019 m^2/m. ( 0.0019 m^2/m.)
M_Ed = 550.6410 kN-m./m.
M_Rd = 593.8224 kN-m./m.
RatM = M_Ed / M_Rd = 0.927 < 1.0 ---> O.K !
```

```
-. Check ratio of neutral axis depth to effective depth.
x/d = 0.091
```

```
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN FOUND-[19], Dir 2.
```

<< BOTTOM >>

-. Information of Parameters.

```
Elem No. : 11205
LCB No. : 39+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering : dB = 0.0500 m.
           dT = 0.0500 m.
```

```
-----
-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.7500 m.
lambda = 0.800
a      = lambda * x = 0.058 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.8701 kN.
M_Rd   = Cc*(d-a/2) = 627.3511 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P16 @100
As_req = 0.0021 m^2/m. ( 0.0021 m^2/m.)
M_Ed   = 619.3749 kN-m./m.
M_Rd   = 627.3511 kN-m./m.
RatM   = M_Ed / M_Rd = 0.987 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.102
```

<< TOP >>

```
-. Information of Parameters.
Elem No. : 11213
LCB No.  : 43+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering  : dB = 0.0500 m.
           dT = 0.0500 m.
```

```
-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.7500 m.
lambda = 0.800
a      = lambda * x = 0.055 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.8218 kN.
M_Rd   = Cc*(d-a/2) = 593.8224 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P22 @200
As_req = 0.0017 m^2/m. ( 0.0017 m^2/m.)
M_Ed   = 494.9409 kN-m./m.
M_Rd   = 593.8224 kN-m./m.
RatM   = M_Ed / M_Rd = 0.833 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.081
```

```
=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN FOUND-[20], Dir 2.
=====
```

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 11282
LCB No. : 36+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.7500 m.
lambda = 0.800
a = lambda * x = 0.110 m.
eta = 0.900
Cc = eta*fcd*b*a = 1.6436 kN.
M_Rd = Cc*(d-a/2) = 1142.6236 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P22 @100
As_req = 0.0034 m²/m. (0.0034 m²/m.)
M_Ed = 1007.4879 kN-m./m.
M_Rd = 1142.6236 kN-m./m.
RatM = M_Ed / M_Rd = 0.882 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.166

<< TOP >>

-. Information of Parameters.

Elem No. : 11283
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.7500 m.
lambda = 0.800
a = lambda * x = 0.029 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.4351 kN.
M_Rd = Cc*(d-a/2) = 319.9847 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P16 @200
As_req = 0.0010 m²/m. (0.0010 m²/m.)
M_Ed = 250.4487 kN-m./m.
M_Rd = 319.9847 kN-m./m.
RatM = M_Ed / M_Rd = 0.783 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.048

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN FOUND-[21], Dir 2.
=====

<< BOTTOM >>

-. Information of Parameters.
Elem No. : 11379
LCB No. : 44+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.
b = 0.0010 m. (by Code Unit Length).
d = 0.7500 m.
lambda = 0.800
a = lambda * x = 0.073 m.
eta = 0.900
Cc = eta*fcd*b*a = 1.0986 kN.
M_Rd = Cc*(d-a/2) = 783.7415 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P22 @150
As_req = 0.0025 m²/m. (0.0025 m²/m.)
M_Ed = 737.9899 kN-m./m.
M_Rd = 783.7415 kN-m./m.
RatM = M_Ed / M_Rd = 0.942 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.121

<< TOP >>

-. Information of Parameters.
Elem No. : 11380
LCB No. : 43+

Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.7500 m.
lambda = 0.800
a = lambda * x = 0.029 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.4351 kN.
M_Rd = Cc*(d-a/2) = 319.9847 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P16 @200
As_req = 0.0010 m²/m. (0.0010 m²/m.)
M_Ed = 110.9803 kN-m./m.
M_Rd = 319.9847 kN-m./m.
RatM = M_Ed / M_Rd = 0.347 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.048

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN FOUND-[22], Dir 2.
=====

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 11437
LCB No. : 44+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.7500 m.
lambda = 0.800
a = lambda * x = 0.110 m.
eta = 0.900
Cc = eta*fcd*b*a = 1.6436 kN.
M_Rd = Cc*(d-a/2) = 1142.6236 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P22 @100
As_req = 0.0034 m²/m. (0.0034 m²/m.)
M_Ed = 1007.5966 kN-m./m.

M_Rd = 1142.6236 kN-m./m.
RatM = M_Ed / M_Rd = 0.882 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.166

<< TOP >>

-. Information of Parameters.

Elem No. : 11394
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.7500 m.
lambda = 0.800
a = lambda * x = 0.029 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.4351 kN.
M_Rd = Cc*(d-a/2) = 319.9847 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P16 @200
As_req = 0.0010 m^2/m. (0.0010 m^2/m.)
M_Ed = 192.8043 kN-m./m.
M_Rd = 319.9847 kN-m./m.
RatM = M_Ed / M_Rd = 0.603 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.048

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN FOUND-[23], Dir 2.
=====

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 11468
LCB No. : 44+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.


```
-----
-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.7500 m.
lambda = 0.800
a      = lambda * x = 0.130 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 1.9512 kN.
M_Rd  = Cc*(d-a/2) = 1336.4765 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P24 @100
As_req = 0.0040 m^2/m. ( 0.0040 m^2/m.)
M_Ed   = 1176.9334 kN-m./m.
M_Rd   = 1336.4765 kN-m./m.
RatM   = M_Ed / M_Rd = 0.881 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.194
```

<< TOP >>

```
-. Information of Parameters.
Elem No. : 11468
LCB No.  : 43+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering  : dB = 0.0500 m.
           dT = 0.0500 m.
```

```
-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.7500 m.
lambda = 0.800
a      = lambda * x = 0.045 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.6768 kN.
M_Rd  = Cc*(d-a/2) = 492.3017 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P20 @200
As_req = 0.0015 m^2/m. ( 0.0015 m^2/m.)
M_Ed   = 426.5426 kN-m./m.
M_Rd   = 492.3017 kN-m./m.
RatM   = M_Ed / M_Rd = 0.866 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.070
```

```
=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN FOUND-[24], Dir 2.
=====
```

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 11515
LCB No. : 44+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.7500 m.
lambda = 0.800
a = lambda * x = 0.130 m.
eta = 0.900
Cc = eta*fcd*b*a = 1.9512 kN.
M_Rd = Cc*(d-a/2) = 1336.4765 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P24 @100
As_req = 0.0040 m²/m. (0.0040 m²/m.)
M_Ed = 1173.8363 kN-m./m.
M_Rd = 1336.4765 kN-m./m.
RatM = M_Ed / M_Rd = 0.878 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.193

<< TOP >>

-. Information of Parameters.

Elem No. : 11515
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.7500 m.
lambda = 0.800
a = lambda * x = 0.045 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.6768 kN.
M_Rd = Cc*(d-a/2) = 492.3017 kN-m./m.

```

-. Information of Moments and Result.
Rein. Bar : P20 @200
As_req = 0.0015 m^2/m. ( 0.0015 m^2/m.)
M_Ed = 439.3083 kN-m./m.
M_Rd = 492.3017 kN-m./m.
RatM = M_Ed / M_Rd = 0.892 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.072

```

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN FOUND-[25], Dir 2.
=====

<< BOTTOM >>

```

-. Information of Parameters.
Elem No. : 11540
LCB No. : 38+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering : dB = 0.0500 m.
           dT = 0.0500 m.

-. Information of Design.
b = 0.0010 m. (by Code Unit Length).
d = 0.7500 m.
lambda = 0.800
a = lambda * x = 0.065 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.9756 kN.
M_Rd = Cc*(d-a/2) = 699.9639 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P24 @200
As_req = 0.0022 m^2/m. ( 0.0022 m^2/m.)
M_Ed = 659.3318 kN-m./m.
M_Rd = 699.9639 kN-m./m.
RatM = M_Ed / M_Rd = 0.942 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.109

```

<< TOP >>

```

-. Information of Parameters.
Elem No. : 11551
LCB No. : 43+

```

```

Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering : dB = 0.0500 m.
           dT = 0.0500 m.

-. Information of Design.
b = 0.0010 m. (by Code Unit Length).
d = 0.7500 m.
lambda = 0.800
a = lambda * x = 0.029 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.4351 kN.
M_Rd = Cc*(d-a/2) = 319.9847 kN-m./m.

```

```

-. Information of Moments and Result.
Rein. Bar : P16 @200
As_req = 0.0010 m^2/m. ( 0.0010 m^2/m.)
M_Ed = 281.7214 kN-m./m.
M_Rd = 319.9847 kN-m./m.
RatM = M_Ed / M_Rd = 0.880 < 1.0 ---> O.K !

```

```

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.048

```

```

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN FOUND-[26], Dir 2.
=====

```

```
<< BOTTOM >>
```

```

-. Information of Parameters.
Elem No. : 11576
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering : dB = 0.0500 m.
          dT = 0.0500 m.

```

```

-. Information of Design.
b = 0.0010 m. (by Code Unit Length).
d = 0.7500 m.
lambda = 0.800
a = lambda * x = 0.060 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.9053 kN.
M_Rd = Cc*(d-a/2) = 651.6377 kN-m./m.

```

```

-. Information of Moments and Result.
Rein. Bar : P20 @150
As_req = 0.0022 m^2/m. ( 0.0022 m^2/m.)
M_Ed = 633.7750 kN-m./m.

```

```

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```

```

M_Rd = 651.6377 kN-m./m.
RatM = M_Ed / M_Rd = 0.973 < 1.0 ---> O.K !

```

```

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.104

```

```
<< TOP >>
```

```

-. Information of Parameters.
Elem No. : 11584
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering : dB = 0.0500 m.
          dT = 0.0500 m.

```

```

-. Information of Design.
b = 0.0010 m. (by Code Unit Length).
d = 0.7500 m.
lambda = 0.800
a = lambda * x = 0.029 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.4351 kN.
M_Rd = Cc*(d-a/2) = 319.9847 kN-m./m.

```

```

-. Information of Moments and Result.
Rein. Bar : P16 @200
As_req = 0.0010 m^2/m. ( 0.0010 m^2/m.)
M_Ed = 259.7079 kN-m./m.
M_Rd = 319.9847 kN-m./m.

```

RatM = $M_{Ed} / M_{Rd} = 0.812 < 1.0$ ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.048

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN FOUND-[27], Dir 2.
=====

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 11612
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

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=====

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.7500 m.
lambda = 0.800
a = lambda * x = 0.065 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.9756 kN.
M_Rd = Cc*(d-a/2) = 699.9639 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P24 @200
As_req = 0.0022 m²/m. (0.0022 m²/m.)
M_Ed = 653.7857 kN-m./m.
M_Rd = 699.9639 kN-m./m.
RatM = $M_{Ed} / M_{Rd} = 0.934 < 1.0$ ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.108

<< TOP >>

-. Information of Parameters.

Elem No. : 11626
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.7500 m.
lambda = 0.800
a = lambda * x = 0.029 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.4351 kN.
M_Rd = Cc*(d-a/2) = 319.9847 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P16 @200
As_req = 0.0010 m²/m. (0.0010 m²/m.)
M_Ed = 281.4790 kN-m./m.
M_Rd = 319.9847 kN-m./m.
RatM = $M_{Ed} / M_{Rd} = 0.880 < 1.0$ ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.048

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN FOUND-[28], Dir 2.
=====

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=====

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 11642
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.7500 m.
lambda = 0.800
a = lambda * x = 0.058 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.8701 kN.
M_Rd = Cc*(d-a/2) = 627.3511 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P16 @100
As_req = 0.0021 m²/m. (0.0021 m²/m.)
M_Ed = 619.9162 kN-m./m.
M_Rd = 627.3511 kN-m./m.
RatM = M_Ed / M_Rd = 0.988 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.102

<< TOP >>

-. Information of Parameters.

Elem No. : 11664
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.8000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.7500 m.
lambda = 0.800
a = lambda * x = 0.029 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.4351 kN.
M_Rd = Cc*(d-a/2) = 319.9847 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P16 @200
As_req = 0.0010 m²/m. (0.0010 m²/m.)
M_Ed = 276.9269 kN-m./m.
M_Rd = 319.9847 kN-m./m.
RatM = M_Ed / M_Rd = 0.865 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.048

[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN ANST-[1], Dir 2.

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 12031
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.5000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.4500 m.
lambda = 0.800
a = lambda * x = 0.022 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.3270 kN.
M_Rd = Cc*(d-a/2) = 143.5656 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P12 @150
As_req = 0.0006 m²/m. (0.0006 m²/m.)
M_Ed = 74.0894 kN-m./m.
M_Rd = 143.5656 kN-m./m.
RatM = M_Ed / M_Rd = 0.516 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.048

<< TOP >>

-. Information of Parameters.

Elem No. : 12031
LCB No. : 44+

Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.5000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.4500 m.
lambda = 0.800
a = lambda * x = 0.022 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.3270 kN.
M_Rd = Cc*(d-a/2) = 143.5656 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P12 @150
As_req = 0.0007 m²/m. (0.0007 m²/m.)
M_Ed = 126.2418 kN-m./m.
M_Rd = 143.5656 kN-m./m.
RatM = M_Ed / M_Rd = 0.879 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.058

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN ANST-[2], Dir 2.
=====

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 12040
LCB No. : 44+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.5000 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.4500 m.
lambda = 0.800
a = lambda * x = 0.022 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.3270 kN.
M_Rd = Cc*(d-a/2) = 143.5656 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P12 @150
As_req = 0.0006 m²/m. (0.0006 m²/m.)
M_Ed = 46.0429 kN-m./m.


```
M_Rd = 143.5656 kN-m./m.
RatM = M_Ed / M_Rd = 0.321 < 1.0 ---> O.K !
```

```
-. Check ratio of neutral axis depth to effective depth.
x/d = 0.048
```

<< TOP >>

-. Information of Parameters.

```
Elem No. : 12041
LCB No. : 43+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.5000 m.
Covering : dB = 0.0500 m.
           dT = 0.0500 m.
```

-. Information of Design.

```
b = 0.0010 m. (by Code Unit Length).
d = 0.4500 m.
lambda = 0.800
a = lambda * x = 0.029 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.4351 kN.
M_Rd = Cc*(d-a/2) = 189.4672 kN-m./m.
```

-. Information of Moments and Result.

```
Rein. Bar : P16 @200
As_req = 0.0009 m^2/m. ( 0.0009 m^2/m.)
M_Ed = 163.8221 kN-m./m.
M_Rd = 189.4672 kN-m./m.
RatM = M_Ed / M_Rd = 0.865 < 1.0 ---> O.K !
```

```
-. Check ratio of neutral axis depth to effective depth.
x/d = 0.075
```

```
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STEEL-[1], Dir 2.
```

<< BOTTOM >>

-. Information of Parameters.

```
Elem No. : 12146
LCB No. : 40+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.1200 m.
Covering : dB = 0.0500 m.
           dT = 0.0500 m.
```

```
-----
-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.0700 m.
lambda = 0.800
a      = lambda * x = 0.011 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.1706 kN.
M_Rd   = Cc*(d-a/2) = 10.9733 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P10 @200
As_req = 0.0003 m^2/m. ( 0.0003 m^2/m.)
M_Ed   = 8.9228 kN-m./m.
M_Rd   = 10.9733 kN-m./m.
RatM   = M_Ed / M_Rd = 0.813 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.169
```

<< TOP >>

```
-. Information of Parameters.
Elem No. : 12143
LCB No.  : 38+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.1200 m.
Covering  : dB = 0.0500 m.
           dT = 0.0500 m.
```

```
-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.0700 m.
lambda = 0.800
a      = lambda * x = 0.043 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.6480 kN.
M_Rd   = Cc*(d-a/2) = 31.3645 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P20 @100
As_req = 0.0011 m^2/m. ( 0.0011 m^2/m.)
M_Ed   = 30.9657 kN-m./m.
M_Rd   = 31.3645 kN-m./m.
RatM   = M_Ed / M_Rd = 0.987 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.585
```

```
=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STEEL-[2], Dir 2.
=====
```

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 12157
LCB No. : 40+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.1200 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.0700 m.
lambda = 0.800
a = lambda * x = 0.015 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.2280 kN.
M_Rd = Cc*(d-a/2) = 14.2298 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @150
As_req = 0.0004 m²/m. (0.0004 m²/m.)
M_Ed = 10.9763 kN-m./m.
M_Rd = 14.2298 kN-m./m.
RatM = M_Ed / M_Rd = 0.771 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.207

<< TOP >>

-. Information of Parameters.

Elem No. : 12151
LCB No. : 40+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.1200 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.0700 m.
lambda = 0.800
a = lambda * x = 0.033 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.4889 kN.
M_Rd = Cc*(d-a/2) = 26.2558 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P12 @100
As_req = 0.0009 m²/m. (0.0009 m²/m.)
M_Ed = 24.9310 kN-m./m.
M_Rd = 26.2558 kN-m./m.
RatM = M_Ed / M_Rd = 0.950 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.471

[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STEEL-[3], Dir 2.

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 12164
LCB No. : 40+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.1200 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.0700 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1706 kN.
M_Rd = Cc*(d-a/2) = 10.9733 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0004 m²/m. (0.0004 m²/m.)
M_Ed = 10.6556 kN-m./m.
M_Rd = 10.9733 kN-m./m.
RatM = M_Ed / M_Rd = 0.971 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.201

<< TOP >>

-. Information of Parameters.

Elem No. : 12165
LCB No. : 38+

```
Materials : fck = 25000.0000 KPa.
            fcd = 16666.6667 KPa.
            fyk = 500000.0000 KPa.
Thickness : 0.1200 m.
Covering  : dB = 0.0500 m.
            dT = 0.0500 m.
```

-. Information of Design.

```
b      = 0.0010 m. (by Code Unit Length).
d      = 0.0700 m.
lambda = 0.800
a      = lambda * x = 0.029 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.4331 kN.
M_Rd  = Cc*(d-a/2) = 24.0655 kN-m./m.
```

-. Information of Moments and Result.

```
Rein. Bar : P16 @200
As_req = 0.0008 m^2/m. ( 0.0008 m^2/m.)
M_Ed   = 20.9732 kN-m./m.
M_Rd   = 24.0655 kN-m./m.
RatM   = M_Ed / M_Rd = 0.872 < 1.0 ---> O.K !
```

-. Check ratio of neutral axis depth to effective depth.

```
x/d = 0.396
```

```
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STEEL-[4], Dir 2.
```

<< BOTTOM >>

-. Information of Parameters.

```
Elem No. : 12168
LCB No.  : 40+
Materials : fck = 25000.0000 KPa.
            fcd = 16666.6667 KPa.
            fyk = 500000.0000 KPa.
Thickness : 0.1200 m.
Covering  : dB = 0.0500 m.
            dT = 0.0500 m.
```

-. Information of Design.

```
b      = 0.0010 m. (by Code Unit Length).
d      = 0.0700 m.
lambda = 0.800
a      = lambda * x = 0.011 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.1706 kN.
M_Rd  = Cc*(d-a/2) = 10.9733 kN-m./m.
```

-. Information of Moments and Result.

```
Rein. Bar : P10 @200
As_req = 0.0004 m^2/m. ( 0.0004 m^2/m.)
M_Ed   = 10.3868 kN-m./m.
```

M_Rd = 10.9733 kN-m./m.
RatM = M_Ed / M_Rd = 0.947 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.196

<< TOP >>

-. Information of Parameters.

Elem No. : 12167
LCB No. : 38+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.1200 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.0700 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1706 kN.
M_Rd = Cc*(d-a/2) = 10.9733 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 9.3365e-005 m^2/m. (9.3365e-005 m^2/m.)
M_Ed = 1.7690 kN-m./m.
M_Rd = 10.9733 kN-m./m.
RatM = M_Ed / M_Rd = 0.161 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.048

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STEEL-[5], Dir 2.
=====

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 12180
LCB No. : 39+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.1200 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

```

-----
-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.0700 m.
lambda = 0.800
a      = lambda * x = 0.011 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.1706 kN.
M_Rd  = Cc*(d-a/2) = 10.9733 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P10 @200
As_req = 0.0004 m^2/m. ( 0.0004 m^2/m.)
M_Ed   = 9.8500 kN-m./m.
M_Rd   = 10.9733 kN-m./m.
RatM   = M_Ed / M_Rd = 0.898 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.186

```

<< TOP >>

```

-. Information of Parameters.
Elem No. : 12179
LCB No.  : 39+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.1200 m.
Covering  : dB = 0.0500 m.
           dT = 0.0500 m.

-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.0700 m.
lambda = 0.800
a      = lambda * x = 0.011 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.1706 kN.
M_Rd  = Cc*(d-a/2) = 10.9733 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P10 @200
As_req = 0.0001 m^2/m. ( 0.0001 m^2/m.)
M_Ed   = 3.6768 kN-m./m.
M_Rd   = 10.9733 kN-m./m.
RatM   = M_Ed / M_Rd = 0.335 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.069

```

```

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STEEL-[6], Dir 2.
=====

```

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 12189
LCB No. : 40+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.1200 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.0700 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1706 kN.
M_Rd = Cc*(d-a/2) = 10.9733 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0004 m²/m. (0.0004 m²/m.)
M_Ed = 10.9494 kN-m./m.
M_Rd = 10.9733 kN-m./m.
RatM = M_Ed / M_Rd = 0.998 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.207

<< TOP >>

-. Information of Parameters.

Elem No. : 12190
LCB No. : 36+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.1200 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.0700 m.
lambda = 0.800
a = lambda * x = 0.029 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.4331 kN.
M_Rd = Cc*(d-a/2) = 24.0655 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P16 @200
As_req = 0.0007 m²/m. (0.0007 m²/m.)
M_Ed = 20.1094 kN-m./m.
M_Rd = 24.0655 kN-m./m.
RatM = M_Ed / M_Rd = 0.836 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.380

[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STEEL-[7], Dir 2.

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 12193
LCB No. : 36+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.1200 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.0700 m.
lambda = 0.800
a = lambda * x = 0.015 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.2280 kN.
M_Rd = Cc*(d-a/2) = 14.2298 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @150
As_req = 0.0004 m²/m. (0.0004 m²/m.)
M_Ed = 11.0552 kN-m./m.
M_Rd = 14.2298 kN-m./m.
RatM = M_Ed / M_Rd = 0.777 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.209

<< TOP >>

-. Information of Parameters.

Elem No. : 12194
LCB No. : 40+

Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.1200 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.0700 m.
lambda = 0.800
a = lambda * x = 0.029 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.4331 kN.
M_Rd = Cc*(d-a/2) = 24.0655 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P16 @200
As_req = 0.0007 m²/m. (0.0007 m²/m.)
M_Ed = 20.2914 kN-m./m.
M_Rd = 24.0655 kN-m./m.
RatM = M_Ed / M_Rd = 0.843 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.383

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STEEL-[8], Dir 2.
=====

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 12201
LCB No. : 40+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.1200 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.0700 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1706 kN.
M_Rd = Cc*(d-a/2) = 10.9733 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0004 m²/m. (0.0004 m²/m.)
M_Ed = 9.7324 kN-m./m.

```
M_Rd = 10.9733 kN-m./m.
RatM = M_Ed / M_Rd = 0.887 < 1.0 ---> O.K !
```

```
-. Check ratio of neutral axis depth to effective depth.
x/d = 0.184
```

<< TOP >>

-. Information of Parameters.

```
Elem No. : 12199
LCB No. : 38+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.1200 m.
Covering : dB = 0.0500 m.
           dT = 0.0500 m.
```

-. Information of Design.

```
b = 0.0010 m. (by Code Unit Length).
d = 0.0700 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1706 kN.
M_Rd = Cc*(d-a/2) = 10.9733 kN-m./m.
```

-. Information of Moments and Result.

```
Rein. Bar : P10 @200
As_req = 0.0001 m^2/m. ( 0.0001 m^2/m.)
M_Ed = 2.8387 kN-m./m.
M_Rd = 10.9733 kN-m./m.
RatM = M_Ed / M_Rd = 0.259 < 1.0 ---> O.K !
```

```
-. Check ratio of neutral axis depth to effective depth.
x/d = 0.054
```

```
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STEEL-[9], Dir 2.
```

<< BOTTOM >>

-. Information of Parameters.

```
Elem No. : 12210
LCB No. : 39+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.1200 m.
Covering : dB = 0.0500 m.
           dT = 0.0500 m.
```

```
-----
-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.0700 m.
lambda = 0.800
a      = lambda * x = 0.011 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.1706 kN.
M_Rd  = Cc*(d-a/2) = 10.9733 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P10 @200
As_req = 0.0003 m^2/m. ( 0.0003 m^2/m.)
M_Ed   = 8.7934 kN-m./m.
M_Rd   = 10.9733 kN-m./m.
RatM   = M_Ed / M_Rd = 0.801 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.166
```

<< TOP >>

```
-. Information of Parameters.
Elem No. : 12211
LCB No.  : 44+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.1200 m.
Covering  : dB = 0.0500 m.
           dT = 0.0500 m.
```

```
-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.0700 m.
lambda = 0.800
a      = lambda * x = 0.011 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.1706 kN.
M_Rd  = Cc*(d-a/2) = 10.9733 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P10 @200
As_req = 9.3365e-005 m^2/m. ( 9.3365e-005 m^2/m.)
M_Ed   = 1.4858 kN-m./m.
M_Rd   = 10.9733 kN-m./m.
RatM   = M_Ed / M_Rd = 0.135 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.048
```

```
=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STEEL-[10], Dir 2.
=====
```

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 12219
LCB No. : 39+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.1200 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.0700 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1706 kN.
M_Rd = Cc*(d-a/2) = 10.9733 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0003 m²/m. (0.0003 m²/m.)
M_Ed = 7.4454 kN-m./m.
M_Rd = 10.9733 kN-m./m.
RatM = M_Ed / M_Rd = 0.679 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.141

<< TOP >>

-. Information of Parameters.

Elem No. : 12221
LCB No. : 39+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.1200 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.0700 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1706 kN.
M_Rd = Cc*(d-a/2) = 10.9733 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0003 m²/m. (0.0003 m²/m.)
M_Ed = 8.9226 kN-m./m.
M_Rd = 10.9733 kN-m./m.
RatM = M_Ed / M_Rd = 0.813 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.169

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STEEL-[11], Dir 2.
=====

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 12227
LCB No. : 39+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.1200 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.0700 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1706 kN.
M_Rd = Cc*(d-a/2) = 10.9733 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0003 m²/m. (0.0003 m²/m.)
M_Ed = 7.8110 kN-m./m.
M_Rd = 10.9733 kN-m./m.
RatM = M_Ed / M_Rd = 0.712 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.148

<< TOP >>

-. Information of Parameters.

Elem No. : 12230
LCB No. : 38+

```
Materials : fck = 25000.0000 KPa.
            fcd = 16666.6667 KPa.
            fyk = 500000.0000 KPa.
Thickness : 0.1200 m.
Covering  : dB = 0.0500 m.
            dT = 0.0500 m.
```

-. Information of Design.

```
b          = 0.0010 m. (by Code Unit Length).
d          = 0.0700 m.
lambda    = 0.800
a          = lambda * x = 0.011 m.
eta       = 0.900
Cc        = eta*fcd*b*a = 0.1706 kN.
M_Rd     = Cc*(d-a/2) = 10.9733 kN-m./m.
```

-. Information of Moments and Result.

```
Rein. Bar : P10 @200
As_req = 9.3365e-005 m^2/m. ( 9.3365e-005 m^2/m.)
M_Ed   = 2.4383 kN-m./m.
M_Rd   = 10.9733 kN-m./m.
RatM   = M_Ed / M_Rd = 0.222 < 1.0 ---> O.K !
```

-. Check ratio of neutral axis depth to effective depth.

```
x/d      = 0.048
```

```
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STEEL-[12], Dir 2.
```

<< BOTTOM >>

-. Information of Parameters.

```
Elem No. : 12238
LCB No.  : 38+
Materials : fck = 25000.0000 KPa.
            fcd = 16666.6667 KPa.
            fyk = 500000.0000 KPa.
Thickness : 0.1200 m.
Covering  : dB = 0.0500 m.
            dT = 0.0500 m.
```

-. Information of Design.

```
b          = 0.0010 m. (by Code Unit Length).
d          = 0.0700 m.
lambda    = 0.800
a          = lambda * x = 0.011 m.
eta       = 0.900
Cc        = eta*fcd*b*a = 0.1706 kN.
M_Rd     = Cc*(d-a/2) = 10.9733 kN-m./m.
```

-. Information of Moments and Result.

```
Rein. Bar : P10 @200
As_req = 0.0002 m^2/m. ( 0.0002 m^2/m.)
M_Ed   = 5.1071 kN-m./m.
```

```
M_Rd = 10.9733 kN-m./m.
RatM = M_Ed / M_Rd = 0.465 < 1.0 ---> O.K !
```

```
-. Check ratio of neutral axis depth to effective depth.
x/d = 0.097
```

<< TOP >>

-. Information of Parameters.

```
Elem No. : 12238
LCB No. : 40+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.1200 m.
Covering : dB = 0.0500 m.
           dT = 0.0500 m.
```

-. Information of Design.

```
b = 0.0010 m. (by Code Unit Length).
d = 0.0700 m.
lambda = 0.800
a = lambda * x = 0.022 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.3248 kN.
M_Rd = Cc*(d-a/2) = 19.2216 kN-m./m.
```

-. Information of Moments and Result.

```
Rein. Bar : P12 @150
As_req = 0.0006 m^2/m. ( 0.0006 m^2/m.)
M_Ed = 15.3031 kN-m./m.
M_Rd = 19.2216 kN-m./m.
RatM = M_Ed / M_Rd = 0.796 < 1.0 ---> O.K !
```

```
-. Check ratio of neutral axis depth to effective depth.
x/d = 0.289
```

```
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STEEL-[13], Dir 2.
```

<< BOTTOM >>

-. Information of Parameters.

```
Elem No. : 12244
LCB No. : 39+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.1200 m.
Covering : dB = 0.0500 m.
           dT = 0.0500 m.
```



```

-----
-. Information of Design.
  b      = 0.0010 m. (by Code Unit Length).
  d      = 0.0700 m.
  lambda = 0.800
  a      = lambda * x = 0.011 m.
  eta    = 0.900
  Cc     = eta*fcd*b*a = 0.1706 kN.
  M_Rd   = Cc*(d-a/2) = 10.9733 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P10 @200
As_req = 0.0002 m^2/m. ( 0.0002 m^2/m.)
M_Ed = 5.7994 kN-m./m.
M_Rd = 10.9733 kN-m./m.
RatM = M_Ed / M_Rd = 0.528 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
  x/d    = 0.110

```

<< TOP >>

```

-. Information of Parameters.
Elem No. : 12239
LCB No.  : 38+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.1200 m.
Covering  : dB = 0.0500 m.
           dT = 0.0500 m.

-. Information of Design.
  b      = 0.0010 m. (by Code Unit Length).
  d      = 0.0700 m.
  lambda = 0.800
  a      = lambda * x = 0.011 m.
  eta    = 0.900
  Cc     = eta*fcd*b*a = 0.1706 kN.
  M_Rd   = Cc*(d-a/2) = 10.9733 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P10 @200
As_req = 0.0001 m^2/m. ( 0.0001 m^2/m.)
M_Ed = 3.5695 kN-m./m.
M_Rd = 10.9733 kN-m./m.
RatM = M_Ed / M_Rd = 0.325 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
  x/d    = 0.067

```

```

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STEEL-[14], Dir 2.
=====

```

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 12253
LCB No. : 39+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.1200 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.0700 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1706 kN.
M_Rd = Cc*(d-a/2) = 10.9733 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0003 m²/m. (0.0003 m²/m.)
M_Ed = 7.5247 kN-m./m.
M_Rd = 10.9733 kN-m./m.
RatM = M_Ed / M_Rd = 0.686 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.142

<< TOP >>

-. Information of Parameters.

Elem No. : 12254
LCB No. : 40+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.1200 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.0700 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1706 kN.
M_Rd = Cc*(d-a/2) = 10.9733 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0001 m²/m. (0.0001 m²/m.)
M_Ed = 4.0550 kN-m./m.
M_Rd = 10.9733 kN-m./m.
RatM = M_Ed / M_Rd = 0.370 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.077

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STEEL-[15], Dir 2.
=====

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 12260
LCB No. : 39+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.1200 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.0700 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1706 kN.
M_Rd = Cc*(d-a/2) = 10.9733 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0003 m²/m. (0.0003 m²/m.)
M_Ed = 8.6406 kN-m./m.
M_Rd = 10.9733 kN-m./m.
RatM = M_Ed / M_Rd = 0.787 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.163

<< TOP >>

-. Information of Parameters.

Elem No. : 12259
LCB No. : 38+

```
Materials : fck = 25000.0000 KPa.
            fcd = 16666.6667 KPa.
            fyk = 500000.0000 KPa.
Thickness : 0.1200 m.
Covering  : dB = 0.0500 m.
            dT = 0.0500 m.
```

-. Information of Design.

```
b      = 0.0010 m. (by Code Unit Length).
d      = 0.0700 m.
lambda = 0.800
a      = lambda * x = 0.029 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.4331 kN.
M_Rd  = Cc*(d-a/2) = 24.0655 kN-m./m.
```

-. Information of Moments and Result.

```
Rein. Bar : P16 @200
As_req = 0.0009 m^2/m. ( 0.0009 m^2/m.)
M_Ed  = 23.8862 kN-m./m.
M_Rd  = 24.0655 kN-m./m.
RatM  = M_Ed / M_Rd = 0.993 < 1.0 ---> O.K !
```

-. Check ratio of neutral axis depth to effective depth.

```
x/d = 0.451
```

```
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STEEL-[16], Dir 2.
```

<< BOTTOM >>

-. Information of Parameters.

```
Elem No. : 12264
LCB No.  : 36+
Materials : fck = 25000.0000 KPa.
            fcd = 16666.6667 KPa.
            fyk = 500000.0000 KPa.
Thickness : 0.1200 m.
Covering  : dB = 0.0500 m.
            dT = 0.0500 m.
```

-. Information of Design.

```
b      = 0.0010 m. (by Code Unit Length).
d      = 0.0700 m.
lambda = 0.800
a      = lambda * x = 0.011 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.1706 kN.
M_Rd  = Cc*(d-a/2) = 10.9733 kN-m./m.
```

-. Information of Moments and Result.

```
Rein. Bar : P10 @200
As_req = 0.0003 m^2/m. ( 0.0003 m^2/m.)
M_Ed  = 8.4673 kN-m./m.
```

```
M_Rd = 10.9733 kN-m./m.
RatM = M_Ed / M_Rd = 0.772 < 1.0 ---> O.K !
```

```
-. Check ratio of neutral axis depth to effective depth.
x/d = 0.160
```

<< TOP >>

-. Information of Parameters.

```
Elem No. : 12263
LCB No. : 40+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.1200 m.
Covering : dB = 0.0500 m.
           dT = 0.0500 m.
```

-. Information of Design.

```
b = 0.0010 m. (by Code Unit Length).
d = 0.0700 m.
lambda = 0.800
a = lambda * x = 0.029 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.4331 kN.
M_Rd = Cc*(d-a/2) = 24.0655 kN-m./m.
```

-. Information of Moments and Result.

```
Rein. Bar : P16 @200
As_req = 0.0008 m^2/m. ( 0.0008 m^2/m.)
M_Ed = 22.3732 kN-m./m.
M_Rd = 24.0655 kN-m./m.
RatM = M_Ed / M_Rd = 0.930 < 1.0 ---> O.K !
```

```
-. Check ratio of neutral axis depth to effective depth.
x/d = 0.423
```

```
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STEEL-[17], Dir 2.
```

<< BOTTOM >>

-. Information of Parameters.

```
Elem No. : 12272
LCB No. : 39+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.1200 m.
Covering : dB = 0.0500 m.
           dT = 0.0500 m.
```

```
-----
-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.0700 m.
lambda = 0.800
a      = lambda * x = 0.011 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.1706 kN.
M_Rd  = Cc*(d-a/2) = 10.9733 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P10 @200
As_req = 0.0003 m^2/m. ( 0.0003 m^2/m.)
M_Ed   = 7.9217 kN-m./m.
M_Rd   = 10.9733 kN-m./m.
RatM   = M_Ed / M_Rd = 0.722 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.150
```

<< TOP >>

```
-. Information of Parameters.
Elem No. : 12271
LCB No.  : 39+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.1200 m.
Covering  : dB = 0.0500 m.
           dT = 0.0500 m.
```

```
-. Information of Design.
b      = 0.0010 m. (by Code Unit Length).
d      = 0.0700 m.
lambda = 0.800
a      = lambda * x = 0.011 m.
eta    = 0.900
Cc     = eta*fcd*b*a = 0.1706 kN.
M_Rd  = Cc*(d-a/2) = 10.9733 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P10 @200
As_req = 0.0001 m^2/m. ( 0.0001 m^2/m.)
M_Ed   = 3.3178 kN-m./m.
M_Rd   = 10.9733 kN-m./m.
RatM   = M_Ed / M_Rd = 0.302 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d    = 0.063
```

```
=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STEEL-[18], Dir 2.
=====
```

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 12284
LCB No. : 40+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.1200 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.0700 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1706 kN.
M_Rd = Cc*(d-a/2) = 10.9733 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0003 m²/m. (0.0003 m²/m.)
M_Ed = 8.8330 kN-m./m.
M_Rd = 10.9733 kN-m./m.
RatM = M_Ed / M_Rd = 0.805 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.167

<< TOP >>

-. Information of Parameters.

Elem No. : 12283
LCB No. : 38+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.1200 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.0700 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1706 kN.
M_Rd = Cc*(d-a/2) = 10.9733 kN-m./m.

```

-. Information of Moments and Result.
Rein. Bar : P10 @200
As_req = 9.3365e-005 m^2/m. ( 9.3365e-005 m^2/m.)
M_Ed = 1.4242 kN-m./m.
M_Rd = 10.9733 kN-m./m.
RatM = M_Ed / M_Rd = 0.130 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.048

```

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STEEL-[21], Dir 2.
=====

<< BOTTOM >>

```

-. Information of Parameters.
Elem No. : 12305
LCB No. : 40+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.1200 m.
Covering : dB = 0.0500 m.
           dT = 0.0500 m.

```

```

-. Information of Design.
b = 0.0010 m. (by Code Unit Length).
d = 0.0700 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1706 kN.
M_Rd = Cc*(d-a/2) = 10.9733 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P10 @200
As_req = 0.0003 m^2/m. ( 0.0003 m^2/m.)
M_Ed = 8.8309 kN-m./m.
M_Rd = 10.9733 kN-m./m.
RatM = M_Ed / M_Rd = 0.805 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.167

```

<< TOP >>

```

-. Information of Parameters.
Elem No. : 12306
LCB No. : 38+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.1200 m.
Covering : dB = 0.0500 m.
           dT = 0.0500 m.

```

```

-. Information of Design.
b = 0.0010 m. (by Code Unit Length).
d = 0.0700 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1706 kN.
M_Rd = Cc*(d-a/2) = 10.9733 kN-m./m.

```



```

-. Information of Moments and Result.
Rein. Bar : P10 @200
As_req = 9.3365e-005 m^2/m. ( 9.3365e-005 m^2/m.)
M_Ed = 1.7028 kN-m./m.
M_Rd = 10.9733 kN-m./m.
RatM = M_Ed / M_Rd = 0.155 < 1.0 ---> O.K !

```

```

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.048

```

```

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STEEL-[22], Dir 2.
=====

```

```

-----
midas Gen - RC-Slab Flexural Design [ Eurocode2:04 ] Gen 2015
-----

```

<< BOTTOM >>

```

-. Information of Parameters.
Elem No. : 12316
LCB No. : 36+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.1200 m.
Covering : dB = 0.0500 m.
           dT = 0.0500 m.

-. Information of Design.
b = 0.0010 m. (by Code Unit Length).
d = 0.0700 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1706 kN.
M_Rd = Cc*(d-a/2) = 10.9733 kN-m./m.

```

```

-. Information of Moments and Result.
Rein. Bar : P10 @200
As_req = 0.0003 m^2/m. ( 0.0003 m^2/m.)
M_Ed = 8.1993 kN-m./m.
M_Rd = 10.9733 kN-m./m.
RatM = M_Ed / M_Rd = 0.747 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.155

```

<< TOP >>

```

-. Information of Parameters.
Elem No. : 12317
LCB No. : 39+
Materials : fck = 25000.0000 KPa.
           fcd = 16666.6667 KPa.
           fyk = 500000.0000 KPa.
Thickness : 0.1200 m.
Covering : dB = 0.0500 m.
           dT = 0.0500 m.

-. Information of Design.
b = 0.0010 m. (by Code Unit Length).
d = 0.0700 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1706 kN.
M_Rd = Cc*(d-a/2) = 10.9733 kN-m./m.

```

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0001 m²/m. (0.0001 m²/m.)
M_Ed = 3.3009 kN-m./m.
M_Rd = 10.9733 kN-m./m.
RatM = M_Ed / M_Rd = 0.301 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.062

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STEEL-[23], Dir 2.
=====

<< BOTTOM >>

-. Information of Parameters.

Elem No. : 12324
LCB No. : 39+
Materials : fck = 25000.0000 KPa.
fcd = 16666.6667 KPa.
fyk = 500000.0000 KPa.
Thickness : 0.1200 m.
Covering : dB = 0.0500 m.
dT = 0.0500 m.

-. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.0700 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1706 kN.
M_Rd = Cc*(d-a/2) = 10.9733 kN-m./m.

-. Information of Moments and Result.

Rein. Bar : P10 @200
As_req = 0.0003 m²/m. (0.0003 m²/m.)
M_Ed = 8.5924 kN-m./m.
M_Rd = 10.9733 kN-m./m.
RatM = M_Ed / M_Rd = 0.783 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.

x/d = 0.162

<< TOP >>

-. Information of Parameters.

Elem No. : 12322
LCB No. : 38+

```

Materials : fck = 25000.0000 KPa.
            fcd = 16666.6667 KPa.
            fyk = 500000.0000 KPa.
Thickness  : 0.1200 m.
Covering   : dB = 0.0500 m.
            dT = 0.0500 m.

```

-. Information of Design.

```

b          = 0.0010 m. (by Code Unit Length).
d          = 0.0700 m.
lambda    = 0.800
a          = lambda * x = 0.011 m.
eta       = 0.900
Cc        = eta*fcd*b*a = 0.1706 kN.
M_Rd      = Cc*(d-a/2) = 10.9733 kN-m./m.

```

-. Information of Moments and Result.

```

Rein. Bar : P10 @200
As_req    = 0.0001 m^2/m. ( 0.0001 m^2/m.)
M_Ed     = 3.3409 kN-m./m.
M_Rd     = 10.9733 kN-m./m.
RatM     = M_Ed / M_Rd = 0.304 < 1.0 ---> O.K !

```

-. Check ratio of neutral axis depth to effective depth.

```

x/d       = 0.063

```

```

[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN STEEL-[24], Dir 2.

```

<< BOTTOM >>

-. Information of Parameters.

```

Elem No.  : 12328
LCB No.   : 39+
Materials : fck = 25000.0000 KPa.
            fcd = 16666.6667 KPa.
            fyk = 500000.0000 KPa.
Thickness : 0.1200 m.
Covering  : dB = 0.0500 m.
            dT = 0.0500 m.

```

-. Information of Design.

```

b          = 0.0010 m. (by Code Unit Length).
d          = 0.0700 m.
lambda    = 0.800
a          = lambda * x = 0.011 m.
eta       = 0.900
Cc        = eta*fcd*b*a = 0.1706 kN.
M_Rd      = Cc*(d-a/2) = 10.9733 kN-m./m.

```

-. Information of Moments and Result.

```

Rein. Bar : P10 @200
As_req    = 0.0003 m^2/m. ( 0.0003 m^2/m.)
M_Ed     = 8.7935 kN-m./m.

```

```
-----
M_Rd = 10.9733 kN-m./m.
RatM = M_Ed / M_Rd = 0.801 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.166

<< TOP >>

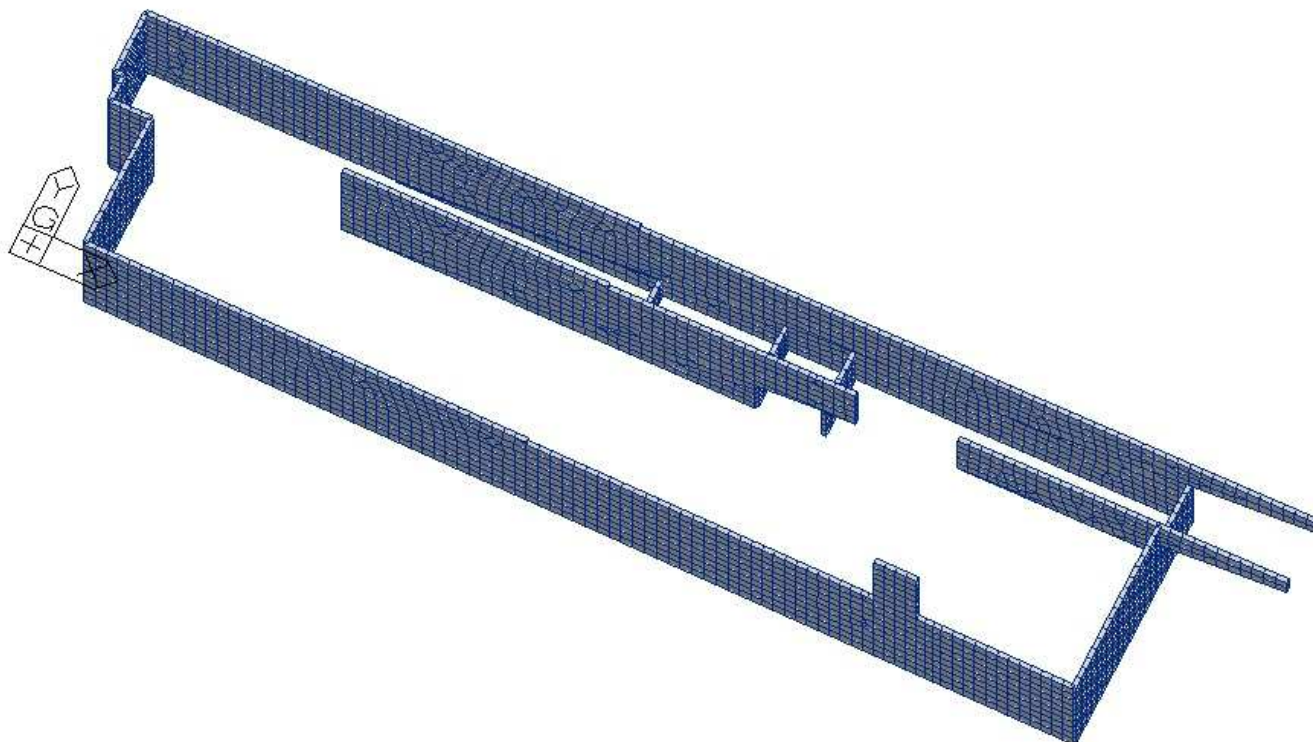
-. Information of Parameters.
Elem No. : 12328
LCB No. : 36+
Materials : fck = 25000.0000 KPa.
            fcd = 16666.6667 KPa.
            fyk = 500000.0000 KPa.
Thickness : 0.1200 m.
Covering : dB = 0.0500 m.
           dT = 0.0500 m.

-. Information of Design.
b = 0.0010 m. (by Code Unit Length).
d = 0.0700 m.
lambda = 0.800
a = lambda * x = 0.011 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.1706 kN.
M_Rd = Cc*(d-a/2) = 10.9733 kN-m./m.

-. Information of Moments and Result.
Rein. Bar : P10 @200
As_req = 9.3365e-005 m^2/m. ( 9.3365e-005 m^2/m.)
M_Ed = 0.0000 kN-m./m.
M_Rd = 10.9733 kN-m./m.
RatM = M_Ed / M_Rd = 0.000 < 1.0 ---> O.K !

-. Check ratio of neutral axis depth to effective depth.
x/d = 0.048
```

V. ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗ ΠΕΡΙΜΕΤΡΙΚΩΝ ΤΟΙΧΕΙΩΝ



ΔΙΕΥΘΥΝΣΗ 1

midas Gen - RC-Slab Flexural Design [Eurocode2:04] Gen 2015

=====
[[[*]]] SLAB DESIGN MAXIMUM RESULT DATA : DOMAIN O-WALLS1-[1], Dir 1.
=====

<< BOTTOM >>

--. Information of Parameters.

Elem No. : 6668
LCB No. : 38+
Materials : fck = 25000.0000 KPa.
 fcd = 16666.6667 KPa.
 fyk = 500000.0000 KPa.
Thickness : 0.4000 m.
Covering : dB = 0.0500 m.
 dT = 0.0500 m.

--. Information of Design.

b = 0.0010 m. (by Code Unit Length).
d = 0.3500 m.
lambda = 0.800
a = lambda * x = 0.022 m.
eta = 0.900
Cc = eta*fcd*b*a = 0.3261 kN.