

	CINNANTI ARQUITETURA E ENGENHARIA LTDA	
	SECRETARIA DE ESTADO DE EDUCAÇÃO DO DISTRITO FEDERAL SEEDF	29/12/2022

MEMÓRIA DE CÁLCULO – ESTRUTURA DE CONCRETO ARMADO E FUNDAÇÕES CEM QUADRA 04 AE 02 - ESTRUTURAL (PRÉDIO PRINCIPAL)

Autor do Projeto: Eng. Civil Dalmo Blanco Cinnanti

CREA: 7962/D-DF

R01	29/12/2022	Versão inicial	DALMO CINNANTI
REVISÃO	DATA	DESCRIÇÃO	RESPONSÁVEL
<i>Nome do projeto</i>		<i>MEMÓRIA DE CÁLCULO – ESTRUTURA DE CONCRETO ARMADO – CEM ESTRUTURAL QD. 04</i>	
<i>Número do projeto</i>		<i>314-SEEDF-CEM-ESTRUTURAL QD. 04 - MEM-RESERVATÓRIO ADASA-EST-R01</i>	
<i>Local</i>		<i>Quadra 04 AE 02 - RA XXV - SCIA / ESTRUTURAL - Vila Estrutural - DF</i>	

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Sumário

1. Resumo de resultados	3
2. Verificação da Estabilidade Global da Estrutura	4
3. Coeficiente Gama-Z por combinação	5
4. Pavimento NV-000	7
5. Cálculo dos Pilares	12
6. Vigas do pavimento NV-000	22
7. Pavimento TÉRREO NV-320	27
8. Cálculo dos Pilares	27
9. Vigas do pavimento TÉRREO NV-320	35
10. Cálculos das Lajes	39
11. Cálculos da Escada	63
12. ESCADA: E1	63
13. ESCADA: E2	65
14. Pavimento SUPERIOR NV-640	67
15. Cálculo dos Pilares	68
16. Vigas do pavimento SUPERIOR NV-640	75
17. Cálculos das Lajes	81
18. Pavimento PLATIBANDA NV-770	123
19. Cálculo dos Pilares	123
20. Vigas do pavimento PLATIBANDA NV-770	131

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Memorial de cálculo

1. Resumo de resultados

Cargas verticais:

Peso próprio = 2429.32 tf

Adicional = 1004.07 tf

Acidental = 741.86 tf

Total = 4175.26 tf

Área aproximada = 3743.95 m²

Relação = 1115.20 kgf/m²

Deslocamento horizontal:

X+ = 0.03 cm (limite 0.52)

X- = 0.03 cm (limite 0.52)

Y+ = 0.02 cm (limite 0.52)

Y- = 0.02 cm (limite 0.52)

Verificação de estabilidade (Gama-Z):

X+ = 1.03 (limite 1.10)

X- = 1.09 (limite 1.10)

Y+ = 1.04 (limite 1.10)

Y- = 1.04 (limite 1.10)

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Análise de 2ª ordem:

Processo P-Delta

Deslocamentos no topo da edificação:

Acidental: 0.02 »» 0.02 (+2.87%)

Vento X+: 0.16 »» 0.17 (+5.30%)

Vento X-: 0.16 »» 0.17 (+5.30%)

Vento Y+: 0.12 »» 0.12 (+2.30%)

Vento Y-: 0.12 »» 0.12 (+2.30%)

Desaprumo X+: 0.08 »» 0.09 (+5.98%)

Desaprumo X-: 0.08 »» 0.09 (+5.98%)

Desaprumo Y+: 0.04 »» 0.04 (+2.60%)

Desaprumo Y-: 0.04 »» 0.04 (+2.60%)

2. Verificação da Estabilidade Global da Estrutura

Maior coeficiente Gama-Z

Combinação: 1.3G1+1.4G2+1.4S+1.2R+1.4Q+1.2A+1.1AS+0.72T1+0.84V2+0.84D2							
Pavimento	Altura relativa (cm)	Carga vertical (tf)	Carga horizontal (tf)	Deslocamento horizontal (cm)	Momento 2a. ordem (kgf.m)	Momento tombamento (kgf.m)	Gama-Z
PLATIBANDA NV-770	885.00	48.43	1.60	0.33	158.66	14134.11	1.09 (lim=1.10)
SUPERIOR NV-640	755.00	1950.09	5.37	0.26	5130.93	40573.08	
TÉRREO NV-320	430.00	2843.37	6.82	0.07	1875.58	29316.98	
NV-000	100.00	760.54	0.78	0.00	9.41	777.19	
TOTAL					7174.58	84801.36	

Limitações

Em estruturas com Gama-Z maior que 1.10 é necessário fazer a verificação dos efeitos de 2ª ordem com a análise P-Delta.

O Gama-Z é um parâmetro de estabilidade para avaliação de estruturas simétricas (tanto geometria quanto carregamento) e edificações com mais de 4 pavimentos. Nos demais casos, recomenda-se a verificação dos efeitos de 2ª ordem com a análise P-Delta.

3. Coeficiente Gama-Z por combinação

Combinação	Momento 2a. ordem (kgf.m)	Momento tombamento (kgf.m)	Gama-Z
1.3G1+1.4G2+1.4S+0.98Q+1.2A+1.1AS+0.72T1+0.84V1+0.84D1	2575.30	84801.36	1.03
1.3G1+1.4G2+1.4S+0.98Q+1.2A+1.1AS+0.72T1+0.84V1+1.4D1	2575.30	84801.36	1.03
1.3G1+1.4G2+1.4S+0.98Q+1.2A+1.1AS+0.72T1+0.84V2+0.84D2	6639.31	84801.36	1.08
1.3G1+1.4G2+1.4S+0.98Q+1.2A+1.1AS+0.72T1+0.84V2+1.4D2	6639.31	84801.36	1.08
1.3G1+1.4G2+1.4S+0.98Q+1.2A+1.1AS+0.72T1+0.84V3+0.84D3	4627.40	117975.28	1.04
1.3G1+1.4G2+1.4S+0.98Q+1.2A+1.1AS+0.72T1+0.84V3+1.4D3	4627.40	117975.28	1.04
1.3G1+1.4G2+1.4S+0.98Q+1.2A+1.1AS+0.72T1+0.84V4+0.84D4	4057.64	117975.28	1.04
1.3G1+1.4G2+1.4S+0.98Q+1.2A+1.1AS+0.72T1+0.84V4+1.4D4	4057.64	117975.28	1.04
1.3G1+1.4G2+1.4S+0.98Q+1.2A+1.1AS+0.72T1+1.4V1+0.84D1	2533.53	141335.60	1.02
1.3G1+1.4G2+1.4S+0.98Q+1.2A+1.1AS+0.72T1+1.4V2+0.84D2	8749.61	141335.60	1.07
1.3G1+1.4G2+1.4S+0.98Q+1.2A+1.1AS+0.72T1+1.4V3+0.84D3	5625.67	196625.46	1.03
1.3G1+1.4G2+1.4S+0.98Q+1.2A+1.1AS+0.72T1+1.4V4+0.84D4	4919.62	196625.46	1.03
1.3G1+1.4G2+1.4S+0.98Q+1.2A+1.1AS+0.72T2+0.84V1+0.84D1	2575.30	84801.36	1.03
1.3G1+1.4G2+1.4S+0.98Q+1.2A+1.1AS+0.72T2+0.84V1+1.4D1	2575.30	84801.36	1.03
1.3G1+1.4G2+1.4S+0.98Q+1.2A+1.1AS+0.72T2+0.84V2+0.84D2	6639.31	84801.36	1.08
1.3G1+1.4G2+1.4S+0.98Q+1.2A+1.1AS+0.72T2+0.84V2+1.4D2	6639.31	84801.36	1.08
1.3G1+1.4G2+1.4S+0.98Q+1.2A+1.1AS+0.72T2+0.84V3+0.84D3	4627.40	117975.28	1.04
1.3G1+1.4G2+1.4S+0.98Q+1.2A+1.1AS+0.72T2+0.84V3+1.4D3	4627.40	117975.28	1.04
1.3G1+1.4G2+1.4S+0.98Q+1.2A+1.1AS+0.72T2+0.84V4+0.84D4	4057.64	117975.28	1.04
1.3G1+1.4G2+1.4S+0.98Q+1.2A+1.1AS+0.72T2+0.84V4+1.4D4	4057.64	117975.28	1.04
1.3G1+1.4G2+1.4S+0.98Q+1.2A+1.1AS+0.72T2+1.4V1+0.84D1	2533.53	141335.60	1.02
1.3G1+1.4G2+1.4S+0.98Q+1.2A+1.1AS+0.72T2+1.4V2+0.84D2	8749.61	141335.60	1.07
1.3G1+1.4G2+1.4S+0.98Q+1.2A+1.1AS+0.72T2+1.4V3+0.84D3	5625.67	196625.46	1.03
1.3G1+1.4G2+1.4S+0.98Q+1.2A+1.1AS+0.72T2+1.4V4+0.84D4	4919.62	196625.46	1.03
1.3G1+1.4G2+1.4S+1.2R+0.98Q+1.2A+1.1AS+0.72T1+0.84V1+0.84D1	2575.30	84801.36	1.03
1.3G1+1.4G2+1.4S+1.2R+0.98Q+1.2A+1.1AS+0.72T1+0.84V1+1.4D1	2575.30	84801.36	1.03
1.3G1+1.4G2+1.4S+1.2R+0.98Q+1.2A+1.1AS+0.72T1+0.84V2+0.84D2	6639.31	84801.36	1.08
1.3G1+1.4G2+1.4S+1.2R+0.98Q+1.2A+1.1AS+0.72T1+0.84V2+1.4D2	6639.31	84801.36	1.08
1.3G1+1.4G2+1.4S+1.2R+0.98Q+1.2A+1.1AS+0.72T1+0.84V3+0.84D3	4627.40	117975.28	1.04
1.3G1+1.4G2+1.4S+1.2R+0.98Q+1.2A+1.1AS+0.72T1+0.84V3+1.4D3	4627.40	117975.28	1.04
1.3G1+1.4G2+1.4S+1.2R+0.98Q+1.2A+1.1AS+0.72T1+0.84V4+0.84D4	4057.64	117975.28	1.04
1.3G1+1.4G2+1.4S+1.2R+0.98Q+1.2A+1.1AS+0.72T1+0.84V4+1.4D4	4057.64	117975.28	1.04
1.3G1+1.4G2+1.4S+1.2R+0.98Q+1.2A+1.1AS+0.72T1+1.4V1+0.84D1	2533.53	141335.60	1.02
1.3G1+1.4G2+1.4S+1.2R+0.98Q+1.2A+1.1AS+0.72T1+1.4V2+0.84D2	8749.61	141335.60	1.07
1.3G1+1.4G2+1.4S+1.2R+0.98Q+1.2A+1.1AS+0.72T1+1.4V3+0.84D3	5625.67	196625.46	1.03
1.3G1+1.4G2+1.4S+1.2R+0.98Q+1.2A+1.1AS+0.72T1+1.4V4+0.84D4	4919.62	196625.46	1.03
1.3G1+1.4G2+1.4S+1.2R+0.98Q+1.2A+1.1AS+0.72T2+0.84V1+0.84D1	2575.30	84801.36	1.03
1.3G1+1.4G2+1.4S+1.2R+0.98Q+1.2A+1.1AS+0.72T2+0.84V1+1.4D1	2575.30	84801.36	1.03
1.3G1+1.4G2+1.4S+1.2R+0.98Q+1.2A+1.1AS+0.72T2+0.84V2+0.84D2	6639.31	84801.36	1.08
1.3G1+1.4G2+1.4S+1.2R+0.98Q+1.2A+1.1AS+0.72T2+0.84V2+1.4D2	6639.31	84801.36	1.08
1.3G1+1.4G2+1.4S+1.2R+0.98Q+1.2A+1.1AS+0.72T2+0.84V3+0.84D3	4627.40	117975.28	1.04
1.3G1+1.4G2+1.4S+1.2R+0.98Q+1.2A+1.1AS+0.72T2+0.84V3+1.4D3	4627.40	117975.28	1.04
1.3G1+1.4G2+1.4S+1.2R+0.98Q+1.2A+1.1AS+0.72T2+0.84V4+0.84D4	4057.64	117975.28	1.04
1.3G1+1.4G2+1.4S+1.2R+0.98Q+1.2A+1.1AS+0.72T2+0.84V4+1.4D4	4057.64	117975.28	1.04
1.3G1+1.4G2+1.4S+1.2R+0.98Q+1.2A+1.1AS+0.72T2+1.4V1+0.84D1	2533.53	141335.60	1.02
1.3G1+1.4G2+1.4S+1.2R+0.98Q+1.2A+1.1AS+0.72T2+1.4V2+0.84D2	8749.61	141335.60	1.07
1.3G1+1.4G2+1.4S+1.2R+0.98Q+1.2A+1.1AS+0.72T2+1.4V3+0.84D3	5625.67	196625.46	1.03
1.3G1+1.4G2+1.4S+1.2R+0.98Q+1.2A+1.1AS+0.72T2+1.4V4+0.84D4	4919.62	196625.46	1.03
1.3G1+1.4G2+1.4S+1.2R+1.4Q+1.2A+1.1AS+0.72T1+0.84V1+0.84D1	2852.39	84801.36	1.03
1.3G1+1.4G2+1.4S+1.2R+1.4Q+1.2A+1.1AS+0.72T1+0.84V2+0.84D2	7174.58	84801.36	1.09
1.3G1+1.4G2+1.4S+1.2R+1.4Q+1.2A+1.1AS+0.72T1+0.84V3+0.84D3	5042.34	117975.28	1.04
1.3G1+1.4G2+1.4S+1.2R+1.4Q+1.2A+1.1AS+0.72T1+0.84V4+0.84D4	4390.92	117975.28	1.04
1.3G1+1.4G2+1.4S+1.2R+1.4Q+1.2A+1.1AS+0.72T2+0.84V1+0.84D1	2852.39	84801.36	1.03
1.3G1+1.4G2+1.4S+1.2R+1.4Q+1.2A+1.1AS+0.72T2+0.84V2+0.84D2	7174.58	84801.36	1.09

1.3G1+1.4G2+1.4S+1.2R+1.4Q+1.2A+1.1AS+0.72T2+0.84V3+0.84D3	5042.34	117975.28	1.04
1.3G1+1.4G2+1.4S+1.2R+1.4Q+1.2A+1.1AS+0.72T2+0.84V4+0.84D4	4390.92	117975.28	1.04
1.3G1+1.4G2+1.4S+1.4Q+1.2A+1.1AS+0.72T1+0.84V1+0.84D1	2852.39	84801.36	1.03
1.3G1+1.4G2+1.4S+1.4Q+1.2A+1.1AS+0.72T1+0.84V2+0.84D2	7174.58	84801.36	1.09
1.3G1+1.4G2+1.4S+1.4Q+1.2A+1.1AS+0.72T1+0.84V3+0.84D3	5042.34	117975.28	1.04
1.3G1+1.4G2+1.4S+1.4Q+1.2A+1.1AS+0.72T1+0.84V4+0.84D4	4390.92	117975.28	1.04
1.3G1+1.4G2+1.4S+1.4Q+1.2A+1.1AS+0.72T2+0.84V1+0.84D1	2852.39	84801.36	1.03
1.3G1+1.4G2+1.4S+1.4Q+1.2A+1.1AS+0.72T2+0.84V2+0.84D2	7174.58	84801.36	1.09
1.3G1+1.4G2+1.4S+1.4Q+1.2A+1.1AS+0.72T2+0.84V3+0.84D3	5042.34	117975.28	1.04
1.3G1+1.4G2+1.4S+1.4Q+1.2A+1.1AS+0.72T2+0.84V4+0.84D4	4390.92	117975.28	1.04
G1+G2+S+1.2R+0.98Q+1.2A+1.1AS+0.72T1+0.84V1+0.84D1	1550.18	84801.36	1.02
G1+G2+S+1.2R+0.98Q+1.2A+1.1AS+0.72T1+0.84V1+1.4D1	1550.18	84801.36	1.02
G1+G2+S+1.2R+0.98Q+1.2A+1.1AS+0.72T1+0.84V2+0.84D2	4648.01	84801.36	1.06
G1+G2+S+1.2R+0.98Q+1.2A+1.1AS+0.72T1+0.84V2+1.4D2	4648.01	84801.36	1.06
G1+G2+S+1.2R+0.98Q+1.2A+1.1AS+0.72T1+0.84V3+0.84D3	3112.29	117975.28	1.03
G1+G2+S+1.2R+0.98Q+1.2A+1.1AS+0.72T1+0.84V3+1.4D3	3112.29	117975.28	1.03
G1+G2+S+1.2R+0.98Q+1.2A+1.1AS+0.72T1+0.84V4+0.84D4	2701.10	117975.28	1.02
G1+G2+S+1.2R+0.98Q+1.2A+1.1AS+0.72T1+0.84V4+1.4D4	2701.10	117975.28	1.02
G1+G2+S+1.2R+0.98Q+1.2A+1.1AS+0.72T1+1.4V1+0.84D1	2156.40	141335.60	1.02
G1+G2+S+1.2R+0.98Q+1.2A+1.1AS+0.72T1+1.4V2+0.84D2	6320.97	141335.60	1.05
G1+G2+S+1.2R+0.98Q+1.2A+1.1AS+0.72T1+1.4V3+0.84D3	3958.14	196625.46	1.02
G1+G2+S+1.2R+0.98Q+1.2A+1.1AS+0.72T1+1.4V4+0.84D4	3456.09	196625.46	1.02
G1+G2+S+1.2R+0.98Q+1.2A+1.1AS+0.72T2+0.84V1+0.84D1	1550.18	84801.36	1.02
G1+G2+S+1.2R+0.98Q+1.2A+1.1AS+0.72T2+0.84V1+1.4D1	1550.18	84801.36	1.02
G1+G2+S+1.2R+0.98Q+1.2A+1.1AS+0.72T2+0.84V2+0.84D2	4648.01	84801.36	1.06
G1+G2+S+1.2R+0.98Q+1.2A+1.1AS+0.72T2+0.84V2+1.4D2	4648.01	84801.36	1.06
G1+G2+S+1.2R+0.98Q+1.2A+1.1AS+0.72T2+0.84V3+0.84D3	3112.29	117975.28	1.03
G1+G2+S+1.2R+0.98Q+1.2A+1.1AS+0.72T2+0.84V3+1.4D3	3112.29	117975.28	1.03
G1+G2+S+1.2R+0.98Q+1.2A+1.1AS+0.72T2+0.84V4+0.84D4	2701.10	117975.28	1.02
G1+G2+S+1.2R+0.98Q+1.2A+1.1AS+0.72T2+0.84V4+1.4D4	2701.10	117975.28	1.02
G1+G2+S+1.2R+0.98Q+1.2A+1.1AS+0.72T2+1.4V1+0.84D1	2156.40	141335.60	1.02
G1+G2+S+1.2R+0.98Q+1.2A+1.1AS+0.72T2+1.4V2+0.84D2	6320.97	141335.60	1.05
G1+G2+S+1.2R+0.98Q+1.2A+1.1AS+0.72T2+1.4V3+0.84D3	3958.14	196625.46	1.02
G1+G2+S+1.2R+0.98Q+1.2A+1.1AS+0.72T2+1.4V4+0.84D4	3456.09	196625.46	1.02
G1+G2+S+1.2R+1.4Q+1.2A+1.1AS+0.72T1+0.84V1+0.84D1	1774.58	84801.36	1.02
G1+G2+S+1.2R+1.4Q+1.2A+1.1AS+0.72T1+0.84V2+0.84D2	5112.30	84801.36	1.06
G1+G2+S+1.2R+1.4Q+1.2A+1.1AS+0.72T1+0.84V3+0.84D3	3458.36	117975.28	1.03
G1+G2+S+1.2R+1.4Q+1.2A+1.1AS+0.72T1+0.84V4+0.84D4	2974.51	117975.28	1.03
G1+G2+S+1.2R+1.4Q+1.2A+1.1AS+0.72T2+0.84V1+0.84D1	1774.58	84801.36	1.02
G1+G2+S+1.2R+1.4Q+1.2A+1.1AS+0.72T2+0.84V2+0.84D2	5112.30	84801.36	1.06
G1+G2+S+1.2R+1.4Q+1.2A+1.1AS+0.72T2+0.84V3+0.84D3	3458.36	117975.28	1.03
G1+G2+S+1.2R+1.4Q+1.2A+1.1AS+0.72T2+0.84V4+0.84D4	2974.51	117975.28	1.03

4. Pavimento NV-000

Resultado dos Blocos

NV-000	fck = 400.00 kgf/cm ²	E = 318758 kgf/cm ²	Peso Espec = 2500.00 kgf/m ³
Lance 1		cobr = 4.50 cm	

Blocos	ne Estaca	LB LH (cm)	hb (cm)	Principal (cm ²)		Estribo (cm ²)		Superior (cm ²)		As dist. (cm ²)
				X	Y	Hor.	Vert.	X	Y	
B1	1 C40-20m	70.00 70.00		-	-	2.51 (5 ø 8.0)	1.25 2x(2 ø 6.3)	-	-	-
B2	1 C30-11m	60.00 60.00		-	-	1.56 (5 ø 6.3)	1.25 2x(2 ø 6.3)	-	-	-
B3	2 C40-17m	190.00 70.00	60.00	10.05 (5 ø 16.0)	-	1.56 (5 ø 6.3)	8.04 2x(8 ø 8.0)	2.01 (4 ø 8.0)	-	1.01 (ø 8.0 c/10)
B4	1 C30-11m	60.00 60.00		-	-	1.56 (5 ø 6.3)	1.25 2x(2 ø 6.3)	-	-	-
B5	2 C40-17m	190.00 70.00	60.00	8.59 (7 ø 12.5)	-	1.56 (5 ø 6.3)	8.04 2x(8 ø 8.0)	2.01 (4 ø 8.0)	-	1.01 (ø 8.0 c/10)
B6	1 C30-11m	60.00 60.00		-	-	1.56 (5 ø 6.3)	1.25 2x(2 ø 6.3)	-	-	-
B7	2 C50-20m	230.00 80.00	70.00	16.08 (8 ø 16.0)	-	2.51 (5 ø 8.0)	10.05 2x(10 ø 8.0)	3.14 (4 ø 10.0)	-	1.01 (ø 8.0 c/10)
B8	2 C40-20m	190.00 70.00	60.00	12.06 (6 ø 16.0)	-	1.56 (5 ø 6.3)	8.04 2x(8 ø 8.0)	2.51 (5 ø 8.0)	-	1.01 (ø 8.0 c/10)
B11	2 C50-20m	230.00 80.00	75.00	16.08 (8 ø 16.0)	-	2.51 (5 ø 8.0)	10.05 2x(10 ø 8.0)	3.14 (4 ø 10.0)	-	1.01 (ø 8.0 c/10)
B12	2 C50-20m	230.00 80.00	80.00	16.08 (8 ø 16.0)	-	2.51 (5 ø 8.0)	10.05 2x(10 ø 8.0)	3.14 (4 ø 10.0)	-	1.01 (ø 8.0 c/10)
B13	1 C40-20m	70.00 70.00		-	-	2.51 (5 ø 8.0)	1.25 2x(2 ø 6.3)	-	-	-
B14	1 C40-17m	70.00 70.00		-	-	1.87 (6 ø 6.3)	1.25 2x(2 ø 6.3)	-	-	-
B15	1 C30-14m	60.00 60.00		-	-	1.56 (5 ø 6.3)	1.25 2x(2 ø 6.3)	-	-	-
B16	2 C40-20m	190.00 70.00	65.00	12.06 (6 ø 16.0)	-	1.56 (5 ø 6.3)	8.04 2x(8 ø 8.0)	2.51 (5 ø 8.0)	-	1.01 (ø 8.0 c/10)
B17	1 C30-14m	60.00 60.00		-	-	1.56 (5 ø 6.3)	1.25 2x(2 ø 6.3)	-	-	-
B18	2 C40-20m	190.00 70.00	65.00	12.06 (6 ø 16.0)	-	1.56 (5 ø 6.3)	8.04 2x(8 ø 8.0)	2.51 (5 ø 8.0)	-	1.01 (ø 8.0 c/10)
B19	1 C30-14m	60.00 60.00		-	-	1.56 (5 ø 6.3)	1.25 2x(2 ø 6.3)	-	-	-
B20	2 C40-20m	190.00 70.00	65.00	12.06 (6 ø 16.0)	-	1.56 (5 ø 6.3)	8.04 2x(8 ø 8.0)	2.51 (5 ø 8.0)	-	1.01 (ø 8.0 c/10)
B21	1 C40-17m	70.00 70.00		-	-	2.51 (5 ø 8.0)	1.25 2x(2 ø 6.3)	-	-	-
B22	1 C30-14m	60.00 60.00		-	-	1.56 (5 ø 6.3)	1.25 2x(2 ø 6.3)	-	-	-
B23	2 C40-17m	190.00 70.00	60.00	8.59 (7 ø 12.5)	-	1.56 (5 ø 6.3)	8.04 2x(8 ø 8.0)	2.01 (4 ø 8.0)	-	1.01 (ø 8.0 c/10)
B24	1 C30-11m	60.00 60.00		-	-	1.56 (5 ø 6.3)	1.25 2x(2 ø 6.3)	-	-	-

B25	2 C40-20m	190.00 70.00	60.00	12.06 (6 ø 16.0)	-	1.56 (5 ø 6.3)	8.04 2x(8 ø 8.0)	3.14 (4 ø 10.0)	-	1.01 (ø 8.0 c/10)
B26	1 C30-11m	60.00 60.00		-	-	1.56 (5 ø 6.3)	1.25 2x(2 ø 6.3)	-	-	-
B27	2 C40-20m	190.00 70.00	60.00	14.07 (7 ø 16.0)	-	1.56 (5 ø 6.3)	8.04 2x(8 ø 8.0)	3.14 (4 ø 10.0)	-	1.01 (ø 8.0 c/10)
B28	1 C30-11m	60.00 60.00		-	-	1.56 (5 ø 6.3)	1.25 2x(2 ø 6.3)	-	-	-
B29	2 C60-20m	270.00 90.00	105.00	16.08 (8 ø 16.0)	-	3.02 (6 ø 8.0)	11.06 2x(11 ø 8.0)	3.93 (5 ø 10.0)	-	1.01 (ø 8.0 c/10)
B30	1 C30-11m	60.00 60.00		-	-	1.56 (5 ø 6.3)	1.25 2x(2 ø 6.3)	-	-	-
B31	2 C40-20m	190.00 70.00	60.00	12.06 (6 ø 16.0)	-	1.56 (5 ø 6.3)	8.04 2x(8 ø 8.0)	3.14 (4 ø 10.0)	-	1.01 (ø 8.0 c/10)
B34	3 C50-20m	242.38 209.90	90.00	12.06 (6 ø 16.0)	-	1.56 (5 ø 6.3)	-	5.03 (10 ø 8.0)	6.03 (12 ø 8.0)	3.06 (ø 8.0 c/20)
B35	3 C50-20m	242.38 209.90	100.00	12.06 (6 ø 16.0)	-	1.87 (6 ø 6.3)	-	5.03 (10 ø 8.0)	6.03 (12 ø 8.0)	2.95 (ø 8.0 c/20)
B36	2 C40-17m	190.00 70.00	60.00	8.59 (7 ø 12.5)	-	1.56 (5 ø 6.3)	8.04 2x(8 ø 8.0)	2.01 (4 ø 8.0)	-	1.01 (ø 8.0 c/10)
B37	2 C40-17m	190.00 70.00	60.00	8.59 (7 ø 12.5)	-	1.56 (5 ø 6.3)	8.04 2x(8 ø 8.0)	2.01 (4 ø 8.0)	-	1.01 (ø 8.0 c/10)
B38	2 C60-20m	270.00 90.00	100.00	16.08 (8 ø 16.0)	-	2.18 (7 ø 6.3)	11.06 2x(11 ø 8.0)	3.14 (4 ø 10.0)	-	1.01 (ø 8.0 c/10)
B39	1 C40-20m	70.00 70.00		-	-	2.51 (5 ø 8.0)	1.25 2x(2 ø 6.3)	-	-	-
B40	2 C40-20m	190.00 70.00	60.00	10.05 (5 ø 16.0)	-	1.56 (5 ø 6.3)	8.04 2x(8 ø 8.0)	2.01 (4 ø 8.0)	-	1.01 (ø 8.0 c/10)
B41	2 C40-20m	190.00 70.00	60.00	14.07 (7 ø 16.0)	-	1.87 (6 ø 6.3)	8.04 2x(8 ø 8.0)	3.14 (4 ø 10.0)	-	1.01 (ø 8.0 c/10)
B42	3 C40-20m	200.83 173.92	70.00	12.06 (6 ø 16.0)	-	1.56 (5 ø 6.3)	-	4.52 (9 ø 8.0)	5.03 (10 ø 8.0)	2.92 (ø 8.0 c/20)
B45	3 C50-20m	242.38 209.90	105.00	12.06 (6 ø 16.0)	-	1.87 (6 ø 6.3)	-	5.03 (10 ø 8.0)	6.03 (12 ø 8.0)	3.11 (ø 8.0 c/20)
B46	3 C50-20m	242.38 209.90	105.00	12.06 (6 ø 16.0)	-	1.87 (6 ø 6.3)	-	5.03 (10 ø 8.0)	6.03 (12 ø 8.0)	3.10 (ø 8.0 c/20)
B47	2 C40-17m	190.00 70.00	60.00	10.05 (5 ø 16.0)	-	1.56 (5 ø 6.3)	8.04 2x(8 ø 8.0)	2.01 (4 ø 8.0)	-	1.01 (ø 8.0 c/10)
B48	1 C30-11m	60.00 60.00		-	-	1.56 (5 ø 6.3)	1.25 2x(2 ø 6.3)	-	-	-
B49	1 C30-11m	60.00 60.00		-	-	1.56 (5 ø 6.3)	1.25 2x(2 ø 6.3)	-	-	-
B50	1 C40-17m	70.00 70.00		-	-	1.56 (5 ø 6.3)	1.25 2x(2 ø 6.3)	-	-	-
B51	2 C40-17m	190.00 70.00	55.00	8.04 (4 ø 16.0)	-	1.56 (5 ø 6.3)	8.04 2x(8 ø 8.0)	2.01 (4 ø 8.0)	-	1.01 (ø 8.0 c/10)
B52	2 C40-17m	190.00 70.00	55.00	10.05 (5 ø 16.0)	-	1.56 (5 ø 6.3)	8.04 2x(8 ø 8.0)	2.01 (4 ø 8.0)	-	1.01 (ø 8.0 c/10)
B53	1 C30-11m	60.00 60.00		-	-	1.56 (5 ø 6.3)	1.25 2x(2 ø 6.3)	-	-	-
B54	1 C40-17m	70.00 70.00		-	-	1.56 (5 ø 6.3)	1.25 2x(2 ø 6.3)	-	-	-
B55	1 C40-17m	70.00 70.00		-	-	1.56 (5 ø 6.3)	1.25 2x(2 ø 6.3)	-	-	-
B56	1 C40-17m	70.00 70.00		-	-	1.56 (5 ø 6.3)	1.25 2x(2 ø 6.3)	-	-	-
B57	2 C40-20m	190.00 70.00	55.00	14.07 (7 ø 16.0)	-	1.56 (5 ø 6.3)	8.04 2x(8 ø 8.0)	3.14 (4 ø 10.0)	-	1.01 (ø 8.0 c/10)
B58	2 C40-20m	190.00 70.00	60.00	12.06 (6 ø 16.0)	-	1.56 (5 ø 6.3)	8.04 2x(8 ø 8.0)	3.14 (4 ø 10.0)	-	1.01 (ø 8.0 c/10)

B59	1 C30-14m	60.00 60.00		-	-	1.56 (5 ø 6.3)	1.25 2x(2 ø 6.3)	-	-	-
B60	1 C40-17m	70.00 70.00		-	-	1.56 (5 ø 6.3)	1.25 2x(2 ø 6.3)	-	-	-
B61	2 C40-17m	190.00 70.00	65.00	8.04 (4 ø 16.0)	-	1.56 (5 ø 6.3)	8.04 2x(8 ø 8.0)	2.01 (4 ø 8.0)	-	1.01 (ø 8.0 c/10)
B62	1 C40-17m	70.00 70.00		-	-	2.51 (5 ø 8.0)	1.25 2x(2 ø 6.3)	-	-	-
B63	1 C40-20m	70.00 70.00		-	-	2.51 (5 ø 8.0)	1.25 2x(2 ø 6.3)	-	-	-
B66	2 C50-20m	230.00 80.00	70.00	16.08 (8 ø 16.0)	-	2.51 (5 ø 8.0)	10.05 2x(10 ø 8.0)	3.14 (4 ø 10.0)	-	1.01 (ø 8.0 c/10)
B67	2 C50-20m	230.00 80.00	70.00	16.08 (8 ø 16.0)	-	2.51 (5 ø 8.0)	10.05 2x(10 ø 8.0)	3.14 (4 ø 10.0)	-	1.01 (ø 8.0 c/10)
B68	2 C40-17m	190.00 70.00	60.00	8.04 (4 ø 16.0)	-	1.56 (5 ø 6.3)	8.04 2x(8 ø 8.0)	2.01 (4 ø 8.0)	-	1.01 (ø 8.0 c/10)
B69	2 C40-17m	190.00 70.00	55.00	7.36 (6 ø 12.5)	-	1.56 (5 ø 6.3)	8.04 2x(8 ø 8.0)	2.01 (4 ø 8.0)	-	1.01 (ø 8.0 c/10)
B70	1 C40-17m	70.00 70.00		-	-	1.56 (5 ø 6.3)	1.25 2x(2 ø 6.3)	-	-	-
B71	1 C40-17m	70.00 70.00		-	-	1.56 (5 ø 6.3)	1.25 2x(2 ø 6.3)	-	-	-
B72	2 C40-17m	190.00 70.00	55.00	8.04 (4 ø 16.0)	-	1.56 (5 ø 6.3)	8.04 2x(8 ø 8.0)	2.01 (4 ø 8.0)	-	1.01 (ø 8.0 c/10)
B73	2 C40-17m	190.00 70.00	65.00	8.04 (4 ø 16.0)	-	1.56 (5 ø 6.3)	8.04 2x(8 ø 8.0)	2.01 (4 ø 8.0)	-	1.01 (ø 8.0 c/10)
B74	1 C40-17m	70.00 70.00		-	-	2.51 (5 ø 8.0)	1.25 2x(2 ø 6.3)	-	-	-
B75	1 C40-17m	70.00 70.00		-	-	2.51 (5 ø 8.0)	1.25 2x(2 ø 6.3)	-	-	-
B78	2 C40-20m	190.00 70.00	60.00	12.06 (6 ø 16.0)	-	1.56 (5 ø 6.3)	8.04 2x(8 ø 8.0)	2.51 (5 ø 8.0)	-	1.01 (ø 8.0 c/10)
B79	2 C40-20m	190.00 70.00	60.00	12.06 (6 ø 16.0)	-	1.56 (5 ø 6.3)	8.04 2x(8 ø 8.0)	3.14 (4 ø 10.0)	-	1.01 (ø 8.0 c/10)
B80	2 C40-17m	190.00 70.00	60.00	8.04 (4 ø 16.0)	-	1.56 (5 ø 6.3)	8.04 2x(8 ø 8.0)	2.01 (4 ø 8.0)	-	1.01 (ø 8.0 c/10)
B81	2 C40-20m	190.00 70.00	55.00	12.06 (6 ø 16.0)	-	1.56 (5 ø 6.3)	8.04 2x(8 ø 8.0)	3.14 (4 ø 10.0)	-	1.01 (ø 8.0 c/10)
B82	2 C40-20m	190.00 70.00	60.00	14.07 (7 ø 16.0)	-	2.51 (5 ø 8.0)	8.04 2x(8 ø 8.0)	3.14 (4 ø 10.0)	-	1.01 (ø 8.0 c/10)
B85	1 C40-17m	70.00 70.00		-	-	1.56 (5 ø 6.3)	1.25 2x(2 ø 6.3)	-	-	-
B86	1 C40-17m	70.00 70.00		-	-	1.56 (5 ø 6.3)	1.25 2x(2 ø 6.3)	-	-	-
B87	1 C30-14m	60.00 60.00		-	-	1.56 (5 ø 6.3)	1.25 2x(2 ø 6.3)	-	-	-
B88	1 C50-20m	80.00 80.00		-	-	2.51 (5 ø 8.0)	1.25 2x(2 ø 6.3)	-	-	-
B89	2 C40-17m	190.00 70.00	60.00	3.14 (4 ø 10.0)	-	1.56 (5 ø 6.3)	8.04 2x(8 ø 8.0)	2.01 (4 ø 8.0)	-	1.01 (ø 8.0 c/10)
B90	2 C40-17m	190.00 70.00	60.00	10.05 (5 ø 16.0)	-	1.56 (5 ø 6.3)	8.04 2x(8 ø 8.0)	2.01 (4 ø 8.0)	-	1.01 (ø 8.0 c/10)
B91	2 C40-17m	190.00 70.00	60.00	8.59 (7 ø 12.5)	-	1.56 (5 ø 6.3)	8.04 2x(8 ø 8.0)	2.01 (4 ø 8.0)	-	1.01 (ø 8.0 c/10)
B92	1 C30-11m	60.00 60.00		-	-	1.56 (5 ø 6.3)	1.25 2x(2 ø 6.3)	-	-	-
B93	1 C40-17m	70.00 70.00		-	-	1.56 (5 ø 6.3)	1.25 2x(2 ø 6.3)	-	-	-
B94	2 C40-17m	190.00 70.00	55.00	8.04 (4 ø 16.0)	-	1.56 (5 ø 6.3)	8.04 2x(8 ø 8.0)	2.01 (4 ø 8.0)	-	1.01 (ø 8.0 c/10)

B95	2 C40-17m	190.00 70.00	55.00	10.05 (5 ø 16.0)	-	1.56 (5 ø 6.3)	8.04 2x(8 ø 8.0)	2.01 (4 ø 8.0)	-	1.01 (ø 8.0 c/10)
B96	1 C30-14m	60.00 60.00		-	-	1.56 (5 ø 6.3)	1.25 2x(2 ø 6.3)	-	-	-
B97	1 C50-20m	80.00 80.00		-	-	3.93 (5 ø 10.0)	2.01 2x(2 ø 8.0)	-	-	-
B98	2 C50-20m	230.00 80.00	80.00	16.08 (8 ø 16.0)	-	2.51 (5 ø 8.0)	10.05 2x(10 ø 8.0)	3.14 (4 ø 10.0)	-	1.01 (ø 8.0 c/10)
B99	1 C50-20m	80.00 80.00		-	-	3.02 (6 ø 8.0)	2.01 2x(2 ø 8.0)	-	-	-
B100	2 C40-17m	190.00 70.00	60.00	10.05 (5 ø 16.0)	-	1.56 (5 ø 6.3)	8.04 2x(8 ø 8.0)	2.01 (4 ø 8.0)	-	1.01 (ø 8.0 c/10)
B101	2 C40-20m	190.00 70.00	60.00	12.06 (6 ø 16.0)	-	1.56 (5 ø 6.3)	8.04 2x(8 ø 8.0)	2.51 (5 ø 8.0)	-	1.01 (ø 8.0 c/10)
B102	2 C50-20m	230.00 80.00	70.00	16.08 (8 ø 16.0)	-	2.51 (5 ø 8.0)	10.05 2x(10 ø 8.0)	3.14 (4 ø 10.0)	-	1.01 (ø 8.0 c/10)
B105	2 C50-20m	230.00 80.00	70.00	16.08 (8 ø 16.0)	-	2.51 (5 ø 8.0)	10.05 2x(10 ø 8.0)	3.14 (4 ø 10.0)	-	1.01 (ø 8.0 c/10)
B106	2 C50-20m	230.00 80.00	75.00	16.08 (8 ø 16.0)	-	2.51 (5 ø 8.0)	10.05 2x(10 ø 8.0)	3.14 (4 ø 10.0)	-	1.01 (ø 8.0 c/10)
B107	1 C50-20m	80.00 80.00		-	-	3.93 (5 ø 10.0)	2.01 2x(2 ø 8.0)	-	-	-
B108	1 C50-20m	80.00 80.00		-	-	3.93 (5 ø 10.0)	2.01 2x(2 ø 8.0)	-	-	-
B109	2 C50-20m	230.00 80.00	80.00	16.08 (8 ø 16.0)	-	2.51 (5 ø 8.0)	10.05 2x(10 ø 8.0)	3.14 (4 ø 10.0)	-	1.01 (ø 8.0 c/10)
B110	2 C50-20m	230.00 80.00	75.00	16.08 (8 ø 16.0)	-	2.51 (5 ø 8.0)	10.05 2x(10 ø 8.0)	3.14 (4 ø 10.0)	-	1.01 (ø 8.0 c/10)
B111	3 C50-20m	242.38 209.90	100.00	12.06 (6 ø 16.0)	-	1.87 (6 ø 6.3)	-	5.03 (10 ø 8.0)	6.03 (12 ø 8.0)	2.98 (ø 8.0 c/20)
B112	3 C50-20m	242.38 209.90	105.00	12.06 (6 ø 16.0)	-	1.87 (6 ø 6.3)	-	5.03 (10 ø 8.0)	6.03 (12 ø 8.0)	2.98 (ø 8.0 c/20)
B115	3 C50-20m	242.38 209.90	100.00	12.06 (6 ø 16.0)	-	1.87 (6 ø 6.3)	-	5.03 (10 ø 8.0)	6.03 (12 ø 8.0)	2.98 (ø 8.0 c/20)
B116	3 C50-20m	242.38 209.90	110.00	12.06 (6 ø 16.0)	-	1.87 (6 ø 6.3)	-	5.03 (10 ø 8.0)	6.03 (12 ø 8.0)	2.98 (ø 8.0 c/20)
B117	1 C50-20m	80.00 80.00		-	-	3.93 (5 ø 10.0)	2.01 2x(2 ø 8.0)	-	-	-
B118	1 C40-17m	70.00 70.00		-	-	2.51 (5 ø 8.0)	1.25 2x(2 ø 6.3)	-	-	-
B119	1 C60-20m	90.00 90.00		-	-	3.93 (5 ø 10.0)	2.01 2x(2 ø 8.0)	-	-	-
B120	1 C50-20m	80.00 80.00		-	-	3.93 (5 ø 10.0)	2.01 2x(2 ø 8.0)	-	-	-
B121	1 C30-11m	60.00 60.00		-	-	1.56 (5 ø 6.3)	1.25 2x(2 ø 6.3)	-	-	-
B122	1 C30-14m	60.00 60.00		-	-	1.56 (5 ø 6.3)	1.25 2x(2 ø 6.3)	-	-	-
B123	1 C40-17m	70.00 70.00		-	-	1.56 (5 ø 6.3)	1.25 2x(2 ø 6.3)	-	-	-
B124	1 C30-14m	60.00 60.00		-	-	1.56 (5 ø 6.3)	1.25 2x(2 ø 6.3)	-	-	-
B125	1 C30-11m	60.00 60.00		-	-	1.56 (5 ø 6.3)	1.25 2x(2 ø 6.3)	-	-	-
B126	1 C40-20m	70.00 70.00		-	-	2.51 (5 ø 8.0)	1.25 2x(2 ø 6.3)	-	-	-
B127	2 C50-17m	230.00 80.00	70.00	12.06 (6 ø 16.0)	-	1.56 (5 ø 6.3)	10.05 2x(10 ø 8.0)	3.14 (4 ø 10.0)	-	1.01 (ø 8.0 c/10)
B128	2 C50-17m	230.00 80.00	70.00	12.06 (6 ø 16.0)	-	1.56 (5 ø 6.3)	10.05 2x(10 ø 8.0)	2.51 (5 ø 8.0)	-	1.01 (ø 8.0 c/10)

B129	2 C50-20m	230.00 80.00	70.00	16.08 (8 ø 16.0)	-	2.51 (5 ø 8.0)	10.05 2x(10 ø 8.0)	3.14 (4 ø 10.0)	-	1.01 (ø 8.0 c/10)
B130	2 C50-20m	230.00 80.00	75.00	16.08 (8 ø 16.0)	-	2.51 (5 ø 8.0)	10.05 2x(10 ø 8.0)	3.14 (4 ø 10.0)	-	1.01 (ø 8.0 c/10)
B133	2 C60-20m	270.00 90.00	90.00	16.08 (8 ø 16.0)	-	2.51 (5 ø 8.0)	11.06 2x(11 ø 8.0)	3.93 (5 ø 10.0)	-	1.01 (ø 8.0 c/10)
B134	2 C60-20m	270.00 90.00	90.00	18.10 (9 ø 16.0)	-	2.51 (5 ø 8.0)	11.06 2x(11 ø 8.0)	3.93 (5 ø 10.0)	-	1.01 (ø 8.0 c/10)
B135	1 C50-20m	80.00 80.00		-	-	2.51 (5 ø 8.0)	1.25 2x(2 ø 6.3)	-	-	-
B9-10	2 C40-20m	190.00 70.00	70.00	12.06 (6 ø 16.0)	-	1.56 (5 ø 6.3)	8.04 2x(8 ø 8.0)	2.51 (5 ø 8.0)	-	1.01 (ø 8.0 c/10)
B32-33	2 C50-20m	230.00 80.00	80.00	16.08 (8 ø 16.0)	-	2.51 (5 ø 8.0)	10.05 2x(10 ø 8.0)	3.93 (5 ø 10.0)	-	1.01 (ø 8.0 c/10)
B43-44	2 C50-20m	230.00 80.00	80.00	20.11 (10 ø 16.0)	-	2.51 (5 ø 8.0)	10.05 2x(10 ø 8.0)	4.91 (4 ø 12.5)	-	1.01 (ø 8.0 c/10)
B64-65	3 C50-20m	242.38 209.90	90.00	16.08 (8 ø 16.0)	-	2.51 (5 ø 8.0)	-	6.03 (12 ø 8.0)	6.53 (13 ø 8.0)	4.14 (ø 8.0 c/20)
B76-77	3 C50-20m	242.38 209.90	90.00	14.07 (7 ø 16.0)	-	1.56 (5 ø 6.3)	-	5.03 (10 ø 8.0)	6.03 (12 ø 8.0)	3.25 (ø 8.0 c/20)
B83-84	2 C40-20m	190.00 70.00	70.00	14.07 (7 ø 16.0)	-	1.56 (5 ø 6.3)	8.04 2x(8 ø 8.0)	3.14 (4 ø 10.0)	-	1.01 (ø 8.0 c/10)
B103-104	2 C40-20m	190.00 70.00	70.00	14.07 (7 ø 16.0)	-	2.51 (5 ø 8.0)	8.04 2x(8 ø 8.0)	3.14 (4 ø 10.0)	-	1.01 (ø 8.0 c/10)
B113-114	3 C40-20m	200.83 173.92	75.00	12.06 (6 ø 16.0)	-	1.56 (5 ø 6.3)	-	4.52 (9 ø 8.0)	5.03 (10 ø 8.0)	2.82 (ø 8.0 c/20)
B131-132	2 C50-20m	230.00 80.00	80.00	16.08 (8 ø 16.0)	-	2.51 (5 ø 8.0)	10.05 2x(10 ø 8.0)	3.93 (5 ø 10.0)	-	1.01 (ø 8.0 c/10)
BB1	1 C30-11m	60.00 60.00		-	-	1.56 (5 ø 6.3)	1.25 2x(2 ø 6.3)	-	-	-
BB2	1 C30-11m	60.00 60.00		-	-	1.56 (5 ø 6.3)	1.25 2x(2 ø 6.3)	-	-	-
BB3	1 C30-11m	60.00 60.00		-	-	1.56 (5 ø 6.3)	1.25 2x(2 ø 6.3)	-	-	-
BB4	1 C30-11m	60.00 60.00		-	-	1.56 (5 ø 6.3)	1.25 2x(2 ø 6.3)	-	-	-

5. Cálculo dos Pilares

NV-000	$f_{ck} = 400.00 \text{ kgf/cm}^2$	$E = 318758 \text{ kgf/cm}^2$	Peso Espec = 2500.00 kgf/m^3
Lance 1		$\text{cobr} = 3.00 \text{ cm}$	

Pilar	Seção (cm)	vínc esb B vínc esb H	Nd máx Nd mín (tf)	Msd(x) Msd(y) (kgf.m)	Mrd(x) Mrd(y) (kgf.m)	Mrd/Msd	As b As h (cm ²)
P1	20.00 X 40.00	RR 2.08 RR 1.04	30.47 19.33	600 1735	3240 9367	(*) 5.40	3.14 (4 ø 10.0) 5.50 (7 ø 10.0)
P2	15.00 X 40.00	RR 2.77 RR 1.04	5.47 3.91	893 583	1350 882	1.51	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P3	20.00 X 40.00	RR 2.08 RR 1.04	44.09 26.58	852 855	3486 3498	(*) 4.09	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P4	15.00 X 40.00	RR 2.77 RR 1.04	5.61 4.01	892 765	1317 1129	1.48	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P5	20.00 X 40.00	RR 2.08 RR 1.04	42.96 26.19	835 811	3485 3384	(*) 4.17	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P6	15.00 X 40.00	RR 2.77 RR 1.04	5.54 3.99	1769 294	1920 319	1.09	2.45 (2 ø 12.5) 3.68 (3 ø 12.5)
P7	20.00 X 40.00	RR 2.08 RR 1.04	66.17 39.52	1390 3355	5040 12167	(*) 3.63	9.42 (3 ø 20.0) 9.42 (3 ø 20.0)
P8	20.00 X 40.00	RR 12.46 RR 6.23	55.15 34.04	1117 1018	3897 3553	(*) 3.49	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P9	15.00 X 50.00	RR 26.53 RR 7.96	25.22 15.30	1015 382	2595 978	(*) 2.56	2.45 (2 ø 12.5) 3.68 (3 ø 12.5)
P10	15.00 X 50.00	RR 26.53 RR 30.79	38.01 22.75	738 4936	2223 14862	(*) 3.01	2.36 (3 ø 10.0) 10.21 (13 ø 10.0)
P11	20.00 X 40.00	RR 19.38 RR 38.23	72.24 42.83	1517 6552	3690 15937	(*) 2.43	9.42 (3 ø 20.0) 9.42 (3 ø 20.0)
P12	20.00 X 40.00	RR 19.38 RR 38.23	72.90 43.23	1531 6440	4053 17050	(*) 2.65	9.42 (3 ø 20.0) 12.57 (4 ø 20.0)

P13	20.00 X 40.00	RR 12.46 RR 6.23	31.71 20.03	946 533	6133 3457	(*) 6.49	6.28 (2 ø 20.0) 9.42 (3 ø 20.0)
P14	15.00 X 40.00	RR 2.77 RR 1.04	23.96 14.19	726 517	1856 1321	(*) 2.56	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P15	15.00 X 40.00	RR 2.77 RR 1.04	7.34 5.33	877 1439	1253 2054	1.43	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P16	15.00 X 40.00	RR 2.77 RR 1.04	75.39 42.01	1459 1285	2943 2590	(*) 2.02	1.57 (2 ø 10.0) 4.71 (6 ø 10.0)
P17	15.00 X 40.00	RR 2.77 RR 1.04	7.44 5.40	877 1661	1218 2306	1.39	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P18	15.00 X 40.00	RR 2.77 RR 1.04	73.97 42.08	1439 369	3256 836	(*) 2.26	1.57 (2 ø 10.0) 3.93 (5 ø 10.0)
P19	15.00 X 40.00	RR 2.77 RR 1.04	6.76 4.83	191 1965	437 4496	2.29	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P20	15.00 X 40.00	RR 16.61 RR 6.23	81.00 46.29	1652 769	3650 1699	(*) 2.21	1.57 (2 ø 10.0) 7.07 (9 ø 10.0)
P21	15.00 X 40.00	RR 78.89 RR 1.04	29.37 16.87	1696 489	2336 674	(*) 1.38	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P22	15.00 X 40.00	RR 2.77 RR 1.04	7.25 5.28	1210 2457	1402 2848	1.16	1.57 (2 ø 10.0) 3.14 (4 ø 10.0)
P23	20.00 X 40.00	RR 2.08 RR 1.04	42.58 26.85	853 854	5096 5104	(*) 5.97	1.57 (2 ø 10.0) 7.07 (9 ø 10.0)
P24	15.00 X 40.00	RR 2.77 RR 1.04	4.67 3.26	1026 490	1345 642	1.31	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P25	20.00 X 40.00	RR 2.08 RR 29.58	62.99 37.77	1225 1644	3683 4944	(*) 3.01	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P26	15.00 X 40.00	RR 2.77 RR 1.04	5.71 4.13	1039 238	1448 332	1.39	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P27	20.00 X 40.00	RR 2.08 RR 1.04	64.60 38.73	1284 1204	4103 3845	(*) 3.19	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)

P28	15.00 X 40.00	RR 2.77 RR 1.04	3.69 2.67	95 702	534 3924	5.59	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P29	20.00 X 40.00	RR 2.08 RR 1.04	97.04 55.64	2023 826	5021 2051	(*) 2.48	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P30	15.00 X 40.00	RR 2.77 RR 1.04	1.56 0.85	340 386	1102 1251	3.24	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P31	20.00 X 40.00	RR 2.08 RR 1.04	61.95 37.01	1226 1197	4002 3909	(*) 3.27	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P32	20.00 X 30.00	RR 1.73 RR 1.15	28.76 17.56	561 1075	2388 4572	(*) 4.25	3.14 (4 ø 10.0) 2.36 (3 ø 10.0)
P33	20.00 X 30.00	RR 58.82 RR 1.15	41.80 24.84	1639 815	3793 1887	(*) 2.31	3.14 (4 ø 10.0) 2.36 (3 ø 10.0)
P34	20.00 X 40.00	RR 19.38 RR 38.23	97.99 57.16	2031 3110	5857 8966	(*) 2.88	9.42 (3 ø 20.0) 9.42 (3 ø 20.0)
P35	20.00 X 40.00	RR 19.38 RR 38.23	103.62 60.79	2157 3982	3669 6774	(*) 1.70	1.57 (2 ø 10.0) 3.14 (4 ø 10.0)
P36	20.00 X 40.00	RR 12.46 RR 6.23	42.42 26.58	910 981	5067 5461	(*) 5.57	2.45 (2 ø 12.5) 7.36 (6 ø 12.5)
P37	20.00 X 40.00	RR 2.08 RR 1.04	42.22 26.64	1724 959	6305 3507	(*) 3.66	6.28 (2 ø 20.0) 9.42 (3 ø 20.0)
P38	20.00 X 40.00	RR 15.92 RR 7.96	85.97 50.88	1887 1734	4421 4063	(*) 2.34	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P39	20.00 X 40.00	RR 2.08 RR 1.04	33.32 20.32	1539 737	3866 1852	(*) 2.51	2.45 (2 ø 12.5) 3.68 (3 ø 12.5)
P40	20.00 X 40.00	RR 2.08 RR 29.58	49.36 28.58	1005 1053	3382 3541	(*) 3.36	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P41	20.00 X 40.00	RR 2.08 RR 29.58	67.57 44.07	1404 1234	4908 4313	(*) 3.49	3.68 (3 ø 12.5) 3.68 (3 ø 12.5)
P42	20.00 X 40.00	RR 2.08 RR 29.58	92.32 56.72	1918 1899	6271 6208	(*) 3.27	6.28 (2 ø 20.0) 9.42 (3 ø 20.0)

P43	15.00 X 50.00	RR 3.46 RR 1.04	41.34 25.71	1454 3759	2308 5968	(*) 1.59	2.45 (2 ø 12.5) 3.68 (3 ø 12.5)
P44	15.00 X 50.00	RR 3.46 RR 23.87	52.47 31.35	1134 7666	1966 13288	(*) 1.73	2.36 (3 ø 10.0) 7.07 (9 ø 10.0)
P45	20.00 X 40.00	RR 2.08 RR 1.04	110.04 64.17	2285 4796	4335 9099	(*) 1.90	6.03 (3 ø 16.0) 6.03 (3 ø 16.0)
P46	20.00 X 40.00	RR 2.08 RR 29.58	103.42 60.33	2153 6417	3769 11236	(*) 1.75	6.03 (3 ø 16.0) 6.03 (3 ø 16.0)
P47	20.00 X 40.00	RR 2.08 RR 1.04	42.13 26.51	1471 953	4968 3219	(*) 3.38	4.02 (2 ø 16.0) 6.03 (3 ø 16.0)
P48	15.00 X 40.00	RR 21.22 RR 7.96	3.79 2.73	594 1643	997 2759	1.68	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P49	15.00 X 40.00	RR 21.22 RR 7.96	5.27 3.76	580 870	1200 1800	2.07	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P50	15.00 X 40.00	RR 78.89 RR 1.04	22.07 12.78	1106 463	2065 864	1.87	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P51	20.00 X 50.00	RR 59.69 RR 23.87	31.76 19.39	1833 2235	3321 4049	(*) 1.81	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P52	20.00 X 50.00	RR 59.69 RR 23.87	33.08 20.28	2254 5278	3842 8996	(*) 1.70	2.36 (3 ø 10.0) 4.71 (6 ø 10.0)
P53	15.00 X 40.00	EL 5.54 RR 1.04	3.83 2.48	71 385	688 3755	9.75	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P54	15.00 X 40.00	RR 78.89 RR 1.04	23.64 13.89	1183 908	1992 1529	1.68	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P55	20.00 X 50.00	EL 4.15 EL 1.66	10.92 7.83	431 244	2186 1240	(*) 5.08	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P56	20.00 X 50.00	EL 4.15 EL 1.66	10.92 7.83	431 244	2186 1240	(*) 5.08	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P57	15.00 X 50.00	RR 21.91 RR 6.57	73.89 40.99	1512 477	4035 1273	(*) 2.67	1.57 (2 ø 10.0) 4.71 (6 ø 10.0)

P58	20.00 X 40.00	RR 15.92 RR 7.96	64.47 39.36	1275 1003	5057 3978	(*) 3.97	1.57 (2 ø 10.0) 4.71 (6 ø 10.0)
P59	20.00 X 40.00	RR 2.08 RR 1.04	9.19 5.26	2745 901	2965 973	1.08	2.45 (2 ø 12.5) 3.68 (3 ø 12.5)
P60	15.00 X 50.00	RR 3.46 RR 1.04	20.37 11.82	2275 4216	2322 4303	1.02	1.57 (2 ø 10.0) 4.71 (6 ø 10.0)
P61	20.00 X 40.00	RR 22.84 RR 11.42	37.79 24.45	1422 154	5559 601	(*) 3.91	4.02 (2 ø 16.0) 6.03 (3 ø 16.0)
P62	20.00 X 40.00	RR 19.38 RR 9.69	25.72 16.18	596 885	2702 4013	(*) 4.53	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P63	15.00 X 40.00	RR 25.83 RR 9.69	32.28 19.72	653 488	2860 2140	(*) 4.38	2.36 (3 ø 10.0) 4.71 (6 ø 10.0)
P64	60.00 X 60.00	RR 6.46 EL 12.92	76.67 48.15	7535 1889	63016 15799	(*) 8.36	15.71 (5 ø 20.0) 15.71 (5 ø 20.0)
P65	20.00 X 30.00	RR 70.58 RR 9.00	29.40 17.59	1601 205	5681 728	(*) 3.55	2.45 (2 ø 12.5) 7.36 (6 ø 12.5)
P66	20.00 X 40.00	RR 12.46 RR 6.23	69.65 41.78	1373 914	9079 6040	(*) 6.61	4.02 (2 ø 16.0) 16.08 (8 ø 16.0)
P67	20.00 X 40.00	RR 2.08 RR 1.04	70.74 42.56	2776 1910	9734 6697	(*) 3.51	4.02 (2 ø 16.0) 18.10 (9 ø 16.0)
P68	20.00 X 40.00	RR 22.84 RR 11.42	36.14 23.22	1215 331	6003 1637	(*) 4.94	3.14 (4 ø 10.0) 6.28 (8 ø 10.0)
P69	20.00 X 50.00	RR 59.69 RR 23.87	28.62 18.08	1846 145	3695 290	(*) 2.00	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P70	20.00 X 50.00	EL 4.15 EL 1.66	10.92 7.83	356 236	2165 1433	(*) 6.07	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P71	20.00 X 50.00	EL 4.15 EL 1.66	10.92 7.83	356 236	2165 1433	(*) 6.07	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P72	20.00 X 50.00	RR 59.69 RR 23.87	37.78 22.84	2894 278	4972 477	(*) 1.72	2.45 (2 ø 12.5) 3.68 (3 ø 12.5)

P73	20.00 X 40.00	RR 22.84 RR 11.42	38.11 24.62	1431 281	6838 1341	(*) 4.78	6.28 (2 ø 20.0) 9.42 (3 ø 20.0)
P74	20.00 X 40.00	RR 19.38 RR 9.69	26.98 16.96	552 1047	2560 4854	(*) 4.64	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P75	15.00 X 40.00	RR 25.83 RR 9.69	31.13 18.96	596 707	2560 3040	(*) 4.30	2.45 (2 ø 12.5) 4.91 (4 ø 12.5)
P76	60.00 X 60.00	RR 25.66 EL 13.26	61.18 39.25	7241 1501	61593 12766	(*) 8.51	15.71 (5 ø 20.0) 15.71 (5 ø 20.0)
P77	15.00 X 60.00	RR 94.11 RR 23.53	14.76 5.76	1618 1595	2887 2846	(*) 1.78	4.02 (2 ø 16.0) 6.03 (3 ø 16.0)
P78	20.00 X 40.00	RR 15.92 RR 7.96	57.58 36.14	1152 2240	4628 8996	(*) 4.02	2.45 (2 ø 12.5) 8.59 (7 ø 12.5)
P79	20.00 X 40.00	RR 19.38 RR 9.69	58.59 36.78	1167 1704	5190 7582	(*) 4.45	2.36 (3 ø 10.0) 7.85 (10 ø 10.0)
P80	20.00 X 40.00	RR 22.84 RR 11.42	35.99 23.17	1432 320	6710 1500	(*) 4.69	6.28 (2 ø 20.0) 9.42 (3 ø 20.0)
P81	15.00 X 50.00	RR 21.91 RR 6.57	71.70 39.75	1355 1209	3608 3219	(*) 2.66	2.45 (2 ø 12.5) 4.91 (4 ø 12.5)
P82	20.00 X 40.00	RR 15.92 RR 7.96	68.95 42.69	1252 1772	4145 5867	(*) 3.31	1.57 (2 ø 10.0) 3.93 (5 ø 10.0)
P83	15.00 X 50.00	RR 79.58 RR 1.04	43.20 24.25	2640 6307	2644 6316	(*) 1.00	2.45 (2 ø 12.5) 4.91 (4 ø 12.5)
P84	15.00 X 50.00	RR 79.58 RR 23.87	32.55 16.80	1850 2182	2276 2685	(*) 1.23	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P85	20.00 X 50.00	EL 4.15 EL 1.66	10.92 7.83	431 244	2186 1240	(*) 5.08	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P86	20.00 X 50.00	EL 4.15 EL 1.66	10.92 7.83	431 244	2186 1240	(*) 5.08	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P87	15.00 X 40.00	RR 2.77 RR 1.04	9.78 5.59	2294 931	2324 943	1.01	1.57 (2 ø 10.0) 4.71 (6 ø 10.0)

P88	15.00 X 40.00	RR 2.77 RR 1.04	26.66 16.10	3732 588	3746 590	1.00	1.57 (2 ø 10.0) 7.85 (10 ø 10.0)
P89	15.00 X 40.00	RR 21.22 RR 7.96	8.03 5.72	3935 246	4242 265	1.08	2.45 (2 ø 12.5) 11.04 (9 ø 12.5)
P90	15.00 X 40.00	RR 78.89 RR 1.04	53.30 28.66	3118 910	3092 902	(*) 0.99	1.57 (2 ø 10.0) 3.14 (4 ø 10.0)
P91	15.00 X 40.00	RR 97.34 RR 7.96	54.50 29.26	4346 213	4432 217	(*) 1.02	1.57 (2 ø 10.0) 7.85 (10 ø 10.0)
P92	15.00 X 40.00	EL 42.44 RR 7.96	5.78 4.20	150 198	1250 1646	8.31	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P93	15.00 X 40.00	RR 97.34 RR 7.96	22.58 13.22	1793 895	2053 1024	1.14	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P94	20.00 X 50.00	RR 59.69 RR 23.87	31.76 19.38	1749 2052	3343 3923	(*) 1.91	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P95	20.00 X 50.00	RR 59.69 RR 23.87	32.52 19.82	2075 4174	3769 7583	(*) 1.82	2.36 (3 ø 10.0) 3.93 (5 ø 10.0)
P96	15.00 X 40.00	RR 2.77 RR 1.04	8.64 6.22	1877 2694	1934 2775	1.03	1.57 (2 ø 10.0) 4.71 (6 ø 10.0)
P97	20.00 X 40.00	RR 2.08 RR 1.04	44.31 28.31	3347 1018	6294 1915	(*) 1.88	2.36 (3 ø 10.0) 7.07 (9 ø 10.0)
P98	20.00 X 40.00	RR 2.08 RR 1.04	82.63 48.84	2318 1765	4286 3263	(*) 1.85	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P99	20.00 X 40.00	RR 2.08 RR 1.04	38.67 24.13	1520 873	3791 2178	(*) 2.49	1.57 (2 ø 10.0) 3.14 (4 ø 10.0)
P100	20.00 X 40.00	RR 2.08 RR 29.58	43.43 24.44	855 1039	3349 4071	(*) 3.92	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P101	20.00 X 40.00	RR 59.17 RR 29.58	60.89 39.29	2359 880	4856 1811	(*) 2.06	2.36 (3 ø 10.0) 2.36 (3 ø 10.0)
P102	20.00 X 40.00	RR 59.17 RR 29.58	68.58 42.40	2646 1572	5276 3135	(*) 1.99	3.68 (3 ø 12.5) 3.68 (3 ø 12.5)

P103	15.00 X 50.00	RR 79.58 RR 1.04	29.37 18.66	1771 5244	1789 5298	(*) 1.01	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P104	15.00 X 50.00	RR 3.46 RR 23.87	36.22 22.01	1709 4390	2427 6235	(*) 1.42	2.45 (2 ø 12.5) 4.91 (4 ø 12.5)
P105	20.00 X 40.00	RR 2.08 RR 1.04	72.79 44.69	1504 1101	4788 3506	(*) 3.18	3.14 (4 ø 10.0) 2.36 (3 ø 10.0)
P106	20.00 X 40.00	RR 9.00 RR 4.50	72.67 45.39	1448 1828	4150 5237	(*) 2.87	1.57 (2 ø 10.0) 3.14 (4 ø 10.0)
P107	20.00 X 40.00	RR 15.92 RR 7.96	41.60 26.19	2035 943	5172 2395	(*) 2.54	4.02 (2 ø 16.0) 6.03 (3 ø 16.0)
P108	20.00 X 40.00	RR 2.08 RR 1.04	42.75 27.10	2231 975	6322 2762	(*) 2.83	2.45 (2 ø 12.5) 8.59 (7 ø 12.5)
P109	20.00 X 40.00	RR 2.08 RR 1.04	80.91 50.00	1616 998	4722 2917	(*) 2.92	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P110	20.00 X 40.00	RR 2.08 RR 1.04	79.73 48.67	1524 2021	4052 5373	(*) 2.66	2.36 (3 ø 10.0) 2.36 (3 ø 10.0)
P111	20.00 X 40.00	RR 9.00 RR 33.04	101.35 58.35	2113 4112	3463 6738	(*) 1.64	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P112	20.00 X 40.00	RR 9.00 RR 33.04	109.46 62.81	2280 3999	4631 8121	(*) 2.03	6.03 (3 ø 16.0) 6.03 (3 ø 16.0)
P113	20.00 X 30.00	RR 58.82 RR 1.15	45.25 26.50	1804 894	4855 2407	(*) 2.69	4.02 (2 ø 16.0) 6.03 (3 ø 16.0)
P114	20.00 X 30.00	RR 58.82 RR 1.15	43.27 25.27	1696 1278	3549 2674	(*) 2.09	3.14 (4 ø 10.0) 2.36 (3 ø 10.0)
P115	20.00 X 40.00	RR 2.08 RR 29.58	108.05 61.91	2240 2775	5162 6398	(*) 2.31	6.03 (3 ø 16.0) 6.03 (3 ø 16.0)
P116	20.00 X 40.00	RR 2.08 RR 29.58	114.53 67.25	2398 3952	3868 6374	(*) 1.61	2.45 (2 ø 12.5) 3.68 (3 ø 12.5)
P117	20.00 X 40.00	RR 2.08 RR 1.04	43.19 27.26	2626 982	5934 2219	(*) 2.26	2.45 (2 ø 12.5) 7.36 (6 ø 12.5)

P118	15.00 X 40.00	RR 2.77 RR 1.04	26.32 15.86	3071 579	3041 574	(*) 0.99	1.57 (2 ø 10.0) 5.50 (7 ø 10.0)
P119	15.00 X 40.00	RR 2.77 RR 1.04	58.39 32.59	1137 466	2851 1167	(*) 2.51	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P120	15.00 X 40.00	RR 2.77 RR 1.04	48.53 26.14	3297 944	3325 952	(*) 1.01	1.57 (2 ø 10.0) 5.50 (7 ø 10.0)
P121	15.00 X 40.00	EL 5.54 RR 1.04	4.45 3.24	87 46	1332 707	15.37	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P122	15.00 X 40.00	RR 2.77 RR 1.04	6.72 4.80	283 471	1229 2045	4.34	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P123	15.00 X 40.00	RR 2.77 RR 1.04	23.30 13.63	425 1088	1491 3813	3.51	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P124	15.00 X 40.00	RR 2.77 RR 1.04	7.65 5.52	435 2686	697 4305	1.60	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P125	15.00 X 40.00	RR 2.77 RR 1.04	5.25 3.84	2965 769	2970 770	1.00	2.45 (2 ø 12.5) 7.36 (6 ø 12.5)
P126	20.00 X 40.00	RR 2.08 RR 1.04	31.39 19.99	1253 1134	4837 4377	(*) 3.86	3.68 (3 ø 12.5) 6.14 (5 ø 12.5)
P127	20.00 X 40.00	RR 2.08 RR 1.04	57.29 35.08	1124 1637	5941 8652	(*) 5.29	9.42 (3 ø 20.0) 9.42 (3 ø 20.0)
P128	20.00 X 40.00	RR 2.08 RR 1.04	52.75 32.46	1036 1602	4767 7371	(*) 4.60	6.03 (3 ø 16.0) 6.03 (3 ø 16.0)
P129	20.00 X 40.00	RR 2.08 RR 29.58	65.06 38.56	1366 5330	3669 14315	(*) 2.69	6.03 (3 ø 16.0) 10.05 (5 ø 16.0)
P130	20.00 X 40.00	RR 2.08 RR 29.58	70.72 41.67	1485 5795	3943 15386	(*) 2.65	9.42 (3 ø 20.0) 9.42 (3 ø 20.0)
P131	15.00 X 50.00	RR 3.46 RR 23.87	36.89 22.14	1036 2629	3207 8139	(*) 3.10	2.36 (3 ø 10.0) 8.64 (11 ø 10.0)
P132	15.00 X 50.00	RR 3.46 RR 23.87	36.47 21.83	925 5429	2373 13934	(*) 2.57	2.36 (3 ø 10.0) 10.21 (13 ø 10.0)

P133	20.00 X 40.00	RR 15.92 RR 36.50	69.44 40.86	1458 6826	3488 16328	(*) 2.39	9.42 (3 ø 20.0) 9.42 (3 ø 20.0)
P134	20.00 X 40.00	RR 15.92 RR 36.50	70.79 41.80	1487 7369	3354 16627	(*) 2.26	9.42 (3 ø 20.0) 9.42 (3 ø 20.0)
P135	20.00 X 40.00	RR 2.08 RR 1.04	31.48 20.07	1891 704	6283 2341	(*) 3.32	6.28 (2 ø 20.0) 9.42 (3 ø 20.0)
PB1	15.00 X 40.00	RR 25.83 RR 9.69	0.92 0.47	28 271	370 3611	13.32	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
PB2	15.00 X 40.00	RR 25.83 RR 9.69	1.19 0.63	241 20	1260 105	5.23	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
PB3	15.00 X 40.00	EL 51.67 RR 9.69	4.27 3.01	127 37	1368 397	10.80	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
PB4	15.00 X 40.00	EL 51.67 RR 9.69	3.05 2.08	59 414	544 3812	9.20	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
PE-1	15.00 X 40.00	RR 99.19 RR 8.65	22.32 12.81	1819 179	2194 216	1.21	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)

(*) Quantidade de barras alterada pelo usuário (para mais)

6. Vigas do pavimento NV-000

Viga	Vãos			Nós			Avisos
	Md (kgf.m)	As	Als	Md (kgf.m)	As	Als	
VB1	592.08	2 ø 10.0		-1142.63	2 ø 10.0		Aviso 26
	247.72	2 ø 10.0		-1062.89	2 ø 10.0		
	222.07	2 ø 10.0		-445.45	2 ø 10.0		
	681.31	2 ø 10.0		-1204.85	2 ø 10.0		
	197.27	2 ø 10.0		-1061.10	2 ø 10.0		
	373.50	4 ø 12.5	4 ø 12.5	-623.03	4 ø 12.5	4 ø 12.5	
	2037.75	2 ø 10.0		-3229.80	4 ø 12.5	4 ø 12.5	
	1807.86	2 ø 10.0		-4362.13	3 ø 10.0		
			-1595.71	2 ø 10.0			
VB2	2785.69	2 ø 12.5		-1362.47	2 ø 12.5		Aviso 26
	1139.18	2 ø 12.5		-4056.67	2 ø 12.5		
	2757.86	2 ø 12.5		-4127.13	2 ø 12.5		
				-2587.54	2 ø 12.5		
VB3	85.33	3 ø 10.0		-0.04	3 ø 10.0		Avisos 26, 02
				-51.84	3 ø 10.0		
VB4	321.85	2 ø 10.0		-0.56	2 ø 10.0		Aviso 26
				-26.69	2 ø 10.0		
VB5	1000.51	2 ø 10.0		-769.31	2 ø 10.0		Aviso 26
	222.81	4 ø 12.5	4 ø 12.5	-2045.39	4 ø 12.5	4 ø 12.5	
	164.80	4 ø 12.5	4 ø 12.5	-187.01	4 ø 12.5	4 ø 12.5	
	1064.98	2 ø 10.0	4 ø 12.5	-2225.56	4 ø 12.5	4 ø 12.5	
				-798.19	2 ø 10.0		
VB6	259.55	2 ø 10.0		-170.17	2 ø 10.0		Aviso 26
				-147.35	2 ø 10.0		
VB7	999.62	2 ø 10.0		-1025.19	2 ø 10.0		Aviso 26
				-6.32	2 ø 10.0		
VB8	150.18	4 ø 12.5	4 ø 12.5	-902.11	4 ø 12.5	4 ø 12.5	Aviso 26
	383.59	2 ø 10.0		-689.38	4 ø 12.5	4 ø 12.5	
	481.68	2 ø 10.0		-910.80	2 ø 10.0		
	390.23	2 ø 10.0		-931.48	2 ø 10.0		
	220.93	4 ø 12.5	4 ø 12.5	-642.27	4 ø 12.5	4 ø 12.5	
	638.78	2 ø 10.0		-1136.38	4 ø 12.5	4 ø 12.5	
				-797.30	2 ø 10.0		
VB9	172.39	4 ø 12.5	4 ø 12.5	-3.58	4 ø 12.5	4 ø 12.5	Avisos 26, 02
	1523.24	2 ø 10.0		-2647.26	4 ø 12.5	4 ø 12.5	
				-2999.23	2 ø 10.0		
VB10	1669.64	4 ø 12.5	4 ø 12.5	-2864.56	4 ø 12.5	4 ø 12.5	Aviso 26
	1929.40	4 ø 16.0	4 ø 16.0	-0.04	4 ø 12.5	4 ø 12.5	
	1906.59	2 ø 12.5		-4125.71	4 ø 16.0	4 ø 16.0	
				-3793.46	2 ø 12.5	4 ø 16.0	
VB11	2125.69	3 ø 10.0		-4074.00	3 ø 10.0		Aviso 26
				-2771.80	3 ø 10.0		
VB12	1887.26	2 ø 10.0	4 ø 12.5	-3008.87	2 ø 10.0		Aviso 26
	463.25	4 ø 12.5	4 ø 12.5	-3630.74	4 ø 12.5	4 ø 12.5	
	241.38	4 ø 12.5	4 ø 12.5	-881.37	4 ø 12.5	4 ø 12.5	
	1528.98	2 ø 10.0	4 ø 12.5	-2667.00	4 ø 12.5	4 ø 12.5	
	1443.82	2 ø 10.0		-3108.88	2 ø 10.0		
	1725.59	2 ø 10.0		-3463.08	2 ø 10.0		
				-2088.35	2 ø 10.0		
VB13	1627.29	2 ø 10.0		-2057.80	2 ø 10.0		Aviso 26
	1468.74	2 ø 10.0		-3373.39	2 ø 10.0		
	1516.21	2 ø 10.0		-3216.00	2 ø 10.0		
				-2593.45	2 ø 10.0		

VB14	1030.77	2 ø 10.0		-487.07 -472.57	2 ø 10.0 2 ø 10.0		Aviso 26
VB15	1007.58	2 ø 10.0		-923.89 -845.24	2 ø 10.0 2 ø 10.0		Aviso 26
VB16	3361.60	3 ø 10.0		-2739.12 -1941.07	3 ø 10.0 3 ø 10.0		Avisos 19, 48
VB17	1717.02 692.88	2 ø 10.0 2 ø 10.0		-2490.84 -3385.14 -889.49	2 ø 10.0 2 ø 10.0 2 ø 10.0		Aviso 26
VB18	1125.41 748.69 1600.87	2 ø 10.0 2 ø 10.0 2 ø 10.0		-2498.80 -2570.97 -3454.34 -2709.63	2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0		Aviso 26
VB19	1720.09 670.54	2 ø 10.0 2 ø 10.0		-2471.60 -3395.80 -914.90	2 ø 10.0 2 ø 10.0 2 ø 10.0		Aviso 26
VB20	36.13 969.80 2460.14	2 ø 10.0 4 ø 12.5 2 ø 10.0	4 ø 12.5	-6099.13 -4393.73 -3079.21	4 ø 12.5 4 ø 12.5 2 ø 10.0	4 ø 12.5 4 ø 12.5	Aviso 26
VB21	901.37	2 ø 10.0		-699.24 -1252.08	2 ø 10.0 2 ø 10.0		Aviso 26
VB22	4081.25	3 ø 10.0		-1906.81 -442.58	3 ø 10.0 3 ø 10.0		Avisos 19, 48
VB23	4912.34	2 ø 12.5		-3494.93 -3320.07	2 ø 10.0 2 ø 10.0		Aviso 26
VB24	399.86	2 ø 10.0		-49.00 -1542.97	2 ø 10.0 2 ø 10.0		Aviso 26
VB25	3495.88 394.42 391.53	2 ø 10.0 4 ø 12.5 2 ø 10.0	4 ø 12.5	-4699.33 -5184.41 -851.57 -382.66	3 ø 10.0 4 ø 12.5 4 ø 12.5 2 ø 10.0	4 ø 12.5 4 ø 12.5	Aviso 26
VB26	2172.00 1424.04 2346.20	2 ø 10.0 2 ø 10.0 2 ø 10.0		-2289.17 -3768.55 -4102.49 -3175.37	2 ø 10.0 2 ø 10.0 3 ø 10.0 2 ø 10.0		Aviso 26
VB27	2532.34 2606.77 993.95 1521.70 1385.70	2 ø 10.0 2 ø 10.0 4 ø 12.5 2 ø 10.0 2 ø 10.0	4 ø 12.5	-3567.28 -4732.21 -4089.94 -2864.69 -3013.78 -2950.41	2 ø 10.0 3 ø 10.0 4 ø 12.5 4 ø 12.5 2 ø 10.0 2 ø 10.0	4 ø 12.5 4 ø 12.5	Aviso 26
VB28	974.46 1780.95 2837.98	4 ø 12.5 2 ø 10.0 2 ø 10.0	4 ø 12.5	-2263.70 -1084.27 -3220.07 -5604.90 -4049.67	4 ø 12.5 4 ø 12.5 4 ø 12.5 2 ø 12.5 3 ø 10.0	4 ø 12.5 4 ø 12.5 4 ø 12.5	Aviso 26
VB29	3531.64 3764.18	2 ø 10.0 2 ø 10.0		-2931.66 -6360.33 -3100.23	2 ø 10.0 4 ø 10.0 2 ø 10.0		Aviso 26
VB30	418.99	2 ø 10.0		-250.00 -344.13	2 ø 10.0 2 ø 10.0		Aviso 26
VB31	595.85	2 ø 10.0		-389.43 -960.66	2 ø 10.0 2 ø 10.0		Aviso 26
VB32	1236.06 1136.69 1120.09 1126.14 1340.62	2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0		-2004.31 -2544.96 -2355.85 -2350.78 -2676.08 -1695.77	2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0		Aviso 26
VB33	1304.12	2 ø 10.0		-1671.54	2 ø 10.0		Aviso 26

	950.84 1931.99	2 ø 10.0 2 ø 10.0		-1102.28 -3027.86 -220.01 -2966.62 -2876.30	2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0		
VB34	726.23 499.12 168.89 647.01 874.32 598.27 626.58 531.98 182.21 560.59 654.63	2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0 4 ø 12.5 2 ø 10.0 4 ø 12.5 2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0	4 ø 12.5 4 ø 12.5	-1360.96 -1549.63 -985.54 -1222.28 -847.13 -1675.59 -1380.97 -1477.29 -1059.30 -1141.02 -1428.96 -1191.33	2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0 4 ø 12.5 4 ø 12.5 4 ø 12.5 2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0	4 ø 12.5 4 ø 12.5 4 ø 12.5 4 ø 12.5	Aviso 26
VB35	1306.86	2 ø 10.0		-4.38 -24.62	2 ø 10.0 2 ø 10.0		Aviso 26
VB36	1460.29	2 ø 10.0					Aviso 26
VB37	1222.82	2 ø 10.0		-872.63 -56.23	2 ø 10.0 2 ø 10.0		Aviso 26
VB38	1306.67	2 ø 10.0		-12.18 -17.33	2 ø 10.0 2 ø 10.0		Aviso 26
VB39	1460.29	2 ø 10.0					Aviso 26
VB40	71.89	2 ø 10.0		-1431.27	2 ø 10.0		Aviso 26
VB41	1022.79	2 ø 10.0		-780.18 -754.62	2 ø 10.0 2 ø 10.0		Aviso 26
VB42	446.08	2 ø 10.0		-63.71 -52.99	2 ø 10.0 2 ø 10.0		Aviso 26
VB43	731.08 494.39	2 ø 10.0 2 ø 10.0		-1371.52 -1533.72 -1058.98	2 ø 10.0 2 ø 10.0 2 ø 10.0		Aviso 26
VB44	648.45 365.12 1201.17	2 ø 10.0 4 ø 12.5 2 ø 10.0	4 ø 12.5	-1303.24 -504.34 -637.51 -792.04	2 ø 10.0 4 ø 12.5 4 ø 12.5 2 ø 10.0	4 ø 12.5 4 ø 12.5	Avisos 26, 02
VB45	1130.61 584.13 123.73	2 ø 10.0 4 ø 12.5 4 ø 12.5	4 ø 12.5 4 ø 12.5	-793.55 -1176.81 -1246.61 -590.52	2 ø 10.0 4 ø 12.5 4 ø 12.5 4 ø 12.5	4 ø 12.5 4 ø 12.5 4 ø 12.5	Avisos 26, 02
VB46	623.88	2 ø 10.0		-1142.12 -1358.91	2 ø 10.0 2 ø 10.0		Aviso 26
VB47	1444.92	2 ø 10.0		-13.75 -18.76	2 ø 10.0 2 ø 10.0		Aviso 26
VB48	1022.64	2 ø 10.0		-779.91 -755.30	2 ø 10.0 2 ø 10.0		Aviso 26
VB49	19.59 601.32 41.06	2 ø 10.0 2 ø 10.0 2 ø 10.0		-1145.13 -1545.43	2 ø 10.0 2 ø 10.0		Aviso 26
VB50	1445.14	2 ø 10.0		-3.60 -28.25	2 ø 10.0 2 ø 10.0		Aviso 26
VB51	1219.02	2 ø 10.0		-883.68 -54.40	2 ø 10.0 2 ø 10.0		Aviso 26
VB52	1257.20	2 ø 10.0		-2317.30 -2500.85	2 ø 10.0 2 ø 10.0		Aviso 26
VB53	1263.94	4 ø 10.0	4 ø 10.0	-2504.61 -2357.39	4 ø 10.0 4 ø 10.0	4 ø 10.0 4 ø 10.0	Aviso 26
VB54	727.97 510.77	2 ø 10.0 2 ø 10.0		-1349.14 -1544.12	2 ø 10.0 2 ø 10.0		Aviso 26

				-998.16	2 ø 10.0		
VB55	572.86 625.59	2 ø 10.0 2 ø 10.0		-1158.42 -1320.71 -1337.75	2 ø 10.0 2 ø 10.0 2 ø 10.0		Aviso 26
VB56	111.19 1734.24	4 ø 12.5 2 ø 10.0	4 ø 12.5	-0.04 -3030.32 -1502.12	4 ø 12.5 4 ø 12.5 2 ø 10.0	4 ø 12.5 4 ø 12.5	Aviso 26
VB57	1183.77	2 ø 10.0		-3066.79 -2324.58	2 ø 10.0 2 ø 10.0		Aviso 26
VB58	543.35 1401.11	2 ø 10.0 2 ø 10.0		-287.97 -3118.46 -14.65	2 ø 10.0 2 ø 10.0 2 ø 10.0		Aviso 26
VB59	470.50 1203.73	2 ø 10.0 2 ø 10.0		-898.62 -1892.61 -1939.62	2 ø 10.0 2 ø 10.0 2 ø 10.0		Aviso 26
VB60	3998.77 755.26 3596.32	4 ø 10.0 2 ø 16.0 2 ø 16.0	2 ø 10.0 2 ø 16.0 2 ø 16.0	-4974.10 -1906.69 -6060.06 -476.25 -493.20 -1997.25 -4225.70	3 ø 12.5 3 ø 10.0 4 ø 12.5 2 ø 16.0 2 ø 16.0 2 ø 16.0 2 ø 12.5	2 ø 10.0 2 ø 10.0 4 ø 12.5 2 ø 16.0 2 ø 16.0 2 ø 16.0	Avisos 26, 04, 06
VB61	184.06 165.09	2 ø 10.0 2 ø 16.0	2 ø 16.0	-297.12 -436.91 -467.82	2 ø 10.0 2 ø 16.0 2 ø 16.0	2 ø 16.0 2 ø 16.0	Aviso 26
VB62	104.87 71.86	2 ø 12.5 2 ø 12.5		-16.69 -2811.63 -87.42	2 ø 12.5 2 ø 12.5 2 ø 12.5		Aviso 26
VB63	212.59 434.22	2 ø 10.0 2 ø 10.0		-5546.27	2 ø 12.5		Aviso 26
VB64	774.21 794.70	2 ø 10.0 2 ø 10.0		-64.95 -1578.42 -47.41	2 ø 10.0 2 ø 10.0 2 ø 10.0		Aviso 26
VB65	576.30 714.66	2 ø 10.0 2 ø 10.0		-1382.10 -1721.06 -735.32	2 ø 10.0 2 ø 10.0 2 ø 10.0		Aviso 26
VB66	474.20 484.79	4 ø 12.5 4 ø 12.5	4 ø 12.5 4 ø 12.5	-2042.14 -1089.15 -1736.59	4 ø 12.5 4 ø 12.5 4 ø 12.5	4 ø 12.5 4 ø 12.5 4 ø 12.5	Aviso 26
VB67	5.62 2276.84	2 ø 10.0 2 ø 10.0		-4.80 -4052.00 -86.79	2 ø 10.0 3 ø 10.0 2 ø 10.0		Aviso 26
VB68	690.06 722.57	2 ø 10.0 2 ø 10.0		-1313.87 -1716.07 -819.13	2 ø 10.0 2 ø 10.0 2 ø 10.0		Aviso 26
VB69	33.26 215.14	3 ø 10.0 3 ø 10.0		-46.05 -1689.86 -0.04	3 ø 10.0 3 ø 10.0 3 ø 10.0		Aviso 26
VB70	2521.59	2 ø 10.0		-2487.45 -114.98	2 ø 10.0 2 ø 10.0		Aviso 26
VB71	617.50 579.53	2 ø 10.0 2 ø 10.0		-2941.26	2 ø 10.0		Aviso 26
VB72	13.96	3 ø 10.0		-240.35 -32.32	3 ø 10.0 3 ø 10.0		Avisos 26, 02
VB73	603.30 546.51	2 ø 10.0 2 ø 10.0		-2921.06	2 ø 10.0		Aviso 26
VB74	626.08 587.94 200.53 590.88	2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0		-1265.57 -1417.00 -1083.56 -1274.91	2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0		Aviso 26

	CINNANTI ARQUITETURA E ENGENHARIA LTDA	
	SECRETARIA DE ESTADO DE EDUCAÇÃO DO DISTRITO FEDERAL SEEDF	29/12/2022

	604.76	4 ø 12.5	4 ø 12.5	-1560.88	4 ø 12.5	4 ø 12.5	
	559.35	4 ø 12.5	4 ø 12.5	-1418.91	4 ø 12.5	4 ø 12.5	
	603.55	4 ø 12.5	4 ø 12.5	-1471.27	4 ø 12.5	4 ø 12.5	
	583.67	2 ø 10.0		-1537.83	4 ø 12.5	4 ø 12.5	
	180.25	4 ø 12.5	4 ø 12.5	-1331.42	4 ø 12.5	4 ø 12.5	
	648.12	4 ø 12.5	4 ø 12.5	-1089.65	4 ø 12.5	4 ø 12.5	
	662.56	2 ø 10.0		-1679.34	4 ø 12.5	4 ø 12.5	
				-1485.37	2 ø 10.0		
VC1	6.56	3 ø 12.5	3 ø 10.0	-0.04 -0.04	3 ø 10.0 3 ø 10.0		Avisos 26, 03

7. Pavimento TÉRREO NV-320

8. Cálculo dos Pilares

TÉRREO NV-320	$f_{ck} = 400.00 \text{ kgf/cm}^2$	$E = 318758 \text{ kgf/cm}^2$	Peso Espec = 2500.00 kgf/m^3
Lance 2		$\text{cobr} = 3.00 \text{ cm}$	

Pilar	Seção (cm)	vínc esb B vínc esb H	Nd máx Nd mín (tf)	Msd(x) Msd(y) (kgf.m)	Mrd(x) Mrd(y) (kgf.m)	Mrd/Msd	As b As h (cm ²)
P1	20.00 X 40.00	RR					3.14
		57.09	27.09	2418	5881	(*)	(4 ø 10.0)
		RR	16.30	3	8	2.43	5.50
		28.54					(7 ø 10.0)
P3	20.00 X 40.00	RR					1.57
		57.09	40.53	1562	3372	(*)	(2 ø 10.0)
		RR	23.42	1873	4045	2.16	2.36
		28.54					(3 ø 10.0)
P5	20.00 X 40.00	RR					1.57
		57.09	38.27	1460	3227	(*)	(2 ø 10.0)
		RR	22.18	1938	4283	2.21	2.36
		28.54					(3 ø 10.0)
P7	20.00 X 40.00	RR					9.42
		57.09	59.93	1244	2176	(*)	(3 ø 20.0)
		RR	34.30	10805	18891	1.75	9.42
		28.54					(3 ø 20.0)
P8	20.00 X 40.00	RR					1.57
		57.09	45.82	1769	3355	(*)	(2 ø 10.0)
		RR	26.59	2559	4853	1.90	2.36
		28.54					(3 ø 10.0)
P9	15.00 X 50.00	RR					2.45
		76.12	21.46	2012	2473	(*)	(2 ø 12.5)
		RR	12.12	1456	1790	1.23	3.68
		22.84					(3 ø 12.5)
P10	15.00 X 50.00	RR					2.36
		76.12	34.22	2629	3755	(*)	(3 ø 10.0)
		RR	19.63	5173	7388	1.43	10.21
		30.79					(13 ø 10.0)
P11	20.00 X 40.00	RR					9.42
		57.09	66.00	2181	3138	(*)	(3 ø 20.0)
		RR	37.71	11823	17007	1.44	9.42
		38.23					(3 ø 20.0)
P12	20.00 X 40.00	RR					9.42
		57.09	66.29	1840	2985	(*)	(3 ø 20.0)
		RR	37.89	11804	19146	1.62	12.57
		38.23					(4 ø 20.0)
P13	20.00 X 40.00	RR					6.28
		57.09	26.64	2885	6403	(*)	(2 ø 20.0)
		RR	16.02	838	1860	2.22	9.42
		28.54					(3 ø 20.0)
P14	15.00 X 40.00	RR					1.57
		76.12	17.75	848	1849	(*)	(2 ø 10.0)
		RR	9.07	506	1105	2.18	2.36
		28.54					(3 ø 10.0)

P16	15.00 X 40.00	RR 76.12 RR 28.54	71.73 38.75	3565 425	3548 423	(*) 1.00	1.57 (2 ø 10.0) 4.71 (6 ø 10.0)
P18	15.00 X 40.00	RR 76.12 RR 28.54	67.81 36.94	3353 487	3372 489	(*) 1.01	1.57 (2 ø 10.0) 3.93 (5 ø 10.0)
P20	15.00 X 40.00	RR 76.12 RR 28.54	75.54 41.69	3766 970	3888 1001	(*) 1.03	1.57 (2 ø 10.0) 7.07 (9 ø 10.0)
P21	15.00 X 40.00	RR 78.89 RR 28.54	28.12 15.36	1694 277	2374 389	(*) 1.40	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P23	20.00 X 40.00	RR 57.09 RR 28.54	38.76 23.54	3384 277	6517 534	(*) 1.93	1.57 (2 ø 10.0) 7.07 (9 ø 10.0)
P25	20.00 X 40.00	RR 57.09 RR 29.58	60.36 35.20	2331 1507	4386 2835	(*) 1.88	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P27	20.00 X 40.00	RR 57.09 RR 28.54	60.83 35.25	2327 1059	4611 2099	(*) 1.98	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P29	20.00 X 40.00	RR 57.09 RR 28.54	93.31 52.20	3624 4670	4021 5182	(*) 1.11	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P31	20.00 X 40.00	RR 57.09 RR 28.54	56.55 32.30	2187 655	4700 1408	(*) 2.15	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P32	20.00 X 30.00	RR 57.09 RR 38.06	25.60 14.73	31 5767	36 6683	(*) 1.16	3.14 (4 ø 10.0) 2.36 (3 ø 10.0)
P33	20.00 X 30.00	RR 57.09 RR 38.06	38.92 22.28	484 6869	507 7203	(*) 1.05	3.14 (4 ø 10.0) 2.36 (3 ø 10.0)
P34	20.00 X 40.00	RR 57.09 RR 38.23	91.00 51.51	3561 4827	6128 8307	(*) 1.72	9.42 (3 ø 20.0) 9.42 (3 ø 20.0)
P35	20.00 X 40.00	RR 57.09 RR 38.23	96.65 55.13	3791 6227	3865 6348	(*) 1.02	1.57 (2 ø 10.0) 3.14 (4 ø 10.0)
P36	20.00 X 40.00	RR 57.09 RR 28.54	36.66 22.00	3762 606	6340 1022	(*) 1.69	2.45 (2 ø 12.5) 7.36 (6 ø 12.5)
P37	20.00 X 40.00	RR 57.09 RR 28.54	36.73 22.04	3505 236	7262 489	(*) 2.07	6.28 (2 ø 20.0) 9.42 (3 ø 20.0)

P38	20.00 X 40.00	RR 57.09 RR 28.54	79.72 45.61	3148 2722	4483 3876	(*) 1.42	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P39	20.00 X 40.00	RR 57.09 RR 28.54	28.91 16.62	2388 1039	3954 1720	(*) 1.66	2.45 (2 ø 12.5) 3.68 (3 ø 12.5)
P40	20.00 X 40.00	RR 57.09 RR 29.58	45.17 25.02	1800 135	4281 321	(*) 2.38	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P41	20.00 X 40.00	RR 57.09 RR 29.58	62.10 39.43	2377 1050	5373 2373	(*) 2.26	3.68 (3 ø 12.5) 3.68 (3 ø 12.5)
P42	20.00 X 40.00	RR 57.09 RR 29.58	86.73 51.96	3406 1941	7133 4064	(*) 2.09	6.28 (2 ø 20.0) 9.42 (3 ø 20.0)
P43	15.00 X 50.00	RR 76.12 RR 17.94	33.51 18.20	2775 2391	2791 2406	(*) 1.01	2.45 (2 ø 12.5) 3.68 (3 ø 12.5)
P44	15.00 X 50.00	RR 76.12 RR 22.84	49.55 28.50	3567 5783	3570 5787	(*) 1.00	2.36 (3 ø 10.0) 7.07 (9 ø 10.0)
P45	20.00 X 40.00	RR 57.09 RR 28.54	102.70 58.14	4044 7208	4659 8304	(*) 1.15	6.03 (3 ø 16.0) 6.03 (3 ø 16.0)
P46	20.00 X 40.00	RR 57.09 RR 29.58	97.98 55.69	3854 7370	4577 8753	(*) 1.19	6.03 (3 ø 16.0) 6.03 (3 ø 16.0)
P47	20.00 X 40.00	RR 57.09 RR 28.54	36.78 22.06	3463 890	5529 1420	(*) 1.60	4.02 (2 ø 16.0) 6.03 (3 ø 16.0)
P50	15.00 X 40.00	RR 78.89 RR 28.54	17.95 9.17	904 746	1789 1476	1.98	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P51	20.00 X 50.00	RR 59.69 RR 23.87	19.11 9.57	2222 5143	2362 5466	(*) 1.06	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P52	20.00 X 50.00	RR 59.69 RR 23.87	20.43 10.46	3070 10196	3070 10197	(*) 1.00	2.36 (3 ø 10.0) 4.71 (6 ø 10.0)
P54	15.00 X 40.00	RR 78.89 RR 28.54	19.49 10.29	988 902	1819 1661	1.84	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P55	20.00 X 50.00	EL 114.18 EL 45.67	1.07 0.00	549 231	1722 726	(*) 3.14	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)

P56	20.00 X 50.00	EL 114.18 EL 45.67	1.07 0.00	549 231	1722 726	(*) 3.14	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P57	15.00 X 50.00	RR 76.12 RR 22.84	69.56 37.37	3332 4227	3366 4269	(*) 1.01	1.57 (2 ø 10.0) 4.71 (6 ø 10.0)
P58	20.00 X 40.00	RR 57.09 RR 28.54	60.33 35.99	2335 2881	4509 5563	(*) 1.93	1.57 (2 ø 10.0) 4.71 (6 ø 10.0)
P61	20.00 X 40.00	RR 57.09 RR 28.54	31.59 19.49	2326 610	5289 1386	(*) 2.27	4.02 (2 ø 16.0) 6.03 (3 ø 16.0)
P62	20.00 X 40.00	RR 57.09 RR 28.54	19.28 11.58	152 3320	284 6205	(*) 1.87	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P63	15.00 X 40.00	RR 76.12 RR 28.54	26.59 15.63	1206 1300	2602 2806	(*) 2.16	2.36 (3 ø 10.0) 4.71 (6 ø 10.0)
P64	60.00 X 60.00	RR 18.74 EL 37.48	75.86 45.03	7837 3374	62771 27023	(*) 8.01	15.71 (5 ø 20.0) 15.71 (5 ø 20.0)
P65	20.00 X 30.00	RR 70.58 RR 38.06	27.12 15.74	1976 3183	3289 5298	(*) 1.66	2.45 (2 ø 12.5) 7.36 (6 ø 12.5)
P66	20.00 X 40.00	RR 57.09 RR 28.54	64.06 37.28	6899 1370	10932 2170	(*) 1.58	4.02 (2 ø 16.0) 16.08 (8 ø 16.0)
P67	20.00 X 40.00	RR 57.09 RR 28.54	66.41 38.82	6920 1266	11947 2186	(*) 1.73	4.02 (2 ø 16.0) 18.10 (9 ø 16.0)
P68	20.00 X 40.00	RR 57.09 RR 28.54	30.02 18.39	3321 340	6241 639	(*) 1.88	3.14 (4 ø 10.0) 6.28 (8 ø 10.0)
P69	20.00 X 50.00	RR 59.69 RR 23.87	15.97 8.26	2149 722	2810 945	(*) 1.31	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P70	20.00 X 50.00	EL 114.18 EL 45.67	1.07 0.00	482 0	1783 0	(*) 3.70	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P71	20.00 X 50.00	EL 114.18 EL 45.67	1.07 0.00	482 0	1783 0	(*) 3.70	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P72	20.00 X 50.00	RR 59.69 RR 23.87	25.13 13.01	4048 619	4188 641	(*) 1.03	2.45 (2 ø 12.5) 3.68 (3 ø 12.5)

P73	20.00 X 40.00	RR 57.09 RR 28.54	31.59 19.43	2316 397	6829 1172	(*) 2.95	6.28 (2 ø 20.0) 9.42 (3 ø 20.0)
P74	20.00 X 40.00	RR 57.09 RR 28.54	20.52 12.31	179 3391	337 6359	(*) 1.88	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P75	15.00 X 40.00	RR 76.12 RR 28.54	25.89 15.19	1173 1256	2487 2663	(*) 2.12	2.45 (2 ø 12.5) 4.91 (4 ø 12.5)
P76	60.00 X 60.00	RR 18.74 EL 37.48	60.22 36.38	6525 2130	61746 20158	(*) 9.46	15.71 (5 ø 20.0) 15.71 (5 ø 20.0)
P77	15.00 X 60.00	RR 94.11 RR 23.53	14.49 4.87	2315 1036	3078 1377	(*) 1.33	4.02 (2 ø 16.0) 6.03 (3 ø 16.0)
P78	20.00 X 40.00	RR 57.09 RR 28.54	51.09 30.91	1973 1347	6330 4321	(*) 3.21	2.45 (2 ø 12.5) 8.59 (7 ø 12.5)
P79	20.00 X 40.00	RR 57.09 RR 28.54	51.57 31.24	1995 1155	6503 3763	(*) 3.26	2.36 (3 ø 10.0) 7.85 (10 ø 10.0)
P80	20.00 X 40.00	RR 57.09 RR 28.54	29.50 18.09	3225 392	6826 829	(*) 2.12	6.28 (2 ø 20.0) 9.42 (3 ø 20.0)
P81	15.00 X 50.00	RR 76.12 RR 22.84	68.30 36.70	3272 4043	3398 4198	(*) 1.04	2.45 (2 ø 12.5) 4.91 (4 ø 12.5)
P82	20.00 X 40.00	RR 57.09 RR 28.54	64.69 39.03	2505 2740	4505 4927	(*) 1.80	1.57 (2 ø 10.0) 3.93 (5 ø 10.0)
P83	15.00 X 50.00	RR 79.58 RR 22.84	16.72 8.05	2464 2595	2450 2580	(*) 0.99	2.45 (2 ø 12.5) 4.91 (4 ø 12.5)
P84	15.00 X 50.00	RR 79.58 RR 23.87	32.51 16.06	1951 887	2584 1175	(*) 1.32	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P85	20.00 X 50.00	EL 114.18 EL 45.67	1.07 0.00	549 231	1722 726	(*) 3.14	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P86	20.00 X 50.00	EL 114.18 EL 45.67	1.07 0.00	549 231	1722 726	(*) 3.14	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P88	15.00 X 40.00	RR 76.12 RR 28.54	17.92 9.11	878 828	1754 1654	2.00	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)

P90	15.00 X 40.00	RR 78.89 RR 28.54	49.00 24.90	2934 1135	2989 1156	(*) 1.02	1.57 (2 ø 10.0) 3.14 (4 ø 10.0)
P91	15.00 X 40.00	RR 97.34 RR 28.54	50.05 25.50	4079 892	4243 928	(*) 1.04	1.57 (2 ø 10.0) 7.85 (10 ø 10.0)
P93	15.00 X 40.00	RR 97.34 RR 28.54	18.39 9.59	1472 919	1866 1166	1.27	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P94	20.00 X 50.00	RR 59.69 RR 23.87	19.11 9.56	2218 4854	2395 5242	(*) 1.08	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P95	20.00 X 50.00	RR 59.69 RR 23.87	19.87 9.99	2908 8766	2935 8849	(*) 1.01	2.36 (3 ø 10.0) 3.93 (5 ø 10.0)
P97	20.00 X 40.00	RR 57.09 RR 28.54	37.33 22.60	3405 20	6883 41	(*) 2.02	2.36 (3 ø 10.0) 7.07 (9 ø 10.0)
P98	20.00 X 40.00	RR 57.09 RR 28.54	74.53 42.21	2933 2477	4457 3765	(*) 1.52	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P99	20.00 X 40.00	RR 57.09 RR 28.54	33.84 20.15	2498 1303	3888 2028	(*) 1.56	1.57 (2 ø 10.0) 3.14 (4 ø 10.0)
P100	20.00 X 40.00	RR 57.09 RR 29.58	42.42 23.24	1604 251	4062 635	(*) 2.53	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P101	20.00 X 40.00	RR 59.17 RR 29.58	60.86 38.63	2425 985	4815 1955	(*) 1.99	2.36 (3 ø 10.0) 2.36 (3 ø 10.0)
P102	20.00 X 40.00	RR 59.17 RR 29.58	68.55 41.74	2717 2092	5047 3886	(*) 1.86	3.68 (3 ø 12.5) 3.68 (3 ø 12.5)
P103	15.00 X 50.00	RR 79.58 RR 17.94	23.87 13.33	1935 2169	2067 2318	(*) 1.07	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P104	15.00 X 50.00	RR 76.12 RR 23.87	32.95 18.92	2519 3165	2888 3628	(*) 1.15	2.45 (2 ø 12.5) 4.91 (4 ø 12.5)
P105	20.00 X 40.00	RR 57.09 RR 28.54	65.32 38.51	2502 1797	4690 3368	(*) 1.87	3.14 (4 ø 10.0) 2.36 (3 ø 10.0)
P106	20.00 X 40.00	RR 57.09 RR 28.54	65.04 39.10	2564 2250	4519 3967	(*) 1.76	1.57 (2 ø 10.0) 3.14 (4 ø 10.0)

P107	20.00 X 40.00	RR 57.09 RR 28.54	35.92 21.46	3236 661	5563 1136	(*) 1.72	4.02 (2 ø 16.0) 6.03 (3 ø 16.0)
P108	20.00 X 40.00	RR 57.09 RR 28.54	36.92 22.23	3576 367	7047 723	(*) 1.97	2.45 (2 ø 12.5) 8.59 (7 ø 12.5)
P109	20.00 X 40.00	RR 57.09 RR 28.54	72.21 42.88	2819 1234	4930 2159	(*) 1.75	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P110	20.00 X 40.00	RR 57.09 RR 28.54	72.57 42.70	2775 559	5337 1076	(*) 1.92	2.36 (3 ø 10.0) 2.36 (3 ø 10.0)
P111	20.00 X 40.00	RR 57.09 RR 33.04	96.58 54.20	3748 5024	3959 5307	(*) 1.06	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P112	20.00 X 40.00	RR 57.09 RR 33.04	104.08 58.21	4133 4838	5280 6180	(*) 1.28	6.03 (3 ø 16.0) 6.03 (3 ø 16.0)
P113	20.00 X 30.00	RR 58.82 RR 38.06	42.58 24.09	830 7732	855 7962	(*) 1.03	4.02 (2 ø 16.0) 6.03 (3 ø 16.0)
P114	20.00 X 30.00	RR 58.82 RR 38.06	41.31 23.38	567 6896	596 7252	(*) 1.05	3.14 (4 ø 10.0) 2.36 (3 ø 10.0)
P115	20.00 X 40.00	RR 57.09 RR 29.58	102.04 56.83	4000 4030	5498 5539	(*) 1.37	6.03 (3 ø 16.0) 6.03 (3 ø 16.0)
P116	20.00 X 40.00	RR 57.09 RR 29.58	105.50 59.97	4176 5646	4220 5707	(*) 1.01	2.45 (2 ø 12.5) 3.68 (3 ø 12.5)
P117	20.00 X 40.00	RR 57.09 RR 28.54	36.74 21.97	3764 503	6394 854	(*) 1.70	2.45 (2 ø 12.5) 7.36 (6 ø 12.5)
P118	15.00 X 40.00	RR 76.12 RR 28.54	17.83 9.07	854 868	2488 2529	(*) 2.91	1.57 (2 ø 10.0) 5.50 (7 ø 10.0)
P119	15.00 X 40.00	RR 76.12 RR 28.54	43.05 20.70	2084 771	2687 994	(*) 1.29	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P120	15.00 X 40.00	RR 76.12 RR 28.54	39.90 19.18	1943 880	3341 1514	(*) 1.72	1.57 (2 ø 10.0) 5.50 (7 ø 10.0)
P123	15.00 X 40.00	RR 76.12 RR 28.54	17.84 9.11	853 632	1812 1341	2.12	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)

P126	20.00 X 40.00	RR 57.09 RR 28.54	27.51 16.56	2357 624	5699 1508	(*) 2.42	3.68 (3 ø 12.5) 6.14 (5 ø 12.5)
P127	20.00 X 40.00	RR 57.09 RR 28.54	51.15 29.96	1986 1044	7291 3833	(*) 3.67	9.42 (3 ø 20.0) 9.42 (3 ø 20.0)
P128	20.00 X 40.00	RR 57.09 RR 28.54	46.70 27.41	1783 1033	5835 3383	(*) 3.27	6.03 (3 ø 16.0) 6.03 (3 ø 16.0)
P129	20.00 X 40.00	RR 57.09 RR 29.58	60.85 34.81	1264 10834	2009 17226	(*) 1.59	6.03 (3 ø 16.0) 10.05 (5 ø 16.0)
P130	20.00 X 40.00	RR 57.09 RR 29.58	66.35 37.79	1792 11636	2746 17832	(*) 1.53	9.42 (3 ø 20.0) 9.42 (3 ø 20.0)
P131	15.00 X 50.00	RR 76.12 RR 23.87	34.48 19.70	2735 4070	3735 5559	(*) 1.37	2.36 (3 ø 10.0) 8.64 (11 ø 10.0)
P132	15.00 X 50.00	RR 76.12 RR 23.87	34.14 19.48	2227 7009	3193 10048	(*) 1.43	2.36 (3 ø 10.0) 10.21 (13 ø 10.0)
P133	20.00 X 40.00	RR 57.09 RR 36.50	64.20 36.36	2029 12262	2893 17486	(*) 1.43	9.42 (3 ø 20.0) 9.42 (3 ø 20.0)
P134	20.00 X 40.00	RR 57.09 RR 36.50	66.36 37.88	1903 13273	2601 18137	(*) 1.37	9.42 (3 ø 20.0) 9.42 (3 ø 20.0)
P135	20.00 X 40.00	RR 57.09 RR 28.54	26.91 16.16	2752 697	6475 1641	(*) 2.35	6.28 (2 ø 20.0) 9.42 (3 ø 20.0)
PE-1	15.00 X 40.00	RR 99.19 RR 28.54	17.83 9.11	1469 596	1913 776	1.30	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
PES1	15.00 X 40.00	RR 59.79 RR 22.42	4.96 2.07	31 2696	49 4244	1.57	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
PES2	15.00 X 40.00	RR 59.79 RR 22.42	5.09 1.99	15 3198	21 4267	1.33	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)

(*) Quantidade de barras alterada pelo usuário (para mais)

9. Vigas do pavimento TÉRREO NV-320

Viga	Vãos			Nós			Avisos
	Md (kgf.m)	As	Als	Md (kgf.m)	As	Als	
V101	5801.40 2973.37 3891.15 3202.58 6321.90	2 ø 12.5 2 ø 10.0 2 ø 10.0 2 ø 10.0 4 ø 10.0	3 ø 10.0 3 ø 10.0	-5294.94 -7812.16 -6910.14 -6125.22 -9117.45 -2778.78	2 ø 12.5 3 ø 12.5 4 ø 10.0 4 ø 10.0 2 ø 16.0 2 ø 10.0		
V102	6313.66 3086.69 6027.32	4 ø 10.0 2 ø 10.0 2 ø 12.5		-3132.17 -8005.99 -7822.35 -4965.89	2 ø 10.0 3 ø 12.5 3 ø 12.5 2 ø 12.5		
V103	16097.46 6096.36 12412.15 8463.96 18296.05	6 ø 12.5 3 ø 12.5 3 ø 16.0 3 ø 12.5 4 ø 16.0		-7227.66 -424.59 -27159.19 -4390.27 -18492.32 -28501.28 -1110.45 -24216.84 -5662.34	3 ø 12.5 3 ø 12.5 4 ø 20.0 3 ø 12.5 4 ø 16.0 4 ø 20.0 3 ø 12.5 5 ø 16.0 3 ø 12.5		Avisos 04, 38
V104	19187.76 7941.03 16798.36	4 ø 16.0 5 ø 10.0 4 ø 16.0	3 ø 10.0 3 ø 10.0	-6792.49 -23832.55 -410.62 -33710.27 -6919.28	3 ø 12.5 6 ø 16.0 4 ø 12.5 5 ø 20.0 4 ø 12.5	3 ø 10.0 3 ø 10.0 3 ø 10.0	Avisos 04, 08, 38
V105	16376.90 2690.03 15.73 8419.53 4020.03	6 ø 12.5 3 ø 12.5 3 ø 12.5 3 ø 12.5 3 ø 12.5		-7504.53 -18560.04 -3414.16 -12715.64 -11587.09 -14159.50	3 ø 12.5 4 ø 16.0 3 ø 12.5 3 ø 16.0 4 ø 12.5 3 ø 16.0		Avisos 38, 106
V106	13055.81	4 ø 16.0		-16711.31 -3001.22	3 ø 20.0 4 ø 10.0		Aviso 38
V107	16666.12 6121.35 15543.67	6 ø 12.5 3 ø 12.5 2 ø 20.0		-3640.71 -21329.36 -21060.51 -6256.71	3 ø 12.5 3 ø 20.0 3 ø 20.0 3 ø 12.5		Aviso 08
V108	1612.15 2705.23	3 ø 10.0 3 ø 10.0		-1055.16 -653.66 -7430.96	3 ø 10.0 3 ø 10.0 4 ø 12.5		
V109	11876.40	2 ø 20.0	4 ø 10.0	-161.89	4 ø 10.0		
V110	7974.29 1119.24 768.12	3 ø 12.5 4 ø 10.0 4 ø 10.0		-4941.34 -9784.69 -6160.17 -59.22	4 ø 10.0 2 ø 16.0 4 ø 10.0 4 ø 10.0		Aviso 38
V111	4157.24	4 ø 10.0		-17170.73	3 ø 20.0		
V112	5023.33 3636.91 5805.18	3 ø 12.5 2 ø 12.5 2 ø 16.0	3 ø 10.0	-6894.29 -8904.07 -10070.22 -6228.39	4 ø 12.5 2 ø 20.0 6 ø 12.5 2 ø 16.0		Avisos 38, 101
V113	7969.92 1050.83 760.37	3 ø 12.5 4 ø 10.0 4 ø 10.0		-4954.30 -9730.97 -5995.78 -75.92	4 ø 10.0 2 ø 16.0 4 ø 10.0 4 ø 10.0		Aviso 38

	CINNANTI ARQUITETURA E ENGENHARIA LTDA	
	SECRETARIA DE ESTADO DE EDUCAÇÃO DO DISTRITO FEDERAL SEEDF	29/12/2022

V114	3428.15	4 ø 10.0		-261.71 -14007.98	4 ø 10.0 4 ø 16.0		
V115	5577.72 3160.65 5420.26	2 ø 16.0 3 ø 10.0 3 ø 12.5	3 ø 10.0 3 ø 10.0	-4152.21 -9526.11 -9405.99 -5822.96	4 ø 10.0 2 ø 20.0 2 ø 20.0 2 ø 16.0		Aviso 38
V116	1936.09 2654.57	3 ø 10.0 3 ø 10.0		-1148.57 -655.83 -7596.99	3 ø 10.0 3 ø 10.0 4 ø 12.5		
V117	10990.14	3 ø 16.0		-3988.73	4 ø 10.0		
V118	15355.88 2860.50 249.21 8152.32 5047.53	2 ø 20.0 3 ø 12.5 3 ø 12.5 3 ø 12.5 3 ø 12.5		-7043.89 -17845.01 -3032.78 -12577.99 -12286.64 -9547.19	3 ø 12.5 4 ø 16.0 3 ø 12.5 3 ø 16.0 4 ø 12.5 2 ø 16.0		Avisos 38, 106
V119	5632.98	3 ø 12.5	4 ø 10.0	-10572.47 -1638.91	2 ø 20.0 4 ø 10.0		Avisos 08, 38
V120	12883.85 4838.24 13987.08	3 ø 16.0 3 ø 12.5 3 ø 16.0		-3102.45 -15876.96 -19811.71 -5848.86	3 ø 12.5 6 ø 12.5 4 ø 16.0 3 ø 12.5		Avisos 08, 38
V121	16987.22 6890.58 12138.10 9121.18 23010.77	4 ø 16.0 3 ø 12.5 4 ø 12.5 3 ø 12.5 3 ø 20.0		-7748.04 -33942.85 -2563.93 -18466.62 -29947.29 -473.28 -28768.34 -7985.60	3 ø 12.5 5 ø 20.0 3 ø 12.5 4 ø 16.0 4 ø 20.0 3 ø 12.5 4 ø 20.0 3 ø 12.5		Avisos 04, 38, 101
V122	19719.83 9006.73 16843.68	4 ø 16.0 3 ø 12.5 6 ø 12.5	3 ø 10.0 3 ø 10.0	-7081.83 -25563.22 -1140.85 -34199.65 -284.85 -6979.30	3 ø 12.5 4 ø 20.0 4 ø 12.5 5 ø 20.0 4 ø 12.5 4 ø 12.5	3 ø 10.0 3 ø 10.0 3 ø 10.0 3 ø 10.0 3 ø 10.0	Avisos 04, 08, 38, 101
V123	5829.20 2995.73 3794.48 3363.67 6759.05	2 ø 12.5 2 ø 10.0 2 ø 10.0 2 ø 10.0 4 ø 10.0	2 ø 10.0 2 ø 10.0	-5305.44 -7853.65 -6697.86 -6181.29 -8984.25 -3038.64	2 ø 12.5 3 ø 12.5 4 ø 10.0 4 ø 10.0 2 ø 16.0 2 ø 10.0		
V124	6259.59 3045.78 6002.67	4 ø 10.0 2 ø 10.0 2 ø 12.5		-3199.55 -8078.10 -7765.19 -5006.31	2 ø 10.0 3 ø 12.5 3 ø 12.5 2 ø 12.5		
V125	2942.18 1265.12	2 ø 10.0 2 ø 10.0		-4713.36 -5181.48 -2891.30	3 ø 10.0 2 ø 12.5 2 ø 10.0		
V125-B	1388.43 2833.76	2 ø 10.0 2 ø 10.0		-2528.18 -5191.51 -4491.80	2 ø 10.0 2 ø 12.5 3 ø 10.0		
V125-C	2697.94 1491.26	2 ø 10.0 2 ø 10.0		-3928.90 -5114.46 -3053.65	2 ø 10.0 2 ø 12.5 2 ø 10.0		
V125-D	1829.14 2352.98	2 ø 10.0 2 ø 10.0		-2974.66 -4899.34 -4403.91	2 ø 10.0 3 ø 10.0 3 ø 10.0		
V126	445.43	2 ø 10.0		-188.85 -600.34	2 ø 10.0 2 ø 10.0		

V127	409.13	2 ø 10.0		-405.06 -490.79	2 ø 10.0 2 ø 10.0		
V128	6642.01 4276.10 12731.83 802.15	2 ø 12.5 2 ø 12.5 4 ø 12.5 2 ø 12.5		-8970.11 -12594.43 -2168.16 -17881.26 -21205.72 -226.76	3 ø 12.5 4 ø 12.5 2 ø 12.5 2 ø 20.0 4 ø 16.0 2 ø 12.5		Aviso 38
V129	1157.67 12890.38 0.11 5432.91 6487.17	2 ø 12.5 4 ø 12.5 2 ø 12.5 2 ø 12.5 2 ø 12.5		-20952.09 -17703.18 -5253.06 -12224.54 -6289.21	4 ø 16.0 2 ø 20.0 2 ø 12.5 4 ø 12.5 2 ø 12.5		Aviso 38
V130	0.11 1263.26 0.11	3 ø 10.0 3 ø 10.0 3 ø 10.0		-240.30 -3041.21 -3080.95 -286.67	3 ø 10.0 3 ø 10.0 3 ø 10.0 3 ø 10.0		
V131	4607.52	4 ø 10.0		-5773.78 -9160.39	2 ø 16.0 2 ø 20.0		
V132	4550.64	4 ø 10.0		-8704.90 -5907.09	2 ø 20.0 2 ø 16.0		
V133	6444.15 3253.55 1891.61	2 ø 12.5 2 ø 12.5 2 ø 12.5		-8361.43 -11653.98 -4148.46 -2610.70	4 ø 10.0 2 ø 16.0 2 ø 12.5 2 ø 12.5		Avisos 08, 38
V134	1256.30 4723.35 6656.90	2 ø 12.5 2 ø 12.5 2 ø 12.5		-958.13 -5687.64 -11771.53 -6601.25	2 ø 12.5 2 ø 12.5 2 ø 16.0 2 ø 12.5		Avisos 08, 38
V135	21407.17 3683.16	4 ø 16.0 2 ø 12.5	4 ø 12.5	-26976.70 -29460.77 -3479.90	5 ø 16.0 6 ø 16.0 2 ø 12.5		Aviso 106
V136	4729.10 20776.06	2 ø 12.5 4 ø 16.0		-3691.75 -28645.22 -26820.23	2 ø 12.5 6 ø 16.0 5 ø 16.0		Aviso 106
V137	23266.08 4994.80	3 ø 20.0 2 ø 12.5	4 ø 12.5	-28749.09 -33962.86 -12214.03	6 ø 16.0 4 ø 20.0 4 ø 12.5		Aviso 106
V138	4602.78 0.11 3385.31 8778.63	2 ø 12.5 2 ø 12.5 2 ø 12.5 4 ø 10.0		-13884.24 -4550.83 -13518.68 -8700.44	4 ø 12.5 2 ø 12.5 4 ø 12.5 4 ø 10.0		Aviso 38
V139	5375.48	4 ø 10.0		-1925.05 -948.12	2 ø 10.0 2 ø 10.0		
V140	5407.02	4 ø 10.0		-536.53 -1937.67	2 ø 10.0 2 ø 10.0		
V141	9016.87 1355.80	3 ø 12.5 2 ø 10.0		-13367.86 -10700.23	4 ø 12.5 2 ø 16.0		
V142	8833.17 5222.95 3164.35	4 ø 10.0 3 ø 10.0 2 ø 10.0		-14053.41 -10374.23 -6633.65 -8911.48 -682.49	3 ø 16.0 2 ø 16.0 2 ø 12.5 3 ø 12.5 2 ø 10.0		
V143	645.41	2 ø 10.0		-572.75 -1801.34	2 ø 10.0 2 ø 10.0		
V144	2091.75 1351.21	3 ø 10.0 3 ø 10.0		-215.00 -3839.30 -3560.05	3 ø 10.0 3 ø 10.0 3 ø 10.0		Avisos 08, 38
V145	12387.36 10090.63	4 ø 12.5 3 ø 12.5	2 ø 12.5	-4494.89 -16409.76	2 ø 12.5 3 ø 16.0		Avisos 08, 38

	CINNANTI ARQUITETURA E ENGENHARIA LTDA	
	SECRETARIA DE ESTADO DE EDUCAÇÃO DO DISTRITO FEDERAL SEEDF	29/12/2022

				-11393.66 -13089.75	2 ø 16.0 4 ø 12.5		
V146	4217.45	2 ø 12.5		-9959.37 -4325.85	3 ø 16.0 2 ø 12.5		
V147	2511.63 1395.71 99.67	2 ø 12.5 2 ø 12.5 2 ø 12.5		-3387.78 -4296.46 -1822.42 -1911.65	2 ø 12.5 2 ø 12.5 2 ø 12.5 2 ø 12.5		Aviso 38
V148	22804.46 5201.71 7187.41	4 ø 16.0 2 ø 12.5 2 ø 12.5	4 ø 12.5	-29078.83 -33687.48 -5211.95 -14268.84 -3393.06	6 ø 16.0 4 ø 20.0 2 ø 12.5 4 ø 12.5 2 ø 12.5		Avisos 38, 106
V149	28639.04 25380.08	7 ø 16.0 7 ø 16.0	2 ø 12.5 7 ø 16.0	-14664.21 -39510.07 -34769.75 -29634.01	3 ø 16.0 5 ø 20.0 7 ø 16.0 4 ø 20.0		Avisos 101, 106
V150	24838.54 6144.48 7061.94	3 ø 20.0 2 ø 12.5 2 ø 12.5	4 ø 12.5	-31666.51 -33970.14 -2288.13 -14525.84 -3565.07	4 ø 20.0 7 ø 16.0 2 ø 12.5 3 ø 16.0 2 ø 12.5		Avisos 38, 101, 106
V151	29999.14 0.11 25988.07	10 ø 12.5 2 ø 16.0 10 ø 12.5	2 ø 12.5 2 ø 16.0 2 ø 12.5	-14547.90 -40302.12 -32307.19 -30705.12	3 ø 16.0 5 ø 20.0 4 ø 20.0 4 ø 20.0		Avisos 101, 106
V152	344.85	2 ø 10.0		-362.33 -611.10	2 ø 10.0 2 ø 10.0		
V153	326.31	2 ø 10.0		-869.67 -246.86	2 ø 10.0 2 ø 10.0		
V154	2325.48 1910.56	2 ø 10.0 2 ø 10.0		-4512.42 -5016.15 -3116.84	3 ø 10.0 2 ø 12.5 2 ø 10.0		
V154-B	1776.51 2442.11	2 ø 10.0 2 ø 10.0		-3468.83 -5308.23 -3638.82	2 ø 10.0 2 ø 12.5 2 ø 10.0		
V154-C	2609.76 1873.06	2 ø 10.0 2 ø 10.0		-3991.84 -5590.89 -3106.96	3 ø 10.0 2 ø 12.5 2 ø 10.0		
V154-D	1832.57 2341.54	2 ø 10.0 2 ø 10.0		-3454.14 -4971.89 -4177.19	2 ø 10.0 2 ø 12.5 3 ø 10.0		
V155	2992.91 5973.26 6066.09 2880.45	2 ø 10.0 4 ø 10.0 4 ø 10.0 2 ø 10.0	2 ø 10.0 2 ø 10.0	-12443.95 -9682.39 -12626.16	3 ø 16.0 2 ø 16.0 3 ø 16.0	2 ø 10.0 2 ø 10.0 2 ø 10.0	Aviso 03
V156	2883.42 11674.58 12808.32 2777.81	2 ø 10.0 4 ø 12.5 3 ø 16.0 2 ø 10.0	2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0	-17581.91 -14.77 -18581.24 -18950.13	4 ø 16.0 2 ø 12.5 4 ø 16.0 4 ø 16.0	2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0	Aviso 03
V157	2366.82	4 ø 10.0	4 ø 10.0	-2052.20 -477.49	4 ø 10.0 4 ø 10.0	4 ø 10.0 4 ø 10.0	Aviso 08
V158	1949.46	4 ø 10.0	4 ø 10.0	-104.65 -2222.47	4 ø 10.0 4 ø 10.0	4 ø 10.0 4 ø 10.0	Aviso 08

10. Cálculos das Lajes

TÉRREO NV-320	$f_{ck} = 400.00 \text{ kgf/cm}^2$	$E = 318758 \text{ kgf/cm}^2$	Peso Espec = 2500.00 kgf/m^3
Lance 2		$\text{cobr} = 2.50 \text{ cm}$	

ARMADURAS POSITIVAS (LAJE)								
Laje	Direção	Momento positivo		Momento negativo		Armadura inferior	Armadura superior	Cisalhamento
		Seção	Flexão	Seção	Flexão			
L101	X	$bw = 100.0 \text{ cm}$ $h = 15.0 \text{ cm}$	$Md = 2587 \text{ kgf.m/m}$ $As = 5.22 \text{ cm}^2/\text{m}$ $A's = 0.00 \text{ cm}^2/\text{m}$	$bw = 100.0 \text{ cm}$ $h = 15.0 \text{ cm}$	$Md = 5442 \text{ kgf.m/m}$ $As = 11.76 \text{ cm}^2/\text{m}$ $A's = 0.00 \text{ cm}^2/\text{m}$	$As = 5.22 \text{ cm}^2/\text{m}$ $\phi 12.5 \text{ c}/20$ ($6.14 \text{ cm}^2/\text{m}$) $M = 1636.88 \text{ kgf.m/m}$ $F = 0.00 \text{ tf}$ $f_{iss} = 0.11 \text{ mm}$		$v_{sd} = 6.72 \text{ tf/m}$ $v_{rd1} = 10.85 \text{ tf/m}$ Modelo II $v_{rd2} = 63.83 \text{ tf/m}$ $v_{sw} = 0.00 \text{ tf/m}$ $asw = 0.00 \text{ cm}^2/\text{m}$
	Y	$bw = 100.0 \text{ cm}$ $h = 15.0 \text{ cm}$	$Md = 1126 \text{ kgf.m/m}$ $As = 2.44 \text{ cm}^2/\text{m}$ $A's = 0.00 \text{ cm}^2/\text{m}$	$bw = 100.0 \text{ cm}$ $h = 15.0 \text{ cm}$	$Md = 3157 \text{ kgf.m/m}$ $As = 7.28 \text{ cm}^2/\text{m}$ $A's = 0.00 \text{ cm}^2/\text{m}$	$As = 2.44 \text{ cm}^2/\text{m}$ $\phi 8.0 \text{ c}/20$ ($2.51 \text{ cm}^2/\text{m}$) $M = 703.79 \text{ kgf.m/m}$ $F = 0.00 \text{ tf}$ $f_{iss} = 0.09 \text{ mm}$		$v_{sd} = 8.19 \text{ tf/m}$ $v_{rd1} = 9.18 \text{ tf/m}$ $v_{rd2} = 58.08 \text{ tf/m}$ $v_{sw} = 0.00 \text{ tf/m}$ $asw = 0.00 \text{ cm}^2/\text{m}$
L102	X	$bw = 100.0 \text{ cm}$ $h = 15.0 \text{ cm}$	$Md = 1700 \text{ kgf.m/m}$ $As = 3.34 \text{ cm}^2/\text{m}$ $A's = 0.00 \text{ cm}^2/\text{m}$	$bw = 100.0 \text{ cm}$ $h = 15.0 \text{ cm}$	$Md = 4354 \text{ kgf.m/m}$ $As = 9.21 \text{ cm}^2/\text{m}$ $A's = 0.00 \text{ cm}^2/\text{m}$	$As = 3.34 \text{ cm}^2/\text{m}$ $\phi 10.0 \text{ c}/20$ ($3.93 \text{ cm}^2/\text{m}$) $M = 1073.36 \text{ kgf.m/m}$ $F = 0.00 \text{ tf}$ $f_{iss} = 0.09 \text{ mm}$		$v_{sd} = 4.72 \text{ tf/m}$ $v_{rd1} = 10.37 \text{ tf/m}$ Modelo II $v_{rd2} = 64.54 \text{ tf/m}$ $v_{sw} = 0.00 \text{ tf/m}$ $asw = 0.00 \text{ cm}^2/\text{m}$
	Y	$bw = 100.0 \text{ cm}$ $h = 15.0 \text{ cm}$	$Md = 917 \text{ kgf.m/m}$ $As = 1.93 \text{ cm}^2/\text{m}$ $A's = 0.00 \text{ cm}^2/\text{m}$	$bw = 100.0 \text{ cm}$ $h = 15.0 \text{ cm}$	$Md = 1731 \text{ kgf.m/m}$ $As = 3.73 \text{ cm}^2/\text{m}$ $A's = 0.00 \text{ cm}^2/\text{m}$	$As = 1.93 \text{ cm}^2/\text{m}$ $\phi 8.0 \text{ c}/20$ ($2.51 \text{ cm}^2/\text{m}$) $M = 392.06 \text{ kgf.m/m}$ $F = 0.00 \text{ tf}$ $f_{iss} = 0.03 \text{ mm}$		$v_{sd} = 2.66 \text{ tf/m}$ $v_{rd1} = 9.36 \text{ tf/m}$ $v_{rd2} = 59.49 \text{ tf/m}$ $v_{sw} = 0.00 \text{ tf/m}$ $asw = 0.00 \text{ cm}^2/\text{m}$
L103	X	$bw = 100.0 \text{ cm}$ $h = 15.0 \text{ cm}$	$Md = 1705 \text{ kgf.m/m}$ $As = 3.35 \text{ cm}^2/\text{m}$ $A's = 0.00 \text{ cm}^2/\text{m}$	$bw = 100.0 \text{ cm}$ $h = 15.0 \text{ cm}$	$Md = 4740 \text{ kgf.m/m}$ $As = 10.10 \text{ cm}^2/\text{m}$ $A's = 0.00 \text{ cm}^2/\text{m}$	$As = 3.35 \text{ cm}^2/\text{m}$ $\phi 10.0 \text{ c}/20$ ($3.93 \text{ cm}^2/\text{m}$) $M = 1075.73 \text{ kgf.m/m}$ $F = 0.00 \text{ tf}$ $f_{iss} = 0.09 \text{ mm}$		$v_{sd} = 5.90 \text{ tf/m}$ $v_{rd1} = 10.37 \text{ tf/m}$ Modelo II $v_{rd2} = 64.54 \text{ tf/m}$ $v_{sw} = 0.00 \text{ tf/m}$ $asw = 0.00 \text{ cm}^2/\text{m}$
	Y	$bw = 100.0 \text{ cm}$ $h = 15.0 \text{ cm}$	$Md = 1032 \text{ kgf.m/m}$ $As = 2.18 \text{ cm}^2/\text{m}$ $A's = 0.00 \text{ cm}^2/\text{m}$	$bw = 100.0 \text{ cm}$ $h = 15.0 \text{ cm}$	$Md = 2421 \text{ kgf.m/m}$ $As = 5.36 \text{ cm}^2/\text{m}$ $A's = 0.00 \text{ cm}^2/\text{m}$	$As = 2.18 \text{ cm}^2/\text{m}$ $\phi 8.0 \text{ c}/20$ ($2.51 \text{ cm}^2/\text{m}$) $M = 654.09 \text{ kgf.m/m}$ $F = 0.00 \text{ tf}$ $f_{iss} = 0.07 \text{ mm}$		$v_{sd} = 4.25 \text{ tf/m}$ $v_{rd1} = 9.36 \text{ tf/m}$ $v_{rd2} = 59.49 \text{ tf/m}$ $v_{sw} = 0.00 \text{ tf/m}$ $asw = 0.00 \text{ cm}^2/\text{m}$
L104	X	$bw = 100.0 \text{ cm}$ $h = 15.0 \text{ cm}$	$Md = 1595 \text{ kgf.m/m}$ $As = 3.13 \text{ cm}^2/\text{m}$ $A's = 0.00 \text{ cm}^2/\text{m}$	$bw = 100.0 \text{ cm}$ $h = 15.0 \text{ cm}$	$Md = 4811 \text{ kgf.m/m}$ $As = 10.26 \text{ cm}^2/\text{m}$ $A's = 0.00 \text{ cm}^2/\text{m}$	$As = 3.13 \text{ cm}^2/\text{m}$ $\phi 10.0 \text{ c}/20$ ($3.93 \text{ cm}^2/\text{m}$) $M = 1005.34 \text{ kgf.m/m}$ $F = 0.00 \text{ tf}$ $f_{iss} = 0.07 \text{ mm}$		$v_{sd} = 5.28 \text{ tf/m}$ $v_{rd1} = 10.37 \text{ tf/m}$ Modelo II $v_{rd2} = 64.54 \text{ tf/m}$ $v_{sw} = 0.00 \text{ tf/m}$ $asw = 0.00 \text{ cm}^2/\text{m}$

	Y	bw = 100.0 cm h = 15.0 cm	Md = 1010 kgf.m/m As = 2.13 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 2375 kgf.m/m As = 5.25 cm ² /m A's = 0.00 cm ² /m	As = 2.13 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 642.13 kgf.m/m F = 0.00 tf fiss = 0.07 mm		vsd = 4.32 tf/m vrd1 = 9.36 tf/m vrd2 = 59.49 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L105	X	bw = 100.0 cm h = 15.0 cm	Md = 2536 kgf.m/m As = 5.11 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 5300 kgf.m/m As = 11.42 cm ² /m A's = 0.00 cm ² /m	As = 5.11 cm ² /m ø12.5 c/20 (6.14 cm ² /m) M = 1603.51 kgf.m/m F = 0.00 tf fiss = 0.10 mm		vsd = 6.11 tf/m vrd1 = 10.85 tf/m Modelo II vrd2 = 63.83 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 1096 kgf.m/m As = 2.37 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 2828 kgf.m/m As = 6.48 cm ² /m A's = 0.00 cm ² /m	As = 2.37 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 684.17 kgf.m/m F = 0.00 tf fiss = 0.08 mm		vsd = 3.33 tf/m vrd1 = 9.18 tf/m vrd2 = 58.08 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L106	X	bw = 100.0 cm h = 15.0 cm	Md = 2288 kgf.m/m As = 4.54 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 3311 kgf.m/m As = 6.76 cm ² /m A's = 0.00 cm ² /m	As = 4.54 cm ² /m ø10.0 c/17 (4.62 cm ² /m) M = 1443.26 kgf.m/m F = 0.00 tf fiss = 0.11 mm		vsd = 5.79 tf/m vrd1 = 10.55 tf/m Modelo II vrd2 = 64.54 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 1556 kgf.m/m As = 3.34 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 3180 kgf.m/m As = 7.15 cm ² /m A's = 0.00 cm ² /m	As = 3.34 cm ² /m ø10.0 c/20 (3.93 cm ² /m) M = 985.08 kgf.m/m F = 0.00 tf fiss = 0.09 mm	A's = 1.97 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 2017.67 kgf.m/m F = 0.00 tf fiss = 0.14 mm	vsd = 5.18 tf/m vrd1 = 9.65 tf/m vrd2 = 58.92 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L107	X	bw = 100.0 cm h = 15.0 cm	Md = 1333 kgf.m/m As = 2.58 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 3247 kgf.m/m As = 6.62 cm ² /m A's = 0.00 cm ² /m	As = 2.58 cm ² /m ø8.0 c/19 (2.65 cm ² /m) M = 836.09 kgf.m/m F = 0.00 tf fiss = 0.09 mm		vsd = 6.39 tf/m vrd1 = 10.11 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 1347 kgf.m/m As = 2.80 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 2522 kgf.m/m As = 5.48 cm ² /m A's = 0.00 cm ² /m	As = 2.80 cm ² /m ø8.0 c/17 (2.96 cm ² /m) M = 859.15 kgf.m/m F = 0.00 tf fiss = 0.09 mm	A's = 1.97 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 1596.17 kgf.m/m F = 0.00 tf fiss = 0.12 mm	vsd = 5.41 tf/m vrd1 = 9.62 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L108	X	bw = 100.0 cm h = 15.0 cm	Md = 2444 kgf.m/m As = 4.86 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 3281 kgf.m/m As = 6.69 cm ² /m A's = 0.00 cm ² /m	As = 4.86 cm ² /m ø10.0 c/16 (4.91 cm ² /m) M = 1544.84 kgf.m/m F = 0.00 tf fiss = 0.11 mm	A's = 0.03 cm ² /m ø6.3 c/20 (1.56 cm ² /m) M = 2059.09 kgf.m/m F = 0.00 tf	vsd = 5.79 tf/m vrd1 = 10.62 tf/m Modelo II vrd2 = 64.54 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m

							fiss = 0.14 mm	
	Y	bw = 100.0 cm h = 15.0 cm	Md = 1521 kgf.m/m As = 3.27 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 3225 kgf.m/m As = 7.25 cm ² /m A's = 0.00 cm ² /m	As = 3.27 cm ² /m ø10.0 c/20 (3.93 cm ² /m) M = 961.01 kgf.m/m F = 0.00 tf fiss = 0.08 mm	A's = 1.97 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 2076.03 kgf.m/m F = 0.00 tf fiss = 0.13 mm	vsd = 8.43 tf/m vrd1 = 9.65 tf/m vrd2 = 58.92 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L109	X	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 1404 kgf.m/m As = 2.72 cm ² /m A's = 0.00 cm ² /m	As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 0.00 kgf.m/m F = 0.00 tf fiss = 0.00 mm		vsd = 2.08 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm		As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 379.98 kgf.m/m F = 0.00 tf fiss = 0.02 mm		vsd = 0.94 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L110	X	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm		As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 162.17 kgf.m/m F = 0.00 tf fiss = 0.00 mm		vsd = 3.35 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 1691 kgf.m/m As = 3.58 cm ² /m A's = 0.00 cm ² /m	As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 0.00 kgf.m/m F = 0.00 tf fiss = 0.00 mm		vsd = 4.23 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L111	X	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 1544 kgf.m/m As = 3.00 cm ² /m A's = 0.00 cm ² /m	As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 10.57 kgf.m/m F = 0.00 tf fiss = 0.00 mm		vsd = 4.19 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm		As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 233.69 kgf.m/m F = 0.00 tf fiss = 0.01 mm		vsd = 3.16 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L112	X	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 1487 kgf.m/m As = 2.89 cm ² /m A's = 0.00 cm ² /m	As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 11.93 kgf.m/m F = 0.00 tf fiss = 0.00 mm		vsd = 1.80 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m

	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 818 kgf.m/m As = 1.67 cm ² /m A's = 0.00 cm ² /m	As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 180.68 kgf.m/m F = 0.00 tf fiss = 0.01 mm		vsd = 1.17 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L113	X	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 2412 kgf.m/m As = 4.79 cm ² /m A's = 0.00 cm ² /m	As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 137.15 kgf.m/m F = 0.00 tf fiss = 0.00 mm		vsd = 5.64 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 987 kgf.m/m As = 2.04 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 930 kgf.m/m As = 1.92 cm ² /m A's = 0.00 cm ² /m	As = 2.04 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 657.13 kgf.m/m F = 0.00 tf fiss = 0.07 mm		vsd = 1.09 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L114	X	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 1885 kgf.m/m As = 3.72 cm ² /m A's = 0.00 cm ² /m	As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 0.00 kgf.m/m F = 0.00 tf fiss = 0.00 mm		vsd = 2.67 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm		As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 385.24 kgf.m/m F = 0.00 tf fiss = 0.02 mm		vsd = 1.43 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L115	X	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm		As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 136.92 kgf.m/m F = 0.00 tf fiss = 0.00 mm		vsd = 1.16 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 1781 kgf.m/m As = 3.77 cm ² /m A's = 0.00 cm ² /m	As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 0.00 kgf.m/m F = 0.00 tf fiss = 0.00 mm		vsd = 2.24 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L116	X	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 1778 kgf.m/m As = 3.50 cm ² /m A's = 0.00 cm ² /m	As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 0.00 kgf.m/m F = 0.00 tf fiss = 0.00 mm		vsd = 2.45 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.89 cm ² /m	bw = 100.0 cm h = 15.0 cm		As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 354.33 kgf.m/m		vsd = 1.27 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m

			A's = 0.00 cm ² /m			F = 0.00 tf fiss = 0.02 mm		
L117	X	bw = 100.0 cm h = 15.0 cm	Md = 2565 kgf.m/m As = 5.17 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 5857 kgf.m/m As = 12.76 cm ² /m A's = 0.00 cm ² /m	As = 5.17 cm ² /m ø12.5 c/20 (6.14 cm ² /m) M = 1623.26 kgf.m/m F = 0.00 tf fiss = 0.11 mm		vsd = 10.46 tf/m vrd1 = 10.85 tf/m Modelo II vrd2 = 63.83 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 1267 kgf.m/m As = 2.75 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 3196 kgf.m/m As = 7.38 cm ² /m A's = 0.00 cm ² /m	As = 2.75 cm ² /m ø8.0 c/18 (2.79 cm ² /m) M = 792.08 kgf.m/m F = 0.00 tf fiss = 0.09 mm	A's = 2.65 cm ² /m ø8.0 c/18 (2.79 cm ² /m) M = 2053.74 kgf.m/m F = 0.00 tf fiss = 0.14 mm	vsd = 8.32 tf/m vrd1 = 9.25 tf/m vrd2 = 58.08 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L118	X	bw = 100.0 cm h = 15.0 cm	Md = 1131 kgf.m/m As = 2.19 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 2166 kgf.m/m As = 4.29 cm ² /m A's = 0.00 cm ² /m	As = 2.19 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 726.04 kgf.m/m F = 0.00 tf fiss = 0.07 mm		vsd = 7.69 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 2880 kgf.m/m As = 6.30 cm ² /m A's = 0.00 cm ² /m	As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 208.76 kgf.m/m F = 0.00 tf fiss = 0.01 mm		vsd = 8.78 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L119	X	bw = 100.0 cm h = 15.0 cm	Md = 1380 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 3977 kgf.m/m As = 8.21 cm ² /m A's = 0.00 cm ² /m	As = 2.68 cm ² /m ø8.0 c/18 (2.79 cm ² /m) M = 872.59 kgf.m/m F = 0.00 tf fiss = 0.09 mm	A's = 2.44 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 2521.86 kgf.m/m F = 0.00 tf fiss = 0.13 mm	vsd = 6.20 tf/m vrd1 = 10.14 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 1348 kgf.m/m As = 2.81 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 1910 kgf.m/m As = 4.05 cm ² /m A's = 0.00 cm ² /m	As = 2.81 cm ² /m ø8.0 c/17 (2.96 cm ² /m) M = 859.62 kgf.m/m F = 0.00 tf fiss = 0.09 mm	A's = 2.15 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 1236.16 kgf.m/m F = 0.00 tf fiss = 0.12 mm	vsd = 6.46 tf/m vrd1 = 9.62 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L120	X	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm		As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 486.76 kgf.m/m F = 0.00 tf fiss = 0.03 mm		vsd = 3.66 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m	bw = 100.0 cm h = 15.0 cm	Md = 1486 kgf.m/m	As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m)		vsd = 3.04 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m

			As = 1.89 cm ² /m A's = 0.00 cm ² /m		As = 3.10 cm ² /m A's = 0.00 cm ² /m	M = 114.02 kgf.m/m F = 0.00 tf fiss = 0.00 mm		asw = 0.00 cm ² /m
L121	X	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 1420 kgf.m/m As = 2.76 cm ² /m A's = 0.00 cm ² /m	As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 458.39 kgf.m/m F = 0.00 tf fiss = 0.03 mm		vsd = 3.13 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 1001 kgf.m/m As = 2.07 cm ² /m A's = 0.00 cm ² /m	As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 472.54 kgf.m/m F = 0.00 tf fiss = 0.04 mm		vsd = 1.91 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L122	X	bw = 100.0 cm h = 15.0 cm	Md = 2339 kgf.m/m As = 4.64 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 3171 kgf.m/m As = 6.46 cm ² /m A's = 0.00 cm ² /m	As = 4.64 cm ² /m ø10.0 c/16 (4.91 cm ² /m) M = 1486.65 kgf.m/m F = 0.00 tf fiss = 0.11 mm	A's = 0.55 cm ² /m ø6.3 c/20 (1.56 cm ² /m) M = 1990.23 kgf.m/m F = 0.00 tf fiss = 0.14 mm	vsd = 4.41 tf/m vrd1 = 10.62 tf/m Modelo II vrd2 = 64.54 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 1718 kgf.m/m As = 3.70 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 3431 kgf.m/m As = 7.75 cm ² /m A's = 0.00 cm ² /m	As = 3.70 cm ² /m ø10.0 c/20 (3.93 cm ² /m) M = 1089.33 kgf.m/m F = 0.00 tf fiss = 0.11 mm		vsd = 3.99 tf/m vrd1 = 9.65 tf/m vrd2 = 58.92 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L123	X	bw = 100.0 cm h = 15.0 cm	Md = 1220 kgf.m/m As = 2.36 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 3129 kgf.m/m As = 6.37 cm ² /m A's = 0.00 cm ² /m	As = 2.36 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 760.40 kgf.m/m F = 0.00 tf fiss = 0.08 mm		vsd = 3.47 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 1518 kgf.m/m As = 3.20 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 2629 kgf.m/m As = 5.72 cm ² /m A's = 0.00 cm ² /m	As = 3.20 cm ² /m ø10.0 c/20 (3.93 cm ² /m) M = 967.10 kgf.m/m F = 0.00 tf fiss = 0.08 mm		vsd = 2.63 tf/m vrd1 = 9.80 tf/m vrd2 = 60.05 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L124	X	bw = 100.0 cm h = 15.0 cm	Md = 2600 kgf.m/m As = 5.24 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 3236 kgf.m/m As = 6.60 cm ² /m A's = 0.00 cm ² /m	As = 5.24 cm ² /m ø12.5 c/20 (6.14 cm ² /m) M = 1660.17 kgf.m/m F = 0.00 tf fiss = 0.11 mm	A's = 0.25 cm ² /m ø6.3 c/20 (1.56 cm ² /m) M = 2061.11 kgf.m/m F = 0.00 tf fiss = 0.14 mm	vsd = 4.36 tf/m vrd1 = 10.85 tf/m Modelo II vrd2 = 63.83 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 1765 kgf.m/m	bw = 100.0 cm h = 15.0 cm	Md = 3200 kgf.m/m	As = 3.90 cm ² /m ø10.0 c/20 (3.93 cm ² /m)	A's = 0.06 cm ² /m ø6.3 c/20 (1.56 cm ² /m)	vsd = 6.91 tf/m vrd1 = 9.47 tf/m vrd2 = 57.52 tf/m vsw = 0.00 tf/m

			As = 3.90 cm ² /m A's = 0.00 cm ² /m		As = 7.39 cm ² /m A's = 0.00 cm ² /m	M = 1127.89 kgf.m/m F = 0.00 tf físs = 0.12 mm	M = 2028.22 kgf.m/m F = 0.00 tf físs = 0.13 mm	asw = 0.00 cm ² /m
L125	X	bw = 100.0 cm h = 15.0 cm	Md = 1188 kgf.m/m As = 2.30 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm		As = 2.30 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 796.85 kgf.m/m F = 0.00 tf físs = 0.09 mm		vsd = 7.30 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm		As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 470.61 kgf.m/m F = 0.00 tf físs = 0.04 mm		vsd = 2.44 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L126	X	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm		As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 239.37 kgf.m/m F = 0.00 tf físs = 0.01 mm		vsd = 4.82 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 1718 kgf.m/m As = 3.63 cm ² /m A's = 0.00 cm ² /m	As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 200.50 kgf.m/m F = 0.00 tf físs = 0.01 mm		vsd = 5.85 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L127	X	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 1889 kgf.m/m As = 3.72 cm ² /m A's = 0.00 cm ² /m	As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 161.59 kgf.m/m F = 0.00 tf físs = 0.00 mm		vsd = 4.58 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 940 kgf.m/m As = 1.94 cm ² /m A's = 0.00 cm ² /m	As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 302.08 kgf.m/m F = 0.00 tf físs = 0.01 mm	A's = 1.94 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 619.39 kgf.m/m F = 0.00 tf físs = 0.06 mm	vsd = 3.48 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L128	X	bw = 100.0 cm h = 15.0 cm	Md = 1119 kgf.m/m As = 2.16 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 3023 kgf.m/m As = 6.14 cm ² /m A's = 0.00 cm ² /m	As = 2.16 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 778.37 kgf.m/m F = 0.00 tf físs = 0.08 mm		vsd = 5.83 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.89 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 749 kgf.m/m As = 1.53 cm ² /m	As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 508.18 kgf.m/m		vsd = 1.58 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m

			A's = 0.00 cm ² /m		A's = 0.00 cm ² /m	F = 0.00 tf fiss = 0.04 mm		
L129	X	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm		As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 484.01 kgf.m/m F = 0.00 tf fiss = 0.03 mm		vsd = 2.51 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 779 kgf.m/m As = 1.59 cm ² /m A's = 0.00 cm ² /m	As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 242.15 kgf.m/m F = 0.00 tf fiss = 0.01 mm		vsd = 1.75 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L130	X	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 1930 kgf.m/m As = 3.81 cm ² /m A's = 0.00 cm ² /m	As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 270.27 kgf.m/m F = 0.00 tf fiss = 0.01 mm		vsd = 3.78 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm		As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 371.00 kgf.m/m F = 0.00 tf fiss = 0.02 mm		vsd = 2.21 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L131	X	bw = 100.0 cm h = 15.0 cm	Md = 2536 kgf.m/m As = 5.11 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 5869 kgf.m/m As = 12.79 cm ² /m A's = 0.00 cm ² /m	As = 5.11 cm ² /m ø12.5 c/20 (6.14 cm ² /m) M = 1602.11 kgf.m/m F = 0.00 tf fiss = 0.10 mm		vsd = 10.44 tf/m vrd1 = 10.85 tf/m Modelo II vrd2 = 63.83 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 1272 kgf.m/m As = 2.76 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 2940 kgf.m/m As = 6.75 cm ² /m A's = 0.00 cm ² /m	As = 2.76 cm ² /m ø8.0 c/18 (2.79 cm ² /m) M = 795.02 kgf.m/m F = 0.00 tf fiss = 0.09 mm	A's = 2.65 cm ² /m ø8.0 c/18 (2.79 cm ² /m) M = 1880.41 kgf.m/m F = 0.00 tf fiss = 0.15 mm	vsd = 7.56 tf/m vrd1 = 9.25 tf/m vrd2 = 58.08 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L132	X	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm		As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 230.45 kgf.m/m F = 0.00 tf fiss = 0.01 mm		vsd = 4.76 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 1725 kgf.m/m As = 3.65 cm ² /m A's = 0.00 cm ² /m	As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 221.01 kgf.m/m F = 0.00 tf fiss = 0.01 mm		vsd = 5.83 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m

L133	X	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 1917 kgf.m/m As = 3.78 cm ² /m A's = 0.00 cm ² /m	As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 164.75 kgf.m/m F = 0.00 tf físs = 0.00 mm		vsd = 4.63 tf/m vrđ1 = 10.07 tf/m Modelo II vrđ2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 970 kgf.m/m As = 2.01 cm ² /m A's = 0.00 cm ² /m	As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 318.91 kgf.m/m F = 0.00 tf físs = 0.02 mm	A's = 2.01 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 640.55 kgf.m/m F = 0.00 tf físs = 0.07 mm	vsd = 3.62 tf/m vrđ1 = 9.50 tf/m vrđ2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L134	X	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 1546 kgf.m/m As = 3.00 cm ² /m A's = 0.00 cm ² /m	As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 297.40 kgf.m/m F = 0.00 tf físs = 0.01 mm		vsd = 4.09 tf/m vrđ1 = 10.07 tf/m Modelo II vrđ2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm		As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 410.68 kgf.m/m F = 0.00 tf físs = 0.03 mm		vsd = 1.12 tf/m vrđ1 = 9.50 tf/m vrđ2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L135	X	bw = 100.0 cm h = 15.0 cm	Md = 2740 kgf.m/m As = 5.54 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 5791 kgf.m/m As = 12.60 cm ² /m A's = 0.00 cm ² /m	As = 5.54 cm ² /m ø12.5 c/20 (6.14 cm ² /m) M = 1755.00 kgf.m/m F = 0.00 tf físs = 0.12 mm	A's = 0.02 cm ² /m ø6.3 c/20 (1.56 cm ² /m) M = 3709.53 kgf.m/m F = 0.00 tf físs = 0.16 mm	vsd = 7.10 tf/m vrđ1 = 10.85 tf/m Modelo II vrđ2 = 63.83 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 1104 kgf.m/m As = 2.39 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 2719 kgf.m/m As = 6.21 cm ² /m A's = 0.00 cm ² /m	As = 2.39 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 701.16 kgf.m/m F = 0.00 tf físs = 0.09 mm		vsd = 3.39 tf/m vrđ1 = 9.18 tf/m vrđ2 = 58.08 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L136	X	bw = 100.0 cm h = 15.0 cm	Md = 1799 kgf.m/m As = 3.54 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 4764 kgf.m/m As = 10.15 cm ² /m A's = 0.00 cm ² /m	As = 3.54 cm ² /m ø10.0 c/20 (3.93 cm ² /m) M = 1146.43 kgf.m/m F = 0.00 tf físs = 0.10 mm		vsd = 5.18 tf/m vrđ1 = 10.37 tf/m Modelo II vrđ2 = 64.54 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.93 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 1730 kgf.m/m As = 3.73 cm ² /m A's = 0.00 cm ² /m	As = 1.93 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 361.28 kgf.m/m F = 0.00 tf físs = 0.02 mm		vsd = 2.67 tf/m vrđ1 = 9.36 tf/m vrđ2 = 59.49 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m

L137	X	bw = 100.0 cm h = 15.0 cm	Md = 2807 kgf.m/m As = 5.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 5856 kgf.m/m As = 12.76 cm ² /m A's = 0.00 cm ² /m	As = 5.68 cm ² /m ø12.5 c/20 (6.14 cm ² /m) M = 1799.30 kgf.m/m F = 0.00 tf fiss = 0.13 mm		vsd = 7.18 tf/m vrd1 = 10.85 tf/m Modelo II vrd2 = 63.83 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 1152 kgf.m/m As = 2.49 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 2745 kgf.m/m As = 6.27 cm ² /m A's = 0.00 cm ² /m	As = 2.49 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 727.80 kgf.m/m F = 0.00 tf fiss = 0.09 mm		vsd = 6.51 tf/m vrd1 = 9.18 tf/m vrd2 = 58.08 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L138	X	bw = 100.0 cm h = 15.0 cm	Md = 1146 kgf.m/m As = 2.21 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 2279 kgf.m/m As = 4.52 cm ² /m A's = 0.00 cm ² /m	As = 2.21 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 736.56 kgf.m/m F = 0.00 tf fiss = 0.08 mm		vsd = 7.71 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 2933 kgf.m/m As = 6.42 cm ² /m A's = 0.00 cm ² /m	As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 305.15 kgf.m/m F = 0.00 tf fiss = 0.01 mm		vsd = 8.86 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L139	X	bw = 100.0 cm h = 15.0 cm	Md = 1383 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 4002 kgf.m/m As = 8.27 cm ² /m A's = 0.00 cm ² /m	As = 2.68 cm ² /m ø8.0 c/18 (2.79 cm ² /m) M = 875.20 kgf.m/m F = 0.00 tf fiss = 0.09 mm	A's = 2.42 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 2537.63 kgf.m/m F = 0.00 tf fiss = 0.13 mm	vsd = 6.26 tf/m vrd1 = 10.14 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 1347 kgf.m/m As = 2.80 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 1972 kgf.m/m As = 4.19 cm ² /m A's = 0.00 cm ² /m	As = 2.80 cm ² /m ø8.0 c/17 (2.96 cm ² /m) M = 858.71 kgf.m/m F = 0.00 tf fiss = 0.09 mm	A's = 2.18 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 1280.16 kgf.m/m F = 0.00 tf fiss = 0.11 mm	vsd = 6.64 tf/m vrd1 = 9.62 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L140	X	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 1319 kgf.m/m As = 2.55 cm ² /m A's = 0.00 cm ² /m	As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 553.10 kgf.m/m F = 0.00 tf fiss = 0.04 mm		vsd = 2.74 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 903 kgf.m/m As = 1.87 cm ² /m A's = 0.00 cm ² /m	As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 426.75 kgf.m/m F = 0.00 tf fiss = 0.03 mm		vsd = 1.79 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m

L141	X	bw = 100.0 cm h = 15.0 cm	Md = 1062 kgf.m/m As = 2.05 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm		As = 2.05 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 709.17 kgf.m/m F = 0.00 tf fiss = 0.07 mm		vsd = 3.72 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 935 kgf.m/m As = 1.93 cm ² /m A's = 0.00 cm ² /m	As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 183.55 kgf.m/m F = 0.00 tf fiss = 0.01 mm		vsd = 2.03 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L142	X	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm		As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 510.82 kgf.m/m F = 0.00 tf fiss = 0.04 mm		vsd = 3.56 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 1393 kgf.m/m As = 2.90 cm ² /m A's = 0.00 cm ² /m	As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 120.48 kgf.m/m F = 0.00 tf fiss = 0.00 mm		vsd = 2.81 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L143	X	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 1412 kgf.m/m As = 2.74 cm ² /m A's = 0.00 cm ² /m	As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 0.00 kgf.m/m F = 0.00 tf fiss = 0.00 mm		vsd = 2.03 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm		As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 355.34 kgf.m/m F = 0.00 tf fiss = 0.02 mm		vsd = 0.93 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L144	X	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 1722 kgf.m/m As = 3.39 cm ² /m A's = 0.00 cm ² /m	As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 0.00 kgf.m/m F = 0.00 tf fiss = 0.00 mm		vsd = 4.32 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm		As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 169.03 kgf.m/m F = 0.00 tf fiss = 0.00 mm		vsd = 3.41 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L145	X	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.77 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 1553 kgf.m/m As = 3.02 cm ² /m	As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 12.45 kgf.m/m		vsd = 4.20 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m

			A's = 0.00 cm ² /m		A's = 0.00 cm ² /m	F = 0.00 tf fiss = 0.00 mm		asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm		As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 228.70 kgf.m/m F = 0.00 tf fiss = 0.01 mm		vsd = 3.15 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L146	X	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 1774 kgf.m/m As = 3.49 cm ² /m A's = 0.00 cm ² /m	As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 10.20 kgf.m/m F = 0.00 tf fiss = 0.00 mm		vsd = 2.28 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 810 kgf.m/m As = 1.66 cm ² /m A's = 0.00 cm ² /m	As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 201.50 kgf.m/m F = 0.00 tf fiss = 0.01 mm		vsd = 1.15 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L147	X	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 2254 kgf.m/m As = 4.47 cm ² /m A's = 0.00 cm ² /m	As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 114.49 kgf.m/m F = 0.00 tf fiss = 0.00 mm		vsd = 4.11 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 838 kgf.m/m As = 1.73 cm ² /m A's = 0.00 cm ² /m	As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 555.09 kgf.m/m F = 0.00 tf fiss = 0.05 mm		vsd = 1.04 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L148	X	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 1844 kgf.m/m As = 3.63 cm ² /m A's = 0.00 cm ² /m	As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 0.00 kgf.m/m F = 0.00 tf fiss = 0.00 mm		vsd = 2.77 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm		As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 328.78 kgf.m/m F = 0.00 tf fiss = 0.02 mm		vsd = 1.21 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L149	X	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 1761 kgf.m/m As = 3.46 cm ² /m A's = 0.00 cm ² /m	As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 0.00 kgf.m/m F = 0.00 tf fiss = 0.00 mm		vsd = 2.45 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m	bw = 100.0 cm h = 15.0 cm		As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m)		vsd = 0.98 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m

			As = 1.89 cm ² /m A's = 0.00 cm ² /m			M = 176.92 kgf.m/m F = 0.00 tf físs = 0.01 mm		vsw = 0.00 tf/m asw = 0.00 cm ² /m
L150	X	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 1760 kgf.m/m As = 3.46 cm ² /m A's = 0.00 cm ² /m	As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 0.00 kgf.m/m F = 0.00 tf físs = 0.00 mm		vsd = 2.47 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm		As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 354.39 kgf.m/m F = 0.00 tf físs = 0.02 mm		vsd = 1.22 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L151	X	bw = 100.0 cm h = 15.0 cm	Md = 2592 kgf.m/m As = 5.23 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 5394 kgf.m/m As = 11.64 cm ² /m A's = 0.00 cm ² /m	As = 5.23 cm ² /m ø12.5 c/20 (6.14 cm ² /m) M = 1640.65 kgf.m/m F = 0.00 tf físs = 0.11 mm		vsd = 6.88 tf/m vrd1 = 10.85 tf/m Modelo II vrd2 = 63.83 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 1154 kgf.m/m As = 2.50 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 2999 kgf.m/m As = 6.89 cm ² /m A's = 0.00 cm ² /m	As = 2.50 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 721.15 kgf.m/m F = 0.00 tf físs = 0.09 mm		vsd = 7.82 tf/m vrd1 = 9.18 tf/m vrd2 = 58.08 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L152	X	bw = 100.0 cm h = 15.0 cm	Md = 1691 kgf.m/m As = 3.32 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 4404 kgf.m/m As = 9.32 cm ² /m A's = 0.00 cm ² /m	As = 3.32 cm ² /m ø10.0 c/20 (3.93 cm ² /m) M = 1067.24 kgf.m/m F = 0.00 tf físs = 0.08 mm		vsd = 4.86 tf/m vrd1 = 10.37 tf/m Modelo II vrd2 = 64.54 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.93 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 1733 kgf.m/m As = 3.74 cm ² /m A's = 0.00 cm ² /m	As = 1.93 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 409.49 kgf.m/m F = 0.00 tf físs = 0.03 mm		vsd = 2.66 tf/m vrd1 = 9.36 tf/m vrd2 = 59.49 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L153	X	bw = 100.0 cm h = 15.0 cm	Md = 1658 kgf.m/m As = 3.26 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 4663 kgf.m/m As = 9.92 cm ² /m A's = 0.00 cm ² /m	As = 3.26 cm ² /m ø10.0 c/20 (3.93 cm ² /m) M = 1045.71 kgf.m/m F = 0.00 tf físs = 0.08 mm		vsd = 5.90 tf/m vrd1 = 10.37 tf/m Modelo II vrd2 = 64.54 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 1014 kgf.m/m As = 2.14 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 2389 kgf.m/m As = 5.28 cm ² /m A's = 0.00 cm ² /m	As = 2.14 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 647.93 kgf.m/m F = 0.00 tf físs = 0.07 mm	A's = 1.67 cm ² /m ø6.3 c/18 (1.73 cm ² /m) M = 1514.65 kgf.m/m F = 0.00 tf	vsd = 4.45 tf/m vrd1 = 9.36 tf/m vrd2 = 59.49 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m

							fiss = 0.11 mm	
L154	X	bw = 100.0 cm h = 15.0 cm	Md = 1443 kgf.m/m As = 2.80 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 3430 kgf.m/m As = 7.02 cm ² /m A's = 0.00 cm ² /m	As = 2.80 cm ² /m ø8.0 c/17 (2.96 cm ² /m) M = 908.37 kgf.m/m F = 0.00 tf fiss = 0.08 mm		vsd = 6.07 tf/m vrd1 = 10.19 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 1285 kgf.m/m As = 2.67 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 2710 kgf.m/m As = 5.91 cm ² /m A's = 0.00 cm ² /m	As = 2.67 cm ² /m ø8.0 c/18 (2.79 cm ² /m) M = 813.39 kgf.m/m F = 0.00 tf fiss = 0.09 mm	A's = 1.85 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 1719.50 kgf.m/m F = 0.00 tf fiss = 0.14 mm	vsd = 5.07 tf/m vrd1 = 9.57 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L155	X	bw = 100.0 cm h = 15.0 cm	Md = 2326 kgf.m/m As = 4.62 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 3515 kgf.m/m As = 7.20 cm ² /m A's = 0.00 cm ² /m	As = 4.62 cm ² /m ø10.0 c/17 (4.62 cm ² /m) M = 1468.16 kgf.m/m F = 0.00 tf fiss = 0.12 mm		vsd = 5.30 tf/m vrd1 = 10.55 tf/m Modelo II vrd2 = 64.54 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 1627 kgf.m/m As = 3.50 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 3382 kgf.m/m As = 7.63 cm ² /m A's = 0.00 cm ² /m	As = 3.50 cm ² /m ø10.0 c/20 (3.93 cm ² /m) M = 1025.74 kgf.m/m F = 0.00 tf fiss = 0.09 mm	A's = 1.78 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 2144.91 kgf.m/m F = 0.00 tf fiss = 0.14 mm	vsd = 4.73 tf/m vrd1 = 9.65 tf/m vrd2 = 58.92 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L156	X	bw = 100.0 cm h = 15.0 cm	Md = 2270 kgf.m/m As = 4.50 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 3407 kgf.m/m As = 6.96 cm ² /m A's = 0.00 cm ² /m	As = 4.50 cm ² /m ø10.0 c/17 (4.62 cm ² /m) M = 1432.49 kgf.m/m F = 0.00 tf fiss = 0.11 mm		vsd = 5.31 tf/m vrd1 = 10.55 tf/m Modelo II vrd2 = 64.54 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 1547 kgf.m/m As = 3.32 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 3199 kgf.m/m As = 7.19 cm ² /m A's = 0.00 cm ² /m	As = 3.32 cm ² /m ø10.0 c/20 (3.93 cm ² /m) M = 975.54 kgf.m/m F = 0.00 tf fiss = 0.08 mm	A's = 1.79 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 2026.09 kgf.m/m F = 0.00 tf fiss = 0.14 mm	vsd = 4.77 tf/m vrd1 = 9.65 tf/m vrd2 = 58.92 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L157	X	bw = 100.0 cm h = 15.0 cm	Md = 1346 kgf.m/m As = 2.61 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 3331 kgf.m/m As = 6.80 cm ² /m A's = 0.00 cm ² /m	As = 2.61 cm ² /m ø8.0 c/19 (2.65 cm ² /m) M = 846.10 kgf.m/m F = 0.00 tf fiss = 0.09 mm		vsd = 6.30 tf/m vrd1 = 10.11 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 1286 kgf.m/m	bw = 100.0 cm h = 15.0 cm	Md = 2678 kgf.m/m	As = 2.67 cm ² /m ø8.0 c/18 (2.79 cm ² /m)	A's = 1.81 cm ² /m ø8.0 c/20 (2.51 cm ² /m)	vsd = 5.30 tf/m vrd1 = 9.57 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m

			As = 2.67 cm ² /m A's = 0.00 cm ² /m		As = 5.84 cm ² /m A's = 0.00 cm ² /m	M = 816.73 kgf.m/m F = 0.00 tf físs = 0.09 mm	M = 1703.26 kgf.m/m F = 0.00 tf físs = 0.13 mm	asw = 0.00 cm ² /m
L158	X	bw = 100.0 cm h = 15.0 cm	Md = 2437 kgf.m/m As = 4.85 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 3267 kgf.m/m As = 6.66 cm ² /m A's = 0.00 cm ² /m	As = 4.85 cm ² /m ø10.0 c/16 (4.91 cm ² /m) M = 1540.58 kgf.m/m F = 0.00 tf físs = 0.11 mm	A's = 0.01 cm ² /m ø6.3 c/20 (1.56 cm ² /m) M = 2049.62 kgf.m/m F = 0.00 tf físs = 0.14 mm	vsd = 5.66 tf/m vrd1 = 10.62 tf/m Modelo II vrd2 = 64.54 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 1513 kgf.m/m As = 3.25 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 3208 kgf.m/m As = 7.21 cm ² /m A's = 0.00 cm ² /m	As = 3.25 cm ² /m ø10.0 c/20 (3.93 cm ² /m) M = 956.18 kgf.m/m F = 0.00 tf físs = 0.08 mm	A's = 1.92 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 2065.31 kgf.m/m F = 0.00 tf físs = 0.15 mm	vsd = 8.36 tf/m vrd1 = 9.65 tf/m vrd2 = 58.92 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m

ARMADURAS NEGATIVAS (NA CONTINUIDADE)					
Viga Trecho	Laje 1	Momento negativo Seção	Flexão	Momento positivo Seção	Armaduras finais
	Laje 2				
V103 2	L101 L109	bw = 100.0 cm h = 15.0 cm	Md = 3157 kgf.m/m As = 6.53 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 6.53 cm ² /m (ø16.0 c/20 - 10.05 cm ² /m) físs = 0.10 mm
V103 3	L101 L109	bw = 100.0 cm h = 15.0 cm	Md = 3157 kgf.m/m As = 6.53 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 6.53 cm ² /m (ø16.0 c/20 - 10.05 cm ² /m) físs = 0.10 mm
V129 4	L101 L102	bw = 100.0 cm h = 15.0 cm	Md = 5442 kgf.m/m As = 11.55 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 11.55 cm ² /m (ø12.5 c/10 - 12.27 cm ² /m) físs = 0.16 mm
V129 5	L101 L102	bw = 100.0 cm h = 15.0 cm	Md = 5442 kgf.m/m As = 11.55 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 11.55 cm ² /m (ø12.5 c/10 - 12.27 cm ² /m) físs = 0.16 mm
V134 3	L102 L103	bw = 100.0 cm h = 15.0 cm	Md = 4740 kgf.m/m As = 9.80 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 9.80 cm ² /m (ø10.0 c/8 - 9.82 cm ² /m) físs = 0.15 mm
V103 4	L102 L110	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) físs = 0.02 mm

V103 5	L102 L110	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.02 mm
V134 2	L102 L103	bw = 100.0 cm h = 15.0 cm	Md = 4740 kgf.m/m As = 9.80 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 9.80 cm ² /m (ø10.0 c/8 - 9.82 cm ² /m) fiss = 0.15 mm
V104 3	L107 L115	bw = 100.0 cm h = 15.0 cm	Md = 2522 kgf.m/m As = 5.02 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 5.02 cm ² /m (ø10.0 c/15 - 5.24 cm ² /m) fiss = 0.14 mm
V104 4	L107 L115	bw = 100.0 cm h = 15.0 cm	Md = 2522 kgf.m/m As = 5.02 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 5.02 cm ² /m (ø10.0 c/15 - 5.24 cm ² /m) fiss = 0.14 mm
V151 3	L107 L108	bw = 100.0 cm h = 15.0 cm	Md = 3281 kgf.m/m As = 6.69 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 6.69 cm ² /m (ø12.5 c/18 - 6.82 cm ² /m) fiss = 0.18 mm
V149 3	L107 L106	bw = 100.0 cm h = 15.0 cm	Md = 3311 kgf.m/m As = 6.76 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 6.76 cm ² /m (ø12.5 c/18 - 6.82 cm ² /m) fiss = 0.18 mm
V104 6	L108 L116	bw = 100.0 cm h = 15.0 cm	Md = 3225 kgf.m/m As = 6.50 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 6.50 cm ² /m (ø10.0 c/12 - 6.54 cm ² /m) fiss = 0.15 mm
V104 5	L108 L116	bw = 100.0 cm h = 15.0 cm	Md = 3225 kgf.m/m As = 6.50 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 6.50 cm ² /m (ø10.0 c/12 - 6.54 cm ² /m) fiss = 0.15 mm
V129 3	L110 L109	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.02 mm
V105 3	L110 L118	bw = 100.0 cm h = 15.0 cm	Md = 1691 kgf.m/m As = 3.32 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 3.32 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.11 mm
V105 4	L110 L119	bw = 100.0 cm h = 15.0 cm	Md = 3937 kgf.m/m As = 8.12 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 8.12 cm ² /m (ø12.5 c/15 - 8.18 cm ² /m) fiss = 0.18 mm
V134 1	L110 L111	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.01 mm

V149 2	L115 L114	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.01 mm
V107 2	L115 L123	bw = 100.0 cm h = 15.0 cm	Md = 2629 kgf.m/m As = 5.24 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 5.24 cm ² /m (ø10.0 c/14 - 5.61 cm ² /m) fiss = 0.13 mm
V151 2	L115 L116	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.02 mm
V105 2	L117 L109	bw = 100.0 cm h = 15.0 cm	Md = 3196 kgf.m/m As = 6.43 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 6.43 cm ² /m (ø10.0 c/12 - 6.54 cm ² /m) fiss = 0.14 mm
V129 1	L117 L126	bw = 100.0 cm h = 15.0 cm	Md = 3860 kgf.m/m As = 7.95 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 7.95 cm ² /m (ø12.5 c/15 - 8.18 cm ² /m) fiss = 0.17 mm
V129 2	L117 L118	bw = 100.0 cm h = 15.0 cm	Md = 5857 kgf.m/m As = 12.76 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 12.76 cm ² /m (ø16.0 c/15 - 13.40 cm ² /m) fiss = 0.21 mm
V151 1	L123 L124	bw = 100.0 cm h = 15.0 cm	Md = 3236 kgf.m/m As = 6.52 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 6.52 cm ² /m (ø10.0 c/12 - 6.54 cm ² /m) fiss = 0.15 mm
V149 1	L123 L122	bw = 100.0 cm h = 15.0 cm	Md = 3171 kgf.m/m As = 6.46 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 6.46 cm ² /m (ø12.5 c/19 - 6.46 cm ² /m) fiss = 0.19 mm
V107 3	L124 L116	bw = 100.0 cm h = 15.0 cm	Md = 3200 kgf.m/m As = 6.44 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 6.44 cm ² /m (ø10.0 c/12 - 6.54 cm ² /m) fiss = 0.14 mm
V118 2	L131 L143	bw = 100.0 cm h = 15.0 cm	Md = 2940 kgf.m/m As = 5.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 5.89 cm ² /m (ø10.0 c/13 - 6.04 cm ² /m) fiss = 0.14 mm
V128 4	L131 L138	bw = 100.0 cm h = 15.0 cm	Md = 5869 kgf.m/m As = 12.79 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 12.79 cm ² /m (ø16.0 c/15 - 13.40 cm ² /m) fiss = 0.21 mm
V128 5	L131 L132	bw = 100.0 cm h = 15.0 cm	Md = 3876 kgf.m/m As = 7.99 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 7.99 cm ² /m (ø12.5 c/15 - 8.18 cm ² /m) fiss = 0.18 mm

V150 4	L136 L137	bw = 100.0 cm h = 15.0 cm	Md = 5856 kgf.m/m As = 12.76 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 12.76 cm ² /m (ø16.0 c/15 - 13.40 cm ² /m) fiss = 0.21 mm
V148 4	L136 L135	bw = 100.0 cm h = 15.0 cm	Md = 5791 kgf.m/m As = 12.60 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 12.60 cm ² /m (ø16.0 c/15 - 13.40 cm ² /m) fiss = 0.20 mm
V148 3	L136 L135	bw = 100.0 cm h = 15.0 cm	Md = 5791 kgf.m/m As = 12.60 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 12.60 cm ² /m (ø16.0 c/15 - 13.40 cm ² /m) fiss = 0.20 mm
V120 2	L136 L149	bw = 100.0 cm h = 15.0 cm	Md = 1730 kgf.m/m As = 3.40 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 3.40 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.11 mm
V150 3	L136 L137	bw = 100.0 cm h = 15.0 cm	Md = 5856 kgf.m/m As = 12.76 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 12.76 cm ² /m (ø16.0 c/15 - 13.40 cm ² /m) fiss = 0.21 mm
V120 3	L137 L150	bw = 100.0 cm h = 15.0 cm	Md = 2745 kgf.m/m As = 5.49 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 5.49 cm ² /m (ø10.0 c/14 - 5.61 cm ² /m) fiss = 0.14 mm
V121 2	L143 L151	bw = 100.0 cm h = 15.0 cm	Md = 2999 kgf.m/m As = 6.02 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 6.02 cm ² /m (ø10.0 c/13 - 6.04 cm ² /m) fiss = 0.15 mm
V121 3	L143 L151	bw = 100.0 cm h = 15.0 cm	Md = 2999 kgf.m/m As = 6.02 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 6.02 cm ² /m (ø10.0 c/13 - 6.04 cm ² /m) fiss = 0.15 mm
V128 3	L143 L144	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.02 mm
V128 2	L151 L152	bw = 100.0 cm h = 15.0 cm	Md = 5394 kgf.m/m As = 11.64 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 11.64 cm ² /m (ø16.0 c/17 - 11.83 cm ² /m) fiss = 0.22 mm
V128 1	L151 L152	bw = 100.0 cm h = 15.0 cm	Md = 5394 kgf.m/m As = 11.64 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 11.64 cm ² /m (ø16.0 c/17 - 11.83 cm ² /m) fiss = 0.22 mm
V133 2	L152 L153	bw = 100.0 cm h = 15.0 cm	Md = 4663 kgf.m/m As = 9.92 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 9.92 cm ² /m (ø16.0 c/20 - 10.05 cm ² /m) fiss = 0.23 mm

V121 5	L152 L144	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.01 mm
V121 4	L152 L144	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.01 mm
V133 1	L152 L153	bw = 100.0 cm h = 15.0 cm	Md = 4663 kgf.m/m As = 9.92 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 9.92 cm ² /m (ø16.0 c/20 - 10.05 cm ² /m) fiss = 0.23 mm
V118 4	L144 L139	bw = 100.0 cm h = 15.0 cm	Md = 3938 kgf.m/m As = 8.13 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 8.13 cm ² /m (ø12.5 c/15 - 8.18 cm ² /m) fiss = 0.18 mm
V118 3	L144 L138	bw = 100.0 cm h = 15.0 cm	Md = 1722 kgf.m/m As = 3.39 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 3.39 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.11 mm
V133 3	L144 L145	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.01 mm
V118 5	L145 L139	bw = 100.0 cm h = 15.0 cm	Md = 4002 kgf.m/m As = 8.27 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 8.27 cm ² /m (ø12.5 c/14 - 8.77 cm ² /m) fiss = 0.16 mm
V121 6	L145 L153	bw = 100.0 cm h = 15.0 cm	Md = 2389 kgf.m/m As = 4.75 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 4.75 cm ² /m (ø10.0 c/16 - 4.91 cm ² /m) fiss = 0.14 mm
V121 7	L145 L153	bw = 100.0 cm h = 15.0 cm	Md = 2389 kgf.m/m As = 4.75 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 4.75 cm ² /m (ø10.0 c/16 - 4.91 cm ² /m) fiss = 0.14 mm
V135 2	L145 L146	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.02 mm
V118 6	L142 L146	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.02 mm
V137 3	L142 L140	bw = 100.0 cm h = 15.0 cm	Md = 1393 kgf.m/m As = 2.73 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.73 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.07 mm

V135 3	L142 L139	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.04 mm
V113 3	L129 L133	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.02 mm
V110 3	L129 L127	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.02 mm
V135 1	L153 L154	bw = 100.0 cm h = 15.0 cm	Md = 2829 kgf.m/m As = 5.66 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 5.66 cm ² /m (ø10.0 c/13 - 6.04 cm ² /m) fiss = 0.13 mm
V137 1	L154 L155	bw = 100.0 cm h = 15.0 cm	Md = 3515 kgf.m/m As = 7.20 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 7.20 cm ² /m (ø12.5 c/17 - 7.22 cm ² /m) fiss = 0.18 mm
V121 9	L154 L146	bw = 100.0 cm h = 15.0 cm	Md = 2710 kgf.m/m As = 5.41 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 5.41 cm ² /m (ø10.0 c/14 - 5.61 cm ² /m) fiss = 0.14 mm
V121 8	L154 L146	bw = 100.0 cm h = 15.0 cm	Md = 2710 kgf.m/m As = 5.41 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 5.41 cm ² /m (ø10.0 c/14 - 5.61 cm ² /m) fiss = 0.14 mm
V150 1	L157 L158	bw = 100.0 cm h = 15.0 cm	Md = 3267 kgf.m/m As = 6.66 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 6.66 cm ² /m (ø12.5 c/18 - 6.82 cm ² /m) fiss = 0.18 mm
V122 4	L157 L149	bw = 100.0 cm h = 15.0 cm	Md = 2678 kgf.m/m As = 5.35 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 5.35 cm ² /m (ø10.0 c/14 - 5.61 cm ² /m) fiss = 0.14 mm
V122 3	L157 L149	bw = 100.0 cm h = 15.0 cm	Md = 2678 kgf.m/m As = 5.35 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 5.35 cm ² /m (ø10.0 c/14 - 5.61 cm ² /m) fiss = 0.14 mm
V148 1	L157 L156	bw = 100.0 cm h = 15.0 cm	Md = 3407 kgf.m/m As = 6.96 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 6.96 cm ² /m (ø12.5 c/17 - 7.22 cm ² /m) fiss = 0.17 mm
V122 6	L158 L150	bw = 100.0 cm h = 15.0 cm	Md = 3208 kgf.m/m As = 6.46 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 6.46 cm ² /m (ø10.0 c/12 - 6.54 cm ² /m) fiss = 0.15 mm

V122 5	L158 L150	bw = 100.0 cm h = 15.0 cm	Md = 3208 kgf.m/m As = 6.46 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 6.46 cm ² /m (ø10.0 c/12 - 6.54 cm ² /m) fiss = 0.15 mm
V137 2	L146 L147	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.03 mm
V150 2	L149 L150	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.02 mm
V148 2	L149 L148	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.01 mm
V120 1	L135 L148	bw = 100.0 cm h = 15.0 cm	Md = 2719 kgf.m/m As = 5.43 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 5.43 cm ² /m (ø10.0 c/14 - 5.61 cm ² /m) fiss = 0.14 mm
V105 5	L111 L119	bw = 100.0 cm h = 15.0 cm	Md = 3978 kgf.m/m As = 8.21 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 8.21 cm ² /m (ø12.5 c/14 - 8.77 cm ² /m) fiss = 0.16 mm
V136 2	L111 L112	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.02 mm
V103 7	L111 L103	bw = 100.0 cm h = 15.0 cm	Md = 2421 kgf.m/m As = 4.81 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 4.81 cm ² /m (ø10.0 c/16 - 4.91 cm ² /m) fiss = 0.14 mm
V103 6	L111 L103	bw = 100.0 cm h = 15.0 cm	Md = 2421 kgf.m/m As = 4.81 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 4.81 cm ² /m (ø10.0 c/16 - 4.91 cm ² /m) fiss = 0.14 mm
V138 1	L120 L121	bw = 100.0 cm h = 15.0 cm	Md = 1486 kgf.m/m As = 2.91 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.91 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.08 mm
V105 6	L120 L112	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.02 mm
V136 1	L120 L119	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.04 mm

V136 3	L103 L104	bw = 100.0 cm h = 15.0 cm	Md = 2587 kgf.m/m As = 5.16 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 5.16 cm ² /m (ø10.0 c/15 - 5.24 cm ² /m) fiss = 0.15 mm
V138 4	L105 L104	bw = 100.0 cm h = 15.0 cm	Md = 5300 kgf.m/m As = 11.07 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 11.07 cm ² /m (ø10.0 c/7 - 11.22 cm ² /m) fiss = 0.14 mm
V138 3	L105 L104	bw = 100.0 cm h = 15.0 cm	Md = 5300 kgf.m/m As = 11.07 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 11.07 cm ² /m (ø10.0 c/7 - 11.22 cm ² /m) fiss = 0.14 mm
V103 10	L105 L113	bw = 100.0 cm h = 15.0 cm	Md = 2828 kgf.m/m As = 5.66 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 5.66 cm ² /m (ø10.0 c/13 - 6.04 cm ² /m) fiss = 0.13 mm
V103 11	L105 L113	bw = 100.0 cm h = 15.0 cm	Md = 2828 kgf.m/m As = 5.66 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 5.66 cm ² /m (ø10.0 c/13 - 6.04 cm ² /m) fiss = 0.13 mm
V104 1	L106 L114	bw = 100.0 cm h = 15.0 cm	Md = 3180 kgf.m/m As = 6.40 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 6.40 cm ² /m (ø10.0 c/12 - 6.54 cm ² /m) fiss = 0.14 mm
V104 2	L106 L114	bw = 100.0 cm h = 15.0 cm	Md = 3180 kgf.m/m As = 6.40 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 6.40 cm ² /m (ø10.0 c/12 - 6.54 cm ² /m) fiss = 0.14 mm
V107 1	L114 L122	bw = 100.0 cm h = 15.0 cm	Md = 3431 kgf.m/m As = 6.93 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 6.93 cm ² /m (ø10.0 c/11 - 7.14 cm ² /m) fiss = 0.14 mm
V119 1	L147 L140	bw = 100.0 cm h = 15.0 cm	Md = 1789 kgf.m/m As = 3.52 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 3.52 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.12 mm
V121 10	L147 L155	bw = 100.0 cm h = 15.0 cm	Md = 3382 kgf.m/m As = 6.91 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 6.91 cm ² /m (ø12.5 c/17 - 7.22 cm ² /m) fiss = 0.17 mm
V121 11	L147 L155	bw = 100.0 cm h = 15.0 cm	Md = 3382 kgf.m/m As = 6.91 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 6.91 cm ² /m (ø12.5 c/17 - 7.22 cm ² /m) fiss = 0.17 mm
V122 1	L148 L156	bw = 100.0 cm h = 15.0 cm	Md = 3199 kgf.m/m As = 6.44 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 6.44 cm ² /m (ø10.0 c/12 - 6.54 cm ² /m) fiss = 0.14 mm

V122 2	L148 L156	bw = 100.0 cm h = 15.0 cm	Md = 3199 kgf.m/m As = 6.44 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 6.44 cm ² /m (ø10.0 c/12 - 6.54 cm ² /m) fiss = 0.14 mm
V103 8	L104 L112	bw = 100.0 cm h = 15.0 cm	Md = 2375 kgf.m/m As = 4.72 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 4.72 cm ² /m (ø10.0 c/16 - 4.91 cm ² /m) fiss = 0.14 mm
V103 9	L104 L112	bw = 100.0 cm h = 15.0 cm	Md = 2375 kgf.m/m As = 4.72 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 4.72 cm ² /m (ø10.0 c/16 - 4.91 cm ² /m) fiss = 0.14 mm
V138 2	L112 L113	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.03 mm
V111 1	L128 L130	bw = 100.0 cm h = 15.0 cm	Md = 3023 kgf.m/m As = 6.07 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 6.07 cm ² /m (ø10.0 c/12 - 6.54 cm ² /m) fiss = 0.13 mm
V109 2	L128 L125	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.01 mm
V109 1	L128 L121	bw = 100.0 cm h = 15.0 cm		bw = 100.0 cm h = 15.0 cm	fiss = 0.00 mm
V130 3	L126 L127	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.01 mm
V108 1	L126 L118	bw = 100.0 cm h = 15.0 cm	Md = 2166 kgf.m/m As = 4.29 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 4.29 cm ² /m (ø10.0 c/18 - 4.36 cm ² /m) fiss = 0.14 mm
V108 3	L127 L119	bw = 100.0 cm h = 15.0 cm	Md = 1889 kgf.m/m As = 3.72 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 3.72 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.13 mm
V108 2	L127 L118	bw = 100.0 cm h = 15.0 cm	Md = 1734 kgf.m/m As = 3.41 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 3.41 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.11 mm
V130 1	L132 L133	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.01 mm

V116 1	L132 L138	bw = 100.0 cm h = 15.0 cm	Md = 2279 kgf.m/m As = 4.52 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 4.52 cm ² /m (ø10.0 c/17 - 4.62 cm ² /m) fiss = 0.14 mm
V116 2	L133 L138	bw = 100.0 cm h = 15.0 cm	Md = 1796 kgf.m/m As = 3.54 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 3.54 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.12 mm
V116 3	L133 L139	bw = 100.0 cm h = 15.0 cm	Md = 1917 kgf.m/m As = 3.78 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 3.78 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.14 mm
V131 1	L138 L139	bw = 100.0 cm h = 15.0 cm	Md = 1972 kgf.m/m As = 3.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 3.89 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.15 mm
V132 1	L118 L119	bw = 100.0 cm h = 15.0 cm	Md = 1910 kgf.m/m As = 3.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 3.77 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.14 mm
V140 1	L125 L121	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.00 mm
V106 1	L121 L113	bw = 100.0 cm h = 15.0 cm	Md = 2412 kgf.m/m As = 4.79 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 4.79 cm ² /m (ø10.0 c/16 - 4.91 cm ² /m) fiss = 0.14 mm
V139 2	L141 L140	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.00 mm
V117 2	L141 L134	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.03 mm
V117 1	L140 L134	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.00 mm
V114 1	L130 L134	bw = 100.0 cm h = 15.0 cm	Md = 1548 kgf.m/m As = 3.04 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 3.04 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.09 mm

11. Cálculos da Escada

TÉRREO NV-320	$f_{ck} = 400.00 \text{ kgf/cm}^2$	$E = 318758 \text{ kgf/cm}^2$	Peso Espec = 2500.00 kgf/m^3
Lance 2		$\text{cobr} = 2.50 \text{ cm}$	

12. ESCADA: E1

ARMADURAS POSITIVAS (LAJE)										
Laje	Direção	Momento positivo			Momento negativo			Armadura inferior	Armadura superior	Cisalhamento
		Flexão	Verificação axial (compressão)	Verificação axial (tração)	Flexão	Verificação axial (compressão)	Verificação axial (tração)			
LE1	X	Md = 3401 kgf.m/m As = 5.86 cm ² /m A's = 0.00 cm ² /m	Fd = 42.63 tf Situação: GE As = 0.29 cm ² /m A's = 0.00 cm ² /m	Fd = 5.67 tf Situação: GE As = 6.62 cm ² /m A's = 0.00 cm ² /m				As = 6.62 cm ² /m ø12.5 c/18 (6.82 cm ² /m) M = 2275.53 kgf.m/m F = 3.10 tf fiss = 0.14 mm	M = 0.00 kgf.m/m F = 0.00 tf fiss = 0.00 mm	vsd = 10.73 tf/m vrd1 = 12.42 tf/m Modelo II vrd2 = 75.06 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	Md = 879 kgf.m/m As = 1.59 cm ² /m A's = 0.00 cm ² /m	Fd = 4.49 tf Situação: GE As = 0.36 cm ² /m A's = 0.00 cm ² /m	Fd = 0.56 tf Situação: GE As = 1.13 cm ² /m A's = 0.00 cm ² /m	Md = 1550 kgf.m/m As = 2.83 cm ² /m A's = 0.00 cm ² /m	Fd = 4.49 tf Situação: GE As = 2.16 cm ² /m A's = 0.00 cm ² /m	Fd = 0.56 tf Situação: GE As = 2.91 cm ² /m A's = 0.00 cm ² /m	As = 1.59 cm ² /m ø8.0 c/25 (2.01 cm ² /m) M = 387.83 kgf.m/m F = 0.32 tf fiss = 0.03 mm	A's = 2.91 cm ² /m ø8.0 c/17 (2.96 cm ² /m) M = 1037.75 kgf.m/m F = 0.32 tf fiss = 0.10 mm	vsd = 2.98 tf/m vrd1 = 10.47 tf/m vrd2 = 69.31 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
LE2	X	Md = 3734 kgf.m/m As = 5.23 cm ² /m A's = 0.00 cm ² /m	Fd = 7.50 tf Situação: GE As = 4.26 cm ² /m A's = 0.00 cm ² /m	Fd = 3.47 tf Situação: GE As = 5.69 cm ² /m A's = 0.00 cm ² /m	Md = 3316 kgf.m/m As = 4.63 cm ² /m A's = 0.00 cm ² /m	Fd = 7.50 tf Situação: GE As = 3.65 cm ² /m A's = 0.00 cm ² /m	Fd = 3.47 tf Situação: GE As = 5.09 cm ² /m A's = 0.00 cm ² /m	As = 5.69 cm ² /m ø12.5 c/20 (6.14 cm ² /m) M = 2485.65 kgf.m/m F = 1.85 tf fiss = 0.13 mm		vsd = 9.55 tf/m vrd1 = 14.25 tf/m Modelo II vrd2 = 91.89 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	Md = 1216 kgf.m/m		Fd = 10.77 tf Situação: PE	Md = 952 kgf.m/m	Fd = 4.84 tf Situação: GE As = 0.70 cm ² /m	Fd = 10.77 tf Situação: GE	As = 1.96 cm ² /m ø8.0 c/25 (2.01 cm ² /m)	A's = 0.39 cm ² /m ø6.3 c/20 (1.56 cm ² /m)	vsd = 5.53 tf/m vrd1 = 12.53 tf/m

		As = 1.78 cm ² /m A's = 0.00 cm ² /m		As = 1.96 cm ² /m A's = 0.64 cm ² /m	As = 1.39 cm ² /m A's = 0.00 cm ² /m	A's = 0.00 cm ² /m	As = 2.95 cm ² /m A's = 0.00 cm ² /m	M = 246.29 kgf.m/m F = 6.19 tf fiss = 0.06 mm	M = 643.22 kgf.m/m F = 6.19 tf fiss = 0.07 mm	vr _{d2} = 86.14 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
LE3	X	Md = 3989 kgf.m/m As = 7.02 cm ² /m A's = 0.00 cm ² /m	Fd = 17.26 tf Situação: GE As = 4.73 cm ² /m A's = 0.00 cm ² /m	Fd = 30.21 tf Situação: GE As = 11.12 cm ² /m A's = 0.00 cm ² /m	Md = 435 kgf.m/m As = 0.72 cm ² /m A's = 0.00 cm ² /m		Fd = 30.21 tf Situação: PE As = 4.38 cm ² /m A's = 2.56 cm ² /m	As = 11.12 cm ² /m ø16.0 c/18 (11.17 cm ² /m) M = 2668.06 kgf.m/m F = 17.76 tf fiss = 0.17 mm	A's = 4.38 cm ² /m ø10.0 c/17 (4.62 cm ² /m) M = 0.00 kgf.m/m F = 17.76 tf fiss = 0.05 mm	vs _d = 10.91 tf/m vr _{d1} = 13.42 tf/m Modelo II vr _{d2} = 74.08 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	Md = 879 kgf.m/m As = 1.65 cm ² /m A's = 0.00 cm ² /m		Fd = 10.36 tf Situação: GE As = 2.70 cm ² /m A's = 0.00 cm ² /m	Md = 1367 kgf.m/m As = 2.58 cm ² /m A's = 0.00 cm ² /m		Fd = 10.36 tf Situação: GE As = 4.19 cm ² /m A's = 0.00 cm ² /m	As = 2.70 cm ² /m ø10.0 c/25 (3.14 cm ² /m) M = 393.13 kgf.m/m F = 5.94 tf fiss = 0.06 mm	A's = 4.19 cm ² /m ø10.0 c/18 (4.36 cm ² /m) M = 875.96 kgf.m/m F = 5.94 tf fiss = 0.08 mm	vs _d = 6.83 tf/m vr _{d1} = 10.45 tf/m vr _{d2} = 66.78 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m

ARMADURAS NEGATIVAS (NA CONTINUIDADE)

Viga	Laje 1	Momento negativo			Momento positivo			Armaduras finais
		Flexão	Flexo compressão	Flexo tração	Flexão	Flexo compressão	Flexo tração	
Barra	LE2	Md = 1758 kgf.m/m	Fd = 4.91 tf Situação: GE	Fd = 0.64 tf Situação: GE	Md = 3505 kgf.m/m	Fd = 4.91 tf Situação: GE	Fd = 0.64 tf Situação: GE	As = 2.94 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.01 mm A's = 6.07 cm ² /m (ø10.0 c/12 - 6.54 cm ² /m)
	LE3	As = 2.94 cm ² /m A's = 0.00 cm ² /m	As = 0.04 cm ² /m A's = 0.00 cm ² /m	As = 0.81 cm ² /m A's = 0.00 cm ² /m	As = 5.99 cm ² /m A's = 0.00 cm ² /m	As = 5.34 cm ² /m A's = 0.00 cm ² /m	As = 6.07 cm ² /m A's = 0.00 cm ² /m	
Barra	LE2	Md = 4542 kgf.m/m	Fd = 8.00 tf Situação: GE	Fd = 5.31 tf Situação: GE	Md = 3014 kgf.m/m	Fd = 8.00 tf Situação: GE	Fd = 5.31 tf Situação: GE	As = 8.55 cm ² /m (ø10.0 c/9 - 8.73 cm ² /m) fiss = 0.14 mm A's = 5.83 cm ² /m (ø10.0 c/13 - 6.04 cm ² /m)
	LE1	As = 7.86 cm ² /m A's = 0.00 cm ² /m	As = 6.83 cm ² /m A's = 0.00 cm ² /m	As = 8.55 cm ² /m A's = 0.00 cm ² /m	As = 5.12 cm ² /m A's = 0.00 cm ² /m	As = 4.06 cm ² /m A's = 0.00 cm ² /m	As = 5.83 cm ² /m A's = 0.00 cm ² /m	

13. ESCADA: E2

ARMADURAS POSITIVAS (LAJE)										
Laje	Direção	Momento positivo			Momento negativo			Armadura inferior	Armadura superior	Cisalhamento
		Flexão	Verificação axial (compressão)	Verificação axial (tração)	Flexão	Verificação axial (compressão)	Verificação axial (tração)			
LE4	X	Md = 2875 kgf.m/m As = 4.92 cm ² /m A's = 0.00 cm ² /m		Fd = 4.44 tf Situação: GE As = 5.52 cm ² /m A's = 0.00 cm ² /m				As = 5.52 cm ² /m ø12.5 c/20 (6.14 cm ² /m) M = 1920.84 kgf.m/m F = 2.35 tf fiss = 0.12 mm	M = 0.00 kgf.m/m F = 0.00 tf fiss = 0.00 mm	vsd = 9.24 tf/m vrd1 = 12.24 tf/m Modelo II vrd2 = 75.06 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	Md = 879 kgf.m/m As = 1.59 cm ² /m A's = 0.00 cm ² /m		Fd = 1.48 tf Situação: GE As = 1.04 cm ² /m A's = 0.00 cm ² /m	Md = 1172 kgf.m/m As = 2.13 cm ² /m A's = 0.00 cm ² /m	Fd = 6.92 tf Situação: GE As = 1.10 cm ² /m A's = 0.00 cm ² /m	Fd = 1.48 tf Situação: GE As = 2.35 cm ² /m A's = 0.00 cm ² /m	As = 1.59 cm ² /m ø8.0 c/25 (2.01 cm ² /m) M = 303.26 kgf.m/m F = 0.81 tf fiss = 0.02 mm	A's = 2.35 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 778.57 kgf.m/m F = 0.81 tf fiss = 0.08 mm	vsd = 2.29 tf/m vrd1 = 10.47 tf/m vrd2 = 69.31 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
LE5	X	Md = 6278 kgf.m/m As = 9.09 cm ² /m A's = 0.00 cm ² /m	Fd = 16.80 tf Situação: GE As = 6.96 cm ² /m A's = 0.00 cm ² /m	Fd = 5.88 tf Situação: GE As = 9.84 cm ² /m A's = 0.00 cm ² /m	Md = 2642 kgf.m/m As = 3.64 cm ² /m A's = 0.00 cm ² /m	Fd = 16.80 tf Situação: GE As = 1.45 cm ² /m A's = 0.00 cm ² /m	Fd = 5.88 tf Situação: GE As = 4.42 cm ² /m A's = 0.00 cm ² /m	As = 9.84 cm ² /m ø16.0 c/20 (10.05 cm ² /m) M = 3862.68 kgf.m/m F = 3.33 tf fiss = 0.17 mm		vsd = 7.39 tf/m vrd1 = 15.12 tf/m Modelo II vrd2 = 90.91 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	Md = 1216 kgf.m/m As = 1.82 cm ² /m A's = 0.00 cm ² /m	Fd = 4.27 tf Situação: GE As = 0.03 cm ² /m A's = 0.00 cm ² /m	Fd = 7.59 tf Situação: GE As = 1.78 cm ² /m A's = 0.00 cm ² /m	Md = 910 kgf.m/m As = 1.36 cm ² /m A's = 0.00 cm ² /m	Fd = 4.27 tf Situação: GE As = 0.73 cm ² /m A's = 0.00 cm ² /m	Fd = 7.59 tf Situação: GE As = 2.48 cm ² /m A's = 0.00 cm ² /m	As = 1.97 cm ² /m ø8.0 c/25 (2.01 cm ² /m) M = 281.14 kgf.m/m F = 4.20 tf fiss = 0.05 mm	A's = 0.21 cm ² /m ø6.3 c/20 (1.56 cm ² /m) M = 616.07 kgf.m/m F = 4.20 tf fiss = 0.07 mm	vsd = 5.35 tf/m vrd1 = 12.30 tf/m vrd2 = 84.18 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
LE6	X	Md = 5987 kgf.m/m As = 10.82 cm ² /m	Fd = 19.31 tf Situação: GE As = 8.37 cm ² /m A's = 0.00 cm ² /m	Fd = 30.37 tf Situação: GE As = 14.78 cm ² /m A's = 0.00 cm ² /m	Md = 496 kgf.m/m As = 0.82 cm ² /m		Fd = 30.37 tf Situação: PE As = 4.53 cm ² /m A's = 2.45 cm ² /m	As = 14.78 cm ² /m ø16.0 c/13 (15.47 cm ² /m) M = 4033.61 kgf.m/m	A's = 4.53 cm ² /m ø10.0 c/17 (4.62 cm ² /m) M = 0.00 kgf.m/m	vsd = 12.23 tf/m vrd1 = 14.52 tf/m Modelo II vrd2 = 74.08 tf/m

		A's = 0.00 cm ² /m			A's = 0.00 cm ² /m			F = 17.57 tf fiss = 0.17 mm	F = 17.57 tf fiss = 0.05 mm	vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	Md = 879 kgf.m/m As = 1.65 cm ² /m A's = 0.00 cm ² /m		Fd = 4.66 tf Situação: GE As = 1.63 cm ² /m A's = 0.00 cm ² /m	Md = 1077 kgf.m/m As = 2.01 cm ² /m A's = 0.00 cm ² /m		Fd = 4.66 tf Situação: GE As = 2.73 cm ² /m A's = 0.00 cm ² /m	As = 2.96 cm ² /m ø10.0 c/25 (3.14 cm ² /m) M = 275.38 kgf.m/m F = 2.69 tf fiss = 0.02 mm	A's = 2.73 cm ² /m ø8.0 c/18 (2.79 cm ² /m) M = 721.87 kgf.m/m F = 2.69 tf fiss = 0.08 mm	vsd = 7.00 tf/m vrd1 = 10.45 tf/m vrd2 = 66.78 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m

ARMADURAS NEGATIVAS (NA CONTINUIDADE)

Viga Trecho	Laje 1 Laje 2	Momento negativo			Momento positivo			Armaduras finais	
		Flexão	Flexo compressão	Flexo tração	Flexão	Flexo compressão	Flexo tração		
Barra	LE5 LE6	Md = 1758 kgf.m/m As = 2.94 cm ² /m A's = 0.00 cm ² /m		Fd = 11.51 tf Situação: GE As = 3.16 cm ² /m A's = 0.00 cm ² /m	Md = 5742 kgf.m/m As = 10.08 cm ² /m A's = 0.00 cm ² /m		Fd = 16.80 tf Situação: GE As = 7.99 cm ² /m A's = 0.00 cm ² /m	Fd = 11.51 tf Situação: GE As = 11.55 cm ² /m A's = 0.00 cm ² /m	As = 3.16 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.07 mm A's = 11.55 cm ² /m (ø12.5 c/10 - 12.27 cm ² /m)
Barra	LE5 LE4	Md = 3818 kgf.m/m As = 6.55 cm ² /m A's = 0.00 cm ² /m	Fd = 10.05 tf Situação: GE As = 5.23 cm ² /m A's = 0.00 cm ² /m	Fd = 4.44 tf Situação: GE As = 7.13 cm ² /m A's = 0.00 cm ² /m	Md = 1758 kgf.m/m As = 2.94 cm ² /m A's = 0.00 cm ² /m		Fd = 10.05 tf Situação: GE As = 0.79 cm ² /m A's = 0.00 cm ² /m	Fd = 4.44 tf Situação: GE As = 2.77 cm ² /m A's = 0.00 cm ² /m	As = 7.13 cm ² /m (ø10.0 c/11 - 7.14 cm ² /m) fiss = 0.14 mm A's = 2.94 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m)

	CINNANTI ARQUITETURA E ENGENHARIA LTDA	
	SECRETARIA DE ESTADO DE EDUCAÇÃO DO DISTRITO FEDERAL SEEDF	29/12/2022

14. Pavimento SUPERIOR NV-640

15. Cálculo dos Pilares

SUPERIOR NV-640	$f_{ck} = 400.00 \text{ kgf/cm}^2$	$E = 318758 \text{ kgf/cm}^2$	Peso Espec = 2500.00 kgf/m^3
Lance 3		$cobr = 3.00 \text{ cm}$	

Pilar	Seção (cm)	vínc esb B vínc esb H	Nd máx Nd mín (tf)	Msd(x) Msd(y) (kgf.m)	Mrd(x) Mrd(y) (kgf.m)	Mrd/Msd	As b As h (cm ²)
P1	20.00 X 40.00	RR 56.23 RR 28.11	15.90 9.94	3304 8356	3290 8321	(*) 1.00	3.14 (4 ø 10.0) 5.50 (7 ø 10.0)
P3	20.00 X 40.00	RR 56.23 RR 28.11	18.36 11.40	53 4487	76 6438	(*) 1.43	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P5	20.00 X 40.00	RR 56.23 RR 28.11	17.36 10.75	1556 4126	1920 5090	(*) 1.23	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P7	20.00 X 40.00	RR 56.23 RR 28.11	26.98 17.00	781 16756	895 19193	(*) 1.15	9.42 (3 ø 20.0) 9.42 (3 ø 20.0)
P8	20.00 X 40.00	RR 56.23 RR 28.11	20.81 13.02	1944 5445	1960 5492	(*) 1.01	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P9	15.00 X 50.00	RR 74.97 RR 22.49	9.78 5.76	1803 2325	1914 2468	(*) 1.06	2.45 (2 ø 12.5) 3.68 (3 ø 12.5)
P10	15.00 X 50.00	RR 74.97 RR 22.49	15.59 9.51	2568 10919	2630 11181	(*) 1.02	2.36 (3 ø 10.0) 10.21 (13 ø 10.0)
P11	20.00 X 40.00	RR 56.23 RR 28.11	27.74 17.35	1040 17831	1108 19001	(*) 1.07	9.42 (3 ø 20.0) 9.42 (3 ø 20.0)
P12	20.00 X 40.00	RR 56.23 RR 28.11	27.86 17.41	884 19504	956 21093	(*) 1.08	9.42 (3 ø 20.0) 12.57 (4 ø 20.0)
P13	20.00 X 40.00	RR 56.23 RR 28.11	15.87 9.94	2570 7933	3554 10971	(*) 1.38	6.28 (2 ø 20.0) 9.42 (3 ø 20.0)
P16	15.00 X 40.00	RR 74.97 RR 28.11	26.65 15.97	1241 442	2871 1022	(*) 2.31	1.57 (2 ø 10.0) 4.71 (6 ø 10.0)
P18	15.00 X 40.00	RR 74.97 RR 28.11	24.96 15.08	1175 187	2727 435	(*) 2.32	1.57 (2 ø 10.0) 3.93 (5 ø 10.0)

P20	15.00 X 40.00	RR 74.97 RR 28.11	29.83 18.52	1414 567	3544 1421	(*) 2.51	1.57 (2 ø 10.0) 7.07 (9 ø 10.0)
P21	15.00 X 40.00	RR 74.97 RR 28.11	12.56 7.36	561 1704	1199 3644	(*) 2.14	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P23	20.00 X 40.00	RR 56.23 RR 28.11	20.26 12.64	4368 4463	4484 4581	(*) 1.03	1.57 (2 ø 10.0) 7.07 (9 ø 10.0)
P27	20.00 X 40.00	RR 56.23 RR 28.11	20.06 12.24	2225 938	2849 1201	(*) 1.28	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P31	20.00 X 40.00	RR 56.23 RR 28.11	13.31 7.37	2239 1541	2350 1617	(*) 1.05	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P34	20.00 X 40.00	RR 56.23 RR 28.11	29.26 18.08	1323 14399	1693 18426	(*) 1.28	9.42 (3 ø 20.0) 9.42 (3 ø 20.0)
P36	20.00 X 40.00	RR 56.23 RR 28.11	18.26 11.24	3668 6108	3993 6648	(*) 1.09	2.45 (2 ø 12.5) 7.36 (6 ø 12.5)
P37	20.00 X 40.00	RR 56.23 RR 28.11	18.23 11.16	4527 5297	5045 5903	(*) 1.11	6.28 (2 ø 20.0) 9.42 (3 ø 20.0)
P38	20.00 X 40.00	RR 56.23 RR 28.11	28.08 17.49	664 6452	769 7473	(*) 1.16	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P39	20.00 X 40.00	RR 56.23 RR 28.11	14.10 8.48	2929 3090	2900 3060	(*) 0.99	2.45 (2 ø 12.5) 3.68 (3 ø 12.5)
P40	20.00 X 40.00	RR 56.23 RR 28.11	18.79 11.91	2795 588	2876 605	(*) 1.03	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P41	20.00 X 40.00	RR 56.23 RR 28.11	44.39 29.69	69 11725	75 12634	(*) 1.08	3.68 (3 ø 12.5) 3.68 (3 ø 12.5)
P42	20.00 X 40.00	RR 56.23 RR 28.11	47.04 30.98	3118 10271	3666 12076	(*) 1.18	6.28 (2 ø 20.0) 9.42 (3 ø 20.0)
P43	15.00 X 50.00	RR 74.97 RR 22.49	15.89 9.37	2123 2260	2186 2327	(*) 1.03	2.45 (2 ø 12.5) 3.68 (3 ø 12.5)
P44	15.00 X 50.00	RR 74.97 RR 22.49	20.40 12.48	2953 4184	3189 4517	(*) 1.08	2.36 (3 ø 10.0) 7.07 (9 ø 10.0)

P45	20.00 X 40.00	RR 56.23 RR 28.11	37.60 23.28	1635 10607	2077 13477	(*) 1.27	6.03 (3 ø 16.0) 6.03 (3 ø 16.0)
P46	20.00 X 40.00	RR 56.23 RR 28.11	34.99 21.84	1512 11960	1750 13846	(*) 1.16	6.03 (3 ø 16.0) 6.03 (3 ø 16.0)
P47	20.00 X 40.00	RR 56.23 RR 28.11	19.59 12.14	3325 3894	3960 4638	(*) 1.19	4.02 (2 ø 16.0) 6.03 (3 ø 16.0)
P57	15.00 X 50.00	RR 74.97 RR 22.49	22.59 13.23	874 8210	1102 10357	(*) 1.26	1.57 (2 ø 10.0) 4.71 (6 ø 10.0)
P58	20.00 X 40.00	RR 56.23 RR 28.11	32.99 21.74	3783 4627	3896 4765	(*) 1.03	1.57 (2 ø 10.0) 4.71 (6 ø 10.0)
P61	20.00 X 40.00	RR 56.23 RR 28.11	19.31 12.30	3352 6775	3448 6971	(*) 1.03	4.02 (2 ø 16.0) 6.03 (3 ø 16.0)
P62	20.00 X 40.00	RR 56.23 RR 28.11	9.72 5.70	95 1832	259 4978	(*) 2.72	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P63	15.00 X 40.00	RR 74.97 RR 28.11	12.49 7.71	146 8612	149 8777	(*) 1.02	2.36 (3 ø 10.0) 4.71 (6 ø 10.0)
P64	60.00 X 60.00	RR 18.74 EL 37.48	45.55 27.79	48863 6932	62630 8885	(*) 1.28	15.71 (5 ø 20.0) 15.71 (5 ø 20.0)
P65	20.00 X 30.00	RR 56.23 RR 37.48	12.00 7.43	3791 3561	3936 3697	(*) 1.04	2.45 (2 ø 12.5) 7.36 (6 ø 12.5)
P66	20.00 X 40.00	RR 56.23 RR 28.11	27.63 17.46	9716 1131	9893 1152	(*) 1.02	4.02 (2 ø 16.0) 16.08 (8 ø 16.0)
P67	20.00 X 40.00	RR 57.09 RR 28.54	28.24 17.85	10116 1354	10765 1441	(*) 1.06	4.02 (2 ø 16.0) 18.10 (9 ø 16.0)
P68	20.00 X 40.00	RR 56.23 RR 28.11	18.26 11.53	2899 7950	3329 9128	(*) 1.15	3.14 (4 ø 10.0) 6.28 (8 ø 10.0)
P73	20.00 X 40.00	RR 56.23 RR 28.11	18.97 12.04	3380 7252	4283 9190	(*) 1.27	6.28 (2 ø 20.0) 9.42 (3 ø 20.0)
P74	20.00 X 40.00	RR 56.23 RR 28.11	10.29 6.05	253 1757	715 4972	(*) 2.83	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)

P75	15.00 X 40.00	RR 74.97 RR 28.11	11.75 7.21	25 8189	25 8158	(*) 1.00	2.45 (2 ø 12.5) 4.91 (4 ø 12.5)
P76	60.00 X 60.00	RR 18.74 EL 37.48	40.55 24.90	50140 11856	60138 14221	(*) 1.20	15.71 (5 ø 20.0) 15.71 (5 ø 20.0)
P77	15.00 X 60.00	RR 74.97 RR 18.74	7.79 3.33	2904 1542	3450 1833	1.19	4.02 (2 ø 16.0) 8.04 (4 ø 16.0)
P78	20.00 X 40.00	RR 56.23 RR 28.11	28.21 17.87	6393 1415	6387 1413	(*) 1.00	2.45 (2 ø 12.5) 8.59 (7 ø 12.5)
P79	20.00 X 40.00	RR 56.23 RR 28.11	28.73 18.24	6625 1674	6649 1680	1.00	3.14 (4 ø 10.0) 7.85 (10 ø 10.0)
P80	20.00 X 40.00	RR 56.23 RR 28.11	18.09 11.45	2839 7326	3995 10310	(*) 1.41	6.28 (2 ø 20.0) 9.42 (3 ø 20.0)
P81	15.00 X 50.00	RR 74.97 RR 22.49	21.73 12.75	911 9932	1010 11008	(*) 1.11	2.45 (2 ø 12.5) 4.91 (4 ø 12.5)
P82	20.00 X 40.00	RR 56.23 RR 28.11	36.40 24.15	3592 5236	3571 5206	(*) 0.99	1.57 (2 ø 10.0) 3.93 (5 ø 10.0)
P83	15.00 X 50.00	RR 74.97 RR 22.49	4.15 1.88	1796 2950	1977 3247	(*) 1.10	2.45 (2 ø 12.5) 4.91 (4 ø 12.5)
P84	15.00 X 50.00	RR 74.97 RR 22.49	12.04 6.53	207 5122	263 6526	(*) 1.27	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P97	20.00 X 40.00	RR 56.23 RR 28.11	19.96 12.49	4096 4295	4701 4930	(*) 1.15	2.36 (3 ø 10.0) 7.07 (9 ø 10.0)
P98	20.00 X 40.00	RR 56.23 RR 28.11	22.05 13.76	350 5754	417 6851	(*) 1.19	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P99	20.00 X 40.00	RR 56.23 RR 28.11	19.03 11.94	2703 2917	2907 3137	(*) 1.08	1.57 (2 ø 10.0) 3.14 (4 ø 10.0)
P100	20.00 X 40.00	RR 56.23 RR 28.11	13.51 8.63	2525 662	2532 664	(*) 1.00	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P101	20.00 X 40.00	RR 56.23 RR 28.11	42.21 28.27	33 10411	33 10364	(*) 1.00	2.36 (3 ø 10.0) 2.36 (3 ø 10.0)

P102	20.00 X 40.00	RR 56.23 RR 28.11	41.65 27.19	2619 9693	2601 9626	(*) 0.99	3.68 (3 ø 12.5) 3.68 (3 ø 12.5)
P103	15.00 X 50.00	RR 74.97 RR 22.49	13.80 7.99	1497 1955	1662 2170	(*) 1.11	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P104	15.00 X 50.00	RR 74.97 RR 22.49	15.82 9.49	2336 2544	2496 2718	(*) 1.07	2.45 (2 ø 12.5) 4.91 (4 ø 12.5)
P105	20.00 X 40.00	RR 56.23 RR 28.11	37.99 23.25	438 9829	483 10834	(*) 1.10	3.14 (4 ø 10.0) 2.36 (3 ø 10.0)
P106	20.00 X 40.00	RR 56.23 RR 28.11	37.89 23.48	3862 1637	4182 1773	(*) 1.08	1.57 (2 ø 10.0) 3.14 (4 ø 10.0)
P107	20.00 X 40.00	RR 56.23 RR 28.11	19.22 11.89	3226 4718	3758 5496	(*) 1.16	4.02 (2 ø 16.0) 6.03 (3 ø 16.0)
P108	20.00 X 40.00	RR 56.23 RR 28.11	18.55 11.36	4717 5423	4814 5534	(*) 1.02	2.45 (2 ø 12.5) 8.59 (7 ø 12.5)
P110	20.00 X 40.00	RR 56.23 RR 28.11	36.32 22.41	2135 8024	2114 7944	(*) 0.99	2.36 (3 ø 10.0) 2.36 (3 ø 10.0)
P112	20.00 X 40.00	RR 56.23 RR 28.11	31.44 19.31	2451 11925	2540 12359	(*) 1.04	6.03 (3 ø 16.0) 6.03 (3 ø 16.0)
P115	20.00 X 40.00	RR 56.23 RR 28.11	29.22 18.12	803 11858	970 14328	(*) 1.21	6.03 (3 ø 16.0) 6.03 (3 ø 16.0)
P117	20.00 X 40.00	RR 56.23 RR 28.11	18.61 11.40	3712 5362	4161 6010	(*) 1.12	2.45 (2 ø 12.5) 7.36 (6 ø 12.5)
P126	20.00 X 40.00	RR 56.23 RR 28.11	15.89 9.95	3470 8336	3710 8915	1.07	4.91 (4 ø 12.5) 6.14 (5 ø 12.5)
P127	20.00 X 40.00	RR 56.23 RR 28.11	28.10 17.63	898 14680	1160 18965	(*) 1.29	9.42 (3 ø 20.0) 9.42 (3 ø 20.0)
P128	20.00 X 40.00	RR 56.23 RR 28.11	25.69 16.06	1090 13722	1109 13961	(*) 1.02	6.03 (3 ø 16.0) 6.03 (3 ø 16.0)
P129	20.00 X 40.00	RR 56.23 RR 28.11	27.55 17.35	847 17124	839 16977	(*) 0.99	6.03 (3 ø 16.0) 10.05 (5 ø 16.0)

P130	20.00 X 40.00	RR 56.23 RR 28.11	29.30 18.47	2165 17273	2201 17554	(*) 1.02	9.42 (3 ø 20.0) 9.42 (3 ø 20.0)
P131	15.00 X 50.00	RR 74.97 RR 22.49	16.00 9.77	2048 12465	2031 12364	(*) 0.99	2.36 (3 ø 10.0) 8.64 (11 ø 10.0)
P132	15.00 X 50.00	RR 74.97 RR 22.49	15.74 9.61	2376 12046	2422 12275	(*) 1.02	2.36 (3 ø 10.0) 10.21 (13 ø 10.0)
P133	20.00 X 40.00	RR 56.23 RR 28.11	27.95 17.46	836 17192	934 19200	(*) 1.12	9.42 (3 ø 20.0) 9.42 (3 ø 20.0)
P134	20.00 X 40.00	RR 56.23 RR 28.11	28.01 17.49	1104 18465	1135 18990	(*) 1.03	9.42 (3 ø 20.0) 9.42 (3 ø 20.0)
P135	20.00 X 40.00	RR 56.23 RR 28.11	15.96 9.99	2734 8286	3599 10910	(*) 1.32	6.28 (2 ø 20.0) 9.42 (3 ø 20.0)
P136	20.00 X 40.00	RR 56.23 RR 28.11	12.28 7.69	2205 227	2556 263	1.16	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P137	20.00 X 40.00	RR 56.23 RR 28.11	10.21 5.72	1683 248	2355 347	(*) 1.40	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P138	20.00 X 40.00	RR 56.23 RR 28.11	17.52 10.85	1514 1056	2640 1842	(*) 1.74	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P139	20.00 X 40.00	RR 56.23 RR 28.11	14.17 8.38	2099 1221	2498 1453	1.19	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P140	20.00 X 40.00	RR 56.23 RR 28.11	8.17 5.15	2659 53	2749 55	1.03	1.57 (2 ø 10.0) 3.14 (4 ø 10.0)
P141	20.00 X 40.00	RR 56.23 RR 28.11	15.19 9.43	3888 1746	4132 1855	1.06	1.57 (2 ø 10.0) 5.50 (7 ø 10.0)
P142	20.00 X 40.00	RR 56.23 RR 28.11	19.34 11.67	1129 2774	2098 5155	1.86	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P143	20.00 X 40.00	RR 56.23 RR 28.11	18.26 11.38	3267 2401	3263 2399	1.00	2.45 (2 ø 12.5) 3.68 (3 ø 12.5)
P144	20.00 X 40.00	RR 56.23 RR 28.11	21.14 13.23	2556 376	3122 459	1.22	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)

P145	20.00 X 40.00	RR 56.23 RR 28.11	18.66 10.93	1908 450	2850 673	(*) 1.49	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P146	20.00 X 40.00	RR 56.23 RR 28.11	18.63 11.52	1500 1497	2579 2575	(*) 1.72	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P147	20.00 X 40.00	RR 56.23 RR 28.11	15.82 9.47	2338 1738	2532 1883	1.08	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P148	20.00 X 40.00	RR 56.23 RR 28.11	15.87 10.06	3287 1269	3331 1285	1.01	2.45 (2 ø 12.5) 3.68 (3 ø 12.5)
P149	20.00 X 40.00	RR 56.23 RR 28.11	16.13 10.07	3761 1276	3897 1322	1.04	1.57 (2 ø 10.0) 4.71 (6 ø 10.0)
P150	20.00 X 40.00	RR 56.23 RR 28.11	17.42 10.56	1403 1807	2380 3064	1.70	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P151	20.00 X 40.00	RR 56.23 RR 28.11	17.10 10.73	3108 1756	3297 1863	1.06	2.45 (2 ø 12.5) 3.68 (3 ø 12.5)

(*) Quantidade de barras alterada pelo usuário (para mais)

16. Vigas do pavimento SUPERIOR NV-640

Viga	Vãos			Nós			Avisos
	Md (kgf.m)	As	Als	Md (kgf.m)	As	Als	
V201	22.28	5 ø 10.0	5 ø 10.0	-4.73 -825.13	5 ø 10.0 5 ø 10.0	5 ø 10.0 5 ø 10.0	Aviso 38
V202	684.15 576.66 596.55 512.59 427.11	2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0	2 ø 10.0 2 ø 10.0	-536.86 -1217.76 -658.09 -944.87 -431.17 -809.06 -358.73 -699.93 -457.87 -460.91	2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0	2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0	Avisos 13, 48
V203	4174.89 2079.83 3150.95 2698.31 4771.88	3 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0 3 ø 10.0		-4008.16 -5662.68 -5510.46 -5628.79 -7334.01 -1451.96	3 ø 10.0 2 ø 12.5 2 ø 12.5 2 ø 12.5 3 ø 12.5 2 ø 10.0		
V204	4973.42 2893.34 4456.94	2 ø 12.5 2 ø 10.0 3 ø 10.0		-2002.42 -7110.13 -6883.45 -3266.49	2 ø 10.0 4 ø 10.0 4 ø 10.0 2 ø 10.0		
V205	535.47 549.35 672.64	2 ø 10.0 2 ø 10.0 2 ø 10.0	2 ø 10.0	-620.75 -802.12 -535.43 -742.10 -324.96 -278.02	2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0	2 ø 10.0 2 ø 10.0 2 ø 10.0	Avisos 13, 48
V206	0.11	5 ø 10.0	5 ø 10.0	-826.02 -45.92	5 ø 10.0 5 ø 10.0	5 ø 10.0 5 ø 10.0	Aviso 38
V207	145.99	5 ø 10.0		-34.76 -798.13	5 ø 10.0 5 ø 10.0		
V208	7219.12 0.11 1510.10 5250.59 1317.31 2268.82 7010.32	3 ø 12.5 4 ø 10.0 4 ø 10.0 4 ø 10.0 4 ø 10.0 4 ø 10.0 3 ø 12.5		-5007.15 -3536.45 -1279.45 -5971.62 -7961.92 -4334.64 -5287.49 -10258.99	4 ø 10.0 4 ø 10.0 4 ø 10.0 4 ø 10.0 2 ø 16.0 4 ø 10.0 4 ø 10.0 3 ø 16.0		
V209	171.82 5550.94 2709.31 1776.43 7298.12	4 ø 10.0 4 ø 10.0 4 ø 10.0 4 ø 10.0 2 ø 16.0		-4738.41 -9046.65 -7405.40 -5412.54 -3901.20	4 ø 10.0 4 ø 12.5 2 ø 16.0 4 ø 10.0 4 ø 10.0		
V210	89.37	5 ø 10.0		-429.25 -10.73	5 ø 10.0 5 ø 10.0		
V211	7564.70 1796.03 0.11 11213.35	2 ø 16.0 4 ø 10.0 4 ø 10.0 3 ø 16.0		-4246.26 -8718.86 -1496.10 -11162.79	4 ø 10.0 4 ø 12.5 4 ø 10.0 3 ø 16.0		Aviso 38

	2626.86 5783.73	4 ø 10.0 4 ø 10.0		-11095.03 -9839.37 -0.04	3 ø 16.0 4 ø 12.5 4 ø 10.0		
V212	7373.34 5056.79 7061.30	2 ø 16.0 4 ø 10.0 3 ø 12.5		-1915.83 -11329.39 -11235.98 -4010.21	4 ø 10.0 3 ø 16.0 3 ø 16.0 4 ø 10.0		
V213	40.43	5 ø 10.0		-898.84 -104.09	5 ø 10.0 5 ø 10.0		
V214	0.11 2798.50	4 ø 10.0 4 ø 10.0		-375.69 -6727.97 -15241.87	4 ø 10.0 3 ø 12.5 4 ø 16.0		
V215	79.25	5 ø 10.0	5 ø 10.0	-115.79 -1153.53	5 ø 10.0 5 ø 10.0	5 ø 10.0 5 ø 10.0	
V216	3914.90 0.11 2267.58	3 ø 10.0 2 ø 10.0 2 ø 10.0	2 ø 10.0	-4373.51 -507.89 -3962.87 -11159.71	2 ø 12.5 3 ø 10.0 2 ø 12.5 4 ø 12.5	2 ø 10.0 2 ø 10.0 2 ø 10.0	
V217	2222.40 100.65	2 ø 10.0 2 ø 10.0		-516.03 -2569.69	2 ø 10.0 2 ø 10.0		Avisos 04, 08, 48
V218	4545.34	3 ø 12.5		-27247.63	7 ø 16.0		Aviso 106
V219	1848.08 1183.66 1888.74	2 ø 10.0 2 ø 10.0 2 ø 10.0		-7.10 -2589.31 -1749.01 -2802.81 -307.43	2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0		Avisos 04, 48
V220	3774.76 2650.16 3873.81	2 ø 10.0 2 ø 10.0 2 ø 10.0	2 ø 10.0	-4320.81 -6476.17 -6678.90 -217.48 -3887.48	3 ø 10.0 4 ø 10.0 3 ø 12.5 3 ø 10.0 2 ø 12.5	2 ø 10.0 2 ø 10.0 2 ø 10.0	
V221	73.19	5 ø 10.0	5 ø 10.0	-960.68 -72.70	5 ø 10.0 5 ø 10.0	5 ø 10.0 5 ø 10.0	
V222	74.79	5 ø 10.0	5 ø 10.0	-82.84 -1000.11	5 ø 10.0 5 ø 10.0	5 ø 10.0 5 ø 10.0	
V223	3915.70 0.11 1956.41	3 ø 10.0 2 ø 10.0 2 ø 10.0	2 ø 10.0	-4233.56 -395.49 -4005.24 -10407.87	2 ø 12.5 3 ø 10.0 2 ø 12.5 4 ø 12.5	2 ø 10.0 2 ø 10.0 2 ø 10.0	
V224	2202.68 108.97	2 ø 10.0 2 ø 10.0		-515.33 -2515.32	2 ø 10.0 2 ø 10.0		Avisos 04, 08, 48
V225	4502.47	3 ø 12.5		-27546.37	7 ø 16.0		Aviso 106
V226	2450.93 1416.13 2301.19	2 ø 10.0 2 ø 10.0 2 ø 10.0		-3665.85 -2392.13 -3914.83 -144.78	2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0		Avisos 04, 48
V227	3822.57 2455.81 3594.67	2 ø 10.0 2 ø 10.0 2 ø 10.0	2 ø 10.0	-4799.43 -6264.54 -6376.79 -91.23 -3631.83	3 ø 10.0 4 ø 10.0 3 ø 12.5 3 ø 10.0 3 ø 10.0	2 ø 10.0 2 ø 10.0 2 ø 10.0	
V228	74.56	5 ø 10.0	5 ø 10.0	-946.48 -71.02	5 ø 10.0 5 ø 10.0	5 ø 10.0 5 ø 10.0	
V229	0.11 1919.71	3 ø 12.5 3 ø 12.5		-414.88 -10699.16 -20522.19	3 ø 12.5 4 ø 12.5 3 ø 20.0		
V230	97.98	5 ø 10.0	5 ø 10.0	-99.00 -1083.36	5 ø 10.0 5 ø 10.0	5 ø 10.0 5 ø 10.0	Aviso 08
V231	6793.32 2026.16	3 ø 12.5 4 ø 10.0		-4925.57 -7920.73	4 ø 10.0 2 ø 16.0		Aviso 38

	10203.37 2390.46 5250.82	3 ø 16.0 4 ø 10.0 4 ø 10.0		-949.37 -10119.42 -10241.30 -9015.38 -0.04	4 ø 10.0 4 ø 12.5 3 ø 16.0 4 ø 12.5 4 ø 10.0		
V232	7003.69 5255.44 6969.15	3 ø 12.5 4 ø 10.0 3 ø 12.5		-1705.39 -11215.66 -12941.61 -3906.39	4 ø 10.0 3 ø 16.0 6 ø 12.5 4 ø 10.0		Aviso 38
V233	40.24	5 ø 10.0		-890.63 -105.23	5 ø 10.0 5 ø 10.0		
V234	7877.20 2527.18 2842.41 5686.99 1211.91 3039.05 6470.00 802.32	2 ø 16.0 4 ø 10.0 4 ø 10.0 4 ø 10.0 4 ø 10.0 4 ø 10.0 3 ø 12.5 4 ø 10.0		-4443.45 -5550.89 -10081.26 -9397.21 -5909.39 -6202.68 -11323.70 -3278.54	4 ø 10.0 4 ø 10.0 4 ø 12.5 4 ø 12.5 4 ø 10.0 4 ø 10.0 3 ø 16.0 4 ø 10.0		Aviso 02
V235	450.52 5577.34 2816.72 834.41 7186.24	4 ø 10.0 4 ø 10.0 4 ø 10.0 4 ø 10.0 3 ø 12.5		-4609.91 -9393.18 -6892.56 -5297.93 -3945.22	4 ø 10.0 4 ø 12.5 3 ø 12.5 4 ø 10.0 4 ø 10.0		Aviso 02
V236	90.75	5 ø 10.0		-433.62 -9.46	5 ø 10.0 5 ø 10.0		
V237	0.28	5 ø 10.0	5 ø 10.0	-30.35 -715.42	5 ø 10.0 5 ø 10.0	5 ø 10.0 5 ø 10.0	Aviso 38
V238	763.56 544.60 643.52 524.28 461.67	2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0	2 ø 10.0	-463.91 -1029.84 -512.87 -751.34 -343.54 -715.04 -349.34 -742.14 -468.08 -478.30	2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0	2 ø 10.0 2 ø 10.0 2 ø 10.0	Avisos 13, 48
V239	4566.74 3045.99 3236.40 2819.44 5317.69	3 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 12.5		-4018.21 -6917.83 -6306.89 -5898.89 -7900.48 -1579.67	3 ø 10.0 4 ø 10.0 4 ø 10.0 2 ø 12.5 3 ø 12.5 2 ø 10.0		
V240	5000.51 2873.21 4419.10	2 ø 12.5 2 ø 10.0 3 ø 10.0		-1840.36 -7262.46 -6779.48 -3413.62	2 ø 10.0 4 ø 10.0 4 ø 10.0 2 ø 10.0		
V241	508.46 550.01 690.60	2 ø 10.0 2 ø 10.0 2 ø 10.0	2 ø 10.0	-591.42 -804.30 -534.31 -761.55 -305.76 -274.80	2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0	2 ø 10.0 2 ø 10.0 2 ø 10.0	Avisos 13, 48
V242	0.11	5 ø 10.0	5 ø 10.0	-813.02 -40.12	5 ø 10.0 5 ø 10.0	5 ø 10.0 5 ø 10.0	Aviso 38
V243	0.11 1015.60 654.79 462.19 807.01	2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0	2 ø 10.0	-795.00 -1134.11 -127.40 -605.77 -1205.82	2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0		Avisos 26, 02, 13, 06, 08, 48

	967.40 0.11	2 ø 10.0 2 ø 10.0		-586.94 -673.12 -853.22 -971.94 -933.22 -321.94 -505.79 -941.03 -200.58 -1094.05 -687.49	2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0	2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0	
V244	7148.09 0.11 6637.71	4 ø 10.0 2 ø 10.0 4 ø 10.0		-8023.50 -10185.24 -9271.29 -7811.06	3 ø 12.5 4 ø 12.5 2 ø 16.0 3 ø 12.5		
V245	6757.55 0.11 6813.57	4 ø 10.0 2 ø 10.0 4 ø 10.0		-7368.46 -9948.41 -9329.90 -8026.96	3 ø 12.5 4 ø 12.5 2 ø 16.0 3 ø 12.5		
V246	483.25	2 ø 10.0	2 ø 10.0	-319.05 -183.41 -196.50 -349.18	2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0	2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0	Avisos 13, 08, 48
V247	8.65	5 ø 10.0		-241.90 -596.35	5 ø 10.0 5 ø 10.0		Avisos 02, 13, 38, 101
V248	11672.33 5938.50 0.11 60.39	2 ø 20.0 4 ø 10.0 3 ø 10.0 3 ø 10.0		-14251.43 -11637.12 -7903.69 -11034.84 -2026.82 -71.88	4 ø 16.0 2 ø 20.0 2 ø 16.0 3 ø 16.0 3 ø 12.5 3 ø 10.0		Avisos 04, 38
V249	62.52 0.11 5233.11 0.11 2507.05 2616.78	2 ø 10.0 2 ø 10.0 4 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0		-69.88 -1655.73 -9931.87 -8645.51 -867.39 -6357.83 -3997.20	2 ø 10.0 4 ø 10.0 3 ø 16.0 4 ø 12.5 2 ø 10.0 3 ø 12.5 3 ø 10.0		Avisos 02, 04, 38
V250	15.16	5 ø 10.0	5 ø 10.0	-748.82 -236.58	5 ø 10.0 5 ø 10.0	5 ø 10.0 5 ø 10.0	Avisos 02, 13, 08, 38
V251	822.32	2 ø 10.0		-1015.19	2 ø 10.0		Aviso 08
V252	2895.95	2 ø 12.5		-0.04 -0.04	2 ø 12.5 2 ø 12.5		Avisos 26, 04, 12, 48
V253	867.25	2 ø 10.0		-953.27	2 ø 10.0		Aviso 08
V254	4608.63	3 ø 10.0		-2911.90 -4298.09	3 ø 10.0 3 ø 10.0		
V255	3499.46	3 ø 10.0		-3247.67 -3186.18	2 ø 10.0 2 ø 10.0		
V256	102.88	5 ø 10.0		-95.74 -442.20	5 ø 10.0 5 ø 10.0		Avisos 38, 101
V257	10659.63 470.96	3 ø 16.0 3 ø 10.0		-12804.51 -16250.92 -401.03	6 ø 12.5 3 ø 20.0 3 ø 10.0		Aviso 38
V258	311.06 1969.54 2854.47	2 ø 10.0 2 ø 10.0 2 ø 10.0		-624.28 -2736.90 -5487.72 -4145.68	2 ø 10.0 2 ø 10.0 4 ø 10.0 2 ø 12.5		Aviso 38
V259	119.38	5 ø 10.0		-640.21 -82.39	5 ø 10.0 5 ø 10.0		Avisos 08, 38
V260	112.78	5 ø 10.0		-108.78	5 ø 10.0		Avisos 38, 101

				-498.88	5 ø 10.0		
V261	14326.68 0.11 1198.48	4 ø 16.0 4 ø 10.0 4 ø 10.0		-16169.76 -11317.75 -29366.18	4 ø 16.0 3 ø 16.0 5 ø 20.0		Aviso 38
V262	1063.21 0.11 12964.62	4 ø 10.0 4 ø 10.0 6 ø 12.5		-30581.84 -10098.50 -15730.50	8 ø 16.0 4 ø 12.5 4 ø 16.0		Aviso 38
V263	80.34	5 ø 10.0		-606.32 -149.18	5 ø 10.0 5 ø 10.0		Aviso 38
V264	85.92	5 ø 10.0		-105.05 -472.98	5 ø 10.0 5 ø 10.0		Avisos 38, 101
V265	13930.21 0.11 7226.81	4 ø 16.0 4 ø 10.0 3 ø 12.5		-15823.17 -18228.20 -17021.89	4 ø 16.0 3 ø 20.0 3 ø 20.0		Avisos 38, 106
V266	6991.31 2516.08 5057.95	3 ø 12.5 4 ø 10.0 4 ø 10.0		-16715.29 -618.09 -7692.20 -4990.20	3 ø 20.0 4 ø 10.0 2 ø 16.0 4 ø 10.0		Avisos 38, 106
V267	103.88	5 ø 10.0		-445.10 -87.07	5 ø 10.0 5 ø 10.0		Aviso 38
V268	55.68	3 ø 10.0	3 ø 10.0	-77.68 -194.30	3 ø 10.0 3 ø 10.0	3 ø 10.0 3 ø 10.0	Avisos 02, 13, 08, 38
V269	79.78	3 ø 10.0	3 ø 10.0	-102.92 -220.95	3 ø 10.0 3 ø 10.0	3 ø 10.0 3 ø 10.0	Avisos 02, 13, 08, 38
V270	7053.44 2992.53 957.75	4 ø 10.0 3 ø 10.0 3 ø 10.0		-9847.85 -1671.32 -6074.86 -5032.57 -981.02	2 ø 16.0 3 ø 10.0 2 ø 12.5 2 ø 12.5 3 ø 10.0		Avisos 08, 38
V271	7252.57 1273.22 570.01	4 ø 10.0 3 ø 10.0 3 ø 10.0		-10117.25 -842.84 -8093.43 -1965.79 -667.00	4 ø 12.5 3 ø 10.0 3 ø 12.5 3 ø 10.0 3 ø 10.0		Avisos 08, 38
V272	0.11	4 ø 16.0		-10070.35 -8320.65 -16143.58	4 ø 16.0 4 ø 16.0 4 ø 16.0		Avisos 26, 04, 48
V273	12.34 6938.70 7207.28	3 ø 10.0 4 ø 10.0 4 ø 10.0		-3.57 -3463.61 -10714.76 -3284.75 -8888.98	3 ø 10.0 3 ø 12.5 4 ø 12.5 3 ø 10.0 2 ø 16.0		Avisos 02, 08, 38
V274	2177.94 3239.10 915.31	3 ø 10.0 3 ø 10.0 3 ø 10.0		-3057.59 -5307.09 -4899.88 -1878.40	3 ø 10.0 2 ø 12.5 3 ø 10.0 3 ø 10.0		Aviso 38
V275	74.43	3 ø 10.0	3 ø 10.0	-239.99 -109.73	3 ø 10.0 3 ø 10.0	3 ø 10.0 3 ø 10.0	Avisos 02, 13, 38
V276	52.46	3 ø 10.0	3 ø 10.0	-201.78 -81.94	3 ø 10.0 3 ø 10.0	3 ø 10.0 3 ø 10.0	Avisos 02, 13, 08, 38
V277	54.39	5 ø 10.0		-194.60 -501.37	5 ø 10.0 5 ø 10.0		Avisos 02, 13, 38, 101
V278	10588.65 0.11 12290.97 0.11	3 ø 16.0 3 ø 10.0 5 ø 12.5 3 ø 10.0		-15362.40 -15563.41 -18473.89 -8576.83 -245.73	4 ø 16.0 4 ø 16.0 5 ø 16.0 4 ø 12.5 3 ø 10.0		Avisos 04, 38, 101
V279	43.79 11567.95 0.11	3 ø 10.0 2 ø 20.0 3 ø 10.0		-187.22 -10333.49 -17954.27	3 ø 10.0 3 ø 16.0 3 ø 20.0		Avisos 02, 04, 38

	10409.43	3 ø 16.0		-16308.40 -14897.62	3 ø 20.0 4 ø 16.0		
V280	57.94	5 ø 10.0		-493.52 -189.74	5 ø 10.0 5 ø 10.0		Avisos 02, 13, 38, 101
V281	55.95	5 ø 10.0		-114.57 -461.39	5 ø 10.0 5 ø 10.0		Avisos 38, 101
V282	11351.89 0.11 12662.11 0.11	3 ø 16.0 3 ø 10.0 6 ø 12.5 3 ø 10.0		-16712.69 -9576.11 -15987.60 -8934.74 -202.55	3 ø 20.0 4 ø 12.5 3 ø 20.0 4 ø 12.5 3 ø 10.0		Avisos 38, 101
V283	19.19 11455.40 0.11 11203.07	3 ø 10.0 2 ø 20.0 3 ø 10.0 3 ø 16.0		-154.44 -10534.25 -17899.16 -10321.60 -16306.32	3 ø 10.0 3 ø 16.0 3 ø 20.0 3 ø 16.0 3 ø 20.0		Avisos 02, 38
V284	55.38	5 ø 10.0		-460.35 -115.83	5 ø 10.0 5 ø 10.0		Aviso 38
V285	329.01	2 ø 10.0	2 ø 10.0	-396.34 -311.66 -292.55 -351.21	2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0	2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0	Avisos 13, 08, 48
V286	0.11 969.19 194.39 740.60 412.87 736.95 208.68 968.39 0.11	2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0		-624.91 -1041.87 -195.24 -718.97 -433.87 -754.60 -572.92 -666.78 -823.45 -825.07 -670.58 -571.64 -767.35 -439.66 -712.51 -193.95 -1060.91 -636.79	2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0		Avisos 26, 02, 13, 06, 08, 48
V287	7127.65 0.11 6837.63	4 ø 10.0 2 ø 10.0 4 ø 10.0		-8037.93 -9930.55 -9392.29 -7962.69	3 ø 12.5 4 ø 12.5 2 ø 16.0 3 ø 12.5		
V288	6726.60 0.11 7180.25	4 ø 10.0 2 ø 10.0 4 ø 10.0		-8242.69 -9156.55 -10097.51 -7685.81	3 ø 12.5 2 ø 16.0 4 ø 12.5 3 ø 12.5		
V289	506.72 0.11 3055.53	2 ø 12.5 2 ø 12.5 2 ø 12.5		-408.51 -9358.83 -3216.90	2 ø 12.5 4 ø 10.0 2 ø 12.5		Avisos 48, 101
V290	37899.72	3 ø 20.0		-32293.60 -14005.93	4 ø 16.0 3 ø 12.5		Avisos 26, 48
V291	2704.83 0.11	2 ø 12.5 2 ø 12.5		-13017.16 -2835.39	2 ø 16.0 2 ø 12.5		Avisos 48, 101
V292	20223.17	4 ø 12.5		-4108.64 -1518.25 -1906.96	3 ø 12.5 3 ø 12.5 3 ø 12.5		Avisos 26, 08, 48
V293	0.11 2791.86	2 ø 12.5 2 ø 12.5		-3999.30 -12991.34	2 ø 12.5 2 ø 16.0		Avisos 48, 101

V294	7623.45 9108.15	3 ø 12.5 2 ø 16.0	2 ø 10.0 2 ø 10.0	-9376.25 -298.08 -10100.93	4 ø 12.5 4 ø 12.5 4 ø 12.5	2 ø 10.0 2 ø 10.0 2 ø 10.0	Avisos 26, 03
V295	11744.21	3 ø 16.0	4 ø 10.0	-10678.59 -11295.17	3 ø 16.0 3 ø 16.0	4 ø 10.0 4 ø 10.0	Avisos 26, 03
V296	38075.74	3 ø 20.0		-13478.78 -33374.48	3 ø 12.5 4 ø 16.0		Avisos 26, 48
V297	17224.06	2 ø 16.0		-377.45 -1483.57 -3952.96	3 ø 12.5 3 ø 12.5 3 ø 12.5		Avisos 26, 08, 48
V298	1684.09 2292.54	3 ø 12.5 3 ø 12.5		-20925.63 -4394.69	4 ø 12.5 3 ø 12.5		Avisos 26, 48

17. Cálculos das Lajes

SUPERIOR NV-640	fck = 400.00 kgf/cm ²	E = 318758 kgf/cm ²	Peso Espec = 2500.00 kgf/m ³
Lance 3		cobr = 2.50 cm	

ARMADURAS POSITIVAS (LAJE)								
Laje	Direção	Momento positivo	Flexão	Momento negativo	Flexão	Armadura inferior	Armadura superior	Cisalhamento
		Seção		Seção				
L201	X	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 313 kgf.m/m As = 0.59 cm ² /m A's = 0.00 cm ² /m	As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 4.21 kgf.m/m F = 0.00 tf fiss = 0.00 mm		vsd = 1.27 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 1801 kgf.m/m As = 3.82 cm ² /m A's = 0.00 cm ² /m	As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 566.95 kgf.m/m F = 0.00 tf fiss = 0.05 mm		vsd = 8.75 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L202	X	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 186 kgf.m/m As = 0.35 cm ² /m A's = 0.00 cm ² /m	As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 79.33 kgf.m/m F = 0.00 tf fiss = 0.00 mm		vsd = 1.72 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 593 kgf.m/m As = 1.21 cm ² /m A's = 0.00 cm ² /m	As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 375.02 kgf.m/m F = 0.00 tf fiss = 0.02 mm	A's = 2.41 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 422.07 kgf.m/m F = 0.00 tf fiss = 0.06 mm	vsd = 4.20 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L203	X	bw = 100.0 cm h = 15.0 cm	Md = 952 kgf.m/m As = 1.83 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 1730 kgf.m/m As = 3.40 cm ² /m	As = 1.83 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 666.14 kgf.m/m F = 0.00 tf		vsd = 2.75 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m

					A's = 0.00 cm ² /m	fiss = 0.06 mm		
	Y	bw = 100.0 cm h = 15.0 cm	Md = 1308 kgf.m/m As = 2.72 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 3537 kgf.m/m As = 7.84 cm ² /m A's = 0.00 cm ² /m	As = 2.72 cm ² /m ø8.0 c/18 (2.79 cm ² /m) M = 908.00 kgf.m/m F = 0.00 tf fiss = 0.11 mm		vsd = 4.58 tf/m vrd1 = 9.57 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L204	X	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 819 kgf.m/m As = 1.56 cm ² /m A's = 0.00 cm ² /m	As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 314.99 kgf.m/m F = 0.00 tf fiss = 0.01 mm	A's = 2.25 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 563.44 kgf.m/m F = 0.00 tf fiss = 0.08 mm	vsd = 1.55 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 1059 kgf.m/m As = 2.19 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 3200 kgf.m/m As = 7.05 cm ² /m A's = 0.00 cm ² /m	As = 2.19 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 736.05 kgf.m/m F = 0.00 tf fiss = 0.09 mm		vsd = 3.98 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L205	X	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm		As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 59.91 kgf.m/m F = 0.00 tf fiss = 0.00 mm	A's = 2.25 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 0.52 kgf.m/m F = 0.00 tf fiss = 0.00 mm	vsd = 1.86 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 691 kgf.m/m As = 1.41 cm ² /m A's = 0.00 cm ² /m	As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 210.58 kgf.m/m F = 0.00 tf fiss = 0.01 mm	A's = 2.41 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 497.36 kgf.m/m F = 0.00 tf fiss = 0.08 mm	vsd = 3.97 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L206	X	bw = 100.0 cm h = 15.0 cm	Md = 981 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 3187 kgf.m/m As = 6.49 cm ² /m A's = 0.00 cm ² /m	As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 681.07 kgf.m/m F = 0.00 tf fiss = 0.06 mm	A's = 1.93 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 2223.19 kgf.m/m F = 0.00 tf fiss = 0.16 mm	vsd = 4.36 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 991 kgf.m/m As = 2.05 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 4295 kgf.m/m As = 9.86 cm ² /m A's = 0.00 cm ² /m	As = 2.05 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 697.89 kgf.m/m F = 0.00 tf fiss = 0.08 mm		vsd = 8.10 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L207	X	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 155 kgf.m/m As = 0.29 cm ² /m A's = 0.00 cm ² /m	As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 62.97 kgf.m/m F = 0.00 tf fiss = 0.00 mm		vsd = 1.38 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm	Md = 917 kgf.m/m	bw = 100.0 cm	Md = 973 kgf.m/m	As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m)	A's = 2.41 cm ² /m ø8.0 c/20 (2.51 cm ² /m)	vsd = 3.93 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m

		h = 15.0 cm	As = 1.89 cm ² /m A's = 0.00 cm ² /m	h = 15.0 cm	As = 2.01 cm ² /m A's = 0.00 cm ² /m	M = 226.48 kgf.m/m F = 0.00 tf fiss = 0.01 mm	M = 703.94 kgf.m/m F = 0.00 tf fiss = 0.08 mm	vsw = 0.00 tf/m asw = 0.00 cm ² /m
L208	X	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 160 kgf.m/m As = 0.30 cm ² /m A's = 0.00 cm ² /m	As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 25.63 kgf.m/m F = 0.00 tf fiss = 0.00 mm		vsd = 1.23 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 913 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 167.74 kgf.m/m F = 0.00 tf fiss = 0.00 mm		vsd = 3.59 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L209	X	bw = 100.0 cm h = 15.0 cm	Md = 959 kgf.m/m As = 1.85 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 3357 kgf.m/m As = 6.86 cm ² /m A's = 0.00 cm ² /m	As = 1.85 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 666.47 kgf.m/m F = 0.00 tf fiss = 0.06 mm		vsd = 3.70 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 982 kgf.m/m As = 2.03 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 2363 kgf.m/m As = 5.06 cm ² /m A's = 0.00 cm ² /m	As = 2.03 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 692.54 kgf.m/m F = 0.00 tf fiss = 0.08 mm		vsd = 3.77 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L210	X	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 180 kgf.m/m As = 0.34 cm ² /m A's = 0.00 cm ² /m	As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 11.29 kgf.m/m F = 0.00 tf fiss = 0.00 mm		vsd = 1.07 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 1043 kgf.m/m As = 2.16 cm ² /m A's = 0.00 cm ² /m	As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 368.92 kgf.m/m F = 0.00 tf fiss = 0.02 mm	A's = 2.41 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 757.65 kgf.m/m F = 0.00 tf fiss = 0.09 mm	vsd = 3.63 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L211	X	bw = 100.0 cm h = 15.0 cm	Md = 1516 kgf.m/m As = 2.95 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 3338 kgf.m/m As = 6.82 cm ² /m A's = 0.00 cm ² /m	As = 2.95 cm ² /m ø8.0 c/17 (2.96 cm ² /m) M = 1054.90 kgf.m/m F = 0.00 tf fiss = 0.11 mm	A's = 2.25 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 2328.57 kgf.m/m F = 0.00 tf fiss = 0.18 mm	vsd = 3.84 tf/m vrd1 = 10.19 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 1835 kgf.m/m As = 3.89 cm ² /m A's = 0.00 cm ² /m	As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 452.43 kgf.m/m F = 0.00 tf fiss = 0.03 mm		vsd = 2.92 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m

L212	X	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 188 kgf.m/m As = 0.36 cm ² /m A's = 0.00 cm ² /m	As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 39.48 kgf.m/m F = 0.00 tf fiss = 0.00 mm		vsd = 1.46 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 940 kgf.m/m As = 1.94 cm ² /m A's = 0.00 cm ² /m	As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 399.69 kgf.m/m F = 0.00 tf fiss = 0.03 mm	A's = 2.41 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 679.27 kgf.m/m F = 0.00 tf fiss = 0.07 mm	vsd = 3.73 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L213	X	bw = 100.0 cm h = 15.0 cm	Md = 1225 kgf.m/m As = 2.37 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 1510 kgf.m/m As = 2.93 cm ² /m A's = 0.00 cm ² /m	As = 2.37 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 850.47 kgf.m/m F = 0.00 tf fiss = 0.10 mm	A's = 2.25 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 1057.99 kgf.m/m F = 0.00 tf fiss = 0.11 mm	vsd = 4.27 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 1419 kgf.m/m As = 2.96 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 2712 kgf.m/m As = 5.92 cm ² /m A's = 0.00 cm ² /m	As = 2.96 cm ² /m ø8.0 c/17 (2.96 cm ² /m) M = 992.10 kgf.m/m F = 0.00 tf fiss = 0.11 mm		vsd = 4.50 tf/m vrd1 = 9.62 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L214	X	bw = 100.0 cm h = 15.0 cm	Md = 1478 kgf.m/m As = 2.87 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 3143 kgf.m/m As = 6.40 cm ² /m A's = 0.00 cm ² /m	As = 2.87 cm ² /m ø8.0 c/17 (2.96 cm ² /m) M = 1034.15 kgf.m/m F = 0.00 tf fiss = 0.11 mm		vsd = 4.92 tf/m vrd1 = 10.19 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 1533 kgf.m/m As = 3.23 cm ² /m A's = 0.00 cm ² /m	As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 444.19 kgf.m/m F = 0.00 tf fiss = 0.03 mm		vsd = 4.19 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L215	X	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 162 kgf.m/m As = 0.31 cm ² /m A's = 0.00 cm ² /m	As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 17.56 kgf.m/m F = 0.00 tf fiss = 0.00 mm		vsd = 1.58 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 760 kgf.m/m As = 1.56 cm ² /m A's = 0.00 cm ² /m	As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 156.39 kgf.m/m F = 0.00 tf fiss = 0.00 mm		vsd = 3.70 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L216	X	bw = 100.0 cm h = 15.0 cm	Md = 1456 kgf.m/m As = 2.83 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 3428 kgf.m/m As = 7.01 cm ² /m	As = 2.83 cm ² /m ø8.0 c/17 (2.96 cm ² /m) M = 1018.27 kgf.m/m		vsd = 5.41 tf/m vrd1 = 10.19 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m

					A's = 0.00 cm ² /m	F = 0.00 tf físs = 0.10 mm		asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 1097 kgf.m/m As = 2.27 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 1537 kgf.m/m As = 3.24 cm ² /m A's = 0.00 cm ² /m	As = 2.27 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 760.29 kgf.m/m F = 0.00 tf físs = 0.09 mm		vsd = 4.25 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L217	X	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 179 kgf.m/m As = 0.34 cm ² /m A's = 0.00 cm ² /m	As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 18.51 kgf.m/m F = 0.00 tf físs = 0.00 mm		vsd = 1.50 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 916 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 394.35 kgf.m/m F = 0.00 tf físs = 0.02 mm		vsd = 3.79 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L218	X	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 213 kgf.m/m As = 0.40 cm ² /m A's = 0.00 cm ² /m	As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 2.15 kgf.m/m F = 0.00 tf físs = 0.00 mm		vsd = 0.97 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 1427 kgf.m/m As = 2.98 cm ² /m A's = 0.00 cm ² /m	As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 587.96 kgf.m/m F = 0.00 tf físs = 0.06 mm		vsd = 5.97 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L219	X	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 276 kgf.m/m As = 0.52 cm ² /m A's = 0.00 cm ² /m	As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 5.80 kgf.m/m F = 0.00 tf físs = 0.00 mm		vsd = 1.82 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 1747 kgf.m/m As = 3.70 cm ² /m A's = 0.00 cm ² /m	As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 539.57 kgf.m/m F = 0.00 tf físs = 0.05 mm		vsd = 9.51 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L220	X	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.65 cm ² /m A's = 0.00 cm ² /m	As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 0.00 kgf.m/m F = 0.00 tf físs = 0.00 mm		vsd = 1.57 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm	Md = 917 kgf.m/m	bw = 100.0 cm	Md = 716 kgf.m/m	As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m)		vsd = 1.17 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m

		h = 15.0 cm	As = 1.89 cm ² /m A's = 0.00 cm ² /m	h = 15.0 cm	As = 1.46 cm ² /m A's = 0.00 cm ² /m	M = 385.33 kgf.m/m F = 0.00 tf fiss = 0.02 mm		vsw = 0.00 tf/m asw = 0.00 cm ² /m
L221	X	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 965 kgf.m/m As = 1.86 cm ² /m A's = 0.00 cm ² /m	As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 33.41 kgf.m/m F = 0.00 tf fiss = 0.00 mm		vsd = 1.02 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 753 kgf.m/m As = 1.54 cm ² /m A's = 0.00 cm ² /m	As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 77.94 kgf.m/m F = 0.00 tf fiss = 0.00 mm		vsd = 1.34 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L222	X	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 855 kgf.m/m As = 1.63 cm ² /m A's = 0.00 cm ² /m	As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 0.00 kgf.m/m F = 0.00 tf fiss = 0.00 mm		vsd = 1.46 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm		As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 118.66 kgf.m/m F = 0.00 tf fiss = 0.00 mm		vsd = 1.01 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L223	X	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 1312 kgf.m/m As = 2.54 cm ² /m A's = 0.00 cm ² /m	As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 52.09 kgf.m/m F = 0.00 tf fiss = 0.00 mm		vsd = 6.76 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm		As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 350.10 kgf.m/m F = 0.00 tf fiss = 0.02 mm		vsd = 3.82 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L224	X	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 1047 kgf.m/m As = 2.02 cm ² /m A's = 0.00 cm ² /m	As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 218.37 kgf.m/m F = 0.00 tf fiss = 0.01 mm		vsd = 3.26 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 1411 kgf.m/m As = 2.94 cm ² /m A's = 0.00 cm ² /m	As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 514.28 kgf.m/m F = 0.00 tf fiss = 0.04 mm		vsd = 4.17 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m

L225	X	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 1085 kgf.m/m As = 2.09 cm ² /m A's = 0.00 cm ² /m	As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 45.26 kgf.m/m F = 0.00 tf fiss = 0.00 mm	vsd = 2.86 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 1115 kgf.m/m As = 2.31 cm ² /m A's = 0.00 cm ² /m	As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 152.69 kgf.m/m F = 0.00 tf fiss = 0.00 mm	vsd = 3.58 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L226	X	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 989 kgf.m/m As = 1.91 cm ² /m A's = 0.00 cm ² /m	As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 227.17 kgf.m/m F = 0.00 tf fiss = 0.01 mm	vsd = 3.99 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 1284 kgf.m/m As = 2.67 cm ² /m A's = 0.00 cm ² /m	As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 87.41 kgf.m/m F = 0.00 tf fiss = 0.00 mm	vsd = 3.05 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L227	X	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 958 kgf.m/m As = 1.85 cm ² /m A's = 0.00 cm ² /m	As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 351.84 kgf.m/m F = 0.00 tf fiss = 0.02 mm	vsd = 2.19 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 1830 kgf.m/m As = 3.88 cm ² /m A's = 0.00 cm ² /m	As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 0.00 kgf.m/m F = 0.00 tf fiss = 0.00 mm	vsd = 1.89 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L228	X	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 1730 kgf.m/m As = 3.40 cm ² /m A's = 0.00 cm ² /m	As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 0.00 kgf.m/m F = 0.00 tf fiss = 0.00 mm	vsd = 1.41 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 920 kgf.m/m As = 1.90 cm ² /m A's = 0.00 cm ² /m	As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 201.84 kgf.m/m F = 0.00 tf fiss = 0.01 mm	vsd = 1.97 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L229	X	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 1808 kgf.m/m As = 3.56 cm ² /m	As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 0.00 kgf.m/m F = 0.00 tf	vsd = 1.47 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m

					A's = 0.00 cm ² /m	fiss = 0.00 mm		asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 982 kgf.m/m As = 2.03 cm ² /m A's = 0.00 cm ² /m	As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 369.11 kgf.m/m F = 0.00 tf fiss = 0.02 mm		vsd = 2.20 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L230	X	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 199 kgf.m/m As = 0.38 cm ² /m A's = 0.00 cm ² /m	As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 0.65 kgf.m/m F = 0.00 tf fiss = 0.00 mm		vsd = 0.74 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 1388 kgf.m/m As = 2.89 cm ² /m A's = 0.00 cm ² /m	As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 0.00 kgf.m/m F = 0.00 tf fiss = 0.00 mm		vsd = 5.91 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L231	X	bw = 100.0 cm h = 15.0 cm	Md = 1019 kgf.m/m As = 1.97 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 2046 kgf.m/m As = 4.04 cm ² /m A's = 0.00 cm ² /m	As = 1.97 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 711.75 kgf.m/m F = 0.00 tf fiss = 0.07 mm	A's = 1.92 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 1451.04 kgf.m/m F = 0.00 tf fiss = 0.14 mm	vsd = 4.56 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 1388 kgf.m/m As = 2.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 3566 kgf.m/m As = 7.91 cm ² /m A's = 0.00 cm ² /m	As = 2.89 cm ² /m ø8.0 c/17 (2.96 cm ² /m) M = 964.41 kgf.m/m F = 0.00 tf fiss = 0.11 mm		vsd = 6.97 tf/m vrd1 = 9.62 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L232	X	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 2048 kgf.m/m As = 4.05 cm ² /m A's = 0.00 cm ² /m	As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 90.62 kgf.m/m F = 0.00 tf fiss = 0.00 mm		vsd = 5.04 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 1790 kgf.m/m As = 3.79 cm ² /m A's = 0.00 cm ² /m	As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 515.95 kgf.m/m F = 0.00 tf fiss = 0.04 mm		vsd = 5.42 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L233	X	bw = 100.0 cm h = 10.0 cm	Md = 407 kgf.m/m As = 1.33 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 10.0 cm		As = 1.33 cm ² /m ø6.3 c/20 (1.56 cm ² /m) M = 113.06 kgf.m/m F = 0.00 tf fiss = 0.01 mm		vsd = 0.47 tf/m vrd1 = 6.20 tf/m Modelo II vrd2 = 37.52 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm	Md = 407 kgf.m/m	bw = 100.0 cm	Md = 315 kgf.m/m	As = 1.46 cm ² /m ø6.3 c/20 (1.56 cm ² /m)		vsd = 0.67 tf/m vrd1 = 5.71 tf/m vrd2 = 33.98 tf/m

		h = 10.0 cm	As = 1.46 cm ² /m A's = 0.00 cm ² /m	h = 10.0 cm	As = 1.12 cm ² /m A's = 0.00 cm ² /m	M = 1.05 kgf.m/m F = 0.00 tf fiss = 0.00 mm		vsw = 0.00 tf/m asw = 0.00 cm ² /m
L234	X	bw = 100.0 cm h = 10.0 cm	Md = 407 kgf.m/m As = 1.33 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 10.0 cm	Md = 820 kgf.m/m As = 2.75 cm ² /m A's = 0.00 cm ² /m	As = 1.33 cm ² /m ø6.3 c/20 (1.56 cm ² /m) M = 142.25 kgf.m/m F = 0.00 tf fiss = 0.02 mm		vsd = 1.73 tf/m vrd1 = 6.20 tf/m Modelo II vrd2 = 37.52 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 10.0 cm	Md = 407 kgf.m/m As = 1.46 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 10.0 cm		As = 1.46 cm ² /m ø6.3 c/20 (1.56 cm ² /m) M = 152.80 kgf.m/m F = 0.00 tf fiss = 0.02 mm		vsd = 0.81 tf/m vrd1 = 5.71 tf/m vrd2 = 33.98 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L235	X	bw = 100.0 cm h = 10.0 cm	Md = 407 kgf.m/m As = 1.33 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 10.0 cm	Md = 360 kgf.m/m As = 1.17 cm ² /m A's = 0.00 cm ² /m	As = 1.33 cm ² /m ø6.3 c/20 (1.56 cm ² /m) M = 114.16 kgf.m/m F = 0.00 tf fiss = 0.01 mm		vsd = 1.07 tf/m vrd1 = 6.20 tf/m Modelo II vrd2 = 37.52 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 10.0 cm	Md = 407 kgf.m/m As = 1.46 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 10.0 cm	Md = 585 kgf.m/m As = 2.14 cm ² /m A's = 0.00 cm ² /m	As = 1.46 cm ² /m ø6.3 c/20 (1.56 cm ² /m) M = 112.17 kgf.m/m F = 0.00 tf fiss = 0.01 mm		vsd = 0.89 tf/m vrd1 = 5.71 tf/m vrd2 = 33.98 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L236	X	bw = 100.0 cm h = 10.0 cm	Md = 407 kgf.m/m As = 1.33 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 10.0 cm	Md = 958 kgf.m/m As = 3.29 cm ² /m A's = 0.00 cm ² /m	As = 1.33 cm ² /m ø6.3 c/20 (1.56 cm ² /m) M = 97.21 kgf.m/m F = 0.00 tf fiss = 0.01 mm		vsd = 1.03 tf/m vrd1 = 6.20 tf/m Modelo II vrd2 = 37.52 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 10.0 cm	Md = 407 kgf.m/m As = 1.46 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 10.0 cm	Md = 346 kgf.m/m As = 1.23 cm ² /m A's = 0.00 cm ² /m	As = 1.46 cm ² /m ø6.3 c/20 (1.56 cm ² /m) M = 129.06 kgf.m/m F = 0.00 tf fiss = 0.02 mm		vsd = 0.90 tf/m vrd1 = 5.71 tf/m vrd2 = 33.98 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L237	X	bw = 100.0 cm h = 10.0 cm	Md = 407 kgf.m/m As = 1.33 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 10.0 cm	Md = 371 kgf.m/m As = 1.21 cm ² /m A's = 0.00 cm ² /m	As = 1.33 cm ² /m ø6.3 c/20 (1.56 cm ² /m) M = 73.92 kgf.m/m F = 0.00 tf fiss = 0.00 mm		vsd = 1.09 tf/m vrd1 = 6.20 tf/m Modelo II vrd2 = 37.52 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 10.0 cm	Md = 407 kgf.m/m As = 1.46 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 10.0 cm	Md = 300 kgf.m/m As = 1.07 cm ² /m A's = 0.00 cm ² /m	As = 1.46 cm ² /m ø6.3 c/20 (1.56 cm ² /m) M = 132.45 kgf.m/m F = 0.00 tf fiss = 0.02 mm		vsd = 1.36 tf/m vrd1 = 5.71 tf/m vrd2 = 33.98 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m

L238	X	bw = 100.0 cm h = 10.0 cm	Md = 407 kgf.m/m As = 1.33 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 10.0 cm		As = 1.33 cm ² /m ø6.3 c/20 (1.56 cm ² /m) M = 66.74 kgf.m/m F = 0.00 tf fiss = 0.00 mm		vsd = 0.63 tf/m vrd1 = 6.20 tf/m Modelo II vrd2 = 37.52 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 10.0 cm	Md = 407 kgf.m/m As = 1.46 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 10.0 cm	Md = 317 kgf.m/m As = 1.13 cm ² /m A's = 0.00 cm ² /m	As = 1.46 cm ² /m ø6.3 c/20 (1.56 cm ² /m) M = 119.16 kgf.m/m F = 0.00 tf fiss = 0.01 mm		vsd = 1.07 tf/m vrd1 = 5.71 tf/m vrd2 = 33.98 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L239	X	bw = 100.0 cm h = 10.0 cm	Md = 407 kgf.m/m As = 1.33 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 10.0 cm	Md = 402 kgf.m/m As = 1.31 cm ² /m A's = 0.00 cm ² /m	As = 1.33 cm ² /m ø6.3 c/20 (1.56 cm ² /m) M = 115.56 kgf.m/m F = 0.00 tf fiss = 0.01 mm		vsd = 1.00 tf/m vrd1 = 6.20 tf/m Modelo II vrd2 = 37.52 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 10.0 cm	Md = 407 kgf.m/m As = 1.46 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 10.0 cm		As = 1.46 cm ² /m ø6.3 c/20 (1.56 cm ² /m) M = 123.79 kgf.m/m F = 0.00 tf fiss = 0.01 mm		vsd = 1.36 tf/m vrd1 = 5.71 tf/m vrd2 = 33.98 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L240	X	bw = 100.0 cm h = 15.0 cm	Md = 1255 kgf.m/m As = 2.43 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 1464 kgf.m/m As = 2.84 cm ² /m A's = 0.00 cm ² /m	As = 2.43 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 871.40 kgf.m/m F = 0.00 tf fiss = 0.11 mm		vsd = 4.93 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 1550 kgf.m/m As = 3.27 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 1882 kgf.m/m As = 3.99 cm ² /m A's = 0.00 cm ² /m	As = 3.27 cm ² /m ø10.0 c/20 (3.93 cm ² /m) M = 1085.13 kgf.m/m F = 0.00 tf fiss = 0.10 mm		vsd = 3.28 tf/m vrd1 = 9.80 tf/m vrd2 = 60.05 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L241	X	bw = 100.0 cm h = 15.0 cm	Md = 1624 kgf.m/m As = 3.19 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 2014 kgf.m/m As = 3.98 cm ² /m A's = 0.00 cm ² /m	As = 3.19 cm ² /m ø10.0 c/20 (3.93 cm ² /m) M = 1135.56 kgf.m/m F = 0.00 tf fiss = 0.10 mm		vsd = 3.07 tf/m vrd1 = 10.37 tf/m Modelo II vrd2 = 64.54 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.93 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 1436 kgf.m/m As = 3.05 cm ² /m A's = 0.00 cm ² /m	As = 1.93 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 423.48 kgf.m/m F = 0.00 tf fiss = 0.03 mm		vsd = 4.72 tf/m vrd1 = 9.36 tf/m vrd2 = 59.49 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L242	X	bw = 100.0 cm h = 15.0 cm	Md = 1539 kgf.m/m As = 2.99 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 2143 kgf.m/m As = 4.24 cm ² /m	As = 2.99 cm ² /m ø8.0 c/16 (3.14 cm ² /m) M = 1079.15 kgf.m/m		vsd = 5.08 tf/m vrd1 = 10.23 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m

					A's = 0.00 cm ² /m	F = 0.00 tf físs = 0.10 mm		asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 1141 kgf.m/m As = 2.37 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 1478 kgf.m/m As = 3.08 cm ² /m A's = 0.00 cm ² /m	As = 2.37 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 790.90 kgf.m/m F = 0.00 tf físs = 0.10 mm		vsd = 4.88 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L243	X	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 171 kgf.m/m As = 0.32 cm ² /m A's = 0.00 cm ² /m	As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 5.80 kgf.m/m F = 0.00 tf físs = 0.00 mm		vsd = 0.78 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 1156 kgf.m/m As = 2.40 cm ² /m A's = 0.00 cm ² /m	As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 556.08 kgf.m/m F = 0.00 tf físs = 0.05 mm		vsd = 4.44 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L244	X	bw = 100.0 cm h = 10.0 cm	Md = 407 kgf.m/m As = 1.33 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 10.0 cm	Md = 352 kgf.m/m As = 1.14 cm ² /m A's = 0.00 cm ² /m	As = 1.33 cm ² /m ø6.3 c/20 (1.56 cm ² /m) M = 84.71 kgf.m/m F = 0.00 tf físs = 0.01 mm		vsd = 0.93 tf/m vrd1 = 6.20 tf/m Modelo II vrd2 = 37.52 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 10.0 cm	Md = 407 kgf.m/m As = 1.46 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 10.0 cm		As = 1.46 cm ² /m ø6.3 c/20 (1.56 cm ² /m) M = 19.83 kgf.m/m F = 0.00 tf físs = 0.00 mm		vsd = 0.34 tf/m vrd1 = 5.71 tf/m vrd2 = 33.98 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L245	X	bw = 100.0 cm h = 10.0 cm	Md = 407 kgf.m/m As = 1.33 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 10.0 cm	Md = 471 kgf.m/m As = 1.54 cm ² /m A's = 0.00 cm ² /m	As = 1.33 cm ² /m ø6.3 c/20 (1.56 cm ² /m) M = 89.42 kgf.m/m F = 0.00 tf físs = 0.01 mm		vsd = 1.28 tf/m vrd1 = 6.20 tf/m Modelo II vrd2 = 37.52 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 10.0 cm	Md = 407 kgf.m/m As = 1.46 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 10.0 cm	Md = 461 kgf.m/m As = 1.66 cm ² /m A's = 0.00 cm ² /m	As = 1.46 cm ² /m ø6.3 c/20 (1.56 cm ² /m) M = 44.60 kgf.m/m F = 0.00 tf físs = 0.00 mm		vsd = 1.99 tf/m vrd1 = 5.71 tf/m vrd2 = 33.98 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L246	X	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 1127 kgf.m/m As = 2.18 cm ² /m A's = 0.00 cm ² /m	As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 304.24 kgf.m/m F = 0.00 tf físs = 0.01 mm		vsd = 5.57 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm	Md = 917 kgf.m/m	bw = 100.0 cm	Md = 1386 kgf.m/m	As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m)		vsd = 5.59 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m

		h = 15.0 cm	As = 1.89 cm ² /m A's = 0.00 cm ² /m	h = 15.0 cm	As = 2.89 cm ² /m A's = 0.00 cm ² /m	M = 0.00 kgf.m/m F = 0.00 tf fiss = 0.00 mm		vsw = 0.00 tf/m asw = 0.00 cm ² /m
L247	X	bw = 100.0 cm h = 10.0 cm	Md = 407 kgf.m/m As = 1.33 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 10.0 cm	Md = 862 kgf.m/m As = 2.90 cm ² /m A's = 0.00 cm ² /m	As = 1.33 cm ² /m ø6.3 c/20 (1.56 cm ² /m) M = 120.54 kgf.m/m F = 0.00 tf fiss = 0.01 mm		vsd = 1.73 tf/m vrd1 = 6.20 tf/m Modelo II vrd2 = 37.52 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 10.0 cm	Md = 407 kgf.m/m As = 1.46 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 10.0 cm	Md = 330 kgf.m/m As = 1.18 cm ² /m A's = 0.00 cm ² /m	As = 1.46 cm ² /m ø6.3 c/20 (1.56 cm ² /m) M = 25.51 kgf.m/m F = 0.00 tf fiss = 0.00 mm		vsd = 0.68 tf/m vrd1 = 5.71 tf/m vrd2 = 33.98 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L248	X	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 350 kgf.m/m As = 0.66 cm ² /m A's = 0.00 cm ² /m	As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 638.60 kgf.m/m F = 0.00 tf fiss = 0.06 mm	A's = 2.25 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 254.01 kgf.m/m F = 0.00 tf fiss = 0.02 mm	vsd = 4.10 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 2406 kgf.m/m As = 5.22 cm ² /m A's = 0.00 cm ² /m	As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 0.00 kgf.m/m F = 0.00 tf fiss = 0.00 mm		vsd = 8.00 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L249	X	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm		As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 7.52 kgf.m/m F = 0.00 tf fiss = 0.00 mm		vsd = 0.58 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm		As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 378.87 kgf.m/m F = 0.00 tf fiss = 0.02 mm		vsd = 5.56 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L250	X	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm		As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 0.00 kgf.m/m F = 0.00 tf fiss = 0.00 mm		vsd = 1.67 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 954 kgf.m/m As = 1.97 cm ² /m A's = 0.00 cm ² /m	As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 68.01 kgf.m/m F = 0.00 tf fiss = 0.00 mm		vsd = 7.47 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L251	X	bw = 100.0 cm	Md = 407 kgf.m/m	bw = 100.0 cm	Md = 1170 kgf.m/m	As = 1.33 cm ² /m ø6.3 c/20 (1.56 cm ² /m)		vsd = 4.64 tf/m vrd1 = 6.20 tf/m Modelo II

		h = 10.0 cm	As = 1.33 cm ² /m A's = 0.00 cm ² /m	h = 10.0 cm	As = 4.05 cm ² /m A's = 0.00 cm ² /m	M = 159.87 kgf.m/m F = 0.00 tf fiss = 0.02 mm		vr2 = 37.52 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 10.0 cm	Md = 407 kgf.m/m As = 1.46 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 10.0 cm	Md = 327 kgf.m/m As = 1.17 cm ² /m A's = 0.00 cm ² /m	As = 1.46 cm ² /m ø6.3 c/20 (1.56 cm ² /m) M = 254.26 kgf.m/m F = 0.00 tf fiss = 0.06 mm		vsd = 3.35 tf/m vr1 = 5.71 tf/m vr2 = 33.98 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L252	X	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 1371 kgf.m/m As = 2.66 cm ² /m A's = 0.00 cm ² /m	As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 115.03 kgf.m/m F = 0.00 tf fiss = 0.00 mm	A's = 2.66 cm ² /m ø8.0 c/18 (2.79 cm ² /m) M = 993.25 kgf.m/m F = 0.00 tf fiss = 0.11 mm	vsd = 2.34 tf/m vr1 = 10.07 tf/m Modelo II vr2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 1947 kgf.m/m As = 4.14 cm ² /m A's = 0.00 cm ² /m	As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 467.13 kgf.m/m F = 0.00 tf fiss = 0.03 mm		vsd = 6.02 tf/m vr1 = 9.50 tf/m vr2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L253	X	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm		As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 7.26 kgf.m/m F = 0.00 tf fiss = 0.00 mm		vsd = 1.85 tf/m vr1 = 10.07 tf/m Modelo II vr2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm		As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 275.29 kgf.m/m F = 0.00 tf fiss = 0.01 mm		vsd = 3.04 tf/m vr1 = 9.50 tf/m vr2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L254	X	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm		As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 4.90 kgf.m/m F = 0.00 tf fiss = 0.00 mm		vsd = 0.65 tf/m vr1 = 10.07 tf/m Modelo II vr2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm		As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 147.48 kgf.m/m F = 0.00 tf fiss = 0.00 mm		vsd = 1.34 tf/m vr1 = 9.50 tf/m vr2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L255	X	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm		As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 5.61 kgf.m/m F = 0.00 tf fiss = 0.00 mm		vsd = 0.88 tf/m vr1 = 10.07 tf/m Modelo II vr2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.89 cm ² /m	bw = 100.0 cm h = 15.0 cm		As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m)		vsd = 7.01 tf/m vr1 = 9.50 tf/m vr2 = 60.61 tf/m vsw = 0.00 tf/m

			A's = 0.00 cm ² /m			M = 438.50 kgf.m/m F = 0.00 tf fiss = 0.03 mm		asw = 0.00 cm ² /m
L256	X	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.65 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 261 kgf.m/m As = 0.49 cm ² /m A's = 0.00 cm ² /m	As = 2.65 cm ² /m ø8.0 c/18 (2.79 cm ² /m) M = 743.97 kgf.m/m F = 0.00 tf fiss = 0.06 mm	A's = 2.25 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 190.51 kgf.m/m F = 0.00 tf fiss = 0.01 mm	vsd = 4.42 tf/m vrd1 = 10.14 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 684 kgf.m/m As = 1.41 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 2118 kgf.m/m As = 4.51 cm ² /m A's = 0.00 cm ² /m	As = 1.41 cm ² /m ø8.0 c/25 (2.01 cm ² /m) M = 0.00 kgf.m/m F = 0.00 tf fiss = 0.00 mm		vsd = 6.90 tf/m vrd1 = 9.37 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L257	X	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 141 kgf.m/m As = 0.27 cm ² /m A's = 0.00 cm ² /m	As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 36.21 kgf.m/m F = 0.00 tf fiss = 0.00 mm		vsd = 2.07 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 1251 kgf.m/m As = 2.60 cm ² /m A's = 0.00 cm ² /m	As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 556.16 kgf.m/m F = 0.00 tf fiss = 0.05 mm	A's = 2.42 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 902.97 kgf.m/m F = 0.00 tf fiss = 0.12 mm	vsd = 4.37 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L258	X	bw = 100.0 cm h = 15.0 cm	Md = 1013 kgf.m/m As = 1.95 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 2041 kgf.m/m As = 4.03 cm ² /m A's = 0.00 cm ² /m	As = 1.95 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 707.51 kgf.m/m F = 0.00 tf fiss = 0.07 mm	A's = 1.91 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 1447.86 kgf.m/m F = 0.00 tf fiss = 0.14 mm	vsd = 4.54 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 1389 kgf.m/m As = 2.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 3747 kgf.m/m As = 8.34 cm ² /m A's = 0.00 cm ² /m	As = 2.89 cm ² /m ø8.0 c/17 (2.96 cm ² /m) M = 965.84 kgf.m/m F = 0.00 tf fiss = 0.11 mm		vsd = 7.40 tf/m vrd1 = 9.62 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L259	X	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm		As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 7.46 kgf.m/m F = 0.00 tf fiss = 0.00 mm		vsd = 0.58 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm		As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 375.84 kgf.m/m F = 0.00 tf fiss = 0.02 mm		vsd = 5.48 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L260	X	bw = 100.0 cm	Md = 917 kgf.m/m	bw = 100.0 cm		As = 1.77 cm ² /m ø8.0 c/20		vsd = 1.54 tf/m vrd1 = 10.07 tf/m

		h = 15.0 cm	As = 1.77 cm ² /m A's = 0.00 cm ² /m	h = 15.0 cm		(2.51 cm ² /m) M = 0.00 kgf.m/m F = 0.00 tf fiss = 0.00 mm		Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 880 kgf.m/m As = 1.82 cm ² /m A's = 0.00 cm ² /m	As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 55.31 kgf.m/m F = 0.00 tf fiss = 0.00 mm		vsd = 6.86 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L261	X	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 1128 kgf.m/m As = 2.18 cm ² /m A's = 0.00 cm ² /m	As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 300.81 kgf.m/m F = 0.00 tf fiss = 0.01 mm		vsd = 4.89 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 1180 kgf.m/m As = 2.45 cm ² /m A's = 0.00 cm ² /m	As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 0.00 kgf.m/m F = 0.00 tf fiss = 0.00 mm		vsd = 4.89 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L262	X	bw = 100.0 cm h = 10.0 cm	Md = 407 kgf.m/m As = 1.33 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 10.0 cm	Md = 780 kgf.m/m As = 2.61 cm ² /m A's = 0.00 cm ² /m	As = 1.33 cm ² /m ø6.3 c/20 (1.56 cm ² /m) M = 96.58 kgf.m/m F = 0.00 tf fiss = 0.01 mm		vsd = 1.51 tf/m vrd1 = 6.20 tf/m Modelo II vrd2 = 37.52 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 10.0 cm	Md = 407 kgf.m/m As = 1.46 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 10.0 cm		As = 1.46 cm ² /m ø6.3 c/20 (1.56 cm ² /m) M = 19.47 kgf.m/m F = 0.00 tf fiss = 0.00 mm		vsd = 0.45 tf/m vrd1 = 5.71 tf/m vrd2 = 33.98 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L263	X	bw = 100.0 cm h = 10.0 cm	Md = 407 kgf.m/m As = 1.33 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 10.0 cm	Md = 441 kgf.m/m As = 1.44 cm ² /m A's = 0.00 cm ² /m	As = 1.33 cm ² /m ø6.3 c/20 (1.56 cm ² /m) M = 52.38 kgf.m/m F = 0.00 tf fiss = 0.00 mm		vsd = 1.83 tf/m vrd1 = 6.20 tf/m Modelo II vrd2 = 37.52 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 10.0 cm	Md = 407 kgf.m/m As = 1.46 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 10.0 cm	Md = 437 kgf.m/m As = 1.57 cm ² /m A's = 0.00 cm ² /m	As = 1.46 cm ² /m ø6.3 c/20 (1.56 cm ² /m) M = 86.11 kgf.m/m F = 0.00 tf fiss = 0.01 mm		vsd = 1.58 tf/m vrd1 = 5.71 tf/m vrd2 = 33.98 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L264	X	bw = 100.0 cm h = 10.0 cm	Md = 407 kgf.m/m As = 1.33 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 10.0 cm	Md = 365 kgf.m/m As = 1.19 cm ² /m A's = 0.00 cm ² /m	As = 1.33 cm ² /m ø6.3 c/20 (1.56 cm ² /m) M = 136.50 kgf.m/m F = 0.00 tf fiss = 0.02 mm		vsd = 0.95 tf/m vrd1 = 6.20 tf/m Modelo II vrd2 = 37.52 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m

	Y	bw = 100.0 cm h = 10.0 cm	Md = 407 kgf.m/m As = 1.46 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 10.0 cm		As = 1.46 cm ² /m ø6.3 c/20 (1.56 cm ² /m) M = 113.68 kgf.m/m F = 0.00 tf fiss = 0.01 mm		vsd = 1.18 tf/m vrd1 = 5.71 tf/m vrd2 = 33.98 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	X	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm		As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 2.45 kgf.m/m F = 0.00 tf fiss = 0.00 mm		vsd = 1.75 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L265	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm		As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 281.14 kgf.m/m F = 0.00 tf fiss = 0.01 mm		vsd = 4.17 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	X	bw = 100.0 cm h = 15.0 cm	Md = 1378 kgf.m/m As = 2.67 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 1431 kgf.m/m As = 2.78 cm ² /m A's = 0.00 cm ² /m	As = 2.67 cm ² /m ø8.0 c/18 (2.79 cm ² /m) M = 958.99 kgf.m/m F = 0.00 tf fiss = 0.10 mm		vsd = 4.83 tf/m vrd1 = 10.14 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L266	Y	bw = 100.0 cm h = 15.0 cm	Md = 1520 kgf.m/m As = 3.20 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 1819 kgf.m/m As = 3.85 cm ² /m A's = 0.00 cm ² /m	As = 3.20 cm ² /m ø10.0 c/20 (3.93 cm ² /m) M = 1065.60 kgf.m/m F = 0.00 tf fiss = 0.10 mm		vsd = 3.20 tf/m vrd1 = 9.80 tf/m vrd2 = 60.05 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	X	bw = 100.0 cm h = 15.0 cm	Md = 1649 kgf.m/m As = 3.24 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 2033 kgf.m/m As = 4.02 cm ² /m A's = 0.00 cm ² /m	As = 3.24 cm ² /m ø10.0 c/20 (3.93 cm ² /m) M = 1152.87 kgf.m/m F = 0.00 tf fiss = 0.10 mm		vsd = 3.02 tf/m vrd1 = 10.37 tf/m Modelo II vrd2 = 64.54 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L267	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.93 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 1414 kgf.m/m As = 3.00 cm ² /m A's = 0.00 cm ² /m	As = 1.93 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 434.47 kgf.m/m F = 0.00 tf fiss = 0.03 mm		vsd = 4.67 tf/m vrd1 = 9.36 tf/m vrd2 = 59.49 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	X	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm		As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 16.63 kgf.m/m F = 0.00 tf fiss = 0.00 mm		vsd = 0.65 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L268	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm		As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 126.06 kgf.m/m F = 0.00 tf		vsd = 1.51 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m

						fiss = 0.00 mm		
L269	X	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm		As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 11.62 kgf.m/m F = 0.00 tf fiss = 0.00 mm		vsd = 0.88 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm		As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 503.27 kgf.m/m F = 0.00 tf fiss = 0.04 mm		vsd = 8.26 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L270	X	bw = 100.0 cm h = 15.0 cm	Md = 1564 kgf.m/m As = 3.04 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 2207 kgf.m/m As = 4.37 cm ² /m A's = 0.00 cm ² /m	As = 3.04 cm ² /m ø8.0 c/16 (3.14 cm ² /m) M = 1095.87 kgf.m/m F = 0.00 tf fiss = 0.11 mm		vsd = 5.23 tf/m vrd1 = 10.23 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 1133 kgf.m/m As = 2.35 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 1359 kgf.m/m As = 2.83 cm ² /m A's = 0.00 cm ² /m	As = 2.35 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 785.38 kgf.m/m F = 0.00 tf fiss = 0.10 mm		vsd = 2.62 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L271	X	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 174 kgf.m/m As = 0.33 cm ² /m A's = 0.00 cm ² /m	As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 5.26 kgf.m/m F = 0.00 tf fiss = 0.00 mm		vsd = 0.80 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 1136 kgf.m/m As = 2.36 cm ² /m A's = 0.00 cm ² /m	As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 556.26 kgf.m/m F = 0.00 tf fiss = 0.05 mm		vsd = 4.45 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L272	X	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 1591 kgf.m/m As = 3.09 cm ² /m A's = 0.00 cm ² /m	As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 478.86 kgf.m/m F = 0.00 tf fiss = 0.03 mm		vsd = 4.91 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 1765 kgf.m/m As = 3.74 cm ² /m A's = 0.00 cm ² /m	As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 97.84 kgf.m/m F = 0.00 tf fiss = 0.00 mm		vsd = 4.61 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L273	X	bw = 100.0 cm h = 10.0 cm	Md = 407 kgf.m/m As = 1.33 cm ² /m	bw = 100.0 cm h = 10.0 cm		As = 1.33 cm ² /m ø6.3 c/20 (1.56 cm ² /m)		vsd = 0.51 tf/m vrd1 = 6.20 tf/m Modelo II vrd2 = 37.52 tf/m

			A's = 0.00 cm ² /m			M = 96.89 kgf.m/m F = 0.00 tf fiss = 0.01 mm		vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 10.0 cm	Md = 407 kgf.m/m As = 1.46 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 10.0 cm	Md = 380 kgf.m/m As = 1.36 cm ² /m A's = 0.00 cm ² /m	As = 1.46 cm ² /m ø6.3 c/20 (1.56 cm ² /m) M = 10.35 kgf.m/m F = 0.00 tf fiss = 0.00 mm		vsd = 1.00 tf/m vrd1 = 5.71 tf/m vrd2 = 33.98 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L274	X	bw = 100.0 cm h = 10.0 cm	Md = 407 kgf.m/m As = 1.33 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 10.0 cm		As = 1.33 cm ² /m ø6.3 c/20 (1.56 cm ² /m) M = 85.42 kgf.m/m F = 0.00 tf fiss = 0.01 mm		vsd = 0.61 tf/m vrd1 = 6.20 tf/m Modelo II vrd2 = 37.52 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 10.0 cm	Md = 407 kgf.m/m As = 1.46 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 10.0 cm		As = 1.46 cm ² /m ø6.3 c/20 (1.56 cm ² /m) M = 26.71 kgf.m/m F = 0.00 tf fiss = 0.00 mm		vsd = 0.51 tf/m vrd1 = 5.71 tf/m vrd2 = 33.98 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L275	X	bw = 100.0 cm h = 10.0 cm	Md = 407 kgf.m/m As = 1.33 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 10.0 cm	Md = 375 kgf.m/m As = 1.22 cm ² /m A's = 0.00 cm ² /m	As = 1.33 cm ² /m ø6.3 c/20 (1.56 cm ² /m) M = 86.75 kgf.m/m F = 0.00 tf fiss = 0.01 mm		vsd = 1.29 tf/m vrd1 = 6.20 tf/m Modelo II vrd2 = 37.52 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 10.0 cm	Md = 407 kgf.m/m As = 1.46 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 10.0 cm		As = 1.46 cm ² /m ø6.3 c/20 (1.56 cm ² /m) M = 119.57 kgf.m/m F = 0.00 tf fiss = 0.01 mm		vsd = 1.63 tf/m vrd1 = 5.71 tf/m vrd2 = 33.98 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L276	X	bw = 100.0 cm h = 10.0 cm	Md = 407 kgf.m/m As = 1.33 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 10.0 cm	Md = 565 kgf.m/m As = 1.87 cm ² /m A's = 0.00 cm ² /m	As = 1.33 cm ² /m ø6.3 c/20 (1.56 cm ² /m) M = 116.31 kgf.m/m F = 0.00 tf fiss = 0.01 mm		vsd = 0.94 tf/m vrd1 = 6.20 tf/m Modelo II vrd2 = 37.52 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 10.0 cm	Md = 407 kgf.m/m As = 1.46 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 10.0 cm	Md = 359 kgf.m/m As = 1.28 cm ² /m A's = 0.00 cm ² /m	As = 1.46 cm ² /m ø6.3 c/20 (1.56 cm ² /m) M = 107.65 kgf.m/m F = 0.00 tf fiss = 0.01 mm		vsd = 1.07 tf/m vrd1 = 5.71 tf/m vrd2 = 33.98 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L277	X	bw = 100.0 cm h = 10.0 cm	Md = 407 kgf.m/m As = 1.33 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 10.0 cm	Md = 944 kgf.m/m As = 3.23 cm ² /m A's = 0.00 cm ² /m	As = 1.33 cm ² /m ø6.3 c/20 (1.56 cm ² /m) M = 104.79 kgf.m/m F = 0.00 tf fiss = 0.01 mm		vsd = 1.03 tf/m vrd1 = 6.20 tf/m Modelo II vrd2 = 37.52 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m

	Y	bw = 100.0 cm h = 10.0 cm	Md = 407 kgf.m/m As = 1.46 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 10.0 cm	Md = 327 kgf.m/m As = 1.17 cm ² /m A's = 0.00 cm ² /m	As = 1.46 cm ² /m ø6.3 c/20 (1.56 cm ² /m) M = 138.46 kgf.m/m F = 0.00 tf fiss = 0.02 mm		vsd = 0.87 tf/m vrd1 = 5.71 tf/m vrd2 = 33.98 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L278	X	bw = 100.0 cm h = 10.0 cm	Md = 407 kgf.m/m As = 1.33 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 10.0 cm		As = 1.33 cm ² /m ø6.3 c/20 (1.56 cm ² /m) M = 80.84 kgf.m/m F = 0.00 tf fiss = 0.01 mm		vsd = 0.65 tf/m vrd1 = 6.20 tf/m Modelo II vrd2 = 37.52 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 10.0 cm	Md = 407 kgf.m/m As = 1.46 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 10.0 cm	Md = 337 kgf.m/m As = 1.20 cm ² /m A's = 0.00 cm ² /m	As = 1.46 cm ² /m ø6.3 c/20 (1.56 cm ² /m) M = 115.65 kgf.m/m F = 0.00 tf fiss = 0.01 mm		vsd = 1.10 tf/m vrd1 = 5.71 tf/m vrd2 = 33.98 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L279	X	bw = 100.0 cm h = 10.0 cm	Md = 407 kgf.m/m As = 1.33 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 10.0 cm	Md = 596 kgf.m/m As = 1.98 cm ² /m A's = 0.00 cm ² /m	As = 1.33 cm ² /m ø6.3 c/20 (1.56 cm ² /m) M = 155.01 kgf.m/m F = 0.00 tf fiss = 0.02 mm		vsd = 1.43 tf/m vrd1 = 6.20 tf/m Modelo II vrd2 = 37.52 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 10.0 cm	Md = 407 kgf.m/m As = 1.46 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 10.0 cm		As = 1.46 cm ² /m ø6.3 c/20 (1.56 cm ² /m) M = 108.91 kgf.m/m F = 0.00 tf fiss = 0.01 mm		vsd = 0.50 tf/m vrd1 = 5.71 tf/m vrd2 = 33.98 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L280	X	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 205 kgf.m/m As = 0.39 cm ² /m A's = 0.00 cm ² /m	As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 33.87 kgf.m/m F = 0.00 tf fiss = 0.00 mm		vsd = 1.31 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 770 kgf.m/m As = 1.58 cm ² /m A's = 0.00 cm ² /m	As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 591.04 kgf.m/m F = 0.00 tf fiss = 0.06 mm	A's = 2.41 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 549.04 kgf.m/m F = 0.00 tf fiss = 0.09 mm	vsd = 2.83 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L281	X	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 1968 kgf.m/m As = 3.89 cm ² /m A's = 0.00 cm ² /m	As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 0.00 kgf.m/m F = 0.00 tf fiss = 0.00 mm		vsd = 2.12 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 663 kgf.m/m As = 1.35 cm ² /m	As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 361.24 kgf.m/m		vsd = 0.76 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m

					A's = 0.00 cm ² /m	F = 0.00 tf físs = 0.02 mm		
L282	X	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 1074 kgf.m/m As = 2.07 cm ² /m A's = 0.00 cm ² /m	As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 4.79 kgf.m/m F = 0.00 tf físs = 0.00 mm		vsd = 1.69 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 835 kgf.m/m As = 1.72 cm ² /m A's = 0.00 cm ² /m	As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 321.55 kgf.m/m F = 0.00 tf físs = 0.02 mm		vsd = 2.27 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L283	X	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 1438 kgf.m/m As = 2.79 cm ² /m A's = 0.00 cm ² /m	As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 0.00 kgf.m/m F = 0.00 tf físs = 0.00 mm		vsd = 2.74 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 869 kgf.m/m As = 1.79 cm ² /m A's = 0.00 cm ² /m	As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 181.59 kgf.m/m F = 0.00 tf físs = 0.01 mm		vsd = 2.38 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L284	X	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 1644 kgf.m/m As = 3.23 cm ² /m A's = 0.00 cm ² /m	As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 37.50 kgf.m/m F = 0.00 tf físs = 0.00 mm		vsd = 7.91 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 880 kgf.m/m As = 1.82 cm ² /m A's = 0.00 cm ² /m	As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 330.15 kgf.m/m F = 0.00 tf físs = 0.02 mm		vsd = 4.44 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L285	X	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 1023 kgf.m/m As = 1.97 cm ² /m A's = 0.00 cm ² /m	As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 174.17 kgf.m/m F = 0.00 tf físs = 0.00 mm		vsd = 3.23 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 1403 kgf.m/m As = 2.92 cm ² /m A's = 0.00 cm ² /m	As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 533.69 kgf.m/m F = 0.00 tf físs = 0.05 mm		vsd = 4.22 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L286	X	bw = 100.0 cm	Md = 917 kgf.m/m	bw = 100.0 cm	Md = 1350 kgf.m/m	As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m)		vsd = 2.70 tf/m vrd1 = 10.07 tf/m Modelo II

		h = 15.0 cm	As = 1.77 cm ² /m A's = 0.00 cm ² /m	h = 15.0 cm	As = 2.62 cm ² /m A's = 0.00 cm ² /m	M = 0.00 kgf.m/m F = 0.00 tf fiss = 0.00 mm		vr _{d2} = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	M _d = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	M _d = 1043 kgf.m/m As = 2.16 cm ² /m A's = 0.00 cm ² /m	As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 186.58 kgf.m/m F = 0.00 tf fiss = 0.01 mm		v _s d = 3.35 tf/m vr _{d1} = 9.50 tf/m vr _{d2} = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L287	X	bw = 100.0 cm h = 15.0 cm	M _d = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	M _d = 2240 kgf.m/m As = 4.44 cm ² /m A's = 0.00 cm ² /m	As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 99.78 kgf.m/m F = 0.00 tf fiss = 0.00 mm		v _s d = 6.56 tf/m vr _{d1} = 10.07 tf/m Modelo II vr _{d2} = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	M _d = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	M _d = 786 kgf.m/m As = 1.61 cm ² /m A's = 0.00 cm ² /m	As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 226.27 kgf.m/m F = 0.00 tf fiss = 0.01 mm		v _s d = 3.95 tf/m vr _{d1} = 9.50 tf/m vr _{d2} = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L288	X	bw = 100.0 cm h = 15.0 cm	M _d = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	M _d = 2314 kgf.m/m As = 4.59 cm ² /m A's = 0.00 cm ² /m	As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 0.00 kgf.m/m F = 0.00 tf fiss = 0.00 mm		v _s d = 7.07 tf/m vr _{d1} = 10.07 tf/m Modelo II vr _{d2} = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	M _d = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	M _d = 957 kgf.m/m As = 1.98 cm ² /m A's = 0.00 cm ² /m	As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 329.25 kgf.m/m F = 0.00 tf fiss = 0.02 mm		v _s d = 4.11 tf/m vr _{d1} = 9.50 tf/m vr _{d2} = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L289	X	bw = 100.0 cm h = 15.0 cm	M _d = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	M _d = 1880 kgf.m/m As = 3.71 cm ² /m A's = 0.00 cm ² /m	As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 0.00 kgf.m/m F = 0.00 tf fiss = 0.00 mm		v _s d = 2.17 tf/m vr _{d1} = 10.07 tf/m Modelo II vr _{d2} = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	M _d = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	M _d = 896 kgf.m/m As = 1.85 cm ² /m A's = 0.00 cm ² /m	As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 209.23 kgf.m/m F = 0.00 tf fiss = 0.01 mm		v _s d = 1.90 tf/m vr _{d1} = 9.50 tf/m vr _{d2} = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L290	X	bw = 100.0 cm h = 15.0 cm	M _d = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	M _d = 1804 kgf.m/m As = 3.55 cm ² /m A's = 0.00 cm ² /m	As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 0.00 kgf.m/m F = 0.00 tf fiss = 0.00 mm		v _s d = 2.00 tf/m vr _{d1} = 10.07 tf/m Modelo II vr _{d2} = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m

	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 790 kgf.m/m As = 1.62 cm ² /m A's = 0.00 cm ² /m	As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 369.09 kgf.m/m F = 0.00 tf fiss = 0.02 mm		vsd = 0.98 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m	
L291	X	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 200 kgf.m/m As = 0.38 cm ² /m A's = 0.00 cm ² /m	As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 0.65 kgf.m/m F = 0.00 tf fiss = 0.00 mm		vsd = 0.74 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m	
	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 1394 kgf.m/m As = 2.90 cm ² /m A's = 0.00 cm ² /m	As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 0.00 kgf.m/m F = 0.00 tf fiss = 0.00 mm		vsd = 5.94 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m	
L292	X	bw = 100.0 cm h = 15.0 cm	Md = 1447 kgf.m/m As = 2.81 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 3463 kgf.m/m As = 7.09 cm ² /m A's = 0.00 cm ² /m	As = 2.81 cm ² /m ø8.0 c/17 (2.96 cm ² /m) M = 1011.07 kgf.m/m F = 0.00 tf fiss = 0.10 mm		vsd = 5.40 tf/m vrd1 = 10.19 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m	
	Y	bw = 100.0 cm h = 15.0 cm	Md = 1116 kgf.m/m As = 2.31 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 1574 kgf.m/m As = 3.32 cm ² /m A's = 0.00 cm ² /m	As = 2.31 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 773.27 kgf.m/m F = 0.00 tf fiss = 0.10 mm	A's = 1.62 cm ² /m ø6.3 c/19 (1.64 cm ² /m) M = 1095.52 kgf.m/m F = 0.00 tf fiss = 0.10 mm		vsd = 4.15 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L293	X	bw = 100.0 cm h = 15.0 cm	Md = 1425 kgf.m/m As = 2.76 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 4127 kgf.m/m As = 8.54 cm ² /m A's = 0.00 cm ² /m	As = 2.76 cm ² /m ø8.0 c/18 (2.79 cm ² /m) M = 996.46 kgf.m/m F = 0.00 tf fiss = 0.11 mm		vsd = 6.88 tf/m vrd1 = 10.14 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m	
	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 1566 kgf.m/m As = 3.30 cm ² /m A's = 0.00 cm ² /m	As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 459.80 kgf.m/m F = 0.00 tf fiss = 0.03 mm		vsd = 4.19 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m	
L294	X	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 1656 kgf.m/m As = 3.25 cm ² /m A's = 0.00 cm ² /m	As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 541.63 kgf.m/m F = 0.00 tf fiss = 0.04 mm	A's = 2.10 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 1144.38 kgf.m/m F = 0.00 tf fiss = 0.10 mm		vsd = 4.37 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 1322 kgf.m/m As = 2.75 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 4590 kgf.m/m As = 10.61 cm ² /m	As = 2.75 cm ² /m ø8.0 c/18 (2.79 cm ² /m) M = 925.76 kgf.m/m		vsd = 8.53 tf/m vrd1 = 9.57 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m	

					A's = 0.00 cm ² /m	F = 0.00 tf físs = 0.11 mm		
L295	X	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 1699 kgf.m/m As = 3.34 cm ² /m A's = 0.00 cm ² /m	As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 510.02 kgf.m/m F = 0.00 tf físs = 0.04 mm		vsd = 3.49 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 1231 kgf.m/m As = 2.56 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 2583 kgf.m/m As = 5.62 cm ² /m A's = 0.00 cm ² /m	As = 2.56 cm ² /m ø8.0 c/19 (2.65 cm ² /m) M = 864.10 kgf.m/m F = 0.00 tf físs = 0.11 mm		vsd = 4.10 tf/m vrd1 = 9.53 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L296	X	bw = 100.0 cm h = 15.0 cm	Md = 1252 kgf.m/m As = 2.42 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 1761 kgf.m/m As = 3.46 cm ² /m A's = 0.00 cm ² /m	As = 2.42 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 868.90 kgf.m/m F = 0.00 tf físs = 0.10 mm	A's = 2.25 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 1216.99 kgf.m/m F = 0.00 tf físs = 0.11 mm	vsd = 4.27 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 1318 kgf.m/m As = 2.74 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 3031 kgf.m/m As = 6.65 cm ² /m A's = 0.00 cm ² /m	As = 2.74 cm ² /m ø8.0 c/18 (2.79 cm ² /m) M = 922.79 kgf.m/m F = 0.00 tf físs = 0.11 mm		vsd = 6.40 tf/m vrd1 = 9.57 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L297	X	bw = 100.0 cm h = 15.0 cm	Md = 1211 kgf.m/m As = 2.34 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 1514 kgf.m/m As = 2.94 cm ² /m A's = 0.00 cm ² /m	As = 2.34 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 840.80 kgf.m/m F = 0.00 tf físs = 0.10 mm	A's = 2.25 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 1061.07 kgf.m/m F = 0.00 tf físs = 0.11 mm	vsd = 4.47 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 1428 kgf.m/m As = 2.98 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 2928 kgf.m/m As = 6.41 cm ² /m A's = 0.00 cm ² /m	As = 2.98 cm ² /m ø8.0 c/16 (3.14 cm ² /m) M = 998.43 kgf.m/m F = 0.00 tf físs = 0.10 mm		vsd = 6.80 tf/m vrd1 = 9.66 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L298	X	bw = 100.0 cm h = 15.0 cm	Md = 1480 kgf.m/m As = 2.88 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 3146 kgf.m/m As = 6.40 cm ² /m A's = 0.00 cm ² /m	As = 2.88 cm ² /m ø8.0 c/17 (2.96 cm ² /m) M = 1035.55 kgf.m/m F = 0.00 tf físs = 0.11 mm		vsd = 4.94 tf/m vrd1 = 10.19 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 1532 kgf.m/m As = 3.23 cm ² /m A's = 0.00 cm ² /m	As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 443.49 kgf.m/m F = 0.00 tf físs = 0.03 mm		vsd = 4.20 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L299	X	bw = 100.0 cm	Md = 1461 kgf.m/m	bw = 100.0 cm	Md = 3425 kgf.m/m	As = 2.84 cm ² /m ø8.0 c/17 (2.96 cm ² /m)		vsd = 5.42 tf/m vrd1 = 10.19 tf/m Modelo II

		h = 15.0 cm	As = 2.84 cm ² /m A's = 0.00 cm ² /m	h = 15.0 cm	As = 7.00 cm ² /m A's = 0.00 cm ² /m	M = 1021.73 kgf.m/m F = 0.00 tf fiss = 0.11 mm		vr _{d2} = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 1098 kgf.m/m As = 2.28 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 1537 kgf.m/m As = 3.24 cm ² /m A's = 0.00 cm ² /m	As = 2.28 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 761.31 kgf.m/m F = 0.00 tf fiss = 0.09 mm		v _{sd} = 4.27 tf/m vr _{d1} = 9.50 tf/m vr _{d2} = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L300	X	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 214 kgf.m/m As = 0.40 cm ² /m A's = 0.00 cm ² /m	As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 2.13 kgf.m/m F = 0.00 tf fiss = 0.00 mm		v _{sd} = 0.97 tf/m vr _{d1} = 10.07 tf/m Modelo II vr _{d2} = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 1429 kgf.m/m As = 2.98 cm ² /m A's = 0.00 cm ² /m	As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 588.76 kgf.m/m F = 0.00 tf fiss = 0.06 mm		v _{sd} = 5.99 tf/m vr _{d1} = 9.50 tf/m vr _{d2} = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L301	X	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 168 kgf.m/m As = 0.32 cm ² /m A's = 0.00 cm ² /m	As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 22.30 kgf.m/m F = 0.00 tf fiss = 0.00 mm		v _{sd} = 1.61 tf/m vr _{d1} = 10.07 tf/m Modelo II vr _{d2} = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 828 kgf.m/m As = 1.71 cm ² /m A's = 0.00 cm ² /m	As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 397.16 kgf.m/m F = 0.00 tf fiss = 0.03 mm		v _{sd} = 3.78 tf/m vr _{d1} = 9.50 tf/m vr _{d2} = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L302	X	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 158 kgf.m/m As = 0.30 cm ² /m A's = 0.00 cm ² /m	As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 19.56 kgf.m/m F = 0.00 tf fiss = 0.00 mm		v _{sd} = 1.61 tf/m vr _{d1} = 10.07 tf/m Modelo II vr _{d2} = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 776 kgf.m/m As = 1.59 cm ² /m A's = 0.00 cm ² /m	As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 185.63 kgf.m/m F = 0.00 tf fiss = 0.01 mm		v _{sd} = 3.75 tf/m vr _{d1} = 9.50 tf/m vr _{d2} = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L303	X	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 154 kgf.m/m As = 0.29 cm ² /m A's = 0.00 cm ² /m	As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 8.41 kgf.m/m F = 0.00 tf fiss = 0.00 mm		v _{sd} = 1.24 tf/m vr _{d1} = 10.07 tf/m Modelo II vr _{d2} = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m

	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 698 kgf.m/m As = 1.43 cm ² /m A's = 0.00 cm ² /m	As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 231.82 kgf.m/m F = 0.00 tf fiss = 0.01 mm		vsd = 3.02 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L304	X	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 156 kgf.m/m As = 0.29 cm ² /m A's = 0.00 cm ² /m	As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 10.92 kgf.m/m F = 0.00 tf fiss = 0.00 mm		vsd = 1.32 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 941 kgf.m/m As = 1.95 cm ² /m A's = 0.00 cm ² /m	As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 175.92 kgf.m/m F = 0.00 tf fiss = 0.00 mm		vsd = 3.45 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L305	X	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 181 kgf.m/m As = 0.34 cm ² /m A's = 0.00 cm ² /m	As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 28.99 kgf.m/m F = 0.00 tf fiss = 0.00 mm		vsd = 1.32 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 1089 kgf.m/m As = 2.26 cm ² /m A's = 0.00 cm ² /m	As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 409.24 kgf.m/m F = 0.00 tf fiss = 0.03 mm	A's = 2.41 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 789.40 kgf.m/m F = 0.00 tf fiss = 0.10 mm	vsd = 3.71 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L306	X	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 188 kgf.m/m As = 0.36 cm ² /m A's = 0.00 cm ² /m	As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 38.27 kgf.m/m F = 0.00 tf fiss = 0.00 mm		vsd = 1.47 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 928 kgf.m/m As = 1.92 cm ² /m A's = 0.00 cm ² /m	As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 400.21 kgf.m/m F = 0.00 tf fiss = 0.03 mm	A's = 2.41 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 670.63 kgf.m/m F = 0.00 tf fiss = 0.07 mm	vsd = 3.73 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
L307	X	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 162 kgf.m/m As = 0.31 cm ² /m A's = 0.00 cm ² /m	As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 17.64 kgf.m/m F = 0.00 tf fiss = 0.00 mm		vsd = 1.58 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 762 kgf.m/m As = 1.56 cm ² /m	As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 156.24 kgf.m/m		vsd = 3.71 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m

					A's = 0.00 cm ² /m	F = 0.00 tf fiss = 0.00 mm		
L308	X	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.77 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 179 kgf.m/m As = 0.34 cm ² /m A's = 0.00 cm ² /m	As = 1.77 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 18.51 kgf.m/m F = 0.00 tf fiss = 0.00 mm		vsd = 1.51 tf/m vrd1 = 10.07 tf/m Modelo II vrd2 = 65.10 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m
	Y	bw = 100.0 cm h = 15.0 cm	Md = 917 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	Md = 915 kgf.m/m As = 1.89 cm ² /m A's = 0.00 cm ² /m	As = 1.89 cm ² /m ø8.0 c/20 (2.51 cm ² /m) M = 394.67 kgf.m/m F = 0.00 tf fiss = 0.02 mm		vsd = 3.79 tf/m vrd1 = 9.50 tf/m vrd2 = 60.61 tf/m vsw = 0.00 tf/m asw = 0.00 cm ² /m

ARMADURAS NEGATIVAS (NA CONTINUIDADE)					
Viga Trecho	Laje 1	Momento negativo Seção	Flexão	Momento positivo Seção	Armaduras finais
	Laje 2				
V208 1	L203 L220	bw = 100.0 cm h = 15.0 cm	Md = 1730 kgf.m/m As = 3.40 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 3.40 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.11 mm
V208 2	L203 L220	bw = 100.0 cm h = 15.0 cm	Md = 1730 kgf.m/m As = 3.40 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 3.40 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.11 mm
V249 5	L203 L204	bw = 100.0 cm h = 15.0 cm	Md = 3378 kgf.m/m As = 7.02 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 7.02 cm ² /m (ø16.0 c/20 - 10.05 cm ² /m) fiss = 0.12 mm
V249 6	L203 L204	bw = 100.0 cm h = 15.0 cm	Md = 3378 kgf.m/m As = 7.02 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 7.02 cm ² /m (ø16.0 c/20 - 10.05 cm ² /m) fiss = 0.12 mm
V203 1	L203 L202	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.01 mm
V245 3	L203 L201	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.02 mm
V208 3	L204 L221	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.02 mm

			$A's = 0.00 \text{ cm}^2/\text{m}$		
V208 4	L204 L222	$bw = 100.0 \text{ cm}$ $h = 15.0 \text{ cm}$	$Md = 1368 \text{ kgf.m/m}$ $A_s = 2.68 \text{ cm}^2/\text{m}$ $A's = 0.00 \text{ cm}^2/\text{m}$	$bw = 100.0 \text{ cm}$ $h = 15.0 \text{ cm}$	$A_s = 2.68 \text{ cm}^2/\text{m}$ ($\emptyset 10.0 \text{ c}/20 - 3.93 \text{ cm}^2/\text{m}$) $fiss = 0.03 \text{ mm}$
V258 2	L204 L206	$bw = 100.0 \text{ cm}$ $h = 15.0 \text{ cm}$	$Md = 3187 \text{ kgf.m/m}$ $A_s = 6.60 \text{ cm}^2/\text{m}$ $A's = 0.00 \text{ cm}^2/\text{m}$	$bw = 100.0 \text{ cm}$ $h = 15.0 \text{ cm}$	$A_s = 6.60 \text{ cm}^2/\text{m}$ ($\emptyset 16.0 \text{ c}/20 - 10.05 \text{ cm}^2/\text{m}$) $fiss = 0.11 \text{ mm}$
V258 3	L204 L206	$bw = 100.0 \text{ cm}$ $h = 15.0 \text{ cm}$	$Md = 3187 \text{ kgf.m/m}$ $A_s = 6.60 \text{ cm}^2/\text{m}$ $A's = 0.00 \text{ cm}^2/\text{m}$	$bw = 100.0 \text{ cm}$ $h = 15.0 \text{ cm}$	$A_s = 6.60 \text{ cm}^2/\text{m}$ ($\emptyset 16.0 \text{ c}/20 - 10.05 \text{ cm}^2/\text{m}$) $fiss = 0.11 \text{ mm}$
V209 4	L214 L228	$bw = 100.0 \text{ cm}$ $h = 15.0 \text{ cm}$	$Md = 2663 \text{ kgf.m/m}$ $A_s = 5.46 \text{ cm}^2/\text{m}$ $A's = 0.00 \text{ cm}^2/\text{m}$	$bw = 100.0 \text{ cm}$ $h = 15.0 \text{ cm}$	$A_s = 5.46 \text{ cm}^2/\text{m}$ ($\emptyset 16.0 \text{ c}/20 - 10.05 \text{ cm}^2/\text{m}$) $fiss = 0.07 \text{ mm}$
V283 4	L214 L216	$bw = 100.0 \text{ cm}$ $h = 15.0 \text{ cm}$	$Md = 1537 \text{ kgf.m/m}$ $A_s = 3.01 \text{ cm}^2/\text{m}$ $A's = 0.00 \text{ cm}^2/\text{m}$	$bw = 100.0 \text{ cm}$ $h = 15.0 \text{ cm}$	$A_s = 3.01 \text{ cm}^2/\text{m}$ ($\emptyset 10.0 \text{ c}/20 - 3.93 \text{ cm}^2/\text{m}$) $fiss = 0.09 \text{ mm}$
V204 2	L214 L215	$bw = 100.0 \text{ cm}$ $h = 15.0 \text{ cm}$	$Md = 1368 \text{ kgf.m/m}$ $A_s = 2.68 \text{ cm}^2/\text{m}$ $A's = 0.00 \text{ cm}^2/\text{m}$	$bw = 100.0 \text{ cm}$ $h = 15.0 \text{ cm}$	$A_s = 2.68 \text{ cm}^2/\text{m}$ ($\emptyset 10.0 \text{ c}/20 - 3.93 \text{ cm}^2/\text{m}$) $fiss = 0.00 \text{ mm}$
V279 4	L214 L213	$bw = 100.0 \text{ cm}$ $h = 15.0 \text{ cm}$	$Md = 1510 \text{ kgf.m/m}$ $A_s = 2.96 \text{ cm}^2/\text{m}$ $A's = 0.00 \text{ cm}^2/\text{m}$	$bw = 100.0 \text{ cm}$ $h = 15.0 \text{ cm}$	$A_s = 2.96 \text{ cm}^2/\text{m}$ ($\emptyset 10.0 \text{ c}/20 - 3.93 \text{ cm}^2/\text{m}$) $fiss = 0.09 \text{ mm}$
V209 3	L214 L228	$bw = 100.0 \text{ cm}$ $h = 15.0 \text{ cm}$	$Md = 2663 \text{ kgf.m/m}$ $A_s = 5.46 \text{ cm}^2/\text{m}$ $A's = 0.00 \text{ cm}^2/\text{m}$	$bw = 100.0 \text{ cm}$ $h = 15.0 \text{ cm}$	$A_s = 5.46 \text{ cm}^2/\text{m}$ ($\emptyset 16.0 \text{ c}/20 - 10.05 \text{ cm}^2/\text{m}$) $fiss = 0.07 \text{ mm}$
V204 3	L216 L217	$bw = 100.0 \text{ cm}$ $h = 15.0 \text{ cm}$	$Md = 1368 \text{ kgf.m/m}$ $A_s = 2.68 \text{ cm}^2/\text{m}$ $A's = 0.00 \text{ cm}^2/\text{m}$	$bw = 100.0 \text{ cm}$ $h = 15.0 \text{ cm}$	$A_s = 2.68 \text{ cm}^2/\text{m}$ ($\emptyset 10.0 \text{ c}/20 - 3.93 \text{ cm}^2/\text{m}$) $fiss = 0.01 \text{ mm}$
V209 5	L216 L229	$bw = 100.0 \text{ cm}$ $h = 15.0 \text{ cm}$	$Md = 3428 \text{ kgf.m/m}$ $A_s = 7.13 \text{ cm}^2/\text{m}$ $A's = 0.00 \text{ cm}^2/\text{m}$	$bw = 100.0 \text{ cm}$ $h = 15.0 \text{ cm}$	$A_s = 7.13 \text{ cm}^2/\text{m}$ ($\emptyset 16.0 \text{ c}/20 - 10.05 \text{ cm}^2/\text{m}$) $fiss = 0.12 \text{ mm}$
V209 6	L216 L229	$bw = 100.0 \text{ cm}$ $h = 15.0 \text{ cm}$	$Md = 3428 \text{ kgf.m/m}$ $A_s = 7.13 \text{ cm}^2/\text{m}$ $A's = 0.00 \text{ cm}^2/\text{m}$	$bw = 100.0 \text{ cm}$ $h = 15.0 \text{ cm}$	$A_s = 7.13 \text{ cm}^2/\text{m}$ ($\emptyset 16.0 \text{ c}/20 - 10.05 \text{ cm}^2/\text{m}$) $fiss = 0.12 \text{ mm}$

V288 3	L216 L218	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.01 mm
V249 4	L220 L221	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.02 mm
V245 2	L220 L219	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.00 mm
V211 1	L220 L231	bw = 100.0 cm h = 15.0 cm	Md = 1505 kgf.m/m As = 2.95 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.95 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.09 mm
V212 2	L228 L241	bw = 100.0 cm h = 15.0 cm	Md = 2014 kgf.m/m As = 3.98 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 3.98 cm ² /m (ø10.0 c/19 - 4.13 cm ² /m) fiss = 0.14 mm
V283 3	L228 L229	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.04 mm
V279 3	L228 L227	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.03 mm
V212 3	L229 L242	bw = 100.0 cm h = 15.0 cm	Md = 1859 kgf.m/m As = 3.66 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 3.66 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.13 mm
V288 2	L229 L230	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.01 mm
V216 2	L231 L249	bw = 100.0 cm h = 15.0 cm	Md = 2046 kgf.m/m As = 4.09 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 4.09 cm ² /m (ø12.5 c/20 - 6.14 cm ² /m) fiss = 0.09 mm
V249 2	L231 L246	bw = 100.0 cm h = 15.0 cm	Md = 3235 kgf.m/m As = 6.59 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 6.59 cm ² /m (ø12.5 c/18 - 6.82 cm ² /m) fiss = 0.17 mm
V249 3	L231 L232	bw = 100.0 cm h = 15.0 cm	Md = 3566 kgf.m/m As = 7.31 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 7.31 cm ² /m (ø12.5 c/16 - 7.67 cm ² /m) fiss = 0.17 mm

V245 1	L231 L219	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.00 mm
V216 1	L231 L248	bw = 100.0 cm h = 15.0 cm	Md = 2406 kgf.m/m As = 4.84 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 4.84 cm ² /m (ø12.5 c/20 - 6.14 cm ² /m) fiss = 0.12 mm
V220 2	L241 L254	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.00 mm
V283 2	L241 L242	bw = 100.0 cm h = 15.0 cm	Md = 1478 kgf.m/m As = 2.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.89 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.08 mm
V279 2	L241 L240	bw = 100.0 cm h = 15.0 cm	Md = 1464 kgf.m/m As = 2.87 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.87 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.08 mm
V220 3	L242 L255	bw = 100.0 cm h = 15.0 cm	Md = 2143 kgf.m/m As = 4.29 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 4.29 cm ² /m (ø12.5 c/20 - 6.14 cm ² /m) fiss = 0.09 mm
V220 4	L242 L256	bw = 100.0 cm h = 15.0 cm	Md = 2047 kgf.m/m As = 4.09 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 4.09 cm ² /m (ø12.5 c/20 - 6.14 cm ² /m) fiss = 0.09 mm
V288 1	L242 L243	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.00 mm
V248 4	L258 L261	bw = 100.0 cm h = 15.0 cm	Md = 3409 kgf.m/m As = 6.97 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 6.97 cm ² /m (ø12.5 c/17 - 7.22 cm ² /m) fiss = 0.17 mm
V223 2	L258 L259	bw = 100.0 cm h = 15.0 cm	Md = 2041 kgf.m/m As = 4.08 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 4.08 cm ² /m (ø12.5 c/20 - 6.14 cm ² /m) fiss = 0.08 mm
V223 1	L258 L248	bw = 100.0 cm h = 15.0 cm	Md = 2402 kgf.m/m As = 4.83 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 4.83 cm ² /m (ø12.5 c/20 - 6.14 cm ² /m) fiss = 0.12 mm
V244 3	L258 L257	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.00 mm

V231 1	L258 L281	bw = 100.0 cm h = 15.0 cm	Md = 1491 kgf.m/m As = 2.92 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.92 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.08 mm
V248 3	L258 L272	bw = 100.0 cm h = 15.0 cm	Md = 3747 kgf.m/m As = 7.70 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 7.70 cm ² /m (ø12.5 c/15 - 8.18 cm ² /m) fiss = 0.16 mm
V227 2	L267 L268	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.00 mm
V278 3	L267 L266	bw = 100.0 cm h = 15.0 cm	Md = 1431 kgf.m/m As = 2.80 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.80 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.08 mm
V232 2	L267 L289	bw = 100.0 cm h = 15.0 cm	Md = 2033 kgf.m/m As = 4.02 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 4.02 cm ² /m (ø10.0 c/19 - 4.13 cm ² /m) fiss = 0.14 mm
V282 3	L267 L270	bw = 100.0 cm h = 15.0 cm	Md = 1379 kgf.m/m As = 2.70 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.70 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.07 mm
V227 4	L270 L256	bw = 100.0 cm h = 15.0 cm	Md = 2118 kgf.m/m As = 4.24 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 4.24 cm ² /m (ø12.5 c/20 - 6.14 cm ² /m) fiss = 0.09 mm
V227 3	L270 L269	bw = 100.0 cm h = 15.0 cm	Md = 2207 kgf.m/m As = 4.42 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 4.42 cm ² /m (ø12.5 c/20 - 6.14 cm ² /m) fiss = 0.10 mm
V232 3	L270 L290	bw = 100.0 cm h = 15.0 cm	Md = 1907 kgf.m/m As = 3.76 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 3.76 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.14 mm
V287 3	L270 L271	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.00 mm
V248 2	L281 L282	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.03 mm
V244 2	L281 L280	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.00 mm

V234 1	L281 L292	bw = 100.0 cm h = 15.0 cm	Md = 3463 kgf.m/m As = 7.09 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 7.09 cm ² /m (ø12.5 c/17 - 7.22 cm ² /m) fiss = 0.18 mm
V234 2	L281 L292	bw = 100.0 cm h = 15.0 cm	Md = 3463 kgf.m/m As = 7.09 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 7.09 cm ² /m (ø12.5 c/17 - 7.22 cm ² /m) fiss = 0.18 mm
V235 4	L289 L298	bw = 100.0 cm h = 15.0 cm	Md = 2655 kgf.m/m As = 5.45 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 5.45 cm ² /m (ø16.0 c/20 - 10.05 cm ² /m) fiss = 0.07 mm
V282 2	L289 L290	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.02 mm
V278 2	L289 L288	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.03 mm
V235 3	L289 L298	bw = 100.0 cm h = 15.0 cm	Md = 2655 kgf.m/m As = 5.45 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 5.45 cm ² /m (ø16.0 c/20 - 10.05 cm ² /m) fiss = 0.07 mm
V235 5	L290 L299	bw = 100.0 cm h = 15.0 cm	Md = 3425 kgf.m/m As = 7.12 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 7.12 cm ² /m (ø16.0 c/20 - 10.05 cm ² /m) fiss = 0.12 mm
V235 6	L290 L299	bw = 100.0 cm h = 15.0 cm	Md = 3425 kgf.m/m As = 7.12 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 7.12 cm ² /m (ø16.0 c/20 - 10.05 cm ² /m) fiss = 0.12 mm
V287 2	L290 L291	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.01 mm
V239 1	L292 L301	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.01 mm
V248 1	L292 L293	bw = 100.0 cm h = 15.0 cm	Md = 1574 kgf.m/m As = 3.09 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 3.09 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.09 mm
V244	L292	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m)

1	L280		As = 2.68 cm ² /m A's = 0.00 cm ² /m		fiss = 0.00 mm
V239	L293	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.00 mm
2	L302		As = 2.68 cm ² /m A's = 0.00 cm ² /m		
V257	L293	bw = 100.0 cm h = 15.0 cm	Md = 1386 kgf.m/m	bw = 100.0 cm h = 15.0 cm	As = 2.71 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.07 mm
1	L294		As = 2.71 cm ² /m A's = 0.00 cm ² /m		
V234	L293	bw = 100.0 cm h = 15.0 cm	Md = 3199 kgf.m/m	bw = 100.0 cm h = 15.0 cm	As = 6.44 cm ² /m (ø10.0 c/12 - 6.54 cm ² /m) fiss = 0.14 mm
4	L283		As = 6.44 cm ² /m A's = 0.00 cm ² /m		
V234	L293	bw = 100.0 cm h = 15.0 cm	Md = 4127 kgf.m/m	bw = 100.0 cm h = 15.0 cm	As = 8.54 cm ² /m (ø12.5 c/14 - 8.77 cm ² /m) fiss = 0.17 mm
3	L282		As = 8.54 cm ² /m A's = 0.00 cm ² /m		
V282	L298	bw = 100.0 cm h = 15.0 cm	Md = 1537 kgf.m/m	bw = 100.0 cm h = 15.0 cm	As = 3.01 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.09 mm
1	L299		As = 3.01 cm ² /m A's = 0.00 cm ² /m		
V278	L298	bw = 100.0 cm h = 15.0 cm	Md = 1514 kgf.m/m	bw = 100.0 cm h = 15.0 cm	As = 2.97 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.09 mm
1	L297		As = 2.97 cm ² /m A's = 0.00 cm ² /m		
V240	L298	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.00 mm
2	L307		As = 2.68 cm ² /m A's = 0.00 cm ² /m		
V240	L299	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.01 mm
3	L308		As = 2.68 cm ² /m A's = 0.00 cm ² /m		
V287	L299	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.01 mm
1	L300		As = 2.68 cm ² /m A's = 0.00 cm ² /m		
V222	L248	bw = 100.0 cm h = 15.0 cm	Md = 1469 kgf.m/m	bw = 100.0 cm h = 15.0 cm	As = 2.91 cm ² /m (ø12.5 c/20 - 6.14 cm ² /m) fiss = 0.04 mm
1	L257		As = 2.91 cm ² /m A's = 0.00 cm ² /m		
V246	L248	bw = 100.0 cm h = 15.0 cm		bw = 100.0 cm h = 15.0 cm	fiss = 0.00 mm
1	L259				
V246	L248	bw = 100.0 cm h = 15.0 cm		bw = 100.0 cm h = 15.0 cm	fiss = 0.00 mm
4	L249				

V215 1	L248 L219	bw = 100.0 cm h = 15.0 cm	Md = 1479 kgf.m/m As = 2.93 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.93 cm ² /m (ø12.5 c/20 - 6.14 cm ² /m) fiss = 0.04 mm
V207 1	L219 L201	bw = 100.0 cm h = 15.0 cm	Md = 1801 kgf.m/m As = 3.55 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 3.55 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.12 mm
V247 1	L301 L302	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.03 mm
V256 1	L302 L303	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.02 mm
V277 1	L307 L306	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.03 mm
V281 1	L307 L308	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.03 mm
V242 1	L308 L300	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.71 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.71 cm ² /m (ø12.5 c/20 - 6.14 cm ² /m) fiss = 0.01 mm
V236 1	L300 L291	bw = 100.0 cm h = 15.0 cm	Md = 1429 kgf.m/m As = 2.80 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.80 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.08 mm
V233 1	L291 L271	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.71 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.71 cm ² /m (ø12.5 c/20 - 6.14 cm ² /m) fiss = 0.03 mm
V228 1	L271 L256	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.71 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.71 cm ² /m (ø12.5 c/20 - 6.14 cm ² /m) fiss = 0.04 mm
V221 1	L256 L243	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.71 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.71 cm ² /m (ø12.5 c/20 - 6.14 cm ² /m) fiss = 0.04 mm
V285 4	L256 L255	bw = 100.0 cm h = 15.0 cm		bw = 100.0 cm h = 15.0 cm	fiss = 0.00 mm

V285 1	L256 L269	bw = 100.0 cm h = 15.0 cm		bw = 100.0 cm h = 15.0 cm	fiss = 0.00 mm
V213 1	L243 L230	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.06 mm
V210 1	L230 L218	bw = 100.0 cm h = 15.0 cm	Md = 1427 kgf.m/m As = 2.79 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.79 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.08 mm
V206 1	L218 L217	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.02 mm
V284 1	L215 L217	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.03 mm
V280 1	L215 L212	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.03 mm
V201 1	L202 L201	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.02 mm
V279 1	L254 L253	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.02 mm
V283 1	L254 L255	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.01 mm
V278 4	L268 L265	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.01 mm
V282 4	L268 L269	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.01 mm
V249 1	L249 L250	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.00 mm

V248 5	L259 L260	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.01 mm
V252 4	L250 L251	bw = 100.0 cm h = 10.0 cm	Md = 1170 kgf.m/m As = 4.05 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 10.0 cm	As = 4.05 cm ² /m (ø10.0 c/19 - 4.13 cm ² /m) fiss = 0.14 mm
V216 3	L250 L246	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.00 mm
V223 3	L260 L261	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.00 mm
V252 1	L260 L251	bw = 100.0 cm h = 10.0 cm	Md = 1104 kgf.m/m As = 3.81 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 10.0 cm	As = 3.81 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.14 mm
V239 3	L294 L303	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.00 mm
V261 1	L294 L295	bw = 100.0 cm h = 15.0 cm	Md = 1656 kgf.m/m As = 3.25 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 3.25 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.10 mm
V234 6	L294 L285	bw = 100.0 cm h = 15.0 cm	Md = 4590 kgf.m/m As = 9.58 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 9.58 cm ² /m (ø12.5 c/12 - 10.23 cm ² /m) fiss = 0.16 mm
V234 5	L294 L284	bw = 100.0 cm h = 15.0 cm	Md = 3374 kgf.m/m As = 6.89 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 6.89 cm ² /m (ø12.5 c/17 - 7.22 cm ² /m) fiss = 0.17 mm
V239 4	L295 L304	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.00 mm
V265 1	L295 L296	bw = 100.0 cm h = 15.0 cm	Md = 1761 kgf.m/m As = 3.46 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 3.46 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.12 mm
V234 8	L295 L286	bw = 100.0 cm h = 15.0 cm	Md = 2583 kgf.m/m As = 5.29 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 5.29 cm ² /m (ø16.0 c/20 - 10.05 cm ² /m) fiss = 0.07 mm

V234 7	L295 L286	bw = 100.0 cm h = 15.0 cm	Md = 2583 kgf.m/m As = 5.29 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 5.29 cm ² /m (ø16.0 c/20 - 10.05 cm ² /m) fiss = 0.07 mm
V239 5	L296 L305	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.00 mm
V234 10	L296 L287	bw = 100.0 cm h = 15.0 cm	Md = 2789 kgf.m/m As = 5.73 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 5.73 cm ² /m (ø16.0 c/20 - 10.05 cm ² /m) fiss = 0.08 mm
V234 9	L296 L287	bw = 100.0 cm h = 15.0 cm	Md = 2789 kgf.m/m As = 5.73 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 5.73 cm ² /m (ø16.0 c/20 - 10.05 cm ² /m) fiss = 0.08 mm
V235 2	L297 L288	bw = 100.0 cm h = 15.0 cm	Md = 2438 kgf.m/m As = 4.98 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 4.98 cm ² /m (ø16.0 c/20 - 10.05 cm ² /m) fiss = 0.06 mm
V235 1	L297 L288	bw = 100.0 cm h = 15.0 cm	Md = 2438 kgf.m/m As = 4.98 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 4.98 cm ² /m (ø16.0 c/20 - 10.05 cm ² /m) fiss = 0.06 mm
V240 1	L297 L306	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.00 mm
V232 1	L288 L266	bw = 100.0 cm h = 15.0 cm	Md = 1819 kgf.m/m As = 3.58 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 3.58 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.13 mm
V231 7	L287 L278	bw = 100.0 cm h = 10.0 cm	Md = 608 kgf.m/m As = 2.05 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 10.0 cm	As = 2.05 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.02 mm
V265 2	L287 L286	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.02 mm
V231 6	L286 L277	bw = 100.0 cm h = 10.0 cm	Md = 1051 kgf.m/m As = 3.62 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 10.0 cm	As = 3.62 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.13 mm

V261 2	L286 L285	bw = 100.0 cm h = 15.0 cm	Md = 1403 kgf.m/m As = 2.75 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.75 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.07 mm
V223 4	L251 L262	bw = 100.0 cm h = 10.0 cm	Md = 608 kgf.m/m As = 2.05 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 10.0 cm	As = 2.05 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.01 mm
V216 4	L251 L247	bw = 100.0 cm h = 10.0 cm	Md = 608 kgf.m/m As = 2.05 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 10.0 cm	As = 2.05 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.01 mm
V265 3	L277 L275	bw = 100.0 cm h = 10.0 cm	Md = 608 kgf.m/m As = 2.05 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 10.0 cm	As = 2.05 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.01 mm
V261 3	L277 L276	bw = 100.0 cm h = 10.0 cm	Md = 608 kgf.m/m As = 2.05 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 10.0 cm	As = 2.05 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.01 mm
V227 1	L266 L265	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.01 mm
V203 3	L207 L206	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.00 mm
V263 1	L207 L208	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.04 mm
V208 6	L206 L224	bw = 100.0 cm h = 15.0 cm	Md = 4295 kgf.m/m As = 8.92 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 8.92 cm ² /m (ø12.5 c/13 - 9.44 cm ² /m) fiss = 0.16 mm
V262 3	L206 L209	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.05 mm
V208 5	L206 L223	bw = 100.0 cm h = 15.0 cm	Md = 3106 kgf.m/m As = 6.24 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 6.24 cm ² /m (ø10.0 c/12 - 6.54 cm ² /m) fiss = 0.14 mm
V203 4	L208 L209	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.00 mm

V267 1	L208 L210	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.04 mm
V208 8	L209 L225	bw = 100.0 cm h = 15.0 cm	Md = 2363 kgf.m/m As = 4.69 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 4.69 cm ² /m (ø10.0 c/16 - 4.91 cm ² /m) fiss = 0.14 mm
V266 3	L209 L211	bw = 100.0 cm h = 15.0 cm	Md = 3260 kgf.m/m As = 6.76 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 6.76 cm ² /m (ø16.0 c/20 - 10.05 cm ² /m) fiss = 0.11 mm
V266 4	L209 L211	bw = 100.0 cm h = 15.0 cm	Md = 3260 kgf.m/m As = 6.76 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 6.76 cm ² /m (ø16.0 c/20 - 10.05 cm ² /m) fiss = 0.11 mm
V208 7	L209 L225	bw = 100.0 cm h = 15.0 cm	Md = 2363 kgf.m/m As = 4.69 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 4.69 cm ² /m (ø10.0 c/16 - 4.91 cm ² /m) fiss = 0.14 mm
V203 5	L210 L211	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.00 mm
V208 10	L211 L226	bw = 100.0 cm h = 15.0 cm	Md = 1835 kgf.m/m As = 3.61 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 3.61 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.13 mm
V208 9	L211 L226	bw = 100.0 cm h = 15.0 cm	Md = 1835 kgf.m/m As = 3.61 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 3.61 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.13 mm
V204 1	L212 L213	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.00 mm
V209 2	L213 L227	bw = 100.0 cm h = 15.0 cm	Md = 1806 kgf.m/m As = 3.59 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 3.59 cm ² /m (ø12.5 c/20 - 6.14 cm ² /m) fiss = 0.07 mm
V209 1	L213 L227	bw = 100.0 cm h = 15.0 cm	Md = 1806 kgf.m/m As = 3.59 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 3.59 cm ² /m (ø12.5 c/20 - 6.14 cm ² /m) fiss = 0.07 mm
V260 1	L303 L304	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.02 mm

			$A's = 0.00 \text{ cm}^2/\text{m}$		
V264 1	L304 L305	$bw = 100.0 \text{ cm}$ $h = 15.0 \text{ cm}$	$Md = 1368 \text{ kgf.m/m}$ $A_s = 2.68 \text{ cm}^2/\text{m}$ $A's = 0.00 \text{ cm}^2/\text{m}$	$bw = 100.0 \text{ cm}$ $h = 15.0 \text{ cm}$	$A_s = 2.68 \text{ cm}^2/\text{m}$ ($\emptyset 10.0 \text{ c}/20 - 3.93 \text{ cm}^2/\text{m}$) $fiss = 0.04 \text{ mm}$
V220 1	L253 L240	$bw = 100.0 \text{ cm}$ $h = 15.0 \text{ cm}$	$Md = 1368 \text{ kgf.m/m}$ $A_s = 2.68 \text{ cm}^2/\text{m}$ $A's = 0.00 \text{ cm}^2/\text{m}$	$bw = 100.0 \text{ cm}$ $h = 15.0 \text{ cm}$	$A_s = 2.68 \text{ cm}^2/\text{m}$ ($\emptyset 10.0 \text{ c}/20 - 3.93 \text{ cm}^2/\text{m}$) $fiss = 0.01 \text{ mm}$
V262 2	L225 L224	$bw = 100.0 \text{ cm}$ $h = 15.0 \text{ cm}$	$Md = 1411 \text{ kgf.m/m}$ $A_s = 2.76 \text{ cm}^2/\text{m}$ $A's = 0.00 \text{ cm}^2/\text{m}$	$bw = 100.0 \text{ cm}$ $h = 15.0 \text{ cm}$	$A_s = 2.76 \text{ cm}^2/\text{m}$ ($\emptyset 10.0 \text{ c}/20 - 3.93 \text{ cm}^2/\text{m}$) $fiss = 0.08 \text{ mm}$
V211 6	L225 L236	$bw = 100.0 \text{ cm}$ $h = 10.0 \text{ cm}$	$Md = 1079 \text{ kgf.m/m}$ $A_s = 3.72 \text{ cm}^2/\text{m}$ $A's = 0.00 \text{ cm}^2/\text{m}$	$bw = 100.0 \text{ cm}$ $h = 10.0 \text{ cm}$	$A_s = 3.72 \text{ cm}^2/\text{m}$ ($\emptyset 10.0 \text{ c}/20 - 3.93 \text{ cm}^2/\text{m}$) $fiss = 0.13 \text{ mm}$
V266 2	L225 L226	$bw = 100.0 \text{ cm}$ $h = 15.0 \text{ cm}$	$Md = 1368 \text{ kgf.m/m}$ $A_s = 2.68 \text{ cm}^2/\text{m}$ $A's = 0.00 \text{ cm}^2/\text{m}$	$bw = 100.0 \text{ cm}$ $h = 15.0 \text{ cm}$	$A_s = 2.68 \text{ cm}^2/\text{m}$ ($\emptyset 10.0 \text{ c}/20 - 3.93 \text{ cm}^2/\text{m}$) $fiss = 0.04 \text{ mm}$
V266 1	L236 L237	$bw = 100.0 \text{ cm}$ $h = 10.0 \text{ cm}$	$Md = 608 \text{ kgf.m/m}$ $A_s = 2.05 \text{ cm}^2/\text{m}$ $A's = 0.00 \text{ cm}^2/\text{m}$	$bw = 100.0 \text{ cm}$ $h = 10.0 \text{ cm}$	$A_s = 2.05 \text{ cm}^2/\text{m}$ ($\emptyset 10.0 \text{ c}/20 - 3.93 \text{ cm}^2/\text{m}$) $fiss = 0.01 \text{ mm}$
V262 1	L236 L235	$bw = 100.0 \text{ cm}$ $h = 10.0 \text{ cm}$	$Md = 608 \text{ kgf.m/m}$ $A_s = 2.05 \text{ cm}^2/\text{m}$ $A's = 0.00 \text{ cm}^2/\text{m}$	$bw = 100.0 \text{ cm}$ $h = 10.0 \text{ cm}$	$A_s = 2.05 \text{ cm}^2/\text{m}$ ($\emptyset 10.0 \text{ c}/20 - 3.93 \text{ cm}^2/\text{m}$) $fiss = 0.01 \text{ mm}$
V211 7	L226 L238	$bw = 100.0 \text{ cm}$ $h = 10.0 \text{ cm}$	$Md = 608 \text{ kgf.m/m}$ $A_s = 2.05 \text{ cm}^2/\text{m}$ $A's = 0.00 \text{ cm}^2/\text{m}$	$bw = 100.0 \text{ cm}$ $h = 10.0 \text{ cm}$	$A_s = 2.05 \text{ cm}^2/\text{m}$ ($\emptyset 10.0 \text{ c}/20 - 3.93 \text{ cm}^2/\text{m}$) $fiss = 0.04 \text{ mm}$
V251 1	L262 L261	$bw = 100.0 \text{ cm}$ $h = 10.0 \text{ cm}$	$Md = 608 \text{ kgf.m/m}$ $A_s = 2.05 \text{ cm}^2/\text{m}$ $A's = 0.00 \text{ cm}^2/\text{m}$	$bw = 100.0 \text{ cm}$ $h = 10.0 \text{ cm}$	$A_s = 2.05 \text{ cm}^2/\text{m}$ ($\emptyset 10.0 \text{ c}/20 - 3.93 \text{ cm}^2/\text{m}$) $fiss = 0.01 \text{ mm}$
V229 2	L262 L272	$bw = 100.0 \text{ cm}$ $h = 10.0 \text{ cm}$	$Md = 1315 \text{ kgf.m/m}$ $A_s = 4.69 \text{ cm}^2/\text{m}$ $A's = 0.00 \text{ cm}^2/\text{m}$	$bw = 100.0 \text{ cm}$ $h = 10.0 \text{ cm}$	$A_s = 4.69 \text{ cm}^2/\text{m}$ ($\emptyset 12.5 \text{ c}/20 - 6.14 \text{ cm}^2/\text{m}$) $fiss = 0.11 \text{ mm}$
V229 3	L262 L274	$bw = 100.0 \text{ cm}$ $h = 10.0 \text{ cm}$	$Md = 780 \text{ kgf.m/m}$ $A_s = 2.65 \text{ cm}^2/\text{m}$ $A's = 0.00 \text{ cm}^2/\text{m}$	$bw = 100.0 \text{ cm}$ $h = 10.0 \text{ cm}$	$A_s = 2.65 \text{ cm}^2/\text{m}$ ($\emptyset 10.0 \text{ c}/20 - 3.93 \text{ cm}^2/\text{m}$) $fiss = 0.07 \text{ mm}$
V229 1	L261 L272	$bw = 100.0 \text{ cm}$ $h = 15.0 \text{ cm}$	$Md = 1591 \text{ kgf.m/m}$ $A_s = 3.12 \text{ cm}^2/\text{m}$ $A's = 0.00 \text{ cm}^2/\text{m}$	$bw = 100.0 \text{ cm}$ $h = 15.0 \text{ cm}$	$A_s = 3.12 \text{ cm}^2/\text{m}$ ($\emptyset 10.0 \text{ c}/20 - 3.93 \text{ cm}^2/\text{m}$) $fiss = 0.10 \text{ mm}$

V253 1	L247 L246	bw = 100.0 cm h = 10.0 cm	Md = 608 kgf.m/m As = 2.05 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 10.0 cm	As = 2.05 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.01 mm
V214 3	L247 L244	bw = 100.0 cm h = 10.0 cm	Md = 862 kgf.m/m As = 2.94 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 10.0 cm	As = 2.94 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.09 mm
V214 2	L247 L232	bw = 100.0 cm h = 10.0 cm	Md = 1496 kgf.m/m As = 5.38 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 10.0 cm	As = 5.38 cm ² /m (ø12.5 c/20 - 6.14 cm ² /m) fiss = 0.14 mm
V214 1	L246 L232	bw = 100.0 cm h = 15.0 cm	Md = 1790 kgf.m/m As = 3.52 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 3.52 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.12 mm
V212 1	L227 L240	bw = 100.0 cm h = 15.0 cm	Md = 1882 kgf.m/m As = 3.71 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 3.71 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.13 mm
V225 1	L252 L263	bw = 100.0 cm h = 10.0 cm	Md = 1925 kgf.m/m As = 7.10 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 10.0 cm	As = 7.10 cm ² /m (ø12.5 c/17 - 7.22 cm ² /m) fiss = 0.17 mm
V218 1	L252 L245	bw = 100.0 cm h = 10.0 cm	Md = 1947 kgf.m/m As = 7.03 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 10.0 cm	As = 7.03 cm ² /m (ø10.0 c/11 - 7.14 cm ² /m) fiss = 0.14 mm
V296 1	L275 L278	bw = 100.0 cm h = 10.0 cm	Md = 608 kgf.m/m As = 2.05 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 10.0 cm	As = 2.05 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.02 mm
V293 2	L275 L263	bw = 100.0 cm h = 10.0 cm	Md = 608 kgf.m/m As = 2.05 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 10.0 cm	As = 2.05 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.00 mm
V296 2	L263 L264	bw = 100.0 cm h = 10.0 cm	Md = 608 kgf.m/m As = 2.05 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 10.0 cm	As = 2.05 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.02 mm
V293 1	L264 L278	bw = 100.0 cm h = 10.0 cm	Md = 608 kgf.m/m As = 2.05 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 10.0 cm	As = 2.05 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.01 mm
V290 2	L238 L237	bw = 100.0 cm h = 10.0 cm	Md = 608 kgf.m/m As = 2.05 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 10.0 cm	As = 2.05 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.02 mm

V291 2	L238 L239	bw = 100.0 cm h = 10.0 cm	Md = 608 kgf.m/m As = 2.05 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 10.0 cm	As = 2.05 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.01 mm
V291 1	L237 L245	bw = 100.0 cm h = 10.0 cm	Md = 608 kgf.m/m As = 2.05 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 10.0 cm	As = 2.05 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.00 mm
V290 1	L245 L239	bw = 100.0 cm h = 10.0 cm	Md = 608 kgf.m/m As = 2.05 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 10.0 cm	As = 2.05 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.02 mm
V289 1	L222 L221	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.01 mm
V211 3	L222 L234	bw = 100.0 cm h = 10.0 cm	Md = 855 kgf.m/m As = 2.92 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 10.0 cm	As = 2.92 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.08 mm
V258 1	L222 L223	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.01 mm
V211 2	L221 L232	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.04 mm
V289 3	L244 L235	bw = 100.0 cm h = 10.0 cm	Md = 608 kgf.m/m As = 2.05 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 10.0 cm	As = 2.05 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.00 mm
V292 1	L244 L233	bw = 100.0 cm h = 10.0 cm	Md = 608 kgf.m/m As = 2.05 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 10.0 cm	As = 2.05 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.01 mm
V292 2	L235 L234	bw = 100.0 cm h = 10.0 cm	Md = 608 kgf.m/m As = 2.05 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 10.0 cm	As = 2.05 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.00 mm
V211 5	L235 L224	bw = 100.0 cm h = 10.0 cm	Md = 994 kgf.m/m As = 3.42 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 10.0 cm	As = 3.42 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.11 mm
V292 3	L223 L224	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.00 mm

V211 4	L223 L234	bw = 100.0 cm h = 10.0 cm	Md = 820 kgf.m/m As = 2.80 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 10.0 cm	As = 2.80 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.08 mm
V231 5	L285 L276	bw = 100.0 cm h = 10.0 cm	Md = 991 kgf.m/m As = 3.40 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 10.0 cm	As = 3.40 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.11 mm
V297 1	L285 L284	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.00 mm
V231 4	L284 L279	bw = 100.0 cm h = 10.0 cm	Md = 608 kgf.m/m As = 2.05 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 10.0 cm	As = 2.05 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.04 mm
V257 2	L284 L283	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.03 mm
V297 2	L279 L276	bw = 100.0 cm h = 10.0 cm	Md = 608 kgf.m/m As = 2.05 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 10.0 cm	As = 2.05 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.00 mm
V298 2	L279 L273	bw = 100.0 cm h = 10.0 cm	Md = 608 kgf.m/m As = 2.05 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 10.0 cm	As = 2.05 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.00 mm
V231 3	L279 L283	bw = 100.0 cm h = 10.0 cm	Md = 608 kgf.m/m As = 2.05 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 10.0 cm	As = 2.05 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.03 mm
V298 3	L276 L274	bw = 100.0 cm h = 10.0 cm	Md = 608 kgf.m/m As = 2.05 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 10.0 cm	As = 2.05 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.00 mm
V297 3	L274 L273	bw = 100.0 cm h = 10.0 cm	Md = 608 kgf.m/m As = 2.05 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 10.0 cm	As = 2.05 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.01 mm
V298 1	L282 L283	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.01 mm
V231 2	L282 L272	bw = 100.0 cm h = 15.0 cm	Md = 1368 kgf.m/m As = 2.68 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 15.0 cm	As = 2.68 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.03 mm

V254 1	L272 L273	bw = 100.0 cm h = 10.0 cm	Md = 608 kgf.m/m As = 2.05 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 10.0 cm	As = 2.05 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.03 mm
V289 2	L234 L233	bw = 100.0 cm h = 10.0 cm	Md = 608 kgf.m/m As = 2.05 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 10.0 cm	As = 2.05 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.00 mm
V255 1	L233 L232	bw = 100.0 cm h = 10.0 cm	Md = 608 kgf.m/m As = 2.05 cm ² /m A's = 0.00 cm ² /m	bw = 100.0 cm h = 10.0 cm	As = 2.05 cm ² /m (ø10.0 c/20 - 3.93 cm ² /m) fiss = 0.02 mm

18. Pavimento PLATIBANDA NV-770

19. Cálculo dos Pilares

PLATIBANDA NV-770	fck = 400.00 kgf/cm ²	E = 318758 kgf/cm ²	Peso Espec = 2500.00 kgf/m ³
Lance 4		cobr = 3.00 cm	

Pilar	Seção (cm)	vínc esb B vínc esb H	Nd máx Nd mín (tf)	Msd(x) Msd(y) (kgf.m)	Mrd(x) Mrd(y) (kgf.m)	Mrd/Msd	As b As h (cm ²)
P39	20.00 X 40.00	EL 29.41 EL 14.71	0.34 0.00	50 0	2495 1	(*) 50.23	2.45 (2 ø 12.5) 3.68 (3 ø 12.5)
P42	20.00 X 40.00	EL 15.57 EL 7.78	0.34 0.00	34 9	3723 1022	(*) 110.62	6.28 (2 ø 20.0) 6.28 (2 ø 20.0)
P43	15.00 X 50.00	EL 20.76 EL 6.23	0.38 0.00	40 11	1769 503	(*) 43.74	2.45 (2 ø 12.5) 3.68 (3 ø 12.5)
P58	20.00 X 40.00	EL 15.57 EL 7.78	0.34 0.00	34 9	2993 821	(*) 88.88	1.57 (2 ø 10.0) 4.71 (6 ø 10.0)
P64	60.00 X 60.00	EL 14.99 EL 14.99	1.65 0.07	106 6554	694 42896	(*) 6.54	12.57 (4 ø 20.0) 12.57 (4 ø 20.0)
P65	20.00 X 30.00	RR 22.49 EL 29.99	0.44 0.14	35 915	251 6533	(*) 7.14	2.45 (2 ø 12.5) 7.36 (6 ø 12.5)
P76	60.00 X 60.00	RR 18.74 EL 37.48	1.59 0.01	63 6346	426 42934	(*) 6.77	12.57 (4 ø 20.0) 12.57 (4 ø 20.0)

P77	15.00 X 60.00	RR 29.99 EL 14.99	0.69 0.18	1222 94	2777 212	(*) 2.27	4.02 (2 ø 16.0) 6.03 (3 ø 16.0)
P82	20.00 X 40.00	EL 15.57 EL 7.78	0.34 0.00	34 9	2562 703	(*) 76.11	1.57 (2 ø 10.0) 3.93 (5 ø 10.0)
P99	20.00 X 40.00	EL 15.57 EL 7.78	0.34 0.00	48 0	2174 1	(*) 45.69	1.57 (2 ø 10.0) 3.14 (4 ø 10.0)
P102	20.00 X 40.00	EL 15.57 EL 7.78	0.34 0.00	34 9	3086 847	(*) 91.67	3.68 (3 ø 12.5) 3.68 (3 ø 12.5)
P103	15.00 X 50.00	EL 20.76 EL 6.23	0.38 0.00	42 0	1274 1	(*) 30.41	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P137	20.00 X 40.00	EL 15.57 EL 7.78	0.34 0.00	35 0	1685 1	(*) 48.63	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P138	20.00 X 40.00	EL 15.57 EL 7.78	0.34 0.00	35 0	1686 1	(*) 48.66	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P145	20.00 X 40.00	EL 15.57 EL 7.78	0.34 0.00	35 0	1686 1	(*) 48.63	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P146	20.00 X 40.00	EL 15.57 EL 7.78	0.34 0.00	35 0	1686 1	(*) 48.67	1.57 (2 ø 10.0) 2.36 (3 ø 10.0)
P152	15.00 X 30.00	RR 29.99 RR 14.99	1.05 0.60	616 664	775 835	1.26	1.57 (2 ø 10.0) 1.57 (2 ø 10.0)
P153	15.00 X 30.00	EL 59.97 RR 14.99	0.26 0.00	7 316	40 1718	5.43	1.57 (2 ø 10.0) 1.57 (2 ø 10.0)
P154	15.00 X 30.00	EL 59.97 RR 14.99	1.01 0.58	144 69	827 398	5.74	1.57 (2 ø 10.0) 1.57 (2 ø 10.0)
P155	15.00 X 30.00	EL 59.97 RR 14.99	0.19 -0.06	2 256	16 1713	6.68	1.57 (2 ø 10.0) 1.57 (2 ø 10.0)
P156	15.00 X 30.00	EL 59.97 RR 14.99	0.89 0.49	15 829	32 1797	2.17	1.57 (2 ø 10.0) 1.57 (2 ø 10.0)
P157	15.00 X 30.00	EL 59.97 RR 14.99	0.29 0.04	3 390	14 1726	4.42	1.57 (2 ø 10.0) 1.57 (2 ø 10.0)

P158	15.00 X 30.00	EL 59.97 RR 14.99	0.72 0.37	18 990	32 1777	1.80	1.57 (2 ø 10.0) 1.57 (2 ø 10.0)
P159	15.00 X 30.00	EL 59.97 RR 14.99	0.55 0.24	11 1150	17 1758	1.53	1.57 (2 ø 10.0) 1.57 (2 ø 10.0)
P160	15.00 X 30.00	EL 59.97 RR 14.99	0.39 0.12	3 298	20 1738	5.84	1.57 (2 ø 10.0) 1.57 (2 ø 10.0)
P161	15.00 X 30.00	EL 59.97 RR 14.99	0.78 0.41	5 1003	10 1787	1.78	1.57 (2 ø 10.0) 1.57 (2 ø 10.0)
P162	15.00 X 30.00	EL 59.97 RR 14.99	0.18 -0.07	1 139	12 1713	12.34	1.57 (2 ø 10.0) 1.57 (2 ø 10.0)
P163	15.00 X 30.00	EL 59.97 RR 14.99	0.58 0.25	59 905	114 1747	1.93	1.57 (2 ø 10.0) 1.57 (2 ø 10.0)
P164	15.00 X 30.00	EL 59.97 RR 14.99	0.60 0.27	7 1118	11 1766	1.58	1.57 (2 ø 10.0) 1.57 (2 ø 10.0)
P165	15.00 X 30.00	EL 59.97 RR 14.99	0.23 -0.02	1 107	11 1719	16.01	1.57 (2 ø 10.0) 1.57 (2 ø 10.0)
P166	15.00 X 30.00	EL 59.97 RR 14.99	0.90 0.50	150 113	796 600	5.30	1.57 (2 ø 10.0) 1.57 (2 ø 10.0)
P167	15.00 X 30.00	EL 59.97 RR 14.99	0.26 0.01	4 264	26 1720	6.51	1.57 (2 ø 10.0) 1.57 (2 ø 10.0)
P168	15.00 X 30.00	EL 59.97 RR 14.99	0.87 0.48	19 532	64 1790	3.37	1.57 (2 ø 10.0) 1.57 (2 ø 10.0)
P169	15.00 X 30.00	EL 59.97 RR 14.99	0.33 0.07	7 601	19 1731	2.88	1.57 (2 ø 10.0) 1.57 (2 ø 10.0)
P170	15.00 X 30.00	EL 59.97 RR 14.99	0.08 -0.19	9 862	17 1697	1.97	1.57 (2 ø 10.0) 1.57 (2 ø 10.0)
P171	15.00 X 30.00	RR 29.99 RR 14.99	1.24 0.72	372 602	738 1195	1.98	1.57 (2 ø 10.0) 1.57 (2 ø 10.0)
P172	15.00 X 30.00	EL 59.97 RR 14.99	0.24 -0.02	8 951	15 1719	1.81	1.57 (2 ø 10.0) 1.57 (2 ø 10.0)

	CINNANTI Arquitetura & Engenharia	
	CINNANTI ARQUITETURA E ENGENHARIA LTDA SECRETARIA DE ESTADO DE EDUCAÇÃO DO DISTRITO FEDERAL SEEDF	29/12/2022

P173	15.00 X 30.00	EL 59.97 RR 14.99	0.26 0.00	1 943	2 1723	1.83	1.57 (2 ø 10.0) 1.57 (2 ø 10.0)
P174	15.00 X 30.00	EL 59.97 RR 14.99	0.40 0.12	28 1482	33 1737	1.17	1.57 (2 ø 10.0) 1.57 (2 ø 10.0)
P175	15.00 X 30.00	EL 59.97 RR 14.99	0.32 0.06	8 1465	9 1730	1.18	1.57 (2 ø 10.0) 1.57 (2 ø 10.0)
P176	15.00 X 30.00	EL 59.97 RR 14.99	1.05 0.60	37 625	107 1803	2.89	1.57 (2 ø 10.0) 1.57 (2 ø 10.0)
P177	15.00 X 30.00	EL 59.97 RR 14.99	0.98 0.55	49 761	116 1793	2.36	1.57 (2 ø 10.0) 1.57 (2 ø 10.0)
P178	15.00 X 30.00	EL 59.97 RR 14.99	0.43 0.15	5 1245	6 1746	1.40	1.57 (2 ø 10.0) 1.57 (2 ø 10.0)
P179	15.00 X 30.00	EL 59.97 RR 14.99	0.69 0.34	19 1704	19 1775	1.04	1.57 (2 ø 10.0) 1.57 (2 ø 10.0)
P180	15.00 X 30.00	EL 59.97 RR 14.99	0.12 -0.15	1 700	3 1705	2.44	1.57 (2 ø 10.0) 1.57 (2 ø 10.0)
P181	15.00 X 30.00	EL 59.97 RR 14.99	0.12 -0.15	2 106	32 1701	16.08	1.57 (2 ø 10.0) 1.57 (2 ø 10.0)
P182	15.00 X 30.00	EL 59.97 RR 14.99	0.86 0.47	53 2223	62 2571	1.16	2.36 (3 ø 10.0) 1.57 (2 ø 10.0)
P183	15.00 X 30.00	EL 59.97 RR 14.99	0.76 0.40	1 1714	1 1787	1.04	1.57 (2 ø 10.0) 1.57 (2 ø 10.0)
P184	15.00 X 30.00	RR 29.99 RR 14.99	0.91 0.48	695 822	759 897	1.09	1.57 (2 ø 10.0) 1.57 (2 ø 10.0)
P185	15.00 X 30.00	EL 59.97 RR 14.99	0.28 0.02	16 468	60 1718	3.67	1.57 (2 ø 10.0) 1.57 (2 ø 10.0)
P186	15.00 X 30.00	EL 59.97 RR 14.99	0.82 0.42	9 852	18 1789	2.10	1.57 (2 ø 10.0) 1.57 (2 ø 10.0)
P187	15.00 X 30.00	RR 29.99 RR 14.99	0.54 0.22	409 490	741 886	1.81	1.57 (2 ø 10.0) 1.57 (2 ø 10.0)

P188	15.00 X 30.00	EL 59.97 RR 14.99	0.38 0.10	48 816	101 1724	2.11	1.57 (2 ø 10.0) 1.57 (2 ø 10.0)
P189	15.00 X 30.00	EL 59.97 RR 14.99	0.85 0.46	53 761	124 1779	2.34	1.57 (2 ø 10.0) 1.57 (2 ø 10.0)
P190	15.00 X 30.00	EL 59.97 RR 14.99	0.37 0.10	45 47	745 781	16.65	1.57 (2 ø 10.0) 1.57 (2 ø 10.0)
P191	15.00 X 30.00	EL 59.97 RR 14.99	0.89 0.48	37 472	140 1780	3.77	1.57 (2 ø 10.0) 1.57 (2 ø 10.0)
P192	15.00 X 30.00	EL 59.97 RR 14.99	0.38 0.10	2 1656	2 1738	1.05	1.57 (2 ø 10.0) 1.57 (2 ø 10.0)
P193	15.00 X 30.00	RR 29.99 RR 14.99	0.82 0.41	476 739	725 1126	1.52	1.57 (2 ø 10.0) 1.57 (2 ø 10.0)
P194	15.00 X 30.00	EL 59.97 RR 14.99	0.67 0.33	73 34	812 377	11.09	1.57 (2 ø 10.0) 1.57 (2 ø 10.0)
P195	15.00 X 30.00	EL 59.97 RR 14.99	0.00 -0.40	33 69	644 1365	19.74	1.57 (2 ø 10.0) 1.57 (2 ø 10.0)
P196	15.00 X 30.00	EL 59.97 RR 14.99	0.17 -0.08	77 1	828 11	10.72	1.57 (2 ø 10.0) 1.57 (2 ø 10.0)
P197	15.00 X 30.00	EL 59.97 RR 14.99	0.43 0.15	134 224	700 1169	5.22	1.57 (2 ø 10.0) 1.57 (2 ø 10.0)
P198	15.00 X 30.00	EL 59.97 RR 14.99	0.00 -0.41	2 75	40 1668	22.34	1.57 (2 ø 10.0) 1.57 (2 ø 10.0)
P199	15.00 X 30.00	EL 59.97 RR 14.99	0.66 0.32	64 6	848 78	13.34	1.57 (2 ø 10.0) 1.57 (2 ø 10.0)
P200	15.00 X 30.00	RR 29.99 RR 14.99	0.90 0.48	697 835	757 907	1.09	1.57 (2 ø 10.0) 1.57 (2 ø 10.0)
P201	15.00 X 30.00	EL 59.97 RR 14.99	0.28 0.02	17 453	63 1718	3.79	1.57 (2 ø 10.0) 1.57 (2 ø 10.0)
P202	15.00 X 30.00	EL 59.97 RR 14.99	0.81 0.42	53 844	111 1775	2.10	1.57 (2 ø 10.0) 1.57 (2 ø 10.0)

P203	15.00 X 30.00	RR 29.99 RR 14.99	0.54 0.22	390 495	735 932	1.88	1.57 (2 ø 10.0) 1.57 (2 ø 10.0)
P204	15.00 X 30.00	EL 59.97 RR 14.99	0.30 0.03	32 1427	39 1722	1.21	1.57 (2 ø 10.0) 1.57 (2 ø 10.0)
P205	15.00 X 30.00	EL 59.97 RR 14.99	0.83 0.44	80 1085	130 1776	1.64	1.57 (2 ø 10.0) 1.57 (2 ø 10.0)
P206	15.00 X 30.00	EL 59.97 RR 14.99	0.45 0.16	27 134	336 1698	12.66	1.57 (2 ø 10.0) 1.57 (2 ø 10.0)
P207	15.00 X 30.00	EL 59.97 RR 14.99	0.86 0.45	153 169	763 844	4.98	1.57 (2 ø 10.0) 1.57 (2 ø 10.0)
P208	15.00 X 30.00	EL 59.97 RR 14.99	0.43 0.14	8 1933	10 2526	1.31	2.36 (3 ø 10.0) 1.57 (2 ø 10.0)
P209	15.00 X 30.00	RR 29.99 RR 14.99	0.78 0.38	265 751	576 1629	2.17	1.57 (2 ø 10.0) 1.57 (2 ø 10.0)
P210	15.00 X 30.00	EL 59.97 RR 14.99	0.76 0.40	1 1753	1 1786	1.02	1.57 (2 ø 10.0) 1.57 (2 ø 10.0)
P211	15.00 X 30.00	EL 59.97 RR 14.99	0.76 0.40	2 1717	2 1786	1.04	1.57 (2 ø 10.0) 1.57 (2 ø 10.0)
P212	15.00 X 30.00	EL 59.97 RR 14.99	0.11 -0.16	1 78	12 1702	21.80	1.57 (2 ø 10.0) 1.57 (2 ø 10.0)
P213	15.00 X 30.00	EL 59.97 RR 14.99	0.12 -0.15	2 103	31 1701	16.51	1.57 (2 ø 10.0) 1.57 (2 ø 10.0)
P214	15.00 X 30.00	EL 59.97 RR 14.99	0.81 0.44	0 1626	0 1792	1.10	1.57 (2 ø 10.0) 1.57 (2 ø 10.0)
P215	15.00 X 30.00	EL 59.97 RR 14.99	0.69 0.34	19 1709	20 1774	1.04	1.57 (2 ø 10.0) 1.57 (2 ø 10.0)
P216	15.00 X 30.00	EL 59.97 RR 14.99	0.88 0.47	0 1528	0 1799	1.18	1.57 (2 ø 10.0) 1.57 (2 ø 10.0)
P217	15.00 X 30.00	EL 59.97 RR 14.99	0.99 0.55	49 736	119 1793	2.44	1.57 (2 ø 10.0) 1.57 (2 ø 10.0)

P218	15.00 X 30.00	EL 59.97 RR 14.99	0.27 0.02	1 1301	1 1725	1.33	1.57 (2 ø 10.0) 1.57 (2 ø 10.0)
P219	15.00 X 30.00	EL 59.97 RR 14.99	0.32 0.06	8 1467	9 1730	1.18	1.57 (2 ø 10.0) 1.57 (2 ø 10.0)
P220	15.00 X 30.00	EL 59.97 RR 14.99	0.25 -0.01	5 1179	7 1722	1.46	1.57 (2 ø 10.0) 1.57 (2 ø 10.0)
P221	15.00 X 30.00	EL 59.97 RR 14.99	0.26 0.00	0 941	1 1724	1.83	1.57 (2 ø 10.0) 1.57 (2 ø 10.0)
P222	15.00 X 30.00	RR 29.99 RR 14.99	1.06 0.61	575 838	744 1084	1.29	1.57 (2 ø 10.0) 1.57 (2 ø 10.0)
P223	15.00 X 30.00	EL 59.97 RR 14.99	0.26 0.00	8 528	27 1718	3.26	1.57 (2 ø 10.0) 1.57 (2 ø 10.0)
P224	15.00 X 30.00	EL 59.97 RR 14.99	1.01 0.57	162 341	693 1459	4.28	1.57 (2 ø 10.0) 1.57 (2 ø 10.0)
P225	15.00 X 30.00	EL 59.97 RR 14.99	0.26 0.01	4 279	26 1720	6.17	1.57 (2 ø 10.0) 1.57 (2 ø 10.0)
P226	15.00 X 30.00	EL 59.97 RR 14.99	0.87 0.47	4 499	14 1796	3.60	1.57 (2 ø 10.0) 1.57 (2 ø 10.0)
P227	15.00 X 30.00	EL 59.97 RR 14.99	0.31 0.05	0 558	0 1730	3.10	1.57 (2 ø 10.0) 1.57 (2 ø 10.0)
P228	15.00 X 30.00	EL 59.97 RR 14.99	0.69 0.35	1 804	2 1778	2.21	1.57 (2 ø 10.0) 1.57 (2 ø 10.0)
P229	15.00 X 30.00	EL 59.97 RR 14.99	0.53 0.23	1 1092	2 1758	1.61	1.57 (2 ø 10.0) 1.57 (2 ø 10.0)
P230	15.00 X 30.00	EL 59.97 RR 14.99	0.40 0.12	2 405	7 1741	4.30	1.57 (2 ø 10.0) 1.57 (2 ø 10.0)
P231	15.00 X 30.00	EL 59.97 RR 14.99	0.79 0.42	6 1023	11 1788	1.75	1.57 (2 ø 10.0) 1.57 (2 ø 10.0)
P232	15.00 X 30.00	EL 59.97 RR 14.99	0.17 -0.09	0 172	3 1712	9.94	1.57 (2 ø 10.0) 1.57 (2 ø 10.0)

P233	15.00 X 30.00	EL 59.97 RR 14.99	0.60 0.26	63 966	115 1749	1.81	1.57 (2 ø 10.0) 1.57 (2 ø 10.0)
P234	15.00 X 30.00	EL 59.97 RR 14.99	0.59 0.26	9 1085	15 1764	1.63	1.57 (2 ø 10.0) 1.57 (2 ø 10.0)
P235	15.00 X 30.00	EL 59.97 RR 14.99	0.23 -0.02	1 46	36 1715	37.25	1.57 (2 ø 10.0) 1.57 (2 ø 10.0)
P236	15.00 X 30.00	EL 59.97 RR 14.99	0.91 0.51	154 119	794 615	5.17	1.57 (2 ø 10.0) 1.57 (2 ø 10.0)
P237	15.00 X 30.00	EL 59.97 RR 14.99	0.26 0.01	4 269	28 1720	6.41	1.57 (2 ø 10.0) 1.57 (2 ø 10.0)
P238	15.00 X 30.00	EL 59.97 RR 14.99	0.88 0.49	18 511	64 1791	3.51	1.57 (2 ø 10.0) 1.57 (2 ø 10.0)
P239	15.00 X 30.00	EL 59.97 RR 14.99	0.33 0.07	6 643	17 1731	2.69	1.57 (2 ø 10.0) 1.57 (2 ø 10.0)
P240	15.00 X 30.00	EL 59.97 RR 14.99	0.08 -0.18	8 830	17 1698	2.05	1.57 (2 ø 10.0) 1.57 (2 ø 10.0)
P241	15.00 X 30.00	RR 29.99 RR 14.99	1.23 0.71	361 591	736 1207	2.04	1.57 (2 ø 10.0) 1.57 (2 ø 10.0)

(*) Quantidade de barras alterada pelo usuário (para mais)

20. Vigas do pavimento PLATIBANDA NV-770

Viga	Vãos			Nós			Avisos
	Md (kgf.m)	As	Als	Md (kgf.m)	As	Als	
V301	224.48	2 ø 10.0		-316.37	2 ø 10.0		
	190.29	2 ø 10.0		-354.66	2 ø 10.0		
	124.03	2 ø 10.0		-284.15	2 ø 10.0	2 ø 10.0	
	55.93	2 ø 10.0	2 ø 10.0	-231.63	2 ø 10.0	2 ø 10.0	
	75.16	2 ø 10.0	2 ø 10.0	-16.67	2 ø 10.0	2 ø 10.0	
	162.66	2 ø 10.0		-212.46	2 ø 10.0	2 ø 10.0	
				-0.04	2 ø 10.0	2 ø 10.0	
V302	174.62	2 ø 10.0		-264.00	2 ø 10.0		
	149.61	2 ø 10.0		-257.13	2 ø 10.0		
	240.40	2 ø 10.0		-320.15	2 ø 10.0		
				-270.69	2 ø 10.0		
V303	134.78	2 ø 10.0		-262.52	2 ø 10.0		
	73.53	2 ø 10.0	2 ø 10.0	-148.27	2 ø 10.0		
V304				-236.16	2 ø 10.0		
	191.85	2 ø 10.0		-231.37	2 ø 10.0		
	82.83	2 ø 10.0	2 ø 10.0	-267.92	2 ø 10.0	2 ø 10.0	
	190.85	2 ø 10.0	2 ø 10.0	-27.12	2 ø 10.0		
				-48.22	2 ø 10.0		
V305	132.01	2 ø 10.0		-323.03	2 ø 10.0		
	71.69	2 ø 10.0	2 ø 10.0	-291.69	2 ø 10.0	2 ø 10.0	
V306				-82.45	2 ø 10.0	2 ø 10.0	
	234.54	2 ø 10.0	2 ø 10.0	-123.11	2 ø 10.0	2 ø 10.0	
	38.75	2 ø 10.0	2 ø 10.0	-232.44	2 ø 10.0		
	60.07	2 ø 10.0	2 ø 10.0	-265.21	2 ø 10.0	2 ø 10.0	
	188.62	2 ø 10.0	2 ø 10.0	-163.89	2 ø 10.0		
				-29.50	2 ø 10.0	2 ø 10.0	
V307				-357.26	2 ø 10.0	2 ø 10.0	
	254.61	2 ø 10.0	2 ø 10.0	-37.13	2 ø 10.0	2 ø 10.0	
	151.72	2 ø 10.0	2 ø 10.0	-290.78	2 ø 10.0	2 ø 10.0	
	145.91	2 ø 10.0	2 ø 10.0	-140.08	2 ø 10.0	2 ø 10.0	
	59.49	2 ø 10.0	2 ø 10.0	-65.65	2 ø 10.0	2 ø 10.0	
	180.64	2 ø 10.0	2 ø 10.0	-287.63	2 ø 10.0	2 ø 10.0	
V308				-384.65	2 ø 10.0		
	161.58	2 ø 10.0	2 ø 10.0	-260.61	2 ø 10.0	2 ø 10.0	
	149.48	2 ø 10.0	2 ø 10.0	-188.94	2 ø 10.0	2 ø 10.0	
	233.46	2 ø 10.0	2 ø 10.0	-198.03	2 ø 10.0	2 ø 10.0	
				-266.50	2 ø 10.0	2 ø 10.0	
V309				-275.38	2 ø 10.0		
	337.83	2 ø 10.0		-307.22	2 ø 10.0		
	46.36	2 ø 10.0		-273.24	2 ø 10.0		
	231.55	2 ø 10.0	2 ø 10.0	-270.81	2 ø 10.0		
	48.63	2 ø 10.0	2 ø 10.0	-3.89	2 ø 10.0		
	56.74	2 ø 10.0	2 ø 10.0	-139.99	2 ø 10.0		
	361.27	2 ø 10.0	2 ø 10.0	-229.96	2 ø 10.0		
	299.25	2 ø 10.0	2 ø 10.0	-478.72	2 ø 10.0	2 ø 10.0	
			-42.69	2 ø 10.0	2 ø 10.0		
			-108.98	2 ø 10.0			
			-461.26	2 ø 10.0	2 ø 10.0		
			-355.84	2 ø 10.0	2 ø 10.0		
			-374.47	2 ø 10.0	2 ø 10.0		
			-136.13	2 ø 10.0	2 ø 10.0		
			-506.33	2 ø 10.0	2 ø 10.0		

	CINNANTI ARQUITETURA E ENGENHARIA LTDA	
	SECRETARIA DE ESTADO DE EDUCAÇÃO DO DISTRITO FEDERAL SEEDF	29/12/2022

				-200.96 -352.17 -169.23 -439.34	2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0		
V310	157.48	2 ø 10.0		-200.56 -201.99	2 ø 10.0 2 ø 10.0		
V311	59.28	2 ø 10.0		-100.22 -100.10	2 ø 10.0 2 ø 10.0		
V312	15.99 14.78	2 ø 10.0 2 ø 10.0	2 ø 10.0 2 ø 10.0	-18.49 -71.23 -70.11	2 ø 10.0 2 ø 10.0 2 ø 10.0	2 ø 10.0 2 ø 10.0 2 ø 10.0	
V314	3.44	2 ø 10.0		-0.48 -59.02	2 ø 10.0 2 ø 10.0		Aviso 02
V315	160.98	2 ø 10.0		-203.08 -200.85	2 ø 10.0 2 ø 10.0		
V316	321.43 79.13 231.09 49.80 48.24 231.93 76.01 322.71	2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0	2 ø 10.0 2 ø 10.0 2 ø 10.0	-420.36 -0.07 -159.57 -445.98 -343.86 -372.88 -124.80 -373.94 -343.37 -447.52 -158.70 -0.25 -422.65	2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0	2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0 2 ø 10.0	Aviso 26