MEMÓRIA DE CÁLCULO DE ESTRUTURA DE CONCRETO ARMADO – CEPI ADE ÁGUAS CLARAS PRÉDIO PRINCIPAL

Autor do Projeto: Eng. Civil Dalmo Blanco Cinnanti

CREA: 7962/D-DF

R00	30/10/2022	VERSÃO INICIAL	DALMO B.CINNANTI
REVISÃO	DATA	DESCRIÇÃO	RESPONSÁVEL
Nome do projeto		MEMÓRIA DE CÁLCULO – ESTRUTURA DE CONCRETO ARMADO – CEPI ÁGUAS CLARAS	
Número do projeto		**314-SEEDF-CEPI ÁGUAS CLARAS-MEM-EST-R00**	
Local		***CONJUNTO 31 LOTE 01 – ADE ÁGUAS CLARAS / DF***	

SUMÁRIO

Resumo de resultados

Cargas verticais:

Peso próprio = 2428.85 tf

Adicional = 1004.07 tf

Acidental = 741.86 tf

Total = 4174.78 tf

Área aproximada = 3743.95 m²

Relação = 1115.07 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)

Análise de 2ª ordem:

Processo P-Delta

Deslocamentos no topo da edificação:

Acidental: 0.02 »» 0.02 (+2.86%)

Vento X+: 0.16 »» 0.17 (+5.30%)

Vento X-: 0.16 »» 0.17 (+5.30%)

Vento Y+: 0.12 »» 0.12 (+2.29%)

Vento Y-: 0.12 »» 0.12 (+2.29%)

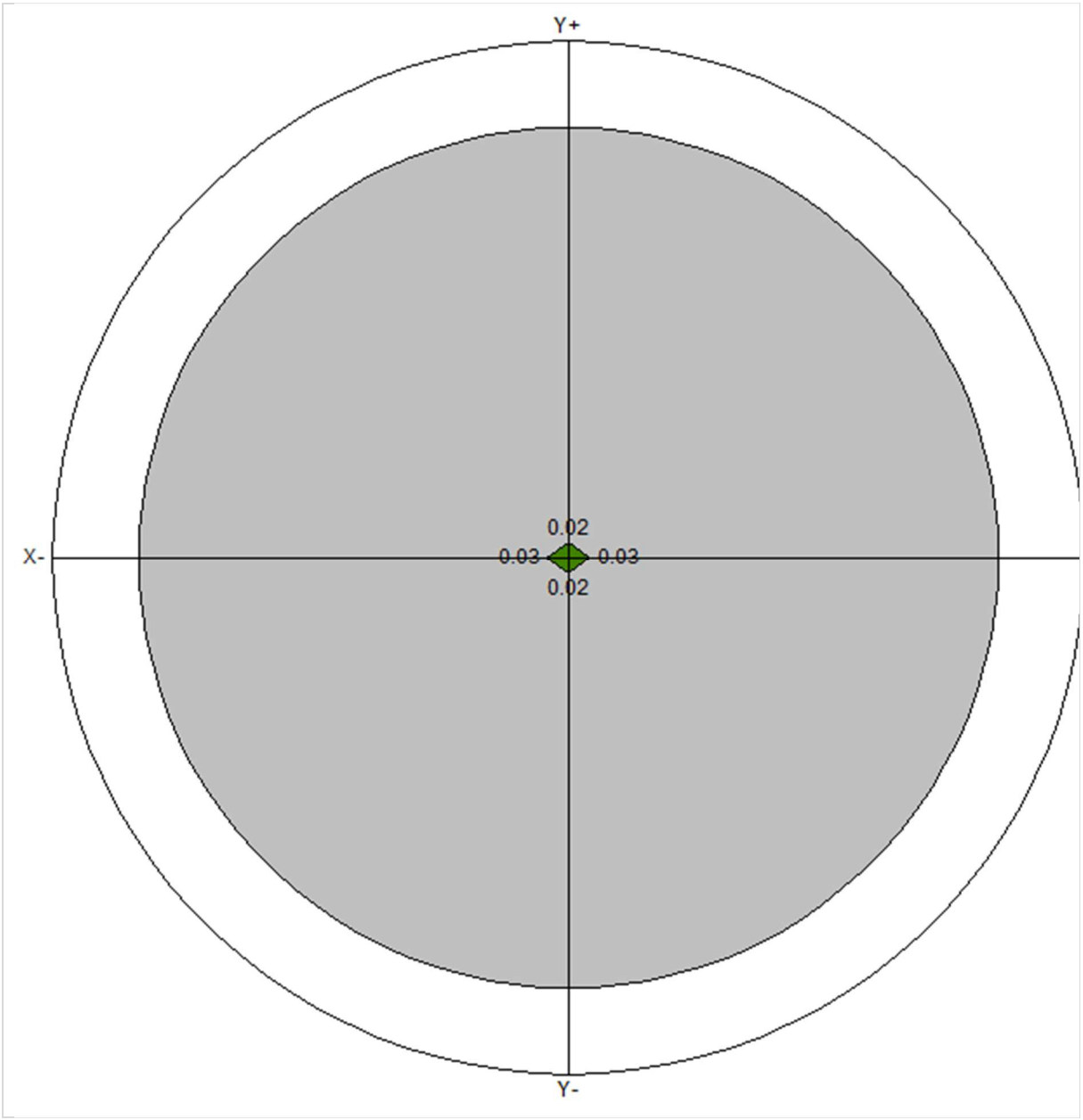
Desaprumo X+: 0.08 »» 0.09 (+5.98%)

Desaprumo X-: 0.08 »» 0.09 (+5.98%)

Desaprumo Y+: 0.04 »» 0.04 (+2.60%)

Desaprumo Y-: 0.04 »» 0.04 (+2.60%)

Deslocamentos Horizontais Devido à Ação do Vento



Verificações	X+	X-	Y+	Y-

Altura total da edificação (cm)	885.00			
Deslocamento limite (cm)	0.52			
Deslocamento característico (cm)	0.09	-0.09	0.06	-0.06
gf2	0.30	0.30	0.30	0.30
Deslocamento combinações frequentes (cm)	0.03	-0.03	0.02	-0.02

Pavimento	Altura (cm)	Deslocamento combinações frequentes (cm)				Diferença (cm)				Limite (cm)
		X+	X-	Y+	Y-	X+	X-	Y+	Y-	
PLATIBANDA NV-770	130.00	0.03	-0.03	0.02	-0.02	0.00	0.00	0.00	0.00	0.15
SUPERIOR NV-640	325.00	0.02	-0.02	0.01	-0.01	0.01	-0.01	0.01	-0.01	0.38
TÉRREO NV-320	330.00	0.01	-0.01	0.01	-0.01	0.01	-0.01	0.01	-0.01	0.39
NV-000	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12

Análise da Não Linearidade Geométrica pelo Processo P-Delta

Acidental								
Pavimento	Deslocamentos horizontais médios (cm)				Esforço aplicado (tf)			
	1a. ordem		1a. + 2a. ordem		1a. ordem		1a. + 2a. ordem	
	Eixo X	Eixo Y	Eixo X	Eixo Y	Eixo X	Eixo Y	Eixo X	Eixo Y
PLATIBANDA NV-770	-0.02	0.01	-0.02	0.01	0.00	0.00	0.00	0.00
SUPERIOR NV-640	-0.02	0.00	-0.02	0.00	0.00	0.00	-0.09	0.01
TÉRREO NV-320	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.10
NV-000	0.00	0.00	0.00	0.00	0.00	0.00	0.04	-0.02

Variação no deslocamento do topo da edificação: 2.86%

Vento X+								
Pavimento	Deslocamentos horizontais médios (cm)				Esforço aplicado (tf)			
	1a. ordem		1a. + 2a. ordem		1a. ordem		1a. + 2a. ordem	
	Eixo X	Eixo Y	Eixo X	Eixo Y	Eixo X	Eixo Y	Eixo X	Eixo Y
PLATIBANDA NV-770	0.16	0.00	0.17	0.00	1.90	0.00	1.92	0.00
SUPERIOR NV-640	0.11	0.00	0.11	0.00	6.40	0.00	6.68	0.00
TÉRREO NV-320	0.06	0.00	0.07	0.00	7.97	0.00	8.42	0.00
NV-000	0.00	0.00	0.00	0.00	0.93	0.00	-0.10	0.00

Variação no deslocamento do topo da edificação: 5.30%

Vento X-								
Pavimento	Deslocamentos horizontais médios (cm)				Esforço aplicado (tf)			
	1a. ordem		1a. + 2a. ordem		1a. ordem		1a. + 2a. ordem	
	Eixo X	Eixo Y	Eixo X	Eixo Y	Eixo X	Eixo Y	Eixo X	Eixo Y
PLATIBANDA NV-770	-0.16	0.00	-0.17	0.00	-1.90	0.00	-1.92	0.00
SUPERIOR NV-640	-0.11	0.00	-0.11	0.00	-6.40	0.00	-6.68	0.00
TÉRREO NV-320	-0.06	0.00	-0.07	0.00	-7.97	0.00	-8.42	0.00
NV-000	0.00	0.00	0.00	0.00	-0.93	0.00	0.10	0.00

Variação no deslocamento do topo da edificação: 5.30%

Vento Y+				
Pavimento	Deslocamentos horizontais médios (cm)		Esforço aplicado (tf)	
	1a. ordem	1a. + 2a. ordem	1a. ordem	1a. + 2a. ordem

	Eixo X	Eixo Y	Eixo X	Eixo Y	Eixo X	Eixo Y	Eixo X	Eixo Y
PLATIBANDA NV-770	0.00	0.12	0.00	0.12	0.00	2.65	0.00	2.67
SUPERIOR NV-640	0.00	0.07	0.00	0.07	0.00	8.92	0.00	9.12
TÉRREO NV-320	0.00	0.04	0.00	0.04	0.00	11.05	0.00	11.28
NV-000	0.00	0.00	0.00	0.00	0.00	1.28	0.00	0.73

Variação no deslocamento do topo da edificação: 2.29%

Vento Y-								
Pavimento	Deslocamentos horizontais médios (cm)				Esforço aplicado (tf)			
	1a. ordem		1a. + 2a. ordem		1a. ordem		1a. + 2a. ordem	
	Eixo X	Eixo Y	Eixo X	Eixo Y	Eixo X	Eixo Y	Eixo X	Eixo Y
PLATIBANDA NV-770	0.00	-0.12	0.00	-0.12	0.00	-2.65	0.00	-2.67
SUPERIOR NV-640	0.00	-0.07	0.00	-0.07	0.00	-8.92	0.00	-9.12
TÉRREO NV-320	0.00	-0.04	0.00	-0.04	0.00	-11.05	0.00	-11.28
NV-000	0.00	0.00	0.00	0.00	0.00	-1.28	0.00	-0.73

Variação no deslocamento do topo da edificação: 2.29%

Desaprumo X+								
Pavimento	Deslocamentos horizontais médios (cm)				Esforço aplicado (tf)			
	1a. ordem		1a. + 2a. ordem		1a. ordem		1a. + 2a. ordem	
	Eixo X	Eixo Y	Eixo X	Eixo Y	Eixo X	Eixo Y	Eixo X	Eixo Y
PLATIBANDA NV-770	0.08	0.00	0.09	0.00	0.13	0.00	0.13	0.00
SUPERIOR NV-640	0.08	0.00	0.08	0.00	4.95	0.00	5.14	0.00
TÉRREO NV-320	0.05	0.00	0.05	0.00	6.85	0.00	7.21	0.00
NV-000	0.00	0.00	0.00	0.00	1.88	0.00	1.11	0.00

Variação no deslocamento do topo da edificação: 5.98%

Desaprumo X-								
Pavimento	Deslocamentos horizontais médios (cm)				Esforço aplicado (tf)			
	1a. ordem		1a. + 2a. ordem		1a. ordem		1a. + 2a. ordem	
	Eixo X	Eixo Y	Eixo X	Eixo Y	Eixo X	Eixo Y	Eixo X	Eixo Y
PLATIBANDA NV-770	-0.08	0.00	-0.09	0.00	-0.13	0.00	-0.13	0.00
SUPERIOR NV-640	-0.08	0.00	-0.08	0.00	-4.95	0.00	-5.14	0.00
TÉRREO NV-320	-0.05	0.00	-0.05	0.00	-6.85	0.00	-7.21	0.00
NV-000	0.00	0.00	0.00	0.00	-1.88	0.00	-1.11	0.00

Variação no deslocamento do topo da edificação: 5.98%

Desaprumo Y+								
Pavimento	Deslocamentos horizontais médios (cm)				Esforço aplicado (tf)			
	1a. ordem		1a. + 2a. ordem		1a. ordem		1a. + 2a. ordem	
	Eixo X	Eixo Y	Eixo X	Eixo Y	Eixo X	Eixo Y	Eixo X	Eixo Y
PLATIBANDA NV-770	0.00	0.04	0.00	0.04	0.00	0.13	0.00	0.13
SUPERIOR NV-640	0.00	0.04	0.00	0.04	0.00	4.95	0.00	5.05
TÉRREO NV-320	0.00	0.02	0.00	0.02	0.00	6.85	0.00	6.99
NV-000	0.00	0.00	0.00	0.00	0.00	1.88	0.00	1.58

Variação no deslocamento do topo da edificação: 2.60%

Desaprumo Y-								
Pavimento	Deslocamentos horizontais médios (cm)				Esforço aplicado (tf)			
	1a. ordem		1a. + 2a. ordem		1a. ordem		1a. + 2a. ordem	
	Eixo X	Eixo Y	Eixo X	Eixo Y	Eixo X	Eixo Y	Eixo X	Eixo Y
PLATIBANDA NV-770	0.00	-0.04	0.00	-0.04	0.00	-0.13	0.00	-0.13
SUPERIOR NV-640	0.00	-0.04	0.00	-0.04	0.00	-4.95	0.00	-5.05
TÉRREO NV-320	0.00	-0.02	0.00	-0.02	0.00	-6.85	0.00	-6.99
NV-000	0.00	0.00	0.00	0.00	0.00	-1.88	0.00	-1.58

Variação no deslocamento do topo da edificação: 2.60%

Relatório de Esforços nas Fundações por Elementos

Fundação B1						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	13.91	452.09	-42.99	-0.26	-0.07	-0.08
Adicional (G2)	5.58	403.97	149.09	-0.31	0.19	6.68
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	3.10	-58.47	-138.30	-0.10	0.04	-4.11
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	-0.13	-11.23	106.81	0.03	0.01	3.44
Vento X- (V2)	0.13	11.23	-106.81	-0.03	-0.01	-3.44
Vento Y+ (V3)	0.20	-349.94	18.37	0.00	0.21	0.71
Vento Y- (V4)	-0.20	349.95	-18.37	0.00	-0.21	-0.71
Desaprumo X+ (D1)	-0.08	-0.19	76.43	0.02	0.00	2.44
Desaprumo X- (D2)	0.08	0.19	-76.43	-0.02	0.00	-2.44
Desaprumo Y+ (D3)	0.09	-177.16	6.95	0.00	0.11	0.27
Desaprumo Y- (D4)	-0.09	177.16	-6.95	0.00	-0.11	-0.27
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	21.50	808.20	149.80	-0.60	0.16	8.22
G1+G2+0.7Q+0.6V2+D2	21.81	822.06	-131.23	-0.67	0.15	-0.78
G1+G2+0.7Q+0.6V3+D3	21.86	428.00	27.26	-0.63	0.39	4.42
G1+G2+0.7Q+0.6V4+D4	21.45	1202.26	-8.69	-0.64	-0.08	3.02
G1+G2+0.7Q+V1+0.6D1	21.48	803.79	161.95	-0.60	0.16	8.62
G1+G2+0.7Q+V2+0.6D2	21.83	826.47	-143.38	-0.67	0.15	-1.18
G1+G2+0.7Q+V3+0.6D3	21.91	358.89	31.83	-0.63	0.43	4.59
G1+G2+0.7Q+V4+0.6D4	21.41	1271.37	-13.25	-0.64	-0.12	2.85
G1+G2+D1	19.41	855.87	182.53	-0.55	0.12	9.04
G1+G2+D2	19.56	856.25	29.67	-0.59	0.13	4.16
G1+G2+D3	19.57	678.90	113.05	-0.57	0.23	6.87
G1+G2+D4	19.39	1033.22	99.14	-0.57	0.01	6.33
G1+G2+Q+0.6V1+0.6D1	22.46	790.74	77.74	-0.64	0.17	6.01
G1+G2+Q+0.6V2+0.6D2	22.71	804.44	-142.15	-0.69	0.16	-1.04
G1+G2+Q+0.6V3+0.6D3	22.76	481.33	-17.01	-0.66	0.36	3.07
G1+G2+Q+0.6V4+0.6D4	22.42	1113.85	-47.40	-0.67	-0.02	1.90
G1+G2+Q+D1	22.51	797.40	44.23	-0.64	0.17	4.93
G1+G2+Q+D2	22.66	797.78	-108.63	-0.69	0.17	0.05
G1+G2+Q+D3	22.68	620.43	-25.25	-0.66	0.28	2.76
G1+G2+Q+D4	22.50	974.75	-39.16	-0.67	0.06	2.21

Fundação B2						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	1.23	135.88	-86.90	0.04	0.54	-0.20
Adicional (G2)	2.10	232.27	-191.25	0.22	0.92	-0.58
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	-0.03	-0.18	19.27	-0.08	0.00	0.13
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	-0.01	-0.04	-30.40	0.13	0.00	-0.43
Vento X- (V2)	0.01	0.04	30.40	-0.13	0.00	0.43

Vento Y+ (V3)	0.00	-1.00	-6.61	0.02	0.01	-0.12
Vento Y- (V4)	0.00	1.00	6.61	-0.02	-0.01	0.12
Desaprumo X+ (D1)	-0.01	-0.02	-21.00	0.10	0.00	-0.31
Desaprumo X- (D2)	0.01	0.02	21.00	-0.10	0.00	0.31
Desaprumo Y+ (D3)	0.00	-1.02	-2.64	0.01	0.01	-0.05
Desaprumo Y- (D4)	0.00	1.02	2.64	-0.01	-0.01	0.05
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	3.30	367.97	-303.90	0.37	1.47	-1.25
G1+G2+0.7Q+0.6V2+D2	3.32	368.07	-225.41	0.02	1.46	-0.12
G1+G2+0.7Q+0.6V3+D3	3.31	366.40	-271.26	0.22	1.48	-0.80
G1+G2+0.7Q+0.6V4+D4	3.32	369.64	-258.05	0.18	1.45	-0.57
G1+G2+0.7Q+V1+0.6D1	3.30	367.96	-307.65	0.38	1.47	-1.30
G1+G2+0.7Q+V2+0.6D2	3.32	368.07	-221.66	0.01	1.46	-0.07
G1+G2+0.7Q+V3+0.6D3	3.31	366.41	-272.85	0.22	1.48	-0.83
G1+G2+0.7Q+V4+0.6D4	3.32	369.63	-256.46	0.17	1.45	-0.54
G1+G2+D1	3.33	368.12	-299.15	0.35	1.46	-1.08
G1+G2+D2	3.34	368.17	-257.14	0.16	1.46	-0.47
G1+G2+D3	3.33	367.13	-280.78	0.26	1.48	-0.82
G1+G2+D4	3.34	369.16	-275.50	0.25	1.45	-0.73
G1+G2+Q+0.6V1+0.6D1	3.29	367.92	-289.71	0.31	1.47	-1.09
G1+G2+Q+0.6V2+0.6D2	3.31	368.00	-228.03	0.03	1.46	-0.20
G1+G2+Q+0.6V3+0.6D3	3.30	366.75	-264.43	0.19	1.48	-0.74
G1+G2+Q+0.6V4+0.6D4	3.31	369.18	-253.32	0.15	1.45	-0.55
G1+G2+Q+D1	3.30	367.94	-279.88	0.27	1.46	-0.95
G1+G2+Q+D2	3.31	367.99	-237.87	0.07	1.46	-0.34
G1+G2+Q+D3	3.30	366.95	-261.51	0.18	1.48	-0.69
G1+G2+Q+D4	3.30	368.98	-256.23	0.16	1.45	-0.60

Fundação B3						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	19.19	-46.15	2.94	0.06	0.39	-0.44
Adicional (G2)	7.66	290.80	0.41	0.05	0.37	-0.52
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	5.68	-258.45	9.85	0.03	0.21	0.24
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.03	-8.19	67.33	0.00	0.00	3.94
Vento X- (V2)	-0.03	8.19	-67.33	0.00	0.00	-3.94
Vento Y+ (V3)	0.39	-366.00	11.68	0.00	0.24	0.73
Vento Y- (V4)	-0.39	366.00	-11.68	0.00	-0.24	-0.73
Desaprumo X+ (D1)	0.01	-0.33	48.10	0.00	0.00	2.79
Desaprumo X- (D2)	-0.01	0.33	-48.10	0.00	0.00	-2.79
Desaprumo Y+ (D3)	0.17	-185.33	4.32	0.00	0.13	0.27
Desaprumo Y- (D4)	-0.17	185.33	-4.32	0.00	-0.13	-0.27
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	30.85	58.49	98.74	0.14	0.90	4.37
G1+G2+0.7Q+0.6V2+D2	30.79	68.98	-78.26	0.13	0.89	-5.94
G1+G2+0.7Q+0.6V3+D3	31.23	-341.19	21.58	0.13	1.17	-0.08
G1+G2+0.7Q+0.6V4+D4	30.42	468.66	-1.09	0.14	0.62	-1.50
G1+G2+0.7Q+V1+0.6D1	30.86	55.35	106.43	0.14	0.90	4.83
G1+G2+0.7Q+V2+0.6D2	30.79	72.12	-85.95	0.13	0.89	-6.40

G1+G2+0.7Q+V3+0.6D3	31.31	-413.46	24.52	0.13	1.21	0.10
G1+G2+0.7Q+V4+0.6D4	30.33	540.93	-4.03	0.14	0.58	-1.68
G1+G2+D1	26.86	244.32	51.45	0.12	0.75	1.84
G1+G2+D2	26.83	244.98	-44.76	0.11	0.75	-3.75
G1+G2+D3	27.02	59.32	7.67	0.11	0.88	-0.68
G1+G2+D4	26.67	429.98	-0.98	0.11	0.63	-1.22
G1+G2+Q+0.6V1+0.6D1	32.55	-18.91	82.46	0.15	0.96	3.32
G1+G2+Q+0.6V2+0.6D2	32.50	-8.69	-56.06	0.14	0.95	-4.76
G1+G2+Q+0.6V3+0.6D3	32.86	-344.60	22.80	0.14	1.18	-0.12
G1+G2+Q+0.6V4+0.6D4	32.19	316.99	3.60	0.14	0.74	-1.32
G1+G2+Q+D1	32.54	-14.14	61.30	0.15	0.96	2.08
G1+G2+Q+D2	32.52	-13.47	-34.90	0.14	0.96	-3.51
G1+G2+Q+D3	32.70	-199.13	17.52	0.14	1.08	-0.45
G1+G2+Q+D4	32.35	171.53	8.87	0.14	0.83	-0.99

Fundação B4						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	1.28	135.70	131.77	-0.13	0.54	0.51
Adicional (G2)	2.11	232.15	236.04	-0.21	0.92	0.72
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	0.02	-0.21	-1.65	0.00	0.00	0.06
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.02	0.03	-28.01	0.10	0.00	-0.47
Vento X- (V2)	-0.02	-0.03	28.01	-0.10	0.00	0.47
Vento Y+ (V3)	0.00	-0.99	-3.54	0.02	0.01	-0.04
Vento Y- (V4)	0.00	0.99	3.54	-0.02	-0.01	0.04
Desaprumo X+ (D1)	0.02	0.03	-19.27	0.08	0.00	-0.33
Desaprumo X- (D2)	-0.02	-0.03	19.27	-0.08	0.00	0.33
Desaprumo Y+ (D3)	0.00	-1.05	-1.10	0.01	0.01	-0.01
Desaprumo Y- (D4)	0.00	1.05	1.10	-0.01	-0.01	0.01
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	3.43	367.75	330.58	-0.20	1.46	0.66
G1+G2+0.7Q+0.6V2+D2	3.37	367.66	402.74	-0.49	1.46	1.88
G1+G2+0.7Q+0.6V3+D3	3.40	366.06	363.44	-0.33	1.48	1.24
G1+G2+0.7Q+0.6V4+D4	3.40	369.35	369.88	-0.36	1.45	1.31
G1+G2+0.7Q+V1+0.6D1	3.43	367.75	327.09	-0.19	1.46	0.61
G1+G2+0.7Q+V2+0.6D2	3.37	367.66	406.23	-0.50	1.46	1.94
G1+G2+0.7Q+V3+0.6D3	3.40	366.08	362.46	-0.33	1.48	1.22
G1+G2+0.7Q+V4+0.6D4	3.40	369.33	370.85	-0.36	1.45	1.32
G1+G2+D1	3.40	367.88	348.54	-0.26	1.46	0.90
G1+G2+D2	3.37	367.83	387.09	-0.42	1.46	1.56
G1+G2+D3	3.39	366.81	366.72	-0.34	1.48	1.22
G1+G2+D4	3.39	368.90	368.91	-0.35	1.45	1.24
G1+G2+Q+0.6V1+0.6D1	3.43	367.68	337.79	-0.24	1.46	0.81
G1+G2+Q+0.6V2+0.6D2	3.38	367.61	394.53	-0.45	1.46	1.77
G1+G2+Q+0.6V3+0.6D3	3.40	366.42	363.38	-0.33	1.48	1.26
G1+G2+Q+0.6V4+0.6D4	3.40	368.87	368.94	-0.36	1.45	1.32
G1+G2+Q+D1	3.42	367.67	346.89	-0.26	1.46	0.96
G1+G2+Q+D2	3.39	367.62	385.44	-0.42	1.46	1.62
G1+G2+Q+D3	3.40	366.60	365.07	-0.34	1.48	1.28
G1+G2+Q+D4	3.40	368.69	367.26	-0.35	1.45	1.30

Fundação B5

Combinação	N (tf)	Mx (kgf.m)	My (kgf.m)	Vx (tf)	Vy (tf)	Mt (kgf/m)
Peso próprio (G1)	18.53	-52.50	-99.25	0.12	0.36	-5.49
Adicional (G2)	7.89	316.50	-123.84	0.21	0.30	-7.26
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	5.32	-282.58	-23.87	-0.01	0.22	-1.07
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	-0.02	-4.95	78.19	0.01	0.00	4.07
Vento X- (V2)	0.02	4.95	-78.19	-0.01	0.00	-4.07
Vento Y+ (V3)	0.31	-341.83	13.90	0.00	0.21	0.77
Vento Y- (V4)	-0.31	341.83	-13.90	0.00	-0.21	-0.77
Desaprumo X+ (D1)	-0.01	-1.36	56.07	0.01	0.00	2.89
Desaprumo X- (D2)	0.01	1.36	-56.07	-0.01	0.00	-2.89
Desaprumo Y+ (D3)	0.14	-177.32	5.22	0.00	0.12	0.29
Desaprumo Y- (D4)	-0.14	177.32	-5.22	0.00	-0.12	-0.29
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	30.11	61.86	-136.82	0.33	0.82	-8.17
G1+G2+0.7Q+0.6V2+D2	30.16	70.52	-342.79	0.30	0.81	-18.83
G1+G2+0.7Q+0.6V3+D3	30.47	-316.23	-226.25	0.32	1.06	-12.75
G1+G2+0.7Q+0.6V4+D4	29.81	448.61	-253.36	0.32	0.57	-14.25
G1+G2+0.7Q+V1+0.6D1	30.11	60.43	-127.97	0.33	0.82	-7.70
G1+G2+0.7Q+V2+0.6D2	30.16	71.95	-351.64	0.31	0.81	-19.30
G1+G2+0.7Q+V3+0.6D3	30.54	-382.04	-222.77	0.32	1.09	-12.55
G1+G2+0.7Q+V4+0.6D4	29.74	514.42	-256.84	0.32	0.54	-14.45
G1+G2+D1	26.40	262.64	-167.03	0.34	0.66	-9.86
G1+G2+D2	26.43	265.36	-279.17	0.31	0.66	-15.64
G1+G2+D3	26.56	86.68	-217.88	0.33	0.78	-12.46
G1+G2+D4	26.27	441.32	-228.31	0.33	0.55	-13.04
G1+G2+Q+0.6V1+0.6D1	31.72	-22.37	-166.41	0.33	0.88	-9.65
G1+G2+Q+0.6V2+0.6D2	31.75	-14.80	-327.52	0.30	0.88	-18.00
G1+G2+Q+0.6V3+0.6D3	32.01	-330.08	-235.49	0.32	1.08	-13.18
G1+G2+Q+0.6V4+0.6D4	31.46	292.91	-258.44	0.32	0.69	-14.46
G1+G2+Q+D1	31.72	-19.95	-190.89	0.33	0.88	-10.93
G1+G2+Q+D2	31.75	-17.22	-303.04	0.30	0.88	-16.71
G1+G2+Q+D3	31.88	-195.91	-241.75	0.32	1.00	-13.53
G1+G2+Q+D4	31.59	158.74	-252.18	0.32	0.76	-14.11

Fundação B6						
Combinação	N (tf)	Mx (kgf.m)	My (kgf.m)	Vx (tf)	Vy (tf)	Mt (kgf/m)
Peso próprio (G1)	1.26	338.39	53.69	0.06	0.50	-0.15
Adicional (G2)	2.11	578.38	80.57	0.14	0.86	-0.38
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	-0.01	-0.75	2.67	-0.02	0.00	0.02
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.01	0.04	-29.04	0.13	0.00	-0.40
Vento X- (V2)	-0.01	-0.04	29.04	-0.13	0.00	0.40
Vento Y+ (V3)	0.00	-1.10	-4.37	0.02	0.01	-0.05
Vento Y- (V4)	0.00	1.10	4.37	-0.02	-0.01	0.05
Desaprumo X+ (D1)	0.01	0.03	-20.01	0.10	0.00	-0.28
Desaprumo X- (D2)	-0.01	-0.03	20.01	-0.10	0.00	0.28
Desaprumo Y+ (D3)	0.00	-1.14	-1.49	0.01	0.01	-0.01
Desaprumo Y- (D4)	0.00	1.14	1.49	-0.01	-0.01	0.01
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00

Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	3.39	916.30	98.69	0.37	1.36	-1.04
G1+G2+0.7Q+0.6V2+D2	3.35	916.18	173.57	0.00	1.36	0.02
G1+G2+0.7Q+0.6V3+D3	3.37	914.45	132.02	0.20	1.38	-0.55
G1+G2+0.7Q+0.6V4+D4	3.37	918.04	140.24	0.16	1.35	-0.47
G1+G2+0.7Q+V1+0.6D1	3.39	916.30	95.08	0.38	1.36	-1.08
G1+G2+0.7Q+V2+0.6D2	3.35	916.18	177.18	-0.01	1.36	0.06
G1+G2+0.7Q+V3+0.6D3	3.37	914.46	130.87	0.21	1.38	-0.56
G1+G2+0.7Q+V4+0.6D4	3.37	918.02	141.39	0.16	1.35	-0.46
G1+G2+D1	3.39	916.80	114.25	0.30	1.36	-0.81
G1+G2+D2	3.37	916.73	154.27	0.10	1.36	-0.24
G1+G2+D3	3.38	915.63	132.77	0.21	1.37	-0.54
G1+G2+D4	3.38	917.90	135.75	0.19	1.35	-0.51
G1+G2+Q+0.6V1+0.6D1	3.38	916.06	107.50	0.32	1.36	-0.92
G1+G2+Q+0.6V2+0.6D2	3.35	915.97	166.37	0.04	1.36	-0.09
G1+G2+Q+0.6V3+0.6D3	3.37	914.68	133.42	0.20	1.37	-0.54
G1+G2+Q+0.6V4+0.6D4	3.37	917.36	140.45	0.16	1.35	-0.47
G1+G2+Q+D1	3.38	916.05	116.92	0.28	1.36	-0.79
G1+G2+Q+D2	3.36	915.99	156.94	0.08	1.36	-0.22
G1+G2+Q+D3	3.37	914.88	135.44	0.19	1.37	-0.52
G1+G2+Q+D4	3.37	917.15	138.42	0.17	1.35	-0.49

Fundação B7						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	29.95	-383.80	288.83	-0.33	1.56	12.69
Adicional (G2)	9.65	-366.30	496.97	-0.56	0.65	22.14
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	9.72	-1389.03	-2.31	0.00	1.08	-0.12
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.01	0.04	90.46	0.06	0.00	2.11
Vento X- (V2)	-0.01	-0.04	-90.46	-0.06	0.00	-2.11
Vento Y+ (V3)	0.09	-308.70	14.97	0.01	0.18	0.38
Vento Y- (V4)	-0.09	308.71	-14.97	-0.01	-0.18	-0.38
Desaprumo X+ (D1)	0.00	-1.13	65.16	0.05	0.00	1.48
Desaprumo X- (D2)	0.00	1.13	-65.16	-0.05	0.00	-1.48
Desaprumo Y+ (D3)	0.04	-165.30	5.45	0.00	0.11	0.13
Desaprumo Y- (D4)	-0.04	165.30	-5.44	0.00	-0.11	-0.13
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	46.41	-1723.53	903.61	-0.80	2.97	37.50
G1+G2+0.7Q+0.6V2+D2	46.40	-1721.32	664.74	-0.98	2.97	32.01
G1+G2+0.7Q+0.6V3+D3	46.51	-2072.95	798.60	-0.88	3.18	35.11
G1+G2+0.7Q+0.6V4+D4	46.31	-1371.90	769.75	-0.90	2.75	34.40
G1+G2+0.7Q+V1+0.6D1	46.42	-1723.06	913.73	-0.80	2.97	37.75
G1+G2+0.7Q+V2+0.6D2	46.40	-1721.79	654.63	-0.98	2.97	31.75
G1+G2+0.7Q+V3+0.6D3	46.53	-2130.31	802.41	-0.88	3.21	35.21
G1+G2+0.7Q+V4+0.6D4	46.29	-1314.54	765.94	-0.90	2.73	34.30
G1+G2+D1	39.61	-751.23	850.95	-0.84	2.21	36.32
G1+G2+D2	39.60	-748.97	720.64	-0.94	2.21	33.36
G1+G2+D3	39.65	-915.40	791.24	-0.88	2.31	34.97
G1+G2+D4	39.56	-584.80	780.35	-0.89	2.10	34.71
G1+G2+Q+0.6V1+0.6D1	49.33	-2139.78	876.85	-0.82	3.29	36.87

G1+G2+Q+0.6V2+0.6D2	49.31	-2138.48	690.11	-0.96	3.29	32.56
G1+G2+Q+0.6V3+0.6D3	49.40	-2423.53	795.73	-0.88	3.46	35.02
G1+G2+Q+0.6V4+0.6D4	49.24	-1854.73	771.24	-0.90	3.12	34.41
G1+G2+Q+D1	49.33	-2140.26	848.64	-0.84	3.29	36.19
G1+G2+Q+D2	49.32	-2138.00	718.33	-0.94	3.29	33.24
G1+G2+Q+D3	49.37	-2304.43	788.93	-0.89	3.40	34.84
G1+G2+Q+D4	49.28	-1973.83	778.04	-0.89	3.19	34.58

Fundação B8						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	23.23	-13.40	-202.67	0.06	0.55	-4.67
Adicional (G2)	10.99	578.68	-262.92	-0.05	0.50	2.17
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	6.61	-411.33	-56.42	0.08	0.31	-6.02
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	-0.01	4.10	96.92	0.17	0.00	-2.57
Vento X- (V2)	0.01	-4.10	-96.92	-0.17	0.00	2.57
Vento Y+ (V3)	0.24	-284.05	16.39	0.03	0.17	-0.51
Vento Y- (V4)	-0.24	284.05	-16.39	-0.03	-0.17	0.51
Desaprumo X+ (D1)	0.00	-1.59	70.68	0.14	0.00	-1.93
Desaprumo X- (D2)	0.00	1.59	-70.68	-0.14	0.00	1.93
Desaprumo Y+ (D3)	0.12	-157.41	6.02	0.01	0.11	-0.22
Desaprumo Y- (D4)	-0.12	157.41	-6.02	-0.01	-0.11	0.22
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	38.85	278.23	-376.26	0.31	1.26	-10.19
G1+G2+0.7Q+0.6V2+D2	38.86	276.47	-633.92	-0.18	1.26	-3.24
G1+G2+0.7Q+0.6V3+D3	39.11	-50.49	-489.24	0.09	1.47	-7.25
G1+G2+0.7Q+0.6V4+D4	38.59	605.19	-520.95	0.04	1.04	-6.18
G1+G2+0.7Q+V1+0.6D1	38.84	280.50	-365.77	0.32	1.26	-10.44
G1+G2+0.7Q+V2+0.6D2	38.86	274.20	-644.41	-0.19	1.26	-2.99
G1+G2+0.7Q+V3+0.6D3	39.16	-101.15	-485.09	0.10	1.50	-7.36
G1+G2+0.7Q+V4+0.6D4	38.55	655.85	-525.09	0.03	1.02	-6.06
G1+G2+D1	34.22	563.69	-394.92	0.15	1.05	-4.43
G1+G2+D2	34.23	566.87	-536.27	-0.14	1.04	-0.57
G1+G2+D3	34.34	407.87	-459.57	0.02	1.16	-2.72
G1+G2+D4	34.11	722.69	-471.62	0.00	0.93	-2.27
G1+G2+Q+0.6V1+0.6D1	40.83	155.46	-421.46	0.28	1.35	-11.22
G1+G2+Q+0.6V2+0.6D2	40.85	152.44	-622.58	-0.10	1.35	-5.82
G1+G2+Q+0.6V3+0.6D3	41.05	-110.93	-508.57	0.11	1.52	-8.96
G1+G2+Q+0.6V4+0.6D4	40.63	418.83	-535.46	0.07	1.18	-8.08
G1+G2+Q+D1	40.84	152.37	-451.34	0.23	1.35	-10.45
G1+G2+Q+D2	40.84	155.54	-592.70	-0.05	1.35	-6.59
G1+G2+Q+D3	40.96	-3.46	-516.00	0.10	1.46	-8.74
G1+G2+Q+D4	40.72	311.36	-528.04	0.08	1.24	-8.29

Fundação B11						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	31.98	-2033.85	18.07	0.07	1.35	-5.97
Adicional (G2)	11.14	-1008.72	-17.55	-0.01	0.73	-2.60
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	10.66	-1459.98	-8.11	-0.02	0.96	-4.06
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00

Vento X+ (V1)	0.02	-12.23	73.02	0.11	0.01	0.36
Vento X- (V2)	-0.02	12.23	-73.02	-0.11	-0.01	-0.36
Vento Y+ (V3)	0.11	-329.14	-2.40	0.00	0.12	-1.41
Vento Y- (V4)	-0.11	329.14	2.40	0.00	-0.12	1.41
Desaprumo X+ (D1)	0.02	-12.86	63.64	0.10	0.01	0.34
Desaprumo X- (D2)	-0.02	12.86	-63.64	-0.10	-0.01	-0.34
Desaprumo Y+ (D3)	0.05	-207.04	1.24	0.00	0.09	-0.85
Desaprumo Y- (D4)	-0.05	207.04	-1.24	0.00	-0.09	0.85
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	50.61	-4084.75	102.29	0.21	2.77	-10.86
G1+G2+0.7Q+0.6V2+D2	50.56	-4044.36	-112.62	-0.13	2.75	-11.97
G1+G2+0.7Q+0.6V3+D3	50.71	-4469.08	-5.36	0.04	2.92	-13.11
G1+G2+0.7Q+0.6V4+D4	50.47	-3660.03	-4.97	0.04	2.60	-9.72
G1+G2+0.7Q+V1+0.6D1	50.62	-4084.49	106.04	0.22	2.77	-10.85
G1+G2+0.7Q+V2+0.6D2	50.56	-4044.61	-116.37	-0.13	2.75	-11.98
G1+G2+0.7Q+V3+0.6D3	50.73	-4517.92	-6.82	0.04	2.93	-13.33
G1+G2+0.7Q+V4+0.6D4	50.44	-3611.19	-3.51	0.04	2.58	-9.50
G1+G2+D1	43.14	-3055.42	64.16	0.16	2.09	-8.23
G1+G2+D2	43.11	-3029.71	-63.13	-0.04	2.08	-8.91
G1+G2+D3	43.18	-3249.61	1.76	0.06	2.17	-9.42
G1+G2+D4	43.07	-2835.53	-0.73	0.06	2.00	-7.72
G1+G2+Q+0.6V1+0.6D1	53.81	-4517.60	74.40	0.16	3.05	-12.21
G1+G2+Q+0.6V2+0.6D2	53.77	-4487.50	-89.60	-0.09	3.04	-13.05
G1+G2+Q+0.6V3+0.6D3	53.88	-4824.25	-8.29	0.04	3.17	-13.99
G1+G2+Q+0.6V4+0.6D4	53.69	-4180.84	-6.91	0.04	2.92	-11.28
G1+G2+Q+D1	53.80	-4515.40	56.04	0.14	3.05	-12.30
G1+G2+Q+D2	53.77	-4489.69	-71.24	-0.06	3.04	-12.97
G1+G2+Q+D3	53.84	-4709.59	-6.35	0.04	3.13	-13.48
G1+G2+Q+D4	53.73	-4295.51	-8.84	0.03	2.96	-11.79

Fundação B12						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	31.92	-1959.50	-21.26	-0.06	1.32	6.07
Adicional (G2)	11.62	-1024.26	-77.59	-0.18	0.76	2.97
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	10.73	-1455.26	36.90	0.07	0.96	4.90
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	-0.08	3.66	75.04	0.12	0.00	0.27
Vento X- (V2)	0.08	-3.66	-75.04	-0.12	0.00	-0.27
Vento Y+ (V3)	0.10	-310.75	2.70	0.00	0.11	1.45
Vento Y- (V4)	-0.10	310.75	-2.70	0.00	-0.11	-1.45
Desaprumo X+ (D1)	-0.06	4.29	65.29	0.11	0.00	0.25
Desaprumo X- (D2)	0.06	-4.29	-65.29	-0.11	0.00	-0.25
Desaprumo Y+ (D3)	0.04	-189.40	4.58	0.01	0.08	0.92
Desaprumo Y- (D4)	-0.04	189.40	-4.58	-0.01	-0.08	-0.92
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	50.94	-3995.96	37.29	-0.01	2.75	12.89
G1+G2+0.7Q+0.6V2+D2	51.16	-4008.93	-183.34	-0.37	2.75	12.06
G1+G2+0.7Q+0.6V3+D3	51.15	-4378.29	-66.82	-0.18	2.89	14.26
G1+G2+0.7Q+0.6V4+D4	50.94	-3626.60	-79.22	-0.20	2.60	10.69

G1+G2+0.7Q+V1+0.6D1	50.93	-3996.21	41.20	0.00	2.75	12.90
G1+G2+0.7Q+V2+0.6D2	51.17	-4008.67	-187.24	-0.38	2.75	12.05
G1+G2+0.7Q+V3+0.6D3	51.18	-4426.83	-67.58	-0.18	2.91	14.48
G1+G2+0.7Q+V4+0.6D4	50.92	-3578.06	-78.47	-0.20	2.59	10.47
G1+G2+D1	43.48	-2979.47	-33.56	-0.14	2.08	9.30
G1+G2+D2	43.60	-2988.05	-164.15	-0.35	2.08	8.79
G1+G2+D3	43.58	-3173.16	-94.27	-0.24	2.16	9.96
G1+G2+D4	43.49	-2794.36	-103.44	-0.25	2.00	8.12
G1+G2+Q+0.6V1+0.6D1	54.18	-4434.25	22.25	-0.03	3.03	14.26
G1+G2+Q+0.6V2+0.6D2	54.35	-4443.79	-146.15	-0.31	3.04	13.63
G1+G2+Q+0.6V3+0.6D3	54.35	-4739.11	-57.58	-0.16	3.15	15.37
G1+G2+Q+0.6V4+0.6D4	54.18	-4138.93	-66.32	-0.18	2.92	12.52
G1+G2+Q+D1	54.21	-4434.73	3.34	-0.06	3.03	14.20
G1+G2+Q+D2	54.33	-4443.31	-127.24	-0.28	3.04	13.69
G1+G2+Q+D3	54.31	-4628.42	-57.37	-0.16	3.11	14.86
G1+G2+Q+D4	54.22	-4249.62	-66.53	-0.18	2.96	13.03

Fundação B13						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	14.63	-125.17	118.47	0.56	0.35	-1.01
Adicional (G2)	5.76	-38.01	56.94	0.41	0.45	-0.56
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	3.04	-44.40	24.93	0.02	-0.03	1.14
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.21	12.66	123.32	0.26	0.00	-2.90
Vento X- (V2)	-0.21	-12.66	-123.32	-0.26	0.00	2.90
Vento Y+ (V3)	0.30	-188.82	-0.89	0.00	0.04	-0.57
Vento Y- (V4)	-0.30	188.82	0.89	0.00	-0.04	0.57
Desaprumo X+ (D1)	0.14	13.82	107.41	0.23	0.00	-2.52
Desaprumo X- (D2)	-0.14	-13.81	-107.41	-0.23	0.00	2.52
Desaprumo Y+ (D3)	0.15	-107.09	4.01	0.01	0.03	-0.45
Desaprumo Y- (D4)	-0.15	107.09	-4.01	-0.01	-0.03	0.45
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	22.79	-172.85	374.26	1.37	0.78	-5.03
G1+G2+0.7Q+0.6V2+D2	22.24	-215.67	11.46	0.59	0.77	3.48
G1+G2+0.7Q+0.6V3+D3	22.84	-414.65	196.33	0.99	0.83	-1.56
G1+G2+0.7Q+0.6V4+D4	22.18	26.12	189.38	0.97	0.72	0.01
G1+G2+0.7Q+V1+0.6D1	22.81	-173.31	380.63	1.38	0.78	-5.18
G1+G2+0.7Q+V2+0.6D2	22.21	-215.21	5.09	0.58	0.77	3.63
G1+G2+0.7Q+V3+0.6D3	22.90	-447.33	194.38	0.98	0.84	-1.61
G1+G2+0.7Q+V4+0.6D4	22.12	58.81	191.34	0.98	0.72	0.06
G1+G2+D1	20.53	-149.36	282.81	1.20	0.80	-4.09
G1+G2+D2	20.24	-176.99	68.00	0.73	0.79	0.95
G1+G2+D3	20.54	-270.27	179.41	0.97	0.83	-2.02
G1+G2+D4	20.23	-56.08	171.40	0.96	0.77	-1.12
G1+G2+Q+0.6V1+0.6D1	23.64	-191.70	338.78	1.28	0.77	-3.68
G1+G2+Q+0.6V2+0.6D2	23.21	-223.47	61.90	0.69	0.76	2.82
G1+G2+Q+0.6V3+0.6D3	23.69	-385.13	202.21	0.99	0.81	-1.04
G1+G2+Q+0.6V4+0.6D4	23.15	-30.03	198.47	0.98	0.72	0.18
G1+G2+Q+D1	23.57	-193.77	307.74	1.22	0.77	-2.95
G1+G2+Q+D2	23.28	-221.40	92.93	0.75	0.76	2.09
G1+G2+Q+D3	23.58	-314.68	204.34	1.00	0.79	-0.88
G1+G2+Q+D4	23.27	-100.49	196.33	0.98	0.74	0.01

Fundação B14						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	6.29	-12.35	111.95	-0.32	-0.08	-0.26
Adicional (G2)	5.56	-34.20	208.54	-0.58	-0.08	-0.76
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	2.84	29.99	-7.58	0.01	-0.01	0.17
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	-0.01	-8.78	17.85	-0.02	0.01	-0.15
Vento X- (V2)	0.01	8.78	-17.85	0.02	-0.01	0.15
Vento Y+ (V3)	0.01	-289.05	2.51	-0.01	0.24	0.03
Vento Y- (V4)	-0.01	289.05	-2.51	0.01	-0.24	-0.03
Desaprumo X+ (D1)	-0.01	0.38	13.46	-0.01	0.00	-0.11
Desaprumo X- (D2)	0.01	-0.38	-13.46	0.01	0.00	0.11
Desaprumo Y+ (D3)	0.00	-140.95	0.94	0.00	0.13	0.02
Desaprumo Y- (D4)	0.00	140.95	-0.94	0.00	-0.13	-0.02
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	13.83	-30.44	339.35	-0.91	-0.16	-1.10
G1+G2+0.7Q+0.6V2+D2	13.86	-20.66	291.02	-0.88	-0.17	-0.69
G1+G2+0.7Q+0.6V3+D3	13.86	-339.93	317.63	-0.90	0.11	-0.86
G1+G2+0.7Q+0.6V4+D4	13.84	288.83	312.74	-0.89	-0.43	-0.93
G1+G2+0.7Q+V1+0.6D1	13.83	-34.10	341.11	-0.92	-0.16	-1.12
G1+G2+0.7Q+V2+0.6D2	13.86	-17.00	289.26	-0.88	-0.17	-0.68
G1+G2+0.7Q+V3+0.6D3	13.86	-399.17	318.26	-0.90	0.15	-0.85
G1+G2+0.7Q+V4+0.6D4	13.84	348.07	312.11	-0.89	-0.48	-0.94
G1+G2+D1	11.85	-46.17	333.95	-0.91	-0.15	-1.13
G1+G2+D2	11.87	-46.92	307.03	-0.90	-0.15	-0.90
G1+G2+D3	11.86	-187.49	321.42	-0.91	-0.03	-1.00
G1+G2+D4	11.85	94.40	319.55	-0.90	-0.28	-1.03
G1+G2+Q+0.6V1+0.6D1	14.69	-21.59	331.70	-0.91	-0.16	-1.00
G1+G2+Q+0.6V2+0.6D2	14.71	-11.51	294.13	-0.88	-0.17	-0.69
G1+G2+Q+0.6V3+0.6D3	14.71	-274.55	314.98	-0.90	0.05	-0.82
G1+G2+Q+0.6V4+0.6D4	14.69	241.45	310.84	-0.89	-0.38	-0.87
G1+G2+Q+D1	14.69	-16.17	326.37	-0.90	-0.17	-0.96
G1+G2+Q+D2	14.71	-16.93	299.45	-0.89	-0.17	-0.73
G1+G2+Q+D3	14.71	-157.50	313.85	-0.90	-0.04	-0.83
G1+G2+Q+D4	14.70	124.40	311.98	-0.89	-0.29	-0.86

Fundação B15						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	1.68	-132.30	-248.79	0.42	-0.54	0.64
Adicional (G2)	2.79	-226.11	-472.26	0.78	-0.92	1.09
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	0.01	0.06	16.34	-0.03	0.00	0.01
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.00	-0.05	-11.97	0.06	0.00	-0.05
Vento X- (V2)	0.00	0.05	11.97	-0.06	0.00	0.05
Vento Y+ (V3)	-0.01	-0.89	-6.43	0.01	0.01	-0.06
Vento Y- (V4)	0.01	0.89	6.43	-0.01	-0.01	0.06
Desaprumo X+ (D1)	0.00	-0.03	-7.64	0.05	0.00	-0.04
Desaprumo X- (D2)	0.00	0.03	7.64	-0.05	0.00	0.04
Desaprumo Y+ (D3)	0.00	-1.28	-3.02	0.00	0.01	-0.03

Desaprumo Y- (D4)	0.00	1.28	3.02	0.00	-0.01	0.03
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	4.47	-358.43	-724.44	1.26	-1.46	1.67
G1+G2+0.7Q+0.6V2+D2	4.48	-358.31	-694.80	1.09	-1.46	1.80
G1+G2+0.7Q+0.6V3+D3	4.47	-360.18	-716.50	1.18	-1.44	1.67
G1+G2+0.7Q+0.6V4+D4	4.48	-356.56	-702.74	1.16	-1.48	1.80
G1+G2+0.7Q+V1+0.6D1	4.47	-358.44	-726.17	1.26	-1.46	1.66
G1+G2+0.7Q+V2+0.6D2	4.48	-358.30	-693.07	1.09	-1.46	1.81
G1+G2+0.7Q+V3+0.6D3	4.47	-360.03	-717.86	1.19	-1.44	1.65
G1+G2+0.7Q+V4+0.6D4	4.48	-356.71	-701.37	1.16	-1.48	1.81
G1+G2+D1	4.46	-358.44	-728.69	1.24	-1.46	1.69
G1+G2+D2	4.47	-358.37	-713.42	1.14	-1.46	1.76
G1+G2+D3	4.46	-359.69	-724.08	1.19	-1.45	1.70
G1+G2+D4	4.47	-357.13	-718.03	1.19	-1.48	1.76
G1+G2+Q+0.6V1+0.6D1	4.48	-358.40	-716.48	1.23	-1.46	1.68
G1+G2+Q+0.6V2+0.6D2	4.48	-358.30	-692.96	1.10	-1.46	1.79
G1+G2+Q+0.6V3+0.6D3	4.48	-359.66	-710.39	1.17	-1.45	1.68
G1+G2+Q+0.6V4+0.6D4	4.49	-357.05	-699.05	1.16	-1.48	1.79
G1+G2+Q+D1	4.48	-358.39	-712.35	1.22	-1.46	1.70
G1+G2+Q+D2	4.48	-358.32	-697.08	1.11	-1.46	1.77
G1+G2+Q+D3	4.48	-359.63	-707.74	1.17	-1.45	1.71
G1+G2+Q+D4	4.48	-357.08	-701.70	1.16	-1.48	1.77

Fundação B16						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	25.99	-180.51	-2.36	0.03	-0.07	-0.50
Adicional (G2)	9.17	-350.24	-5.72	0.03	-0.16	-0.87
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	11.38	25.12	-0.93	0.01	0.03	-0.09
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	-0.01	-6.60	10.62	0.00	0.00	0.69
Vento X- (V2)	0.01	6.60	-10.62	0.00	0.00	-0.69
Vento Y+ (V3)	-0.22	-301.09	1.43	0.00	0.21	0.10
Vento Y- (V4)	0.22	301.09	-1.43	0.00	-0.21	-0.10
Desaprumo X+ (D1)	0.00	-0.12	7.97	0.00	0.00	0.50
Desaprumo X- (D2)	0.00	0.12	-7.97	0.00	0.00	-0.50
Desaprumo Y+ (D3)	-0.10	-152.05	0.57	0.00	0.11	0.04
Desaprumo Y- (D4)	0.10	152.05	-0.57	0.00	-0.11	-0.04
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	43.12	-517.25	5.62	0.07	-0.21	-0.51
G1+G2+0.7Q+0.6V2+D2	43.13	-509.09	-23.08	0.07	-0.21	-2.34
G1+G2+0.7Q+0.6V3+D3	42.89	-845.88	-7.30	0.07	0.03	-1.33
G1+G2+0.7Q+0.6V4+D4	43.36	-180.46	-10.16	0.07	-0.45	-1.52
G1+G2+0.7Q+V1+0.6D1	43.12	-519.84	6.68	0.07	-0.20	-0.44
G1+G2+0.7Q+V2+0.6D2	43.13	-506.50	-24.14	0.07	-0.21	-2.42
G1+G2+0.7Q+V3+0.6D3	42.84	-905.49	-6.95	0.07	0.07	-1.31
G1+G2+0.7Q+V4+0.6D4	43.41	-120.84	-10.51	0.07	-0.49	-1.55
G1+G2+D1	35.16	-530.88	-0.11	0.07	-0.23	-0.86
G1+G2+D2	35.16	-530.63	-16.06	0.06	-0.23	-1.87
G1+G2+D3	35.06	-682.80	-7.51	0.06	-0.12	-1.33

G1+G2+D4	35.26	-378.70	-8.65	0.06	-0.34	-1.40
G1+G2+Q+0.6V1+0.6D1	46.54	-509.67	2.15	0.07	-0.20	-0.74
G1+G2+Q+0.6V2+0.6D2	46.54	-501.60	-20.17	0.07	-0.20	-2.17
G1+G2+Q+0.6V3+0.6D3	46.35	-777.52	-7.81	0.07	0.00	-1.37
G1+G2+Q+0.6V4+0.6D4	46.73	-233.75	-10.21	0.07	-0.39	-1.53
G1+G2+Q+D1	46.54	-505.76	-1.03	0.07	-0.20	-0.95
G1+G2+Q+D2	46.54	-505.51	-16.98	0.07	-0.20	-1.95
G1+G2+Q+D3	46.44	-657.68	-8.44	0.07	-0.09	-1.41
G1+G2+Q+D4	46.64	-353.58	-9.58	0.07	-0.31	-1.49

Fundação B17						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	1.71	-132.34	294.54	-0.46	-0.54	-0.56
Adicional (G2)	2.81	-226.18	542.77	-0.83	-0.92	-0.94
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	0.02	0.04	-11.25	0.01	0.00	0.00
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.00	0.05	-12.93	0.06	0.00	-0.05
Vento X- (V2)	0.00	-0.05	12.93	-0.06	0.00	0.05
Vento Y+ (V3)	-0.01	-0.90	3.53	0.00	0.01	0.05
Vento Y- (V4)	0.01	0.90	-3.53	0.00	-0.01	-0.05
Desaprumo X+ (D1)	0.00	0.04	-8.54	0.06	0.00	-0.04
Desaprumo X- (D2)	0.00	-0.04	8.54	-0.06	0.00	0.04
Desaprumo Y+ (D3)	0.00	-1.30	1.99	0.00	0.02	0.03
Desaprumo Y- (D4)	0.00	1.30	-1.99	0.00	-0.02	-0.03
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	4.54	-358.43	813.14	-1.19	-1.46	-1.57
G1+G2+0.7Q+0.6V2+D2	4.54	-358.56	845.73	-1.38	-1.46	-1.43
G1+G2+0.7Q+0.6V3+D3	4.53	-360.33	833.54	-1.28	-1.44	-1.44
G1+G2+0.7Q+0.6V4+D4	4.55	-356.65	825.33	-1.29	-1.48	-1.56
G1+G2+0.7Q+V1+0.6D1	4.54	-358.42	811.38	-1.19	-1.46	-1.58
G1+G2+0.7Q+V2+0.6D2	4.53	-358.56	847.48	-1.38	-1.46	-1.42
G1+G2+0.7Q+V3+0.6D3	4.53	-360.17	834.15	-1.28	-1.44	-1.43
G1+G2+0.7Q+V4+0.6D4	4.55	-356.81	824.71	-1.29	-1.48	-1.57
G1+G2+D1	4.52	-358.48	828.77	-1.24	-1.46	-1.54
G1+G2+D2	4.52	-358.56	845.85	-1.35	-1.46	-1.46
G1+G2+D3	4.52	-359.82	839.30	-1.29	-1.44	-1.47
G1+G2+D4	4.53	-357.22	835.32	-1.29	-1.47	-1.53
G1+G2+Q+0.6V1+0.6D1	4.55	-358.43	813.18	-1.21	-1.46	-1.55
G1+G2+Q+0.6V2+0.6D2	4.54	-358.53	838.94	-1.36	-1.46	-1.45
G1+G2+Q+0.6V3+0.6D3	4.54	-359.80	829.37	-1.28	-1.44	-1.45
G1+G2+Q+0.6V4+0.6D4	4.55	-357.16	822.75	-1.29	-1.47	-1.55
G1+G2+Q+D1	4.55	-358.44	817.52	-1.23	-1.46	-1.54
G1+G2+Q+D2	4.54	-358.52	834.60	-1.34	-1.46	-1.46
G1+G2+Q+D3	4.54	-359.78	828.05	-1.28	-1.44	-1.47
G1+G2+Q+D4	4.55	-357.18	824.07	-1.28	-1.47	-1.53

Fundação B18						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	25.33	5.02	-129.80	0.35	0.00	0.54
Adicional (G2)	9.79	-44.01	-232.84	0.62	-0.02	0.81
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00

Acidental (Q)	10.66	29.07	0.32	0.00	0.02	0.05
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.01	-2.49	21.46	-0.02	0.00	-0.19
Vento X- (V2)	-0.01	2.49	-21.46	0.02	0.00	0.19
Vento Y+ (V3)	-0.07	-229.92	2.46	0.00	0.23	-0.05
Vento Y- (V4)	0.07	229.92	-2.46	0.00	-0.23	0.05
Desaprumo X+ (D1)	0.01	-0.25	16.35	-0.01	0.00	-0.14
Desaprumo X- (D2)	-0.01	0.25	-16.35	0.01	0.00	0.14
Desaprumo Y+ (D3)	-0.03	-119.21	0.93	0.00	0.13	-0.02
Desaprumo Y- (D4)	0.03	119.21	-0.93	0.00	-0.13	0.02
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	42.59	-20.38	-333.18	0.94	0.00	1.13
G1+G2+0.7Q+0.6V2+D2	42.58	-16.88	-391.63	0.99	-0.01	1.63
G1+G2+0.7Q+0.6V3+D3	42.51	-275.80	-360.00	0.96	0.26	1.33
G1+G2+0.7Q+0.6V4+D4	42.65	238.53	-364.81	0.97	-0.27	1.43
G1+G2+0.7Q+V1+0.6D1	42.59	-21.27	-331.13	0.94	0.00	1.11
G1+G2+0.7Q+V2+0.6D2	42.57	-15.99	-393.68	0.99	-0.01	1.65
G1+G2+0.7Q+V3+0.6D3	42.50	-320.08	-359.39	0.96	0.30	1.32
G1+G2+0.7Q+V4+0.6D4	42.67	282.82	-365.42	0.97	-0.31	1.44
G1+G2+D1	35.13	-39.23	-346.29	0.96	-0.02	1.21
G1+G2+D2	35.12	-38.73	-378.98	0.98	-0.02	1.48
G1+G2+D3	35.09	-158.20	-361.71	0.97	0.11	1.32
G1+G2+D4	35.15	80.23	-363.56	0.97	-0.15	1.37
G1+G2+Q+0.6V1+0.6D1	45.79	-11.56	-339.62	0.95	0.00	1.20
G1+G2+Q+0.6V2+0.6D2	45.77	-8.26	-385.00	0.98	0.00	1.59
G1+G2+Q+0.6V3+0.6D3	45.72	-219.39	-360.28	0.96	0.21	1.35
G1+G2+Q+0.6V4+0.6D4	45.84	199.57	-364.34	0.97	-0.21	1.43
G1+G2+Q+D1	45.79	-10.16	-345.96	0.96	0.00	1.26
G1+G2+Q+D2	45.78	-9.66	-378.66	0.97	0.00	1.53
G1+G2+Q+D3	45.75	-129.12	-361.38	0.96	0.13	1.37
G1+G2+Q+D4	45.81	109.30	-363.24	0.97	-0.13	1.41

Fundação B19						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	1.53	-445.85	29.62	-0.12	0.01	0.21
Adicional (G2)	2.56	-751.68	24.24	-0.23	0.02	0.10
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	0.01	-3.51	8.05	-0.01	0.00	0.15
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	-0.03	3.67	-0.01	0.07	0.00	0.10
Vento X- (V2)	0.03	-3.67	0.01	-0.07	0.00	-0.10
Vento Y+ (V3)	0.00	0.20	-0.06	0.01	0.01	-0.03
Vento Y- (V4)	0.00	-0.20	0.06	-0.01	-0.01	0.03
Desaprumo X+ (D1)	-0.02	2.65	0.62	0.06	0.00	0.07
Desaprumo X- (D2)	0.02	-2.65	-0.62	-0.06	0.00	-0.07
Desaprumo Y+ (D3)	0.00	-0.93	-0.02	0.00	0.01	-0.02
Desaprumo Y- (D4)	0.00	0.93	0.02	0.00	-0.01	0.02
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	4.06	-1195.15	60.11	-0.25	0.03	0.55
G1+G2+0.7Q+0.6V2+D2	4.13	-1204.84	58.89	-0.46	0.03	0.29

G1+G2+0.7Q+0.6V3+D3	4.09	-1200.81	59.45	-0.35	0.05	0.39
G1+G2+0.7Q+0.6V4+D4	4.10	-1199.18	59.55	-0.36	0.01	0.46
G1+G2+0.7Q+V1+0.6D1	4.06	-1194.74	59.86	-0.25	0.03	0.56
G1+G2+0.7Q+V2+0.6D2	4.14	-1205.25	59.14	-0.46	0.03	0.28
G1+G2+0.7Q+V3+0.6D3	4.09	-1200.36	59.43	-0.34	0.05	0.38
G1+G2+0.7Q+V4+0.6D4	4.10	-1199.63	59.57	-0.36	0.01	0.46
G1+G2+D1	4.07	-1194.89	54.48	-0.29	0.03	0.39
G1+G2+D2	4.11	-1200.18	53.25	-0.41	0.03	0.24
G1+G2+D3	4.09	-1198.47	53.85	-0.35	0.05	0.30
G1+G2+D4	4.09	-1196.60	53.89	-0.35	0.02	0.33
G1+G2+Q+0.6V1+0.6D1	4.07	-1197.26	62.28	-0.28	0.03	0.57
G1+G2+Q+0.6V2+0.6D2	4.13	-1204.83	61.55	-0.43	0.03	0.37
G1+G2+Q+0.6V3+0.6D3	4.10	-1201.49	61.87	-0.35	0.04	0.44
G1+G2+Q+0.6V4+0.6D4	4.10	-1200.60	61.96	-0.36	0.02	0.50
G1+G2+Q+D1	4.08	-1198.40	62.53	-0.30	0.03	0.54
G1+G2+Q+D2	4.12	-1203.69	61.30	-0.42	0.03	0.40
G1+G2+Q+D3	4.10	-1201.98	61.90	-0.35	0.04	0.45
G1+G2+Q+D4	4.10	-1200.11	61.93	-0.36	0.02	0.49

Fundação B20						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	28.43	-79.76	9.67	0.14	-0.13	0.07
Adicional (G2)	10.18	-263.70	-13.68	0.23	-0.23	-0.03
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	11.61	68.46	6.61	0.01	0.01	0.07
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.02	1.98	11.28	-0.04	0.00	0.02
Vento X- (V2)	-0.02	-1.98	-11.28	0.04	0.00	-0.02
Vento Y+ (V3)	0.00	-189.90	1.23	-0.01	0.19	-0.03
Vento Y- (V4)	0.00	189.90	-1.23	0.01	-0.19	0.03
Desaprumo X+ (D1)	0.02	-1.54	8.80	-0.03	0.00	0.01
Desaprumo X- (D2)	-0.02	1.54	-8.80	0.03	0.00	-0.01
Desaprumo Y+ (D3)	0.01	-104.21	0.48	0.00	0.11	-0.02
Desaprumo Y- (D4)	-0.01	104.21	-0.48	0.00	-0.11	0.02
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	46.77	-295.89	16.19	0.33	-0.36	0.11
G1+G2+0.7Q+0.6V2+D2	46.71	-295.18	-14.95	0.43	-0.36	0.07
G1+G2+0.7Q+0.6V3+D3	46.74	-513.68	1.84	0.37	-0.13	0.06
G1+G2+0.7Q+0.6V4+D4	46.73	-77.39	-0.60	0.39	-0.58	0.12
G1+G2+0.7Q+V1+0.6D1	46.77	-294.48	17.18	0.32	-0.36	0.12
G1+G2+0.7Q+V2+0.6D2	46.71	-296.59	-15.94	0.44	-0.35	0.06
G1+G2+0.7Q+V3+0.6D3	46.74	-547.96	2.14	0.37	-0.10	0.06
G1+G2+0.7Q+V4+0.6D4	46.74	-43.11	-0.90	0.39	-0.62	0.13
G1+G2+D1	38.63	-345.00	4.80	0.35	-0.36	0.05
G1+G2+D2	38.60	-341.91	-12.81	0.40	-0.36	0.03
G1+G2+D3	38.62	-447.66	-3.53	0.37	-0.25	0.03
G1+G2+D4	38.61	-239.25	-4.49	0.38	-0.47	0.06
G1+G2+Q+0.6V1+0.6D1	50.25	-274.74	14.65	0.34	-0.36	0.13
G1+G2+Q+0.6V2+0.6D2	50.20	-275.26	-9.44	0.43	-0.35	0.09
G1+G2+Q+0.6V3+0.6D3	50.22	-451.46	3.63	0.38	-0.17	0.09
G1+G2+Q+0.6V4+0.6D4	50.22	-98.53	1.58	0.39	-0.54	0.14
G1+G2+Q+D1	50.24	-276.54	11.41	0.36	-0.35	0.12
G1+G2+Q+D2	50.20	-273.46	-6.20	0.41	-0.36	0.10

G1+G2+Q+D3	50.23	-379.21	3.09	0.38	-0.24	0.09
G1+G2+Q+D4	50.22	-170.79	2.12	0.39	-0.47	0.13

Fundação B21						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	12.06	-52.12	42.21	0.05	0.31	-0.24
Adicional (G2)	2.16	-45.83	16.39	0.02	0.17	1.22
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	3.94	-43.24	21.07	0.02	0.27	-0.54
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.02	7.11	53.84	0.02	-0.02	-0.27
Vento X- (V2)	-0.02	-7.11	-53.84	-0.02	0.02	0.27
Vento Y+ (V3)	-0.20	-228.39	6.06	0.00	0.58	0.05
Vento Y- (V4)	0.20	228.39	-6.06	0.00	-0.58	-0.05
Desaprumo X+ (D1)	0.01	-1.93	39.11	0.02	0.00	-0.20
Desaprumo X- (D2)	-0.01	1.93	-39.11	-0.02	0.00	0.20
Desaprumo Y+ (D3)	-0.11	-129.41	2.18	0.00	0.33	0.03
Desaprumo Y- (D4)	0.11	129.41	-2.18	0.00	-0.33	-0.03
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	17.00	-125.88	144.77	0.11	0.66	0.24
G1+G2+0.7Q+0.6V2+D2	16.96	-130.55	1.93	0.05	0.68	0.96
G1+G2+0.7Q+0.6V3+D3	16.75	-394.66	79.17	0.09	1.34	0.66
G1+G2+0.7Q+0.6V4+D4	17.21	138.22	67.53	0.08	-0.01	0.54
G1+G2+0.7Q+V1+0.6D1	17.00	-122.27	150.66	0.12	0.65	0.21
G1+G2+0.7Q+V2+0.6D2	16.95	-134.17	-3.96	0.05	0.69	0.98
G1+G2+0.7Q+V3+0.6D3	16.71	-434.25	80.72	0.09	1.45	0.67
G1+G2+0.7Q+V4+0.6D4	17.24	177.82	65.97	0.08	-0.11	0.53
G1+G2+D1	14.23	-99.88	97.71	0.09	0.48	0.78
G1+G2+D2	14.22	-96.02	19.49	0.05	0.48	1.18
G1+G2+D3	14.12	-227.36	60.78	0.07	0.81	1.01
G1+G2+D4	14.33	31.46	56.42	0.07	0.15	0.95
G1+G2+Q+0.6V1+0.6D1	18.17	-138.08	135.44	0.11	0.74	0.16
G1+G2+Q+0.6V2+0.6D2	18.14	-144.30	23.90	0.07	0.76	0.72
G1+G2+Q+0.6V3+0.6D3	17.97	-355.87	84.62	0.09	1.29	0.49
G1+G2+Q+0.6V4+0.6D4	18.34	73.49	74.72	0.09	0.20	0.39
G1+G2+Q+D1	18.16	-143.12	118.78	0.11	0.75	0.24
G1+G2+Q+D2	18.15	-139.26	40.56	0.07	0.74	0.63
G1+G2+Q+D3	18.05	-270.60	81.85	0.09	1.08	0.47
G1+G2+Q+D4	18.26	-11.78	77.48	0.09	0.42	0.40

Fundação B22						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	1.67	-466.16	361.59	0.00	-0.76	0.71
Adicional (G2)	2.76	-790.52	378.11	-0.01	-1.29	0.78
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	-0.01	0.36	-16.69	0.00	0.00	-0.02
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.00	0.01	0.33	0.01	0.00	0.06
Vento X- (V2)	0.00	-0.01	-0.33	-0.01	0.00	-0.06
Vento Y+ (V3)	0.00	-0.65	4.80	0.00	0.01	-0.01
Vento Y- (V4)	0.00	0.65	-4.80	0.00	-0.01	0.01
Desaprumo X+ (D1)	0.00	0.01	1.15	0.01	0.00	0.04

Desaprumo X- (D2)	0.00	-0.01	-1.15	-0.01	0.00	-0.04
Desaprumo Y+ (D3)	0.00	-1.29	2.52	0.00	0.02	-0.01
Desaprumo Y- (D4)	0.00	1.29	-2.52	0.00	-0.02	0.01
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	4.43	-1256.42	729.36	0.01	-2.05	1.55
G1+G2+0.7Q+0.6V2+D2	4.43	-1256.44	726.68	-0.03	-2.05	1.39
G1+G2+0.7Q+0.6V3+D3	4.43	-1258.10	733.42	-0.01	-2.03	1.45
G1+G2+0.7Q+0.6V4+D4	4.43	-1254.75	722.61	-0.01	-2.08	1.48
G1+G2+0.7Q+V1+0.6D1	4.43	-1256.41	729.03	0.01	-2.05	1.55
G1+G2+0.7Q+V2+0.6D2	4.43	-1256.44	727.00	-0.03	-2.05	1.38
G1+G2+0.7Q+V3+0.6D3	4.43	-1257.85	734.34	-0.01	-2.03	1.45
G1+G2+0.7Q+V4+0.6D4	4.43	-1255.00	721.70	-0.01	-2.08	1.49
G1+G2+D1	4.43	-1256.67	740.85	0.00	-2.05	1.53
G1+G2+D2	4.43	-1256.68	738.55	-0.03	-2.05	1.44
G1+G2+D3	4.43	-1257.96	742.23	-0.01	-2.04	1.48
G1+G2+D4	4.43	-1255.39	737.18	-0.01	-2.07	1.49
G1+G2+Q+0.6V1+0.6D1	4.43	-1256.31	723.90	0.00	-2.05	1.52
G1+G2+Q+0.6V2+0.6D2	4.43	-1256.33	722.13	-0.02	-2.05	1.40
G1+G2+Q+0.6V3+0.6D3	4.43	-1257.48	727.41	-0.01	-2.04	1.45
G1+G2+Q+0.6V4+0.6D4	4.42	-1255.16	718.62	-0.01	-2.07	1.47
G1+G2+Q+D1	4.43	-1256.31	724.16	0.00	-2.05	1.50
G1+G2+Q+D2	4.43	-1256.32	721.86	-0.03	-2.05	1.42
G1+G2+Q+D3	4.43	-1257.60	725.54	-0.01	-2.04	1.45
G1+G2+Q+D4	4.43	-1255.03	720.49	-0.01	-2.07	1.47

Fundação B23						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	19.64	-152.48	-216.76	-0.17	-0.11	-0.63
Adicional (G2)	7.39	-117.74	-46.57	-0.13	-0.19	-1.25
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	4.62	21.46	-136.93	-0.05	-0.03	0.06
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	-0.15	-8.19	99.47	-0.02	0.01	-0.02
Vento X- (V2)	0.15	8.19	-99.47	0.02	-0.01	0.02
Vento Y+ (V3)	0.10	-280.52	9.49	0.00	0.24	0.11
Vento Y- (V4)	-0.10	280.52	-9.49	0.00	-0.24	-0.11
Desaprumo X+ (D1)	-0.12	0.34	71.69	-0.01	0.00	-0.03
Desaprumo X- (D2)	0.12	-0.34	-71.69	0.01	0.00	0.03
Desaprumo Y+ (D3)	0.04	-142.31	3.38	0.00	0.12	0.04
Desaprumo Y- (D4)	-0.04	142.31	-3.38	0.00	-0.12	-0.04
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	30.06	-259.76	-227.81	-0.35	-0.31	-1.89
G1+G2+0.7Q+0.6V2+D2	30.47	-250.62	-490.56	-0.32	-0.32	-1.81
G1+G2+0.7Q+0.6V3+D3	30.37	-565.81	-350.11	-0.34	-0.05	-1.74
G1+G2+0.7Q+0.6V4+D4	30.17	55.43	-368.26	-0.33	-0.58	-1.96
G1+G2+0.7Q+V1+0.6D1	30.04	-263.17	-216.70	-0.35	-0.31	-1.89
G1+G2+0.7Q+V2+0.6D2	30.49	-247.21	-501.67	-0.32	-0.32	-1.81
G1+G2+0.7Q+V3+0.6D3	30.39	-621.09	-347.67	-0.34	-0.01	-1.71
G1+G2+0.7Q+V4+0.6D4	30.14	110.71	-370.70	-0.33	-0.63	-1.98
G1+G2+D1	26.92	-269.87	-191.65	-0.30	-0.30	-1.91

G1+G2+D2	27.15	-270.56	-335.03	-0.29	-0.30	-1.86
G1+G2+D3	27.07	-412.52	-259.96	-0.30	-0.17	-1.84
G1+G2+D4	26.99	-127.90	-266.71	-0.30	-0.42	-1.93
G1+G2+Q+0.6V1+0.6D1	31.49	-253.46	-297.56	-0.36	-0.32	-1.86
G1+G2+Q+0.6V2+0.6D2	31.81	-244.05	-502.96	-0.34	-0.33	-1.80
G1+G2+Q+0.6V3+0.6D3	31.74	-502.45	-392.54	-0.35	-0.11	-1.74
G1+G2+Q+0.6V4+0.6D4	31.57	4.94	-407.98	-0.35	-0.54	-1.92
G1+G2+Q+D1	31.54	-248.41	-328.57	-0.36	-0.32	-1.86
G1+G2+Q+D2	31.77	-249.10	-471.95	-0.34	-0.32	-1.80
G1+G2+Q+D3	31.69	-391.06	-396.89	-0.35	-0.20	-1.79
G1+G2+Q+D4	31.61	-106.44	-403.64	-0.35	-0.45	-1.88

Fundação B24						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	1.17	-230.67	91.77	-0.26	0.00	-0.07
Adicional (G2)	1.68	-395.08	68.77	-0.05	0.00	-0.14
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	-0.06	0.39	21.12	-0.15	0.00	0.01
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.02	-0.71	-27.50	0.21	0.00	0.00
Vento X- (V2)	-0.02	0.71	27.50	-0.21	0.00	0.00
Vento Y+ (V3)	0.00	-1.25	-2.60	0.02	0.01	-0.02
Vento Y- (V4)	0.00	1.25	2.60	-0.02	-0.01	0.02
Desaprumo X+ (D1)	0.02	-0.51	-19.25	0.16	0.00	0.00
Desaprumo X- (D2)	-0.02	0.51	19.25	-0.16	0.00	0.00
Desaprumo Y+ (D3)	0.00	-1.04	-0.93	0.01	0.01	-0.01
Desaprumo Y- (D4)	0.00	1.04	0.93	-0.01	-0.01	0.01
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	2.83	-626.41	139.56	-0.13	-0.01	-0.20
G1+G2+0.7Q+0.6V2+D2	2.78	-624.55	211.07	-0.69	-0.01	-0.21
G1+G2+0.7Q+0.6V3+D3	2.81	-627.27	172.82	-0.40	0.01	-0.23
G1+G2+0.7Q+0.6V4+D4	2.80	-623.69	177.81	-0.43	-0.02	-0.18
G1+G2+0.7Q+V1+0.6D1	2.84	-626.49	136.26	-0.11	-0.01	-0.20
G1+G2+0.7Q+V2+0.6D2	2.78	-624.47	214.37	-0.72	-0.01	-0.21
G1+G2+0.7Q+V3+0.6D3	2.81	-627.35	172.15	-0.39	0.01	-0.23
G1+G2+0.7Q+V4+0.6D4	2.80	-623.61	178.48	-0.44	-0.02	-0.18
G1+G2+D1	2.86	-626.26	141.28	-0.15	-0.01	-0.21
G1+G2+D2	2.83	-625.25	179.79	-0.46	-0.01	-0.21
G1+G2+D3	2.85	-626.79	159.60	-0.30	0.00	-0.22
G1+G2+D4	2.85	-624.72	161.46	-0.31	-0.02	-0.20
G1+G2+Q+0.6V1+0.6D1	2.81	-626.09	153.59	-0.24	-0.01	-0.20
G1+G2+Q+0.6V2+0.6D2	2.77	-624.63	209.70	-0.68	-0.01	-0.20
G1+G2+Q+0.6V3+0.6D3	2.79	-626.74	179.53	-0.44	0.00	-0.22
G1+G2+Q+0.6V4+0.6D4	2.79	-623.99	183.77	-0.47	-0.02	-0.18
G1+G2+Q+D1	2.80	-625.87	162.39	-0.30	-0.01	-0.20
G1+G2+Q+D2	2.77	-624.86	200.90	-0.61	-0.01	-0.20
G1+G2+Q+D3	2.79	-626.40	180.72	-0.45	0.00	-0.21
G1+G2+Q+D4	2.79	-624.32	182.58	-0.47	-0.02	-0.19

Fundação B25						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	28.30	220.06	51.59	0.09	-0.20	-0.11

Adicional (G2)	9.70	182.46	45.97	-0.05	-0.17	-0.11
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	8.71	175.16	16.81	0.03	-0.16	-0.04
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.01	-10.70	82.45	-0.05	0.01	0.01
Vento X- (V2)	-0.01	10.70	-82.45	0.05	-0.01	-0.01
Vento Y+ (V3)	0.34	-511.41	7.48	-0.01	0.29	0.10
Vento Y- (V4)	-0.34	511.41	-7.48	0.01	-0.29	-0.10
Desaprumo X+ (D1)	0.00	0.23	59.07	-0.03	0.00	0.00
Desaprumo X- (D2)	0.00	-0.23	-59.07	0.03	0.00	0.00
Desaprumo Y+ (D3)	0.15	-256.01	2.74	0.00	0.15	0.04
Desaprumo Y- (D4)	-0.15	256.01	-2.74	0.00	-0.15	-0.04
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	44.11	518.94	217.87	0.00	-0.48	-0.24
G1+G2+0.7Q+0.6V2+D2	44.10	531.32	0.79	0.12	-0.48	-0.25
G1+G2+0.7Q+0.6V3+D3	44.46	-37.73	116.56	0.05	-0.16	-0.15
G1+G2+0.7Q+0.6V4+D4	43.75	1087.98	102.09	0.07	-0.80	-0.34
G1+G2+0.7Q+V1+0.6D1	44.11	514.56	227.22	-0.01	-0.48	-0.23
G1+G2+0.7Q+V2+0.6D2	44.10	535.69	-8.56	0.13	-0.49	-0.26
G1+G2+0.7Q+V3+0.6D3	44.53	-139.89	118.45	0.05	-0.10	-0.12
G1+G2+0.7Q+V4+0.6D4	43.68	1190.15	100.20	0.07	-0.86	-0.37
G1+G2+D1	38.00	402.75	156.63	0.01	-0.37	-0.22
G1+G2+D2	38.01	402.29	38.50	0.07	-0.37	-0.21
G1+G2+D3	38.15	146.51	100.31	0.04	-0.22	-0.18
G1+G2+D4	37.86	658.53	94.82	0.04	-0.52	-0.25
G1+G2+Q+0.6V1+0.6D1	46.72	571.39	199.28	0.02	-0.53	-0.25
G1+G2+Q+0.6V2+0.6D2	46.72	583.96	29.46	0.12	-0.53	-0.27
G1+G2+Q+0.6V3+0.6D3	47.01	117.22	120.50	0.06	-0.26	-0.17
G1+G2+Q+0.6V4+0.6D4	46.43	1038.13	108.23	0.07	-0.79	-0.34
G1+G2+Q+D1	46.72	577.91	173.44	0.04	-0.53	-0.26
G1+G2+Q+D2	46.72	577.44	55.30	0.10	-0.53	-0.26
G1+G2+Q+D3	46.87	321.67	117.11	0.07	-0.38	-0.22
G1+G2+Q+D4	46.57	833.68	111.63	0.07	-0.68	-0.30

Fundação B26						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	1.33	-233.93	-23.39	-0.02	0.00	0.06
Adicional (G2)	2.14	-399.44	-57.95	0.05	0.00	0.11
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	0.03	-0.12	3.78	-0.02	0.00	-0.01
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.00	0.81	-23.32	0.18	0.00	0.00
Vento X- (V2)	0.00	-0.81	23.32	-0.18	0.00	0.00
Vento Y+ (V3)	0.00	-1.14	-2.31	0.02	0.01	-0.01
Vento Y- (V4)	0.00	1.14	2.31	-0.02	-0.01	0.01
Desaprumo X+ (D1)	0.00	0.60	-16.00	0.13	0.00	0.00
Desaprumo X- (D2)	0.00	-0.60	16.00	-0.13	0.00	0.00
Desaprumo Y+ (D3)	0.00	-1.22	-0.84	0.01	0.01	0.00
Desaprumo Y- (D4)	0.00	1.22	0.84	-0.01	-0.01	0.00
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00

G1+G2+0.7Q+0.6V1+D1	3.48	-632.36	-108.69	0.25	-0.01	0.17
G1+G2+0.7Q+0.6V2+D2	3.49	-634.54	-48.71	-0.23	-0.01	0.17
G1+G2+0.7Q+0.6V3+D3	3.48	-635.35	-80.92	0.03	0.01	0.16
G1+G2+0.7Q+0.6V4+D4	3.48	-631.55	-76.48	-0.01	-0.03	0.17
G1+G2+0.7Q+V1+0.6D1	3.48	-632.28	-111.62	0.27	-0.01	0.17
G1+G2+0.7Q+V2+0.6D2	3.49	-634.62	-45.78	-0.24	-0.01	0.17
G1+G2+0.7Q+V3+0.6D3	3.48	-635.32	-81.51	0.03	0.01	0.16
G1+G2+0.7Q+V4+0.6D4	3.48	-631.58	-75.89	-0.01	-0.02	0.17
G1+G2+D1	3.46	-632.77	-97.34	0.15	-0.01	0.17
G1+G2+D2	3.47	-633.97	-65.35	-0.11	-0.01	0.17
G1+G2+D3	3.46	-634.58	-82.18	0.03	0.00	0.17
G1+G2+D4	3.46	-632.15	-80.51	0.01	-0.02	0.17
G1+G2+Q+0.6V1+0.6D1	3.49	-632.64	-101.16	0.19	-0.01	0.17
G1+G2+Q+0.6V2+0.6D2	3.49	-634.33	-53.98	-0.18	-0.01	0.17
G1+G2+Q+0.6V3+0.6D3	3.49	-634.90	-79.46	0.02	0.00	0.16
G1+G2+Q+0.6V4+0.6D4	3.49	-632.07	-75.68	-0.01	-0.02	0.17
G1+G2+Q+D1	3.49	-632.89	-93.57	0.14	-0.01	0.17
G1+G2+Q+D2	3.49	-634.09	-61.57	-0.13	-0.01	0.17
G1+G2+Q+D3	3.49	-634.70	-78.40	0.01	0.00	0.16
G1+G2+Q+D4	3.49	-632.27	-76.73	0.00	-0.02	0.17

Fundação B27						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	27.96	-131.45	-76.61	0.07	-0.16	0.04
Adicional (G2)	11.07	-271.59	-30.08	0.10	-0.19	0.18
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	8.75	64.79	-25.82	0.01	-0.08	-0.03
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.01	-6.03	70.72	-0.07	0.00	0.02
Vento X- (V2)	-0.01	6.03	-70.72	0.07	0.00	-0.02
Vento Y+ (V3)	0.43	-384.22	7.79	-0.01	0.25	0.08
Vento Y- (V4)	-0.43	384.22	-7.79	0.01	-0.25	-0.08
Desaprumo X+ (D1)	0.00	-1.68	50.90	-0.04	0.00	0.01
Desaprumo X- (D2)	0.00	1.68	-50.90	0.04	0.00	-0.01
Desaprumo Y+ (D3)	0.19	-198.50	2.85	0.00	0.13	0.03
Desaprumo Y- (D4)	-0.19	198.50	-2.85	0.00	-0.13	-0.03
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	45.15	-362.99	-31.44	0.09	-0.40	0.23
G1+G2+0.7Q+0.6V2+D2	45.13	-352.39	-218.09	0.26	-0.41	0.18
G1+G2+0.7Q+0.6V3+D3	45.59	-786.72	-117.24	0.17	-0.13	0.29
G1+G2+0.7Q+0.6V4+D4	44.70	71.34	-132.29	0.18	-0.68	0.12
G1+G2+0.7Q+V1+0.6D1	45.16	-364.73	-23.51	0.08	-0.40	0.24
G1+G2+0.7Q+V2+0.6D2	45.13	-350.65	-226.02	0.27	-0.41	0.18
G1+G2+0.7Q+V3+0.6D3	45.69	-861.01	-115.27	0.16	-0.08	0.31
G1+G2+0.7Q+V4+0.6D4	44.60	145.63	-134.27	0.18	-0.73	0.10
G1+G2+D1	39.03	-404.72	-55.80	0.12	-0.35	0.24
G1+G2+D2	39.02	-401.36	-157.59	0.21	-0.35	0.22
G1+G2+D3	39.21	-601.54	-103.84	0.16	-0.22	0.26
G1+G2+D4	38.83	-204.54	-109.55	0.17	-0.48	0.19
G1+G2+Q+0.6V1+0.6D1	47.78	-342.88	-59.54	0.11	-0.42	0.22
G1+G2+Q+0.6V2+0.6D2	47.76	-333.63	-205.48	0.24	-0.43	0.18
G1+G2+Q+0.6V3+0.6D3	48.14	-687.88	-126.13	0.17	-0.20	0.27
G1+G2+Q+0.6V4+0.6D4	47.40	11.38	-138.90	0.18	-0.65	0.13

G1+G2+Q+D1	47.77	-339.94	-81.62	0.13	-0.43	0.21
G1+G2+Q+D2	47.76	-336.57	-183.41	0.22	-0.43	0.19
G1+G2+Q+D3	47.96	-536.76	-129.66	0.17	-0.30	0.23
G1+G2+Q+D4	47.58	-139.75	-135.36	0.18	-0.56	0.16

Fundação B28						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	0.84	-10.24	105.17	-0.23	0.26	0.64
Adicional (G2)	1.41	-17.43	171.46	-0.35	0.44	0.65
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	0.00	0.15	4.27	-0.03	0.00	0.01
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.00	0.00	-27.26	0.21	0.00	0.01
Vento X- (V2)	0.00	0.00	27.26	-0.21	0.00	-0.01
Vento Y+ (V3)	0.00	-0.78	-3.42	0.02	0.01	0.03
Vento Y- (V4)	0.00	0.78	3.42	-0.02	-0.01	-0.03
Desaprumo X+ (D1)	0.00	0.00	-19.24	0.15	0.00	0.01
Desaprumo X- (D2)	0.00	0.00	19.24	-0.15	0.00	-0.01
Desaprumo Y+ (D3)	0.00	-0.60	-1.27	0.01	0.01	0.02
Desaprumo Y- (D4)	0.00	0.60	1.27	-0.01	-0.01	-0.02
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	2.26	-27.57	244.02	-0.33	0.70	1.30
G1+G2+0.7Q+0.6V2+D2	2.25	-27.58	315.21	-0.88	0.70	1.28
G1+G2+0.7Q+0.6V3+D3	2.25	-28.64	276.29	-0.58	0.72	1.33
G1+G2+0.7Q+0.6V4+D4	2.25	-26.51	282.94	-0.63	0.69	1.26
G1+G2+0.7Q+V1+0.6D1	2.26	-27.57	240.81	-0.31	0.70	1.31
G1+G2+0.7Q+V2+0.6D2	2.25	-27.58	318.42	-0.91	0.70	1.28
G1+G2+0.7Q+V3+0.6D3	2.25	-28.71	275.43	-0.58	0.72	1.34
G1+G2+0.7Q+V4+0.6D4	2.25	-26.44	283.80	-0.63	0.69	1.25
G1+G2+D1	2.25	-27.67	257.39	-0.43	0.70	1.30
G1+G2+D2	2.25	-27.68	295.87	-0.73	0.70	1.28
G1+G2+D3	2.25	-28.27	275.35	-0.57	0.71	1.31
G1+G2+D4	2.25	-27.08	277.90	-0.59	0.70	1.27
G1+G2+Q+0.6V1+0.6D1	2.26	-27.53	252.99	-0.40	0.70	1.30
G1+G2+Q+0.6V2+0.6D2	2.25	-27.53	308.80	-0.83	0.70	1.29
G1+G2+Q+0.6V3+0.6D3	2.25	-28.35	278.08	-0.60	0.71	1.33
G1+G2+Q+0.6V4+0.6D4	2.25	-26.70	283.71	-0.64	0.70	1.27
G1+G2+Q+D1	2.26	-27.53	261.65	-0.46	0.70	1.30
G1+G2+Q+D2	2.25	-27.53	300.14	-0.77	0.70	1.29
G1+G2+Q+D3	2.25	-28.13	279.62	-0.61	0.71	1.31
G1+G2+Q+D4	2.25	-26.93	282.17	-0.63	0.70	1.28

Fundação B29						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	45.39	-321.34	-80.84	0.19	-1.05	1.42
Adicional (G2)	10.47	-241.52	-223.57	0.28	-0.34	1.84
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	16.45	770.60	-0.11	0.00	-0.52	-0.01
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.04	1.80	117.04	0.00	0.00	-0.14
Vento X- (V2)	-0.04	-1.80	-117.04	0.00	0.00	0.14
Vento Y+ (V3)	0.28	-392.22	14.12	0.00	0.24	0.04

Vento Y- (V4)	-0.28	392.22	-14.12	0.00	-0.24	-0.04
Desaprumo X+ (D1)	0.03	-0.21	84.28	0.00	0.00	-0.11
Desaprumo X- (D2)	-0.03	0.21	-84.28	0.00	0.00	0.11
Desaprumo Y+ (D3)	0.14	-206.96	5.29	0.00	0.13	0.01
Desaprumo Y- (D4)	-0.14	206.96	-5.29	0.00	-0.13	-0.01
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	67.42	-22.57	-149.98	0.47	-1.76	3.06
G1+G2+0.7Q+0.6V2+D2	67.32	-24.31	-458.99	0.47	-1.76	3.44
G1+G2+0.7Q+0.6V3+D3	67.67	-465.73	-290.73	0.47	-1.49	3.28
G1+G2+0.7Q+0.6V4+D4	67.07	418.85	-318.25	0.47	-2.03	3.22
G1+G2+0.7Q+V1+0.6D1	67.42	-21.77	-136.88	0.47	-1.76	3.05
G1+G2+0.7Q+V2+0.6D2	67.32	-25.12	-472.10	0.47	-1.76	3.46
G1+G2+0.7Q+V3+0.6D3	67.73	-539.83	-287.19	0.47	-1.45	3.29
G1+G2+0.7Q+V4+0.6D4	67.01	492.95	-321.78	0.47	-2.08	3.21
G1+G2+D1	55.88	-563.07	-220.13	0.47	-1.40	3.15
G1+G2+D2	55.83	-562.65	-388.69	0.46	-1.40	3.37
G1+G2+D3	55.99	-769.82	-299.12	0.47	-1.27	3.27
G1+G2+D4	55.72	-355.90	-309.70	0.47	-1.53	3.25
G1+G2+Q+0.6V1+0.6D1	72.34	208.69	-183.72	0.47	-1.92	3.10
G1+G2+Q+0.6V2+0.6D2	72.27	206.78	-425.31	0.47	-1.92	3.40
G1+G2+Q+0.6V3+0.6D3	72.56	-151.77	-292.87	0.47	-1.70	3.28
G1+G2+Q+0.6V4+0.6D4	72.06	567.24	-316.16	0.47	-2.14	3.23
G1+G2+Q+D1	72.33	207.52	-220.24	0.47	-1.92	3.14
G1+G2+Q+D2	72.28	207.95	-388.80	0.47	-1.92	3.36
G1+G2+Q+D3	72.44	0.78	-299.23	0.47	-1.79	3.26
G1+G2+Q+D4	72.17	414.70	-309.81	0.47	-2.05	3.24

Fundação B30						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	0.39	-74.67	11.33	0.33	-0.02	-0.40
Adicional (G2)	0.42	-127.41	-85.83	0.77	-0.03	-0.74
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	0.06	0.01	28.07	-0.06	0.00	0.02
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	-0.07	-0.01	-18.47	0.14	0.00	-0.02
Vento X- (V2)	0.07	0.01	18.47	-0.14	0.00	0.02
Vento Y+ (V3)	-0.01	-1.10	-1.57	0.01	0.01	-0.09
Vento Y- (V4)	0.01	1.10	1.57	-0.01	-0.01	0.09
Desaprumo X+ (D1)	-0.05	-0.01	-13.39	0.10	0.00	-0.02
Desaprumo X- (D2)	0.05	0.01	13.39	-0.10	0.00	0.02
Desaprumo Y+ (D3)	0.00	-0.42	-0.53	0.01	0.00	-0.04
Desaprumo Y- (D4)	0.00	0.42	0.53	-0.01	0.00	0.04
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	0.76	-202.10	-79.32	1.24	-0.04	-1.16
G1+G2+0.7Q+0.6V2+D2	0.95	-202.06	-30.38	0.87	-0.04	-1.09
G1+G2+0.7Q+0.6V3+D3	0.85	-203.16	-56.33	1.07	-0.03	-1.22
G1+G2+0.7Q+0.6V4+D4	0.86	-200.99	-53.37	1.04	-0.05	-1.03
G1+G2+0.7Q+V1+0.6D1	0.75	-202.09	-81.35	1.25	-0.04	-1.16
G1+G2+0.7Q+V2+0.6D2	0.96	-202.06	-28.35	0.85	-0.04	-1.09
G1+G2+0.7Q+V3+0.6D3	0.84	-203.43	-56.75	1.07	-0.03	-1.24

G1+G2+0.7Q+V4+0.6D4	0.86	-200.72	-52.96	1.04	-0.06	-1.02
G1+G2+D1	0.76	-202.10	-87.89	1.20	-0.04	-1.16
G1+G2+D2	0.87	-202.07	-61.11	1.00	-0.04	-1.12
G1+G2+D3	0.81	-202.51	-75.03	1.10	-0.04	-1.18
G1+G2+D4	0.82	-201.66	-73.97	1.09	-0.05	-1.10
G1+G2+Q+0.6V1+0.6D1	0.80	-202.09	-65.55	1.18	-0.04	-1.14
G1+G2+Q+0.6V2+0.6D2	0.95	-202.06	-27.32	0.89	-0.04	-1.09
G1+G2+Q+0.6V3+0.6D3	0.87	-202.99	-47.70	1.05	-0.04	-1.20
G1+G2+Q+0.6V4+0.6D4	0.88	-201.16	-45.17	1.02	-0.05	-1.04
G1+G2+Q+D1	0.82	-202.09	-59.82	1.13	-0.04	-1.14
G1+G2+Q+D2	0.92	-202.06	-33.04	0.93	-0.04	-1.10
G1+G2+Q+D3	0.87	-202.50	-46.97	1.04	-0.04	-1.16
G1+G2+Q+D4	0.87	-201.65	-45.90	1.03	-0.05	-1.08

Fundação B31						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	26.69	-208.94	156.07	-0.53	-0.04	0.14
Adicional (G2)	10.48	-260.91	334.59	-1.18	-0.06	0.81
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	8.81	24.23	-22.07	0.08	-0.07	-0.06
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.04	7.29	65.14	0.00	0.00	-0.01
Vento X- (V2)	-0.04	-7.29	-65.14	0.00	0.00	0.01
Vento Y+ (V3)	0.20	-313.84	6.99	0.00	0.21	-0.05
Vento Y- (V4)	-0.20	313.84	-6.99	0.00	-0.21	0.05
Desaprumo X+ (D1)	0.02	0.06	47.17	0.01	0.00	-0.02
Desaprumo X- (D2)	-0.02	-0.06	-47.17	-0.01	0.00	0.02
Desaprumo Y+ (D3)	0.10	-172.28	2.61	0.00	0.12	-0.04
Desaprumo Y- (D4)	-0.10	172.28	-2.61	0.00	-0.12	0.04
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	43.38	-448.46	561.45	-1.64	-0.15	0.88
G1+G2+0.7Q+0.6V2+D2	43.28	-457.32	388.95	-1.66	-0.15	0.93
G1+G2+0.7Q+0.6V3+D3	43.55	-813.48	482.01	-1.65	0.09	0.84
G1+G2+0.7Q+0.6V4+D4	43.11	-92.30	468.40	-1.65	-0.39	0.97
G1+G2+0.7Q+V1+0.6D1	43.39	-445.56	568.64	-1.64	-0.16	0.88
G1+G2+0.7Q+V2+0.6D2	43.28	-460.22	381.76	-1.66	-0.15	0.93
G1+G2+0.7Q+V3+0.6D3	43.59	-870.10	483.76	-1.65	0.13	0.84
G1+G2+0.7Q+V4+0.6D4	43.07	-35.68	466.64	-1.65	-0.43	0.98
G1+G2+D1	37.19	-469.80	537.82	-1.70	-0.10	0.93
G1+G2+D2	37.14	-469.91	443.48	-1.71	-0.10	0.96
G1+G2+D3	37.27	-642.14	493.26	-1.70	0.02	0.91
G1+G2+D4	37.07	-297.57	488.04	-1.70	-0.22	0.98
G1+G2+Q+0.6V1+0.6D1	46.01	-441.21	535.96	-1.62	-0.17	0.87
G1+G2+Q+0.6V2+0.6D2	45.94	-450.03	401.20	-1.63	-0.17	0.91
G1+G2+Q+0.6V3+0.6D3	46.16	-737.30	474.34	-1.63	0.02	0.84
G1+G2+Q+0.6V4+0.6D4	45.80	-153.95	462.82	-1.63	-0.37	0.94
G1+G2+Q+D1	46.00	-445.56	515.75	-1.62	-0.17	0.87
G1+G2+Q+D2	45.95	-445.68	421.41	-1.64	-0.17	0.91
G1+G2+Q+D3	46.07	-617.91	471.19	-1.63	-0.05	0.85
G1+G2+Q+D4	45.88	-273.34	465.97	-1.63	-0.29	0.93

Fundação B34						
Combinação	**N**	**Mx**	**My**	**Vx**	**Vy**	**Mt**

	(tf)	(kgf.m)	(kgf.m)	(tf)	(tf)	(kgf/m)
Peso próprio (G1)	42.60	499.37	-9.45	-0.03	-0.44	2.76
Adicional (G2)	15.13	654.69	-8.33	-0.01	-0.45	2.63
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	14.86	719.66	-10.89	-0.04	-0.50	2.98
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.07	-12.90	15.75	0.02	0.01	-0.05
Vento X- (V2)	-0.07	12.90	-15.75	-0.02	-0.01	0.05
Vento Y+ (V3)	0.50	-394.97	-0.86	0.00	0.17	-1.64
Vento Y- (V4)	-0.50	394.97	0.86	0.00	-0.17	1.64
Desaprumo X+ (D1)	0.06	-13.55	13.82	0.01	0.01	-0.05
Desaprumo X- (D2)	-0.06	13.55	-13.82	-0.01	-0.01	0.05
Desaprumo Y+ (D3)	0.25	-244.95	-0.18	0.00	0.11	-0.96
Desaprumo Y- (D4)	-0.25	244.95	0.18	0.00	-0.11	0.96
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	68.23	1636.53	-2.13	-0.04	-1.23	7.39
G1+G2+0.7Q+0.6V2+D2	68.03	1679.11	-48.68	-0.09	-1.25	7.56
G1+G2+0.7Q+0.6V3+D3	68.68	1175.88	-26.11	-0.07	-1.03	5.53
G1+G2+0.7Q+0.6V4+D4	67.58	2139.75	-24.70	-0.06	-1.45	9.42
G1+G2+0.7Q+V1+0.6D1	68.24	1636.79	-1.36	-0.04	-1.23	7.39
G1+G2+0.7Q+V2+0.6D2	68.02	1678.85	-49.45	-0.09	-1.25	7.56
G1+G2+0.7Q+V3+0.6D3	68.78	1115.88	-26.38	-0.07	-1.01	5.26
G1+G2+0.7Q+V4+0.6D4	67.48	2199.76	-24.43	-0.06	-1.47	9.70
G1+G2+D1	57.78	1140.51	-3.96	-0.02	-0.88	5.34
G1+G2+D2	57.67	1167.61	-31.60	-0.05	-0.90	5.44
G1+G2+D3	57.97	909.11	-17.96	-0.04	-0.78	4.43
G1+G2+D4	57.48	1399.01	-17.60	-0.04	-1.00	6.35
G1+G2+Q+0.6V1+0.6D1	72.66	1857.85	-10.93	-0.06	-1.38	8.31
G1+G2+Q+0.6V2+0.6D2	72.51	1889.59	-46.42	-0.09	-1.40	8.43
G1+G2+Q+0.6V3+0.6D3	73.04	1489.76	-29.30	-0.08	-1.22	6.81
G1+G2+Q+0.6V4+0.6D4	72.14	2257.67	-28.05	-0.07	-1.56	9.93
G1+G2+Q+D1	72.64	1860.17	-14.85	-0.06	-1.38	8.32
G1+G2+Q+D2	72.53	1887.26	-42.50	-0.09	-1.40	8.42
G1+G2+Q+D3	72.83	1628.76	-28.86	-0.08	-1.28	7.41
G1+G2+Q+D4	72.34	2118.67	-28.49	-0.07	-1.50	9.33

Fundação B35						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	45.32	925.40	0.99	0.01	-0.70	-5.80
Adicional (G2)	15.95	749.81	-29.91	-0.06	-0.50	-5.53
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	15.65	856.78	30.43	0.07	-0.58	-6.34
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	-0.10	5.33	27.42	0.04	0.00	0.01
Vento X- (V2)	0.10	-5.33	-27.42	-0.04	0.00	-0.01
Vento Y+ (V3)	0.36	-398.38	-0.04	0.00	0.16	3.43
Vento Y- (V4)	-0.36	398.38	0.04	0.00	-0.16	-3.43
Desaprumo X+ (D1)	-0.07	6.07	23.73	0.03	0.00	0.00
Desaprumo X- (D2)	0.07	-6.07	-23.73	-0.03	0.00	0.00
Desaprumo Y+ (D3)	0.18	-232.87	0.48	0.00	0.10	2.00
Desaprumo Y- (D4)	-0.18	232.87	-0.48	0.00	-0.10	-2.00
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00

Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	72.09	2284.23	32.57	0.05	-1.61	-15.77
G1+G2+0.7Q+0.6V2+D2	72.35	2265.69	-47.79	-0.06	-1.60	-15.78
G1+G2+0.7Q+0.6V3+D3	72.62	1803.07	-7.14	0.00	-1.40	-11.72
G1+G2+0.7Q+0.6V4+D4	71.82	2746.85	-8.07	0.00	-1.81	-19.83
G1+G2+0.7Q+V1+0.6D1	72.08	2283.94	34.05	0.05	-1.61	-15.76
G1+G2+0.7Q+V2+0.6D2	72.36	2265.99	-49.26	-0.06	-1.60	-15.78
G1+G2+0.7Q+V3+0.6D3	72.70	1736.86	-7.35	0.00	-1.38	-11.14
G1+G2+0.7Q+V4+0.6D4	71.75	2813.06	-7.86	0.00	-1.83	-20.40
G1+G2+D1	61.20	1681.28	-5.18	-0.02	-1.20	-11.34
G1+G2+D2	61.34	1669.14	-52.64	-0.08	-1.20	-11.33
G1+G2+D3	61.46	1442.35	-28.43	-0.05	-1.10	-9.34
G1+G2+D4	61.09	1908.08	-29.40	-0.05	-1.30	-13.34
G1+G2+Q+0.6V1+0.6D1	76.82	2538.84	32.21	0.06	-1.78	-17.67
G1+G2+Q+0.6V2+0.6D2	77.02	2525.15	-29.17	-0.02	-1.78	-17.68
G1+G2+Q+0.6V3+0.6D3	77.25	2153.25	1.79	0.02	-1.62	-14.42
G1+G2+Q+0.6V4+0.6D4	76.59	2910.74	1.25	0.02	-1.94	-20.93
G1+G2+Q+D1	76.85	2538.07	25.25	0.05	-1.78	-17.68
G1+G2+Q+D2	76.99	2525.93	-22.21	-0.01	-1.78	-17.67
G1+G2+Q+D3	77.10	2299.13	2.01	0.02	-1.68	-15.67
G1+G2+Q+D4	76.73	2764.86	1.04	0.02	-1.88	-19.67

Fundação B36						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	19.03	52.77	125.93	0.55	-0.57	1.22
Adicional (G2)	7.95	83.90	109.63	0.60	-0.36	0.84
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	4.44	-10.65	13.43	-0.03	-0.03	1.24
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.22	4.40	44.70	0.03	0.01	0.92
Vento X- (V2)	-0.22	-4.40	-44.70	-0.03	-0.01	-0.92
Vento Y+ (V3)	0.13	-61.67	-1.67	0.00	-0.09	-0.62
Vento Y- (V4)	-0.13	61.67	1.67	0.00	0.09	0.62
Desaprumo X+ (D1)	0.18	4.67	39.35	0.03	0.01	0.78
Desaprumo X- (D2)	-0.18	-4.67	-39.35	-0.03	-0.01	-0.78
Desaprumo Y+ (D3)	0.06	-35.44	-0.07	0.00	-0.05	-0.33
Desaprumo Y- (D4)	-0.06	35.44	0.07	0.00	0.05	0.33
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	30.40	136.52	311.14	1.17	-0.94	4.27
G1+G2+0.7Q+0.6V2+D2	29.77	121.90	178.79	1.08	-0.96	1.60
G1+G2+0.7Q+0.6V3+D3	30.23	56.78	243.89	1.12	-1.06	2.23
G1+G2+0.7Q+0.6V4+D4	29.95	201.65	246.04	1.13	-0.85	3.64
G1+G2+0.7Q+V1+0.6D1	30.42	136.41	313.28	1.17	-0.94	4.33
G1+G2+0.7Q+V2+0.6D2	29.76	122.01	176.65	1.08	-0.96	1.55
G1+G2+0.7Q+V3+0.6D3	30.26	46.29	243.25	1.12	-1.07	2.11
G1+G2+0.7Q+V4+0.6D4	29.92	212.14	246.68	1.13	-0.83	3.76
G1+G2+D1	27.16	141.34	274.92	1.18	-0.92	2.85
G1+G2+D2	26.80	132.00	196.21	1.12	-0.94	1.28
G1+G2+D3	27.04	101.23	235.49	1.15	-0.98	1.74
G1+G2+D4	26.92	172.11	235.64	1.15	-0.88	2.40
G1+G2+Q+0.6V1+0.6D1	31.66	131.46	299.43	1.15	-0.95	4.33
G1+G2+Q+0.6V2+0.6D2	31.18	120.58	198.56	1.08	-0.97	2.29

G1+G2+Q+0.6V3+0.6D3	31.53	67.76	247.95	1.12	-1.05	2.74
G1+G2+Q+0.6V4+0.6D4	31.30	184.28	250.04	1.12	-0.88	3.88
G1+G2+Q+D1	31.60	130.69	288.35	1.15	-0.95	4.09
G1+G2+Q+D2	31.24	121.34	209.64	1.09	-0.97	2.52
G1+G2+Q+D3	31.48	90.58	248.92	1.12	-1.01	2.98
G1+G2+Q+D4	31.36	161.45	249.07	1.12	-0.91	3.64

Fundação B37						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	18.46	231.23	203.21	-0.63	0.00	-0.32
Adicional (G2)	8.31	108.81	776.18	-0.94	0.16	-0.38
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	4.59	1.65	-197.11	-0.12	0.00	-0.06
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	-0.12	-8.65	125.28	0.08	0.01	0.08
Vento X- (V2)	0.12	8.65	-125.28	-0.08	-0.01	-0.08
Vento Y+ (V3)	-0.14	-281.00	13.39	0.01	0.24	0.09
Vento Y- (V4)	0.14	281.00	-13.39	-0.01	-0.24	-0.09
Desaprumo X+ (D1)	-0.08	0.07	91.07	0.07	0.00	0.05
Desaprumo X- (D2)	0.08	-0.07	-91.07	-0.07	0.00	-0.05
Desaprumo Y+ (D3)	-0.05	-142.86	5.21	0.00	0.13	0.04
Desaprumo Y- (D4)	0.05	142.86	-5.21	0.00	-0.13	-0.04
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	29.83	336.08	1007.65	-1.54	0.17	-0.64
G1+G2+0.7Q+0.6V2+D2	30.13	346.32	675.19	-1.78	0.17	-0.84
G1+G2+0.7Q+0.6V3+D3	29.84	29.74	854.66	-1.65	0.45	-0.65
G1+G2+0.7Q+0.6V4+D4	30.12	652.66	828.18	-1.67	-0.11	-0.83
G1+G2+0.7Q+V1+0.6D1	29.81	332.59	1021.34	-1.54	0.18	-0.63
G1+G2+0.7Q+V2+0.6D2	30.15	349.80	661.50	-1.78	0.16	-0.85
G1+G2+0.7Q+V3+0.6D3	29.81	-25.52	857.93	-1.65	0.49	-0.63
G1+G2+0.7Q+V4+0.6D4	30.15	707.92	824.91	-1.67	-0.15	-0.85
G1+G2+D1	26.69	340.11	1070.46	-1.51	0.17	-0.65
G1+G2+D2	26.85	339.98	888.33	-1.65	0.17	-0.75
G1+G2+D3	26.72	197.19	984.60	-1.58	0.30	-0.66
G1+G2+D4	26.82	482.90	974.19	-1.58	0.04	-0.74
G1+G2+Q+0.6V1+0.6D1	31.24	336.54	912.09	-1.60	0.18	-0.68
G1+G2+Q+0.6V2+0.6D2	31.47	346.84	652.48	-1.78	0.17	-0.84
G1+G2+Q+0.6V3+0.6D3	31.24	87.38	793.45	-1.69	0.40	-0.68
G1+G2+Q+0.6V4+0.6D4	31.47	596.01	771.13	-1.70	-0.05	-0.83
G1+G2+Q+D1	31.28	341.76	873.36	-1.63	0.17	-0.71
G1+G2+Q+D2	31.43	341.63	691.22	-1.76	0.17	-0.81
G1+G2+Q+D3	31.30	198.83	787.50	-1.69	0.30	-0.72
G1+G2+Q+D4	31.41	484.55	777.08	-1.70	0.04	-0.79

Fundação B38						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	36.26	-401.35	-212.97	0.53	0.24	-2.57
Adicional (G2)	14.82	-209.76	-519.66	1.21	0.16	0.46
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	12.72	-343.65	45.96	-0.08	0.23	-2.61
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	-0.19	-7.52	86.67	0.17	0.00	0.09

Vento X- (V2)	0.19	7.52	-86.67	-0.17	0.00	-0.09
Vento Y+ (V3)	-0.23	-385.49	6.83	0.02	0.13	1.02
Vento Y- (V4)	0.23	385.49	-6.83	-0.02	-0.13	-1.02
Desaprumo X+ (D1)	-0.12	0.41	62.98	0.13	0.00	0.05
Desaprumo X- (D2)	0.12	-0.41	-62.98	-0.13	0.00	-0.05
Desaprumo Y+ (D3)	-0.10	-195.71	2.44	0.01	0.08	0.54
Desaprumo Y- (D4)	0.10	195.71	-2.44	-0.01	-0.08	-0.54
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	59.75	-855.76	-585.48	1.91	0.57	-3.83
G1+G2+0.7Q+0.6V2+D2	60.21	-847.56	-815.44	1.45	0.56	-4.04
G1+G2+0.7Q+0.6V3+D3	59.74	-1278.66	-693.92	1.70	0.72	-2.78
G1+G2+0.7Q+0.6V4+D4	60.22	-424.66	-707.00	1.66	0.41	-5.09
G1+G2+0.7Q+V1+0.6D1	59.72	-858.93	-576.00	1.93	0.57	-3.82
G1+G2+0.7Q+V2+0.6D2	60.24	-844.38	-824.92	1.43	0.56	-4.05
G1+G2+0.7Q+V3+0.6D3	59.68	-1354.57	-692.17	1.70	0.75	-2.59
G1+G2+0.7Q+V4+0.6D4	60.27	-348.74	-708.76	1.66	0.39	-5.28
G1+G2+D1	50.96	-610.69	-669.65	1.87	0.41	-2.05
G1+G2+D2	51.20	-611.52	-795.61	1.61	0.41	-2.16
G1+G2+D3	50.97	-806.81	-730.19	1.74	0.48	-1.56
G1+G2+D4	51.18	-415.39	-735.07	1.73	0.33	-2.65
G1+G2+Q+0.6V1+0.6D1	63.61	-959.02	-596.88	1.83	0.64	-4.63
G1+G2+Q+0.6V2+0.6D2	63.98	-950.49	-776.46	1.48	0.63	-4.80
G1+G2+Q+0.6V3+0.6D3	63.59	-1303.47	-681.11	1.67	0.76	-3.78
G1+G2+Q+0.6V4+0.6D4	64.00	-606.03	-692.24	1.64	0.51	-5.65
G1+G2+Q+D1	63.67	-954.34	-623.69	1.79	0.63	-4.66
G1+G2+Q+D2	63.91	-955.17	-749.66	1.52	0.63	-4.77
G1+G2+Q+D3	63.69	-1150.46	-684.23	1.66	0.71	-4.17
G1+G2+Q+D4	63.90	-759.04	-689.12	1.65	0.55	-5.26

Fundação B39						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	16.13	165.98	-137.90	0.11	-0.05	23.48
Adicional (G2)	4.48	822.63	-99.84	0.13	0.76	-38.33
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	4.04	-166.33	-57.23	-0.01	-0.38	40.31
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	-0.29	-2.34	495.13	0.31	-0.01	0.34
Vento X- (V2)	0.29	2.34	-495.13	-0.31	0.01	-0.34
Vento Y+ (V3)	-0.09	-110.78	44.64	0.03	0.32	-18.14
Vento Y- (V4)	0.09	110.78	-44.64	-0.03	-0.32	18.14
Desaprumo X+ (D1)	-0.20	-0.48	356.88	0.23	-0.01	0.36
Desaprumo X- (D2)	0.20	0.48	-356.88	-0.23	0.01	-0.36
Desaprumo Y+ (D3)	-0.03	-58.66	16.80	0.01	0.18	-9.87
Desaprumo Y- (D4)	0.03	58.66	-16.80	-0.01	-0.18	9.87
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	23.08	870.29	376.16	0.65	0.43	13.93
G1+G2+0.7Q+0.6V2+D2	23.82	874.06	-931.76	-0.19	0.46	12.81
G1+G2+0.7Q+0.6V3+D3	23.36	747.06	-234.22	0.25	0.81	-7.38
G1+G2+0.7Q+0.6V4+D4	23.54	997.30	-321.38	0.20	0.07	34.13
G1+G2+0.7Q+V1+0.6D1	23.04	869.55	431.46	0.68	0.43	13.92

G1+G2+0.7Q+V2+0.6D2	23.86	874.81	-987.06	-0.23	0.46	12.82
G1+G2+0.7Q+V3+0.6D3	23.34	726.21	-223.09	0.26	0.87	-10.69
G1+G2+0.7Q+V4+0.6D4	23.56	1018.15	-332.52	0.19	0.02	37.43
G1+G2+D1	20.42	988.13	119.14	0.47	0.70	-14.49
G1+G2+D2	20.81	989.09	-594.62	0.00	0.71	-15.20
G1+G2+D3	20.59	929.96	-220.95	0.25	0.89	-24.72
G1+G2+D4	20.65	1047.27	-254.54	0.23	0.53	-4.98
G1+G2+Q+0.6V1+0.6D1	24.37	820.59	216.24	0.55	0.32	25.88
G1+G2+Q+0.6V2+0.6D2	24.95	823.97	-806.18	-0.11	0.34	25.05
G1+G2+Q+0.6V3+0.6D3	24.59	720.62	-258.11	0.24	0.63	8.66
G1+G2+Q+0.6V4+0.6D4	24.74	923.94	-331.83	0.20	0.03	42.27
G1+G2+Q+D1	24.47	821.80	61.91	0.46	0.32	25.82
G1+G2+Q+D2	24.86	822.76	-651.85	-0.01	0.34	25.11
G1+G2+Q+D3	24.63	763.62	-278.17	0.23	0.51	15.59
G1+G2+Q+D4	24.69	880.94	-311.77	0.21	0.15	35.33

Fundação B40						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	22.82	-39.75	165.61	-0.51	0.01	-3.44
Adicional (G2)	6.29	-38.59	377.15	-0.80	0.04	3.94
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	7.23	-73.79	-36.47	-0.02	0.04	-5.22
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.54	-7.96	72.62	0.21	0.01	-0.02
Vento X- (V2)	-0.54	7.96	-72.62	-0.21	-0.01	0.02
Vento Y+ (V3)	-0.50	-424.62	6.42	0.02	0.23	2.51
Vento Y- (V4)	0.50	424.62	-6.42	-0.02	-0.23	-2.51
Desaprumo X+ (D1)	0.36	-2.74	52.43	0.15	0.00	-0.05
Desaprumo X- (D2)	-0.36	2.74	-52.43	-0.15	0.00	0.05
Desaprumo Y+ (D3)	-0.24	-220.63	2.37	0.01	0.13	1.35
Desaprumo Y- (D4)	0.24	220.63	-2.37	-0.01	-0.13	-1.35
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	34.86	-137.51	613.24	-1.05	0.09	-3.23
G1+G2+0.7Q+0.6V2+D2	33.49	-122.47	421.23	-1.61	0.08	-3.10
G1+G2+0.7Q+0.6V3+D3	33.63	-605.39	523.45	-1.31	0.35	-0.31
G1+G2+0.7Q+0.6V4+D4	34.72	345.42	511.01	-1.35	-0.18	-6.01
G1+G2+0.7Q+V1+0.6D1	34.93	-139.59	621.31	-1.03	0.09	-3.22
G1+G2+0.7Q+V2+0.6D2	33.42	-120.38	413.15	-1.63	0.08	-3.11
G1+G2+0.7Q+V3+0.6D3	33.53	-686.98	525.07	-1.31	0.39	0.15
G1+G2+0.7Q+V4+0.6D4	34.82	427.01	509.39	-1.35	-0.23	-6.48
G1+G2+D1	29.48	-81.08	595.19	-1.16	0.05	0.45
G1+G2+D2	28.75	-75.59	490.33	-1.47	0.05	0.54
G1+G2+D3	28.87	-298.97	545.13	-1.31	0.18	1.84
G1+G2+D4	29.35	142.30	540.39	-1.32	-0.07	-0.85
G1+G2+Q+0.6V1+0.6D1	36.89	-158.54	581.32	-1.12	0.10	-4.77
G1+G2+Q+0.6V2+0.6D2	35.80	-145.70	431.26	-1.55	0.09	-4.68
G1+G2+Q+0.6V3+0.6D3	35.90	-539.27	511.56	-1.32	0.31	-2.41
G1+G2+Q+0.6V4+0.6D4	36.79	235.03	501.02	-1.35	-0.12	-7.04
G1+G2+Q+D1	36.71	-154.87	558.73	-1.18	0.10	-4.78
G1+G2+Q+D2	35.98	-149.38	453.86	-1.49	0.10	-4.68
G1+G2+Q+D3	36.10	-372.76	508.66	-1.33	0.22	-3.38
G1+G2+Q+D4	36.59	68.51	503.92	-1.34	-0.03	-6.08

Fundação B41						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	31.81	-216.80	-2.46	0.09	0.17	0.15
Adicional (G2)	12.48	-60.17	-18.50	0.26	0.04	-0.14
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	6.00	-243.71	13.01	-0.04	0.20	0.22
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.02	-7.47	101.87	0.09	0.01	-0.16
Vento X- (V2)	-0.02	7.47	-101.87	-0.09	-0.01	0.16
Vento Y+ (V3)	-0.28	-409.14	8.65	0.01	0.23	-0.06
Vento Y- (V4)	0.28	409.14	-8.65	-0.01	-0.23	0.06
Desaprumo X+ (D1)	0.01	-6.81	73.74	0.08	0.01	0.01
Desaprumo X- (D2)	-0.01	6.81	-73.74	-0.08	-0.01	-0.01
Desaprumo Y+ (D3)	-0.13	-218.09	3.18	0.00	0.13	-0.05
Desaprumo Y- (D4)	0.13	218.09	-3.18	0.00	-0.13	0.05
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	48.51	-458.86	123.01	0.45	0.35	0.08
G1+G2+0.7Q+0.6V2+D2	48.46	-436.27	-146.71	0.19	0.34	0.25
G1+G2+0.7Q+0.6V3+D3	48.19	-911.13	-3.47	0.33	0.61	0.08
G1+G2+0.7Q+0.6V4+D4	48.79	16.01	-20.23	0.31	0.08	0.24
G1+G2+0.7Q+V1+0.6D1	48.51	-459.12	134.27	0.45	0.35	0.01
G1+G2+0.7Q+V2+0.6D2	48.46	-436.01	-157.97	0.19	0.34	0.31
G1+G2+0.7Q+V3+0.6D3	48.13	-987.55	-1.29	0.33	0.65	0.07
G1+G2+0.7Q+V4+0.6D4	48.84	92.43	-22.42	0.31	0.04	0.25
G1+G2+D1	44.30	-283.78	52.78	0.43	0.21	0.01
G1+G2+D2	44.27	-270.15	-94.70	0.28	0.20	0.00
G1+G2+D3	44.15	-495.05	-17.77	0.35	0.34	-0.04
G1+G2+D4	44.42	-58.88	-24.14	0.35	0.08	0.05
G1+G2+Q+0.6V1+0.6D1	50.31	-529.24	97.42	0.40	0.41	0.14
G1+G2+Q+0.6V2+0.6D2	50.27	-512.11	-113.32	0.21	0.40	0.32
G1+G2+Q+0.6V3+0.6D3	50.04	-897.01	-0.85	0.31	0.62	0.17
G1+G2+Q+0.6V4+0.6D4	50.53	-144.34	-15.05	0.30	0.19	0.29
G1+G2+Q+D1	50.30	-527.49	65.79	0.38	0.41	0.24
G1+G2+Q+D2	50.27	-513.86	-81.69	0.23	0.40	0.22
G1+G2+Q+D3	50.15	-738.76	-4.76	0.31	0.53	0.18
G1+G2+Q+D4	50.42	-302.59	-11.13	0.30	0.27	0.28

Fundação B42						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	43.86	-527.92	-75.49	-0.38	0.43	-0.62
Adicional (G2)	13.15	-182.53	27.10	-0.80	0.15	-2.34
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	11.71	-345.44	-67.21	0.07	0.28	0.49
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	-0.08	-6.36	86.28	0.03	0.01	2.84
Vento X- (V2)	0.08	6.36	-86.28	-0.03	-0.01	-2.84
Vento Y+ (V3)	-0.39	-363.78	8.35	0.00	0.20	0.26
Vento Y- (V4)	0.39	363.78	-8.35	0.00	-0.20	-0.26
Desaprumo X+ (D1)	-0.04	-10.35	72.14	0.11	0.01	-0.14
Desaprumo X- (D2)	0.04	10.35	-72.14	-0.11	-0.01	0.14
Desaprumo Y+ (D3)	-0.20	-199.85	3.29	0.00	0.12	0.06
Desaprumo Y- (D4)	0.20	199.85	-3.29	0.00	-0.12	-0.06

Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	65.12	-966.43	28.47	-1.00	0.78	-1.05
G1+G2+0.7Q+0.6V2+D2	65.30	-938.10	-219.35	-1.25	0.76	-4.18
G1+G2+0.7Q+0.6V3+D3	64.78	-1370.39	-87.14	-1.12	1.01	-2.40
G1+G2+0.7Q+0.6V4+D4	65.64	-534.15	-103.74	-1.13	0.53	-2.84
G1+G2+0.7Q+V1+0.6D1	65.11	-964.83	34.12	-1.03	0.78	0.13
G1+G2+0.7Q+V2+0.6D2	65.32	-939.70	-225.01	-1.22	0.76	-5.37
G1+G2+0.7Q+V3+0.6D3	64.70	-1435.96	-85.12	-1.12	1.04	-2.32
G1+G2+0.7Q+V4+0.6D4	65.72	-468.57	-105.76	-1.13	0.50	-2.92
G1+G2+D1	56.97	-720.81	23.74	-1.07	0.59	-3.10
G1+G2+D2	57.06	-700.10	-120.54	-1.28	0.57	-2.83
G1+G2+D3	56.82	-910.30	-45.11	-1.17	0.70	-2.90
G1+G2+D4	57.21	-510.61	-51.69	-1.18	0.46	-3.02
G1+G2+Q+0.6V1+0.6D1	68.65	-1065.92	-20.55	-1.02	0.86	-0.85
G1+G2+Q+0.6V2+0.6D2	68.80	-1045.87	-210.66	-1.19	0.85	-4.09
G1+G2+Q+0.6V3+0.6D3	68.37	-1394.08	-108.62	-1.10	1.05	-2.28
G1+G2+Q+0.6V4+0.6D4	69.08	-717.72	-122.59	-1.11	0.67	-2.66
G1+G2+Q+D1	68.68	-1066.25	-43.47	-1.00	0.86	-2.61
G1+G2+Q+D2	68.77	-1045.55	-187.74	-1.21	0.85	-2.34
G1+G2+Q+D3	68.53	-1255.75	-112.32	-1.10	0.97	-2.41
G1+G2+Q+D4	68.92	-856.05	-118.89	-1.11	0.74	-2.53

Fundação B45						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	46.92	-1572.42	65.05	0.30	1.29	1.32
Adicional (G2)	17.62	-377.00	39.82	0.64	0.73	2.15
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	16.97	-1051.89	50.31	-0.10	0.82	-0.31
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.03	-18.55	154.39	0.18	0.01	0.42
Vento X- (V2)	-0.03	18.55	-154.39	-0.18	-0.01	-0.42
Vento Y+ (V3)	-0.51	-556.70	-5.72	-0.01	0.23	0.02
Vento Y- (V4)	0.51	556.70	5.72	0.01	-0.23	-0.02
Desaprumo X+ (D1)	0.02	-19.49	125.26	0.16	0.01	0.35
Desaprumo X- (D2)	-0.02	19.49	-125.26	-0.16	-0.01	-0.35
Desaprumo Y+ (D3)	-0.24	-334.51	-0.87	0.00	0.15	0.05
Desaprumo Y- (D4)	0.24	334.51	0.87	0.00	-0.15	-0.05
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	76.46	-2716.37	357.99	1.15	2.61	3.86
G1+G2+0.7Q+0.6V2+D2	76.38	-2655.13	-77.79	0.60	2.58	2.66
G1+G2+0.7Q+0.6V3+D3	75.87	-3354.28	135.79	0.87	2.89	3.33
G1+G2+0.7Q+0.6V4+D4	76.96	-2017.22	144.40	0.88	2.30	3.20
G1+G2+0.7Q+V1+0.6D1	76.46	-2715.99	369.64	1.15	2.61	3.89
G1+G2+0.7Q+V2+0.6D2	76.37	-2655.50	-89.44	0.59	2.58	2.63
G1+G2+0.7Q+V3+0.6D3	75.77	-3443.15	133.85	0.87	2.92	3.32
G1+G2+0.7Q+V4+0.6D4	77.07	-1928.34	146.34	0.88	2.27	3.21
G1+G2+D1	64.56	-1968.91	230.14	1.10	2.03	3.83
G1+G2+D2	64.51	-1929.94	-20.38	0.78	2.02	3.12
G1+G2+D3	64.30	-2283.94	104.00	0.94	2.18	3.53
G1+G2+D4	64.78	-1614.91	105.75	0.94	1.87	3.43

G1+G2+Q+0.6V1+0.6D1	81.54	-3024.14	322.98	1.05	2.85	3.63
G1+G2+Q+0.6V2+0.6D2	81.48	-2978.49	-12.60	0.64	2.83	2.71
G1+G2+Q+0.6V3+0.6D3	81.06	-3536.04	151.24	0.84	3.07	3.21
G1+G2+Q+0.6V4+0.6D4	81.96	-2466.59	159.15	0.85	2.61	3.13
G1+G2+Q+D1	81.53	-3020.80	280.45	1.01	2.85	3.52
G1+G2+Q+D2	81.49	-2981.83	29.93	0.68	2.83	2.82
G1+G2+Q+D3	81.27	-3335.83	154.32	0.84	3.00	3.22
G1+G2+Q+D4	81.75	-2666.80	156.07	0.85	2.69	3.12

Fundação B46						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	43.92	-1941.19	-44.30	-0.09	1.53	0.46
Adicional (G2)	16.70	-981.86	-48.95	-0.37	0.86	-0.02
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	16.07	-1214.95	-47.34	0.10	1.02	0.13
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	-0.07	8.88	154.43	0.18	0.00	0.00
Vento X- (V2)	0.07	-8.88	-154.43	-0.18	0.00	0.00
Vento Y+ (V3)	-0.36	-615.80	-4.59	-0.01	0.33	0.02
Vento Y- (V4)	0.36	615.80	4.59	0.01	-0.33	-0.02
Desaprumo X+ (D1)	-0.05	10.22	124.81	0.16	-0.01	0.02
Desaprumo X- (D2)	0.05	-10.22	-124.81	-0.16	0.01	-0.02
Desaprumo Y+ (D3)	-0.19	-354.28	-0.28	0.00	0.20	0.05
Desaprumo Y- (D4)	0.19	354.28	0.28	0.00	-0.20	-0.05
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	71.78	-3757.97	91.09	-0.13	3.09	0.55
G1+G2+0.7Q+0.6V2+D2	71.96	-3789.06	-343.85	-0.66	3.11	0.52
G1+G2+0.7Q+0.6V3+D3	71.47	-4497.28	-129.42	-0.40	3.50	0.59
G1+G2+0.7Q+0.6V4+D4	72.27	-3049.75	-123.35	-0.39	2.71	0.48
G1+G2+0.7Q+V1+0.6D1	71.77	-3758.50	102.93	-0.12	3.09	0.54
G1+G2+0.7Q+V2+0.6D2	71.97	-3788.52	-355.70	-0.67	3.11	0.53
G1+G2+0.7Q+V3+0.6D3	71.40	-4601.89	-131.14	-0.40	3.55	0.58
G1+G2+0.7Q+V4+0.6D4	72.34	-2945.14	-121.63	-0.38	2.65	0.49
G1+G2+D1	60.57	-2912.83	31.57	-0.31	2.38	0.46
G1+G2+D2	60.66	-2933.26	-218.06	-0.62	2.39	0.43
G1+G2+D3	60.43	-3277.33	-93.53	-0.47	2.59	0.49
G1+G2+D4	60.80	-2568.76	-92.96	-0.46	2.19	0.39
G1+G2+Q+0.6V1+0.6D1	76.62	-4126.54	26.96	-0.16	3.40	0.58
G1+G2+Q+0.6V2+0.6D2	76.76	-4149.46	-308.13	-0.57	3.41	0.56
G1+G2+Q+0.6V3+0.6D3	76.37	-4720.05	-143.51	-0.37	3.72	0.61
G1+G2+Q+0.6V4+0.6D4	77.02	-3555.95	-137.66	-0.36	3.09	0.54
G1+G2+Q+D1	76.65	-4127.78	-15.77	-0.21	3.40	0.59
G1+G2+Q+D2	76.74	-4148.22	-265.40	-0.52	3.41	0.56
G1+G2+Q+D3	76.51	-4492.28	-140.87	-0.36	3.61	0.62
G1+G2+Q+D4	76.88	-3783.71	-140.30	-0.36	3.21	0.53

Fundação B47						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	19.15	-239.36	-167.67	0.46	1.04	-0.73
Adicional (G2)	7.57	96.67	-632.07	0.55	0.20	-1.60
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	4.53	-128.87	171.11	0.10	0.25	-0.12

Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.21	28.56	197.31	0.14	-0.08	0.91
Vento X- (V2)	-0.21	-28.56	-197.31	-0.14	0.08	-0.91
Vento Y+ (V3)	-0.18	-390.84	-9.04	-0.01	1.08	0.45
Vento Y- (V4)	0.18	390.84	9.04	0.01	-1.08	-0.45
Desaprumo X+ (D1)	0.13	31.09	159.85	0.12	-0.09	0.78
Desaprumo X- (D2)	-0.13	-31.09	-159.85	-0.12	0.09	-0.78
Desaprumo Y+ (D3)	-0.08	-219.90	-1.93	0.00	0.62	0.29
Desaprumo Y- (D4)	0.08	219.90	1.93	0.00	-0.62	-0.29
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	30.15	-184.67	-401.73	1.29	1.28	-1.09
G1+G2+0.7Q+0.6V2+D2	29.63	-281.13	-958.20	0.88	1.55	-3.75
G1+G2+0.7Q+0.6V3+D3	29.70	-687.30	-687.32	1.08	2.68	-1.85
G1+G2+0.7Q+0.6V4+D4	30.08	221.50	-672.61	1.09	0.15	-2.98
G1+G2+0.7Q+V1+0.6D1	30.18	-185.69	-386.74	1.30	1.29	-1.03
G1+G2+0.7Q+V2+0.6D2	29.60	-280.12	-973.18	0.87	1.55	-3.80
G1+G2+0.7Q+V3+0.6D3	29.66	-755.68	-690.16	1.08	2.87	-1.79
G1+G2+0.7Q+V4+0.6D4	30.12	289.88	-669.76	1.09	-0.03	-3.04
G1+G2+D1	26.85	-111.60	-639.89	1.14	1.16	-1.55
G1+G2+D2	26.59	-173.78	-959.59	0.89	1.33	-3.11
G1+G2+D3	26.64	-362.59	-801.67	1.02	1.86	-2.04
G1+G2+D4	26.80	77.20	-797.81	1.02	0.63	-2.62
G1+G2+Q+0.6V1+0.6D1	31.46	-235.77	-414.34	1.27	1.39	-1.44
G1+G2+Q+0.6V2+0.6D2	31.04	-307.35	-842.93	0.96	1.59	-3.47
G1+G2+Q+0.6V3+0.6D3	31.09	-638.00	-635.21	1.11	2.51	-2.01
G1+G2+Q+0.6V4+0.6D4	31.41	94.88	-622.05	1.12	0.48	-2.90
G1+G2+Q+D1	31.38	-240.47	-468.78	1.24	1.41	-1.67
G1+G2+Q+D2	31.12	-302.65	-788.48	0.99	1.58	-3.23
G1+G2+Q+D3	31.17	-491.46	-630.56	1.11	2.11	-2.16
G1+G2+Q+D4	31.33	-51.67	-626.70	1.11	0.88	-2.75

Fundação B48						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	0.76	-314.15	93.30	-0.21	0.00	8.92
Adicional (G2)	1.55	-688.59	182.62	-0.41	0.01	17.43
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	-0.01	16.14	-0.08	0.00	0.00	0.00
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.00	-1.90	0.42	0.01	0.00	0.01
Vento X- (V2)	0.00	1.90	-0.42	-0.01	0.00	-0.01
Vento Y+ (V3)	0.00	-1.40	-0.17	0.00	0.01	-0.05
Vento Y- (V4)	0.00	1.40	0.17	0.00	-0.01	0.05
Desaprumo X+ (D1)	0.00	-1.42	0.52	0.01	0.00	0.00
Desaprumo X- (D2)	0.00	1.42	-0.52	-0.01	0.00	0.00
Desaprumo Y+ (D3)	0.00	-1.04	-0.08	0.00	0.01	-0.03
Desaprumo Y- (D4)	0.00	1.04	0.08	0.00	-0.01	0.03
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	2.30	-994.00	276.63	-0.61	0.01	26.35
G1+G2+0.7Q+0.6V2+D2	2.30	-988.88	275.09	-0.64	0.01	26.34
G1+G2+0.7Q+0.6V3+D3	2.30	-993.33	275.68	-0.63	0.02	26.29

G1+G2+0.7Q+0.6V4+D4	2.30	-989.56	276.05	-0.62	0.00	26.41
G1+G2+0.7Q+V1+0.6D1	2.30	-994.20	276.60	-0.61	0.01	26.35
G1+G2+0.7Q+V2+0.6D2	2.30	-988.69	275.13	-0.64	0.01	26.34
G1+G2+0.7Q+V3+0.6D3	2.30	-993.47	275.64	-0.63	0.02	26.28
G1+G2+0.7Q+V4+0.6D4	2.30	-989.41	276.08	-0.62	0.00	26.42
G1+G2+D1	2.31	-1004.16	276.44	-0.62	0.01	26.35
G1+G2+D2	2.31	-1001.32	275.39	-0.63	0.01	26.35
G1+G2+D3	2.31	-1003.78	275.83	-0.63	0.02	26.32
G1+G2+D4	2.31	-1001.69	276.00	-0.62	0.00	26.37
G1+G2+Q+0.6V1+0.6D1	2.30	-988.59	276.40	-0.61	0.01	26.35
G1+G2+Q+0.6V2+0.6D2	2.30	-984.61	275.27	-0.64	0.01	26.35
G1+G2+Q+0.6V3+0.6D3	2.30	-988.07	275.69	-0.63	0.02	26.30
G1+G2+Q+0.6V4+0.6D4	2.30	-985.13	275.99	-0.62	0.00	26.40
G1+G2+Q+D1	2.30	-988.02	276.36	-0.62	0.01	26.35
G1+G2+Q+D2	2.30	-985.18	275.32	-0.63	0.01	26.35
G1+G2+Q+D3	2.30	-987.65	275.75	-0.63	0.02	26.32
G1+G2+Q+D4	2.30	-985.56	275.92	-0.62	0.00	26.38

Fundação B49						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	1.19	203.50	-89.77	0.21	-0.26	-0.33
Adicional (G2)	2.02	230.22	-175.64	0.41	0.00	-1.32
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	-0.03	57.54	0.01	0.00	-0.29	0.38
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.00	-0.49	0.81	0.01	0.02	-0.28
Vento X- (V2)	0.00	0.49	-0.81	-0.01	-0.02	0.28
Vento Y+ (V3)	-0.02	-6.93	0.17	0.00	0.77	-0.02
Vento Y- (V4)	0.02	6.93	-0.17	0.00	-0.77	0.02
Desaprumo X+ (D1)	0.00	-0.27	1.04	0.01	0.00	-0.23
Desaprumo X- (D2)	0.00	0.27	-1.04	-0.01	0.00	0.23
Desaprumo Y+ (D3)	-0.01	-4.98	0.08	0.00	0.41	-0.01
Desaprumo Y- (D4)	0.01	4.98	-0.08	0.00	-0.41	0.01
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	3.19	473.44	-263.87	0.63	-0.45	-1.78
G1+G2+0.7Q+0.6V2+D2	3.19	474.57	-266.93	0.60	-0.48	-0.99
G1+G2+0.7Q+0.6V3+D3	3.17	464.87	-265.22	0.62	0.41	-1.41
G1+G2+0.7Q+0.6V4+D4	3.22	483.14	-265.58	0.62	-1.33	-1.36
G1+G2+0.7Q+V1+0.6D1	3.19	473.35	-263.96	0.63	-0.44	-1.80
G1+G2+0.7Q+V2+0.6D2	3.19	474.66	-266.83	0.60	-0.48	-0.97
G1+G2+0.7Q+V3+0.6D3	3.17	464.09	-265.18	0.62	0.55	-1.41
G1+G2+0.7Q+V4+0.6D4	3.22	483.92	-265.62	0.62	-1.48	-1.36
G1+G2+D1	3.21	433.46	-264.36	0.63	-0.25	-1.87
G1+G2+D2	3.21	434.00	-266.45	0.61	-0.26	-1.42
G1+G2+D3	3.20	428.75	-265.32	0.62	0.15	-1.66
G1+G2+D4	3.22	438.70	-265.49	0.62	-0.66	-1.64
G1+G2+Q+0.6V1+0.6D1	3.19	490.81	-264.28	0.63	-0.54	-1.58
G1+G2+Q+0.6V2+0.6D2	3.19	491.72	-266.51	0.61	-0.56	-0.97
G1+G2+Q+0.6V3+0.6D3	3.17	484.12	-265.25	0.62	0.16	-1.29
G1+G2+Q+0.6V4+0.6D4	3.20	498.41	-265.55	0.62	-1.26	-1.25
G1+G2+Q+D1	3.19	491.00	-264.35	0.63	-0.55	-1.50
G1+G2+Q+D2	3.19	491.53	-266.44	0.61	-0.55	-1.05
G1+G2+Q+D3	3.18	486.29	-265.31	0.62	-0.14	-1.28

G1+G2+Q+D4	3.20	496.24	-265.48	0.62	-0.95	-1.26

Fundação B50						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	5.89	-0.34	-22.36	-0.02	-0.01	-0.06
Adicional (G2)	4.79	63.90	-4.62	-0.01	-0.08	-0.34
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	2.86	-38.04	-14.92	-0.01	-0.04	0.11
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.00	-9.65	46.06	0.02	0.02	-0.68
Vento X- (V2)	0.00	9.65	-46.06	-0.02	-0.02	0.68
Vento Y+ (V3)	-0.02	-315.79	2.62	0.00	0.61	0.01
Vento Y- (V4)	0.02	315.79	-2.62	0.00	-0.61	-0.01
Desaprumo X+ (D1)	0.00	0.34	34.00	0.02	0.00	-0.51
Desaprumo X- (D2)	0.00	-0.34	-34.00	-0.02	0.00	0.51
Desaprumo Y+ (D3)	-0.01	-154.56	0.98	0.00	0.31	0.00
Desaprumo Y- (D4)	0.01	154.56	-0.98	0.00	-0.31	0.00
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	12.68	31.48	24.21	0.00	-0.10	-1.23
G1+G2+0.7Q+0.6V2+D2	12.69	42.38	-99.06	-0.06	-0.12	0.59
G1+G2+0.7Q+0.6V3+D3	12.67	-307.10	-34.87	-0.03	0.57	-0.31
G1+G2+0.7Q+0.6V4+D4	12.70	380.97	-39.97	-0.03	-0.79	-0.33
G1+G2+0.7Q+V1+0.6D1	12.68	27.48	29.04	0.00	-0.09	-1.30
G1+G2+0.7Q+V2+0.6D2	12.69	46.38	-103.88	-0.06	-0.13	0.66
G1+G2+0.7Q+V3+0.6D3	12.66	-371.59	-34.22	-0.03	0.68	-0.31
G1+G2+0.7Q+V4+0.6D4	12.71	445.46	-40.63	-0.03	-0.91	-0.33
G1+G2+D1	10.68	63.90	7.02	0.00	-0.08	-0.90
G1+G2+D2	10.68	63.23	-60.98	-0.04	-0.08	0.11
G1+G2+D3	10.68	-91.00	-26.00	-0.02	0.23	-0.40
G1+G2+D4	10.69	218.12	-27.96	-0.02	-0.40	-0.40
G1+G2+Q+0.6V1+0.6D1	13.54	19.93	6.14	-0.01	-0.11	-0.99
G1+G2+Q+0.6V2+0.6D2	13.55	31.11	-89.94	-0.05	-0.13	0.43
G1+G2+Q+0.6V3+0.6D3	13.53	-256.69	-39.74	-0.03	0.43	-0.28
G1+G2+Q+0.6V4+0.6D4	13.56	307.73	-44.06	-0.03	-0.67	-0.29
G1+G2+Q+D1	13.54	25.86	-7.90	-0.01	-0.12	-0.79
G1+G2+Q+D2	13.55	25.18	-75.90	-0.05	-0.12	0.22
G1+G2+Q+D3	13.54	-129.04	-40.92	-0.03	0.19	-0.28
G1+G2+Q+D4	13.55	180.08	-42.88	-0.03	-0.44	-0.29

Fundação B51						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	7.72	-664.61	327.62	0.36	0.60	-0.12
Adicional (G2)	11.75	-290.58	209.31	0.20	0.26	-0.06
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	3.73	-398.01	251.20	0.26	0.36	-0.08
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	-0.03	-415.93	870.89	0.41	0.20	0.02
Vento X- (V2)	0.03	415.93	-870.89	-0.41	-0.20	-0.02
Vento Y+ (V3)	-0.03	-262.85	320.90	0.16	0.13	0.18
Vento Y- (V4)	0.03	262.85	-320.90	-0.16	-0.13	-0.18
Desaprumo X+ (D1)	-0.03	-298.21	629.37	0.32	0.14	0.00
Desaprumo X- (D2)	0.03	298.21	-629.37	-0.32	-0.14	0.00

Desaprumo Y+ (D3)	-0.01	-136.77	158.25	0.08	0.09	0.07
Desaprumo Y- (D4)	0.01	136.77	-158.25	-0.08	-0.09	-0.07
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	22.03	-1781.57	1864.68	1.30	1.37	-0.23
G1+G2+0.7Q+0.6V2+D2	22.12	-686.02	-439.13	0.17	0.85	-0.26
G1+G2+0.7Q+0.6V3+D3	22.05	-1528.27	1063.57	0.91	1.28	-0.07
G1+G2+0.7Q+0.6V4+D4	22.11	-939.32	361.98	0.56	0.94	-0.42
G1+G2+0.7Q+V1+0.6D1	22.03	-1828.66	1961.28	1.34	1.40	-0.22
G1+G2+0.7Q+V2+0.6D2	22.13	-638.93	-535.73	0.13	0.82	-0.27
G1+G2+0.7Q+V3+0.6D3	22.05	-1578.70	1128.63	0.94	1.29	-0.02
G1+G2+0.7Q+V4+0.6D4	22.11	-888.88	296.92	0.52	0.93	-0.47
G1+G2+D1	19.44	-1253.40	1166.30	0.88	1.00	-0.19
G1+G2+D2	19.49	-656.97	-92.43	0.23	0.72	-0.18
G1+G2+D3	19.45	-1091.95	695.19	0.64	0.95	-0.12
G1+G2+D4	19.48	-818.42	378.68	0.48	0.77	-0.25
G1+G2+Q+0.6V1+0.6D1	23.16	-1781.69	1688.29	1.25	1.42	-0.26
G1+G2+Q+0.6V2+0.6D2	23.23	-924.71	-112.02	0.37	1.01	-0.28
G1+G2+Q+0.6V3+0.6D3	23.18	-1592.97	1075.63	0.96	1.35	-0.12
G1+G2+Q+0.6V4+0.6D4	23.22	-1113.43	500.64	0.67	1.09	-0.42
G1+G2+Q+D1	23.17	-1651.41	1417.50	1.13	1.36	-0.27
G1+G2+Q+D2	23.22	-1054.98	158.77	0.49	1.07	-0.26
G1+G2+Q+D3	23.19	-1489.96	946.39	0.89	1.31	-0.20
G1+G2+Q+D4	23.21	-1216.43	629.88	0.73	1.13	-0.34

Fundação B52						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	9.09	-1556.31	-1539.96	-1.23	1.29	-0.13
Adicional (G2)	11.29	-555.87	-594.25	-0.49	0.46	-0.06
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	3.86	-719.45	-700.29	-0.55	0.59	-0.08
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	-0.05	421.87	865.10	0.41	-0.21	0.02
Vento X- (V2)	0.05	-421.87	-865.10	-0.41	0.21	-0.02
Vento Y+ (V3)	0.00	-185.31	-183.19	-0.09	0.09	0.18
Vento Y- (V4)	0.00	185.31	183.19	0.09	-0.09	-0.18
Desaprumo X+ (D1)	-0.04	300.25	622.76	0.32	-0.15	0.00
Desaprumo X- (D2)	0.04	-300.25	-622.76	-0.32	0.15	0.00
Desaprumo Y+ (D3)	0.00	-107.94	-106.47	-0.05	0.08	0.07
Desaprumo Y- (D4)	0.00	107.94	106.47	0.05	-0.08	-0.07
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	23.00	-2062.43	-1482.60	-1.54	1.90	-0.23
G1+G2+0.7Q+0.6V2+D2	23.14	-3169.16	-3766.24	-2.66	2.44	-0.26
G1+G2+0.7Q+0.6V3+D3	23.07	-2834.92	-2840.80	-2.21	2.30	-0.07
G1+G2+0.7Q+0.6V4+D4	23.07	-2396.68	-2408.03	-1.99	2.04	-0.42
G1+G2+0.7Q+V1+0.6D1	23.00	-2013.78	-1385.66	-1.51	1.87	-0.22
G1+G2+0.7Q+V2+0.6D2	23.14	-3217.81	-3863.18	-2.70	2.46	-0.27
G1+G2+0.7Q+V3+0.6D3	23.07	-2865.86	-2871.49	-2.23	2.30	-0.02
G1+G2+0.7Q+V4+0.6D4	23.07	-2365.73	-2377.34	-1.97	2.03	-0.47
G1+G2+D1	20.34	-1811.93	-1511.46	-1.40	1.61	-0.19
G1+G2+D2	20.41	-2412.42	-2756.97	-2.03	1.90	-0.19

G1+G2+D3	20.37	-2220.12	-2240.69	-1.77	1.83	-0.12
G1+G2+D4	20.37	-2004.24	-2027.74	-1.66	1.68	-0.26
G1+G2+Q+0.6V1+0.6D1	24.18	-2398.36	-1941.79	-1.83	2.13	-0.26
G1+G2+Q+0.6V2+0.6D2	24.28	-3264.90	-3727.22	-2.70	2.55	-0.28
G1+G2+Q+0.6V3+0.6D3	24.23	-3007.58	-3008.30	-2.35	2.44	-0.12
G1+G2+Q+0.6V4+0.6D4	24.23	-2655.69	-2660.71	-2.18	2.24	-0.42
G1+G2+Q+D1	24.19	-2531.39	-2211.75	-1.95	2.20	-0.27
G1+G2+Q+D2	24.26	-3131.88	-3457.26	-2.58	2.49	-0.27
G1+G2+Q+D3	24.23	-2939.57	-2940.98	-2.32	2.42	-0.20
G1+G2+Q+D4	24.22	-2723.70	-2728.03	-2.21	2.27	-0.34

Fundação B53						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	0.80	114.24	0.15	0.00	-0.80	-0.40
Adicional (G2)	1.54	65.04	-0.41	0.00	-0.44	-0.41
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	-0.18	33.66	0.31	0.00	-0.96	-0.24
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.00	0.88	2.84	0.01	0.01	-1.01
Vento X- (V2)	0.00	-0.88	-2.84	-0.01	-0.01	1.01
Vento Y+ (V3)	0.00	25.68	-0.11	0.00	0.35	0.06
Vento Y- (V4)	0.00	-25.68	0.11	0.00	-0.35	-0.06
Desaprumo X+ (D1)	0.00	0.93	2.53	0.01	0.01	-0.83
Desaprumo X- (D2)	0.00	-0.93	-2.53	-0.01	-0.01	0.83
Desaprumo Y+ (D3)	0.00	14.56	-0.07	0.00	0.22	0.03
Desaprumo Y- (D4)	0.00	-14.56	0.07	0.00	-0.22	-0.03
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	2.21	204.30	4.19	0.01	-1.90	-2.43
G1+G2+0.7Q+0.6V2+D2	2.21	201.38	-4.28	-0.01	-1.93	0.46
G1+G2+0.7Q+0.6V3+D3	2.21	232.81	-0.18	0.00	-1.49	-0.92
G1+G2+0.7Q+0.6V4+D4	2.21	172.88	0.09	0.00	-2.34	-1.05
G1+G2+0.7Q+V1+0.6D1	2.21	204.28	4.31	0.01	-1.90	-2.50
G1+G2+0.7Q+V2+0.6D2	2.21	201.40	-4.40	-0.01	-1.93	0.53
G1+G2+0.7Q+V3+0.6D3	2.21	237.25	-0.20	0.00	-1.43	-0.90
G1+G2+0.7Q+V4+0.6D4	2.21	168.43	0.11	0.00	-2.40	-1.06
G1+G2+D1	2.33	180.21	2.27	0.01	-1.23	-1.65
G1+G2+D2	2.33	178.35	-2.79	-0.01	-1.25	0.02
G1+G2+D3	2.33	193.84	-0.33	0.00	-1.02	-0.78
G1+G2+D4	2.33	164.73	-0.20	0.00	-1.46	-0.85
G1+G2+Q+0.6V1+0.6D1	2.16	214.02	3.27	0.01	-2.19	-2.16
G1+G2+Q+0.6V2+0.6D2	2.16	211.85	-3.17	-0.01	-2.22	0.06
G1+G2+Q+0.6V3+0.6D3	2.16	237.08	-0.06	0.00	-1.86	-1.00
G1+G2+Q+0.6V4+0.6D4	2.16	188.80	0.16	0.00	-2.55	-1.11
G1+G2+Q+D1	2.16	213.87	2.58	0.01	-2.19	-1.89
G1+G2+Q+D2	2.16	212.01	-2.48	-0.01	-2.22	-0.22
G1+G2+Q+D3	2.16	227.50	-0.02	0.00	-1.98	-1.02
G1+G2+Q+D4	2.16	198.38	0.11	0.00	-2.42	-1.08

Fundação B54						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	5.91	-183.02	13.62	0.01	0.45	0.79
Adicional (G2)	5.70	-20.76	5.46	0.01	-0.13	0.51

Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	2.87	-55.36	10.86	0.01	0.06	0.32
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.00	20.44	69.56	0.03	-0.04	-0.87
Vento X- (V2)	0.00	-20.44	-69.56	-0.03	0.04	0.87
Vento Y+ (V3)	0.01	-370.53	-3.02	0.00	0.71	-0.03
Vento Y- (V4)	-0.01	370.52	3.02	0.00	-0.71	0.03
Desaprumo X+ (D1)	0.00	22.15	56.28	0.02	-0.04	-0.72
Desaprumo X- (D2)	0.00	-22.15	-56.28	-0.02	0.04	0.72
Desaprumo Y+ (D3)	0.01	-199.15	-1.27	0.00	0.40	-0.01
Desaprumo Y- (D4)	-0.01	199.15	1.27	0.00	-0.40	0.01
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	13.62	-208.11	124.70	0.07	0.29	0.28
G1+G2+0.7Q+0.6V2+D2	13.62	-276.95	-71.34	-0.01	0.43	2.76
G1+G2+0.7Q+0.6V3+D3	13.64	-663.99	23.60	0.03	1.18	1.50
G1+G2+0.7Q+0.6V4+D4	13.60	178.93	29.76	0.03	-0.47	1.55
G1+G2+0.7Q+V1+0.6D1	13.62	-208.79	130.01	0.07	0.29	0.22
G1+G2+0.7Q+V2+0.6D2	13.62	-276.26	-76.65	-0.01	0.42	2.82
G1+G2+0.7Q+V3+0.6D3	13.64	-732.54	22.90	0.03	1.30	1.49
G1+G2+0.7Q+V4+0.6D4	13.60	247.49	30.46	0.03	-0.59	1.56
G1+G2+D1	11.61	-181.62	75.36	0.05	0.27	0.58
G1+G2+D2	11.61	-225.93	-37.20	0.00	0.36	2.02
G1+G2+D3	11.62	-402.92	17.81	0.02	0.72	1.29
G1+G2+D4	11.60	-4.63	20.35	0.02	-0.08	1.31
G1+G2+Q+0.6V1+0.6D1	14.48	-233.58	105.44	0.06	0.32	0.67
G1+G2+Q+0.6V2+0.6D2	14.48	-284.69	-45.57	0.00	0.42	2.57
G1+G2+Q+0.6V3+0.6D3	14.50	-600.94	27.36	0.03	1.04	1.59
G1+G2+Q+0.6V4+0.6D4	14.47	82.67	32.51	0.03	-0.29	1.64
G1+G2+Q+D1	14.48	-236.98	86.22	0.05	0.33	0.90
G1+G2+Q+D2	14.48	-281.29	-26.35	0.01	0.42	2.34
G1+G2+Q+D3	14.49	-458.28	28.67	0.03	0.77	1.61
G1+G2+Q+D4	14.47	-59.99	31.20	0.03	-0.03	1.63

Fundação B55						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	0.86	0.00	0.00	0.00	0.00	0.00
Adicional (G2)	7.00	0.00	0.00	0.00	0.00	0.00
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	0.00	0.00	0.00	0.00	0.00	0.00
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.00	0.38	247.01	0.08	0.00	0.00
Vento X- (V2)	0.00	-0.38	-247.01	-0.08	0.00	0.00
Vento Y+ (V3)	0.00	-343.01	-0.53	0.00	0.11	0.00
Vento Y- (V4)	0.00	343.01	0.53	0.00	-0.11	0.00
Desaprumo X+ (D1)	0.00	0.01	11.59	0.03	0.00	0.00
Desaprumo X- (D2)	0.00	-0.01	-11.59	-0.03	0.00	0.00
Desaprumo Y+ (D3)	0.00	-11.60	-0.01	0.00	0.03	0.00
Desaprumo Y- (D4)	0.00	11.60	0.01	0.00	-0.03	0.00
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	7.86	0.24	159.79	0.07	0.00	0.00

G1+G2+0.7Q+0.6V2+D2	7.86	-0.24	-159.79	-0.07	0.00	0.00
G1+G2+0.7Q+0.6V3+D3	7.86	-217.41	-0.33	0.00	0.09	0.00
G1+G2+0.7Q+0.6V4+D4	7.86	217.41	0.33	0.00	-0.09	0.00
G1+G2+0.7Q+V1+0.6D1	7.86	0.39	253.96	0.09	0.00	0.00
G1+G2+0.7Q+V2+0.6D2	7.86	-0.39	-253.96	-0.09	0.00	0.00
G1+G2+0.7Q+V3+0.6D3	7.86	-349.97	-0.53	0.00	0.12	0.00
G1+G2+0.7Q+V4+0.6D4	7.86	349.97	0.53	0.00	-0.12	0.00
G1+G2+D1	7.86	0.01	11.59	0.03	0.00	0.00
G1+G2+D2	7.86	-0.01	-11.59	-0.03	0.00	0.00
G1+G2+D3	7.86	-11.60	-0.01	0.00	0.03	0.00
G1+G2+D4	7.86	11.60	0.01	0.00	-0.03	0.00
G1+G2+Q+0.6V1+0.6D1	7.86	0.24	155.16	0.06	0.00	0.00
G1+G2+Q+0.6V2+0.6D2	7.86	-0.24	-155.16	-0.06	0.00	0.00
G1+G2+Q+0.6V3+0.6D3	7.86	-212.77	-0.32	0.00	0.08	0.00
G1+G2+Q+0.6V4+0.6D4	7.86	212.77	0.32	0.00	-0.08	0.00
G1+G2+Q+D1	7.86	0.01	11.59	0.03	0.00	0.00
G1+G2+Q+D2	7.86	-0.01	-11.59	-0.03	0.00	0.00
G1+G2+Q+D3	7.86	-11.60	-0.01	0.00	0.03	0.00
G1+G2+Q+D4	7.86	11.60	0.01	0.00	-0.03	0.00

Fundação B56						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	0.86	0.00	0.00	0.00	0.00	0.00
Adicional (G2)	7.00	0.00	0.00	0.00	0.00	0.00
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	0.00	0.00	0.00	0.00	0.00	0.00
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.00	-0.38	247.01	0.08	0.00	0.00
Vento X- (V2)	0.00	0.38	-247.01	-0.08	0.00	0.00
Vento Y+ (V3)	0.00	-343.01	0.53	0.00	0.11	0.00
Vento Y- (V4)	0.00	343.01	-0.53	0.00	-0.11	0.00
Desaprumo X+ (D1)	0.00	-0.01	11.59	0.03	0.00	0.00
Desaprumo X- (D2)	0.00	0.01	-11.59	-0.03	0.00	0.00
Desaprumo Y+ (D3)	0.00	-11.60	0.01	0.00	0.03	0.00
Desaprumo Y- (D4)	0.00	11.60	-0.01	0.00	-0.03	0.00
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	7.86	-0.24	159.79	0.07	0.00	0.00
G1+G2+0.7Q+0.6V2+D2	7.86	0.24	-159.79	-0.07	0.00	0.00
G1+G2+0.7Q+0.6V3+D3	7.86	-217.41	0.33	0.00	0.09	0.00
G1+G2+0.7Q+0.6V4+D4	7.86	217.41	-0.33	0.00	-0.09	0.00
G1+G2+0.7Q+V1+0.6D1	7.86	-0.39	253.96	0.09	0.00	0.00
G1+G2+0.7Q+V2+0.6D2	7.86	0.39	-253.96	-0.09	0.00	0.00
G1+G2+0.7Q+V3+0.6D3	7.86	-349.97	0.53	0.00	0.12	0.00
G1+G2+0.7Q+V4+0.6D4	7.86	349.97	-0.53	0.00	-0.12	0.00
G1+G2+D1	7.86	-0.01	11.59	0.03	0.00	0.00
G1+G2+D2	7.86	0.01	-11.59	-0.03	0.00	0.00
G1+G2+D3	7.86	-11.60	0.01	0.00	0.03	0.00
G1+G2+D4	7.86	11.60	-0.01	0.00	-0.03	0.00
G1+G2+Q+0.6V1+0.6D1	7.86	-0.24	155.16	0.06	0.00	0.00
G1+G2+Q+0.6V2+0.6D2	7.86	0.24	-155.16	-0.06	0.00	0.00
G1+G2+Q+0.6V3+0.6D3	7.86	-212.77	0.32	0.00	0.08	0.00
G1+G2+Q+0.6V4+0.6D4	7.86	212.77	-0.32	0.00	-0.08	0.00
G1+G2+Q+D1	7.86	-0.01	11.59	0.03	0.00	0.00

G1+G2+Q+D2	7.86	0.01	-11.59	-0.03	0.00	0.00
G1+G2+Q+D3	7.86	-11.60	0.01	0.00	0.03	0.00
G1+G2+Q+D4	7.86	11.60	-0.01	0.00	-0.03	0.00

Fundação B57						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	25.55	50.24	-85.89	-0.23	0.04	1.15
Adicional (G2)	9.35	54.26	-103.78	-0.31	-0.08	1.88
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	10.28	14.08	-21.12	-0.04	0.12	0.02
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	-0.21	2.13	38.99	0.07	-0.01	-0.36
Vento X- (V2)	0.21	-2.13	-38.99	-0.07	0.01	0.36
Vento Y+ (V3)	0.78	5.37	-0.91	0.00	-0.26	0.09
Vento Y- (V4)	-0.78	-5.37	0.91	0.00	0.26	-0.09
Desaprumo X+ (D1)	-0.15	1.41	29.97	0.05	-0.01	-0.26
Desaprumo X- (D2)	0.15	-1.41	-29.97	-0.05	0.01	0.26
Desaprumo Y+ (D3)	0.36	0.05	-0.76	0.00	-0.12	0.04
Desaprumo Y- (D4)	-0.36	-0.05	0.76	0.00	0.12	-0.04
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	41.82	117.04	-151.10	-0.48	0.03	2.57
G1+G2+0.7Q+0.6V2+D2	42.38	111.67	-257.83	-0.66	0.05	3.51
G1+G2+0.7Q+0.6V3+D3	42.93	117.63	-205.77	-0.58	-0.24	3.14
G1+G2+0.7Q+0.6V4+D4	41.28	111.08	-203.16	-0.57	0.32	2.95
G1+G2+0.7Q+V1+0.6D1	41.80	117.33	-147.49	-0.47	0.03	2.53
G1+G2+0.7Q+V2+0.6D2	42.40	111.38	-261.44	-0.67	0.06	3.55
G1+G2+0.7Q+V3+0.6D3	43.10	119.76	-205.83	-0.58	-0.29	3.15
G1+G2+0.7Q+V4+0.6D4	41.11	108.95	-203.10	-0.57	0.37	2.93
G1+G2+D1	34.75	105.91	-159.70	-0.49	-0.05	2.77
G1+G2+D2	35.06	103.10	-219.65	-0.60	-0.04	3.28
G1+G2+D3	35.26	104.55	-190.44	-0.55	-0.17	3.07
G1+G2+D4	34.55	104.45	-188.92	-0.54	0.08	2.98
G1+G2+Q+0.6V1+0.6D1	44.97	120.70	-169.43	-0.51	0.07	2.68
G1+G2+Q+0.6V2+0.6D2	45.40	116.46	-252.18	-0.66	0.09	3.42
G1+G2+Q+0.6V3+0.6D3	45.87	121.84	-211.80	-0.59	-0.15	3.13
G1+G2+Q+0.6V4+0.6D4	44.50	115.33	-209.80	-0.58	0.31	2.97
G1+G2+Q+D1	45.03	119.99	-180.83	-0.53	0.07	2.79
G1+G2+Q+D2	45.34	117.18	-240.78	-0.64	0.08	3.30
G1+G2+Q+D3	45.54	118.64	-211.56	-0.59	-0.05	3.09
G1+G2+Q+D4	44.83	118.53	-210.04	-0.58	0.20	3.01

Fundação B58						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	28.98	153.33	11.08	0.15	-0.15	-1.33
Adicional (G2)	10.77	197.86	69.26	0.32	-0.96	-2.96
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	8.13	83.27	-23.13	-0.02	0.22	0.36
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.23	-0.50	58.81	0.07	0.01	0.19
Vento X- (V2)	-0.23	0.50	-58.81	-0.07	-0.01	-0.19
Vento Y+ (V3)	-0.01	-26.78	2.36	0.01	-0.18	0.09
Vento Y- (V4)	0.01	26.78	-2.36	-0.01	0.18	-0.09

Desaprumo X+ (D1)	0.15	-0.27	45.58	0.06	0.01	0.13
Desaprumo X- (D2)	-0.15	0.27	-45.58	-0.06	-0.01	-0.13
Desaprumo Y+ (D3)	0.00	-16.60	1.08	0.00	-0.09	0.09
Desaprumo Y- (D4)	0.00	16.60	-1.08	0.00	0.09	-0.09
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	45.73	408.91	145.01	0.55	-0.94	-3.79
G1+G2+0.7Q+0.6V2+D2	45.15	410.04	-16.71	0.36	-0.96	-4.28
G1+G2+0.7Q+0.6V3+D3	45.43	376.81	66.65	0.47	-1.15	-3.89
G1+G2+0.7Q+0.6V4+D4	45.45	442.14	61.65	0.45	-0.76	-4.18
G1+G2+0.7Q+V1+0.6D1	45.76	408.82	150.30	0.56	-0.94	-3.76
G1+G2+0.7Q+V2+0.6D2	45.12	410.13	-22.00	0.35	-0.96	-4.30
G1+G2+0.7Q+V3+0.6D3	45.43	372.74	67.16	0.47	-1.18	-3.89
G1+G2+0.7Q+V4+0.6D4	45.46	446.21	61.14	0.44	-0.72	-4.18
G1+G2+D1	39.91	350.92	125.92	0.53	-1.10	-4.16
G1+G2+D2	39.60	351.45	34.76	0.42	-1.11	-4.42
G1+G2+D3	39.75	334.59	81.42	0.48	-1.20	-4.20
G1+G2+D4	39.76	367.79	79.26	0.47	-1.02	-4.38
G1+G2+Q+0.6V1+0.6D1	48.11	434.00	119.84	0.52	-0.88	-3.73
G1+G2+Q+0.6V2+0.6D2	47.65	434.91	-5.42	0.37	-0.89	-4.12
G1+G2+Q+0.6V3+0.6D3	47.87	408.43	59.28	0.46	-1.04	-3.82
G1+G2+Q+0.6V4+0.6D4	47.89	460.48	55.14	0.44	-0.72	-4.03
G1+G2+Q+D1	48.03	434.19	102.79	0.50	-0.88	-3.80
G1+G2+Q+D2	47.73	434.72	11.64	0.39	-0.89	-4.05
G1+G2+Q+D3	47.88	417.86	58.29	0.45	-0.97	-3.83
G1+G2+Q+D4	47.88	451.06	56.13	0.44	-0.80	-4.02

Fundação B59						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	4.40	430.46	1326.09	0.00	0.00	0.92
Adicional (G2)	0.89	87.36	261.38	0.00	0.00	-1.92
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	1.58	155.85	459.94	0.00	0.00	1.30
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	-0.01	-0.42	-3.84	0.00	0.00	23.13
Vento X- (V2)	0.01	0.42	3.84	0.00	0.00	-23.13
Vento Y+ (V3)	0.00	0.29	-0.96	0.00	0.00	16.54
Vento Y- (V4)	0.00	-0.29	0.96	0.00	0.00	-16.54
Desaprumo X+ (D1)	0.00	-0.17	0.21	0.02	0.00	-2.41
Desaprumo X- (D2)	0.00	0.17	-0.21	-0.02	0.00	2.41
Desaprumo Y+ (D3)	0.00	-2.60	-0.53	0.00	0.02	0.32
Desaprumo Y- (D4)	0.00	2.60	0.53	0.00	-0.02	-0.32
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	6.39	626.50	1907.32	0.02	0.00	11.38
G1+G2+0.7Q+0.6V2+D2	6.40	627.34	1911.52	-0.02	0.00	-11.57
G1+G2+0.7Q+0.6V3+D3	6.40	624.49	1908.32	0.00	0.02	10.15
G1+G2+0.7Q+0.6V4+D4	6.40	629.35	1910.53	0.00	-0.02	-10.34
G1+G2+0.7Q+V1+0.6D1	6.39	626.40	1905.70	0.01	0.00	21.59
G1+G2+0.7Q+V2+0.6D2	6.41	627.44	1913.14	-0.01	0.00	-21.79
G1+G2+0.7Q+V3+0.6D3	6.40	625.65	1908.14	0.00	0.01	16.64
G1+G2+0.7Q+V4+0.6D4	6.40	628.19	1910.70	0.00	-0.01	-16.83

G1+G2+D1	5.29	517.65	1587.67	0.02	0.00	-3.41
G1+G2+D2	5.29	518.00	1587.26	-0.02	0.00	1.40
G1+G2+D3	5.29	515.23	1586.94	0.00	0.02	-0.68
G1+G2+D4	5.29	520.43	1587.99	0.00	-0.02	-1.33
G1+G2+Q+0.6V1+0.6D1	6.87	673.32	2045.22	0.01	0.00	12.73
G1+G2+Q+0.6V2+0.6D2	6.88	674.03	2049.59	-0.01	0.00	-12.15
G1+G2+Q+0.6V3+0.6D3	6.87	672.29	2046.51	0.00	0.01	10.41
G1+G2+Q+0.6V4+0.6D4	6.87	675.06	2048.30	0.00	-0.01	-9.83
G1+G2+Q+D1	6.87	673.50	2047.61	0.02	0.00	-2.12
G1+G2+Q+D2	6.88	673.85	2047.20	-0.02	0.00	2.70
G1+G2+Q+D3	6.87	671.07	2046.88	0.00	0.02	0.61
G1+G2+Q+D4	6.87	676.27	2047.93	0.00	-0.02	-0.03

Fundação B60						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	8.34	-1662.65	-908.06	0.00	0.00	0.46
Adicional (G2)	1.62	-288.22	-187.93	0.00	0.00	-0.96
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	2.69	-497.51	-314.99	0.00	0.00	0.65
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.08	57.07	6.07	0.00	0.00	11.53
Vento X- (V2)	-0.08	-57.07	-6.07	0.00	0.00	-11.53
Vento Y+ (V3)	0.05	190.58	-0.58	0.00	0.00	8.24
Vento Y- (V4)	-0.05	-190.58	0.58	0.00	0.00	-8.24
Desaprumo X+ (D1)	0.06	47.64	5.92	0.04	0.00	-1.20
Desaprumo X- (D2)	-0.06	-47.64	-5.92	-0.04	0.00	1.20
Desaprumo Y+ (D3)	0.03	102.54	-0.32	0.00	0.04	0.16
Desaprumo Y- (D4)	-0.03	-102.54	0.32	0.00	-0.04	-0.16
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	11.94	-2217.25	-1306.93	0.04	0.00	5.67
G1+G2+0.7Q+0.6V2+D2	11.73	-2381.01	-1326.04	-0.04	0.00	-5.77
G1+G2+0.7Q+0.6V3+D3	11.90	-2082.24	-1317.16	0.00	0.04	5.06
G1+G2+0.7Q+0.6V4+D4	11.77	-2516.01	-1315.81	0.00	-0.04	-5.16
G1+G2+0.7Q+V1+0.6D1	11.95	-2213.48	-1306.87	0.03	0.00	10.76
G1+G2+0.7Q+V2+0.6D2	11.72	-2384.78	-1326.11	-0.03	0.00	-10.86
G1+G2+0.7Q+V3+0.6D3	11.91	-2047.03	-1317.26	0.00	0.03	8.29
G1+G2+0.7Q+V4+0.6D4	11.76	-2551.23	-1315.71	0.00	-0.03	-8.39
G1+G2+D1	10.01	-1903.23	-1090.08	0.04	0.00	-1.70
G1+G2+D2	9.90	-1998.51	-1101.91	-0.04	0.00	0.70
G1+G2+D3	9.99	-1848.33	-1096.32	0.00	0.04	-0.34
G1+G2+D4	9.92	-2053.41	-1095.67	0.00	-0.04	-0.66
G1+G2+Q+0.6V1+0.6D1	12.72	-2385.56	-1403.80	0.03	0.00	6.34
G1+G2+Q+0.6V2+0.6D2	12.56	-2511.20	-1418.18	-0.03	0.00	-6.05
G1+G2+Q+0.6V3+0.6D3	12.69	-2272.51	-1411.53	0.00	0.03	5.19
G1+G2+Q+0.6V4+0.6D4	12.59	-2624.25	-1410.44	0.00	-0.03	-4.90
G1+G2+Q+D1	12.70	-2400.74	-1405.07	0.04	0.00	-1.05
G1+G2+Q+D2	12.58	-2496.02	-1416.90	-0.04	0.00	1.34
G1+G2+Q+D3	12.67	-2345.84	-1411.31	0.00	0.04	0.30
G1+G2+Q+D4	12.61	-2550.92	-1410.66	0.00	-0.04	-0.02

Fundação B61						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**

Peso próprio (G1)	17.34	15.57	-124.57	-0.56	-0.04	0.12
Adicional (G2)	7.49	0.38	-212.28	-1.13	0.07	-0.14
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	3.24	-17.63	0.62	0.09	0.12	0.17
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	-0.22	-0.50	103.60	0.16	-0.01	-0.32
Vento X- (V2)	0.22	0.50	-103.60	-0.16	0.01	0.32
Vento Y+ (V3)	-0.13	-28.30	1.91	0.00	-0.16	0.02
Vento Y- (V4)	0.13	28.30	-1.91	0.00	0.16	-0.02
Desaprumo X+ (D1)	-0.13	0.21	78.04	0.12	0.00	-0.24
Desaprumo X- (D2)	0.13	-0.21	-78.04	-0.12	0.00	0.24
Desaprumo Y+ (D3)	-0.07	-16.55	0.73	0.00	-0.08	0.01
Desaprumo Y- (D4)	0.07	16.55	-0.73	0.00	0.08	-0.01
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	26.83	3.53	-196.22	-1.41	0.11	-0.34
G1+G2+0.7Q+0.6V2+D2	27.36	3.71	-476.60	-1.84	0.12	0.53
G1+G2+0.7Q+0.6V3+D3	26.95	-29.91	-334.54	-1.62	-0.06	0.11
G1+G2+0.7Q+0.6V4+D4	27.24	37.15	-338.28	-1.63	0.29	0.08
G1+G2+0.7Q+V1+0.6D1	26.79	3.24	-185.99	-1.40	0.11	-0.37
G1+G2+0.7Q+V2+0.6D2	27.40	4.00	-486.83	-1.86	0.12	0.56
G1+G2+0.7Q+V3+0.6D3	26.92	-34.61	-334.07	-1.62	-0.10	0.12
G1+G2+0.7Q+V4+0.6D4	27.27	41.85	-338.75	-1.63	0.32	0.07
G1+G2+D1	24.69	16.17	-258.81	-1.57	0.03	-0.26
G1+G2+D2	24.96	15.75	-414.88	-1.81	0.03	0.22
G1+G2+D3	24.76	-0.59	-336.11	-1.69	-0.05	-0.01
G1+G2+D4	24.89	32.51	-337.57	-1.69	0.11	-0.03
G1+G2+Q+0.6V1+0.6D1	27.85	-1.84	-227.24	-1.43	0.15	-0.19
G1+G2+Q+0.6V2+0.6D2	28.28	-1.49	-445.20	-1.77	0.15	0.49
G1+G2+Q+0.6V3+0.6D3	27.95	-28.58	-334.64	-1.60	0.00	0.16
G1+G2+Q+0.6V4+0.6D4	28.19	25.24	-337.81	-1.60	0.29	0.13
G1+G2+Q+D1	27.94	-1.46	-258.19	-1.48	0.15	-0.10
G1+G2+Q+D2	28.20	-1.88	-414.26	-1.72	0.15	0.39
G1+G2+Q+D3	28.00	-18.22	-335.49	-1.60	0.07	0.15
G1+G2+Q+D4	28.14	14.89	-336.96	-1.60	0.23	0.14

Fundação B62						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	11.28	90.50	64.07	0.27	-0.26	-1.11
Adicional (G2)	5.37	39.88	320.85	1.00	-0.12	-1.20
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	1.42	61.72	-104.77	-0.27	-0.17	-0.36
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	-0.60	-0.07	230.09	0.19	0.00	0.05
Vento X- (V2)	0.60	0.07	-230.09	-0.19	0.00	-0.05
Vento Y+ (V3)	-0.90	-29.60	1.69	0.00	0.05	-0.04
Vento Y- (V4)	0.90	29.60	-1.69	0.00	-0.05	0.04
Desaprumo X+ (D1)	-0.40	0.36	172.56	0.15	0.00	0.05
Desaprumo X- (D2)	0.40	-0.36	-172.56	-0.15	0.00	-0.05
Desaprumo Y+ (D3)	-0.42	-16.01	0.32	0.00	0.03	-0.03
Desaprumo Y- (D4)	0.42	16.01	-0.32	0.00	-0.03	0.03
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00

Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	16.88	173.90	622.20	1.35	-0.51	-2.49
G1+G2+0.7Q+0.6V2+D2	18.41	173.27	0.97	0.82	-0.50	-2.65
G1+G2+0.7Q+0.6V3+D3	16.68	139.82	312.92	1.08	-0.45	-2.63
G1+G2+0.7Q+0.6V4+D4	18.61	207.36	310.25	1.09	-0.56	-2.51
G1+G2+0.7Q+V1+0.6D1	16.80	173.73	645.21	1.37	-0.51	-2.48
G1+G2+0.7Q+V2+0.6D2	18.48	173.44	-22.05	0.80	-0.50	-2.65
G1+G2+0.7Q+V3+0.6D3	16.49	134.38	313.47	1.08	-0.44	-2.63
G1+G2+0.7Q+V4+0.6D4	18.80	212.79	309.70	1.09	-0.57	-2.51
G1+G2+D1	16.25	130.74	557.48	1.43	-0.38	-2.27
G1+G2+D2	17.05	130.02	212.36	1.12	-0.38	-2.37
G1+G2+D3	16.23	114.37	385.24	1.27	-0.35	-2.35
G1+G2+D4	17.07	146.39	384.60	1.28	-0.41	-2.28
G1+G2+Q+0.6V1+0.6D1	17.47	192.28	521.74	1.21	-0.56	-2.61
G1+G2+Q+0.6V2+0.6D2	18.67	191.93	38.56	0.79	-0.55	-2.74
G1+G2+Q+0.6V3+0.6D3	17.27	164.74	281.36	1.00	-0.51	-2.72
G1+G2+Q+0.6V4+0.6D4	18.86	219.47	278.94	1.01	-0.60	-2.63
G1+G2+Q+D1	17.67	192.47	452.71	1.15	-0.56	-2.63
G1+G2+Q+D2	18.47	191.74	107.59	0.85	-0.55	-2.73
G1+G2+Q+D3	17.65	176.10	280.47	1.00	-0.53	-2.71
G1+G2+Q+D4	18.49	208.11	279.83	1.00	-0.58	-2.64

Fundação B63						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	11.35	14.87	-19.39	0.13	-0.07	-0.14
Adicional (G2)	5.93	-4.11	26.56	0.09	0.01	-0.29
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	2.18	13.95	-28.39	0.06	-0.05	-0.01
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.67	-5.50	283.94	0.34	0.03	-0.28
Vento X- (V2)	-0.67	5.50	-283.94	-0.34	-0.03	0.28
Vento Y+ (V3)	-0.01	-18.41	4.61	0.01	0.05	0.07
Vento Y- (V4)	0.01	18.41	-4.61	-0.01	-0.05	-0.07
Desaprumo X+ (D1)	0.46	-3.90	211.79	0.26	0.02	-0.20
Desaprumo X- (D2)	-0.46	3.90	-211.79	-0.26	-0.02	0.20
Desaprumo Y+ (D3)	-0.01	-11.38	1.73	0.00	0.03	0.03
Desaprumo Y- (D4)	0.01	11.38	-1.73	0.00	-0.03	-0.03
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	19.67	13.32	369.45	0.72	-0.06	-0.80
G1+G2+0.7Q+0.6V2+D2	17.95	27.73	-394.86	-0.20	-0.13	-0.06
G1+G2+0.7Q+0.6V3+D3	18.80	-1.90	-8.20	0.27	-0.04	-0.36
G1+G2+0.7Q+0.6V4+D4	18.82	42.95	-17.20	0.25	-0.15	-0.50
G1+G2+0.7Q+V1+0.6D1	19.75	12.68	398.31	0.76	-0.06	-0.83
G1+G2+0.7Q+V2+0.6D2	17.87	28.37	-423.72	-0.24	-0.13	-0.03
G1+G2+0.7Q+V3+0.6D3	18.80	-4.71	-7.05	0.27	-0.03	-0.34
G1+G2+0.7Q+V4+0.6D4	18.82	45.76	-18.35	0.25	-0.16	-0.52
G1+G2+D1	17.74	6.86	218.96	0.48	-0.04	-0.62
G1+G2+D2	16.83	14.66	-204.62	-0.04	-0.08	-0.22
G1+G2+D3	17.28	-0.62	8.90	0.22	-0.03	-0.39
G1+G2+D4	17.29	22.14	5.44	0.22	-0.09	-0.45
G1+G2+Q+0.6V1+0.6D1	20.14	19.07	276.22	0.64	-0.09	-0.72
G1+G2+Q+0.6V2+0.6D2	18.79	30.35	-318.66	-0.08	-0.14	-0.14
G1+G2+Q+0.6V3+0.6D3	19.45	6.84	-17.41	0.28	-0.07	-0.37

G1+G2+Q+0.6V4+0.6D4	19.47	42.58	-25.03	0.27	-0.16	-0.49
G1+G2+Q+D1	19.92	20.81	190.57	0.54	-0.09	-0.63
G1+G2+Q+D2	19.01	28.61	-233.01	0.02	-0.13	-0.23
G1+G2+Q+D3	19.46	13.33	-19.49	0.28	-0.08	-0.40
G1+G2+Q+D4	19.47	36.09	-22.95	0.27	-0.14	-0.47

Fundação B66						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	30.33	-43.23	-71.36	-0.16	0.35	1.21
Adicional (G2)	11.58	21.41	121.29	0.59	-0.01	0.96
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	9.81	-84.77	-84.57	-0.27	0.53	0.93
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.00	0.83	433.65	0.36	0.00	-0.47
Vento X- (V2)	0.00	-0.83	-433.65	-0.36	0.00	0.47
Vento Y+ (V3)	-0.12	24.82	-28.29	-0.03	-0.14	0.04
Vento Y- (V4)	0.12	-24.82	28.29	0.03	0.14	-0.04
Desaprumo X+ (D1)	0.00	0.87	357.00	0.31	0.00	-0.37
Desaprumo X- (D2)	0.00	-0.87	-357.00	-0.31	0.00	0.37
Desaprumo Y+ (D3)	-0.06	14.12	-18.36	-0.02	-0.08	0.04
Desaprumo Y- (D4)	0.06	-14.12	18.36	0.02	0.08	-0.04
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	48.77	-79.78	607.93	0.77	0.71	2.16
G1+G2+0.7Q+0.6V2+D2	48.78	-82.53	-626.46	-0.29	0.73	3.48
G1+G2+0.7Q+0.6V3+D3	48.65	-52.15	-44.60	0.21	0.56	2.88
G1+G2+0.7Q+0.6V4+D4	48.90	-110.16	26.07	0.27	0.88	2.75
G1+G2+0.7Q+V1+0.6D1	48.77	-79.80	638.59	0.79	0.71	2.12
G1+G2+0.7Q+V2+0.6D2	48.78	-82.51	-657.11	-0.31	0.73	3.52
G1+G2+0.7Q+V3+0.6D3	48.62	-47.87	-48.57	0.20	0.53	2.88
G1+G2+0.7Q+V4+0.6D4	48.93	-114.44	30.05	0.28	0.91	2.75
G1+G2+D1	41.91	-20.94	406.94	0.74	0.34	1.79
G1+G2+D2	41.91	-22.69	-307.06	0.12	0.35	2.54
G1+G2+D3	41.85	-7.70	31.58	0.41	0.27	2.21
G1+G2+D4	41.96	-35.94	68.30	0.45	0.43	2.13
G1+G2+Q+0.6V1+0.6D1	51.72	-105.56	439.76	0.56	0.87	2.59
G1+G2+Q+0.6V2+0.6D2	51.72	-107.61	-509.03	-0.25	0.89	3.61
G1+G2+Q+0.6V3+0.6D3	51.61	-83.23	-62.63	0.13	0.75	3.15
G1+G2+Q+0.6V4+0.6D4	51.82	-129.95	-6.64	0.18	1.01	3.05
G1+G2+Q+D1	51.72	-105.71	322.37	0.47	0.88	2.72
G1+G2+Q+D2	51.72	-107.46	-391.64	-0.15	0.88	3.47
G1+G2+Q+D3	51.66	-92.47	-52.99	0.14	0.80	3.14
G1+G2+Q+D4	51.78	-120.71	-16.28	0.17	0.96	3.06

Fundação B67						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	30.44	727.92	-75.59	-0.03	-0.57	-0.09
Adicional (G2)	12.21	566.30	-244.79	-1.17	-0.43	-0.16
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	9.87	627.31	47.00	0.23	-0.46	-0.12
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.03	1.70	415.33	0.32	0.00	0.21
Vento X- (V2)	-0.03	-1.70	-415.33	-0.32	0.00	-0.21

Vento Y+ (V3)	-0.08	-117.43	-26.70	-0.02	0.05	-0.06
Vento Y- (V4)	0.08	117.43	26.70	0.02	-0.05	0.06
Desaprumo X+ (D1)	0.02	1.91	342.40	0.27	0.00	0.17
Desaprumo X- (D2)	-0.02	-1.91	-342.40	-0.27	0.00	-0.17
Desaprumo Y+ (D3)	-0.04	-69.91	-17.38	-0.01	0.04	-0.02
Desaprumo Y- (D4)	0.04	69.91	17.38	0.01	-0.04	0.02
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	49.60	1736.27	304.12	-0.59	-1.32	-0.04
G1+G2+0.7Q+0.6V2+D2	49.52	1730.40	-879.08	-1.51	-1.32	-0.63
G1+G2+0.7Q+0.6V3+D3	49.48	1592.96	-320.88	-1.08	-1.25	-0.39
G1+G2+0.7Q+0.6V4+D4	49.65	1873.70	-254.08	-1.02	-1.39	-0.28
G1+G2+0.7Q+V1+0.6D1	49.61	1736.18	333.29	-0.57	-1.32	-0.02
G1+G2+0.7Q+V2+0.6D2	49.52	1730.48	-908.26	-1.53	-1.32	-0.64
G1+G2+0.7Q+V3+0.6D3	49.46	1573.96	-324.61	-1.08	-1.25	-0.40
G1+G2+0.7Q+V4+0.6D4	49.67	1892.71	-250.35	-1.02	-1.40	-0.27
G1+G2+D1	42.68	1296.13	22.02	-0.94	-1.00	-0.08
G1+G2+D2	42.63	1292.30	-662.79	-1.48	-1.00	-0.42
G1+G2+D3	42.62	1224.30	-337.76	-1.22	-0.96	-0.27
G1+G2+D4	42.69	1364.12	-303.01	-1.19	-1.04	-0.23
G1+G2+Q+0.6V1+0.6D1	52.56	1923.70	181.26	-0.63	-1.46	-0.14
G1+G2+Q+0.6V2+0.6D2	52.49	1919.36	-728.02	-1.33	-1.46	-0.60
G1+G2+Q+0.6V3+0.6D3	52.45	1809.12	-299.83	-1.00	-1.41	-0.41
G1+G2+Q+0.6V4+0.6D4	52.60	2033.93	-246.93	-0.96	-1.51	-0.32
G1+G2+Q+D1	52.55	1923.44	69.02	-0.71	-1.46	-0.20
G1+G2+Q+D2	52.50	1919.61	-615.78	-1.25	-1.46	-0.54
G1+G2+Q+D3	52.49	1851.62	-290.76	-0.99	-1.42	-0.39
G1+G2+Q+D4	52.56	1991.44	-256.00	-0.96	-1.50	-0.35

Fundação B68						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	15.93	59.82	73.22	0.39	-0.44	-1.14
Adicional (G2)	7.69	-23.91	219.16	1.04	0.18	-0.62
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	3.12	1.76	-22.77	-0.18	-0.01	-1.36
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.23	-2.33	126.21	0.19	0.03	-0.60
Vento X- (V2)	-0.23	2.33	-126.21	-0.19	-0.03	0.60
Vento Y+ (V3)	-0.17	-19.64	-8.09	-0.01	-0.23	0.21
Vento Y- (V4)	0.17	19.64	8.09	0.01	0.23	-0.21
Desaprumo X+ (D1)	0.16	-3.10	104.82	0.16	0.03	-0.47
Desaprumo X- (D2)	-0.16	3.10	-104.82	-0.16	-0.03	0.47
Desaprumo Y+ (D3)	-0.09	-12.74	-5.31	-0.01	-0.12	0.14
Desaprumo Y- (D4)	0.09	12.74	5.31	0.01	0.12	-0.14
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	26.11	32.65	456.99	1.58	-0.22	-3.53
G1+G2+0.7Q+0.6V2+D2	25.51	41.63	95.89	1.03	-0.32	-1.88
G1+G2+0.7Q+0.6V3+D3	25.61	12.62	266.27	1.29	-0.53	-2.44
G1+G2+0.7Q+0.6V4+D4	26.00	61.66	286.61	1.32	0.00	-2.97
G1+G2+0.7Q+V1+0.6D1	26.14	32.96	465.54	1.59	-0.22	-3.58
G1+G2+0.7Q+V2+0.6D2	25.48	41.32	87.34	1.02	-0.31	-1.82

G1+G2+0.7Q+V3+0.6D3	25.59	9.86	265.16	1.29	-0.57	-2.41
G1+G2+0.7Q+V4+0.6D4	26.03	64.42	287.72	1.32	0.04	-3.00
G1+G2+D1	23.79	32.81	397.20	1.59	-0.23	-2.22
G1+G2+D2	23.46	39.00	187.56	1.27	-0.29	-1.28
G1+G2+D3	23.53	23.17	287.06	1.42	-0.39	-1.61
G1+G2+D4	23.72	48.64	297.69	1.44	-0.14	-1.89
G1+G2+Q+0.6V1+0.6D1	26.98	34.41	408.23	1.46	-0.23	-3.75
G1+G2+Q+0.6V2+0.6D2	26.51	40.92	130.99	1.04	-0.30	-2.47
G1+G2+Q+0.6V3+0.6D3	26.59	18.24	261.57	1.24	-0.48	-2.90
G1+G2+Q+0.6V4+0.6D4	26.90	57.09	277.65	1.26	-0.06	-3.32
G1+G2+Q+D1	26.91	34.57	374.43	1.41	-0.24	-3.58
G1+G2+Q+D2	26.58	40.76	164.79	1.09	-0.30	-2.64
G1+G2+Q+D3	26.65	24.93	264.29	1.24	-0.39	-2.97
G1+G2+Q+D4	26.84	50.40	274.92	1.26	-0.14	-3.25

Fundação B69						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	6.96	-72.38	-415.89	-0.35	0.03	-0.12
Adicional (G2)	11.22	-14.25	-138.90	-0.12	0.00	-0.06
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	2.71	-49.79	-197.46	-0.16	0.02	-0.08
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.06	-9.51	138.29	0.05	0.00	0.02
Vento X- (V2)	-0.06	9.51	-138.29	-0.05	0.00	-0.02
Vento Y+ (V3)	0.00	-733.41	0.31	0.00	0.37	0.18
Vento Y- (V4)	0.00	733.41	-0.31	0.00	-0.37	-0.18
Desaprumo X+ (D1)	0.04	-1.53	104.90	0.07	0.00	0.00
Desaprumo X- (D2)	-0.04	1.53	-104.90	-0.07	0.00	0.00
Desaprumo Y+ (D3)	0.00	-378.92	0.18	0.00	0.21	0.07
Desaprumo Y- (D4)	0.00	378.92	-0.18	0.00	-0.21	-0.07
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	20.15	-128.71	-505.14	-0.48	0.05	-0.23
G1+G2+0.7Q+0.6V2+D2	20.00	-114.24	-880.88	-0.68	0.05	-0.26
G1+G2+0.7Q+0.6V3+D3	20.07	-940.44	-692.64	-0.58	0.48	-0.07
G1+G2+0.7Q+0.6V4+D4	20.07	697.49	-693.37	-0.58	-0.38	-0.42
G1+G2+0.7Q+V1+0.6D1	20.15	-131.90	-491.78	-0.49	0.06	-0.22
G1+G2+0.7Q+V2+0.6D2	19.99	-111.05	-894.24	-0.67	0.05	-0.27
G1+G2+0.7Q+V3+0.6D3	20.07	-1082.23	-692.59	-0.58	0.54	-0.02
G1+G2+0.7Q+V4+0.6D4	20.07	839.28	-693.43	-0.58	-0.44	-0.47
G1+G2+D1	18.21	-88.15	-449.89	-0.40	0.03	-0.19
G1+G2+D2	18.14	-85.09	-659.69	-0.53	0.03	-0.18
G1+G2+D3	18.18	-465.54	-554.61	-0.46	0.25	-0.12
G1+G2+D4	18.18	292.29	-554.96	-0.46	-0.18	-0.26
G1+G2+Q+0.6V1+0.6D1	20.94	-143.04	-606.33	-0.56	0.06	-0.26
G1+G2+Q+0.6V2+0.6D2	20.83	-129.79	-898.16	-0.70	0.05	-0.28
G1+G2+Q+0.6V3+0.6D3	20.89	-803.81	-751.95	-0.63	0.40	-0.12
G1+G2+Q+0.6V4+0.6D4	20.89	530.98	-752.54	-0.63	-0.29	-0.42
G1+G2+Q+D1	20.92	-137.94	-647.35	-0.56	0.06	-0.27
G1+G2+Q+D2	20.85	-134.88	-857.15	-0.69	0.06	-0.27
G1+G2+Q+D3	20.89	-515.33	-752.07	-0.63	0.27	-0.20
G1+G2+Q+D4	20.89	242.50	-752.43	-0.63	-0.16	-0.34

Fundação B70

Combinação	N (tf)	Mx (kgf.m)	My (kgf.m)	Vx (tf)	Vy (tf)	Mt (kgf/m)
Peso próprio (G1)	0.86	0.00	0.00	0.00	0.00	0.00
Adicional (G2)	7.00	0.00	0.00	0.00	0.00	0.00
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	0.00	0.00	0.00	0.00	0.00	0.00
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.00	0.00	247.67	0.08	0.00	0.00
Vento X- (V2)	0.00	0.00	-247.67	-0.08	0.00	0.00
Vento Y+ (V3)	0.00	-342.10	0.00	0.00	0.11	0.00
Vento Y- (V4)	0.00	342.10	0.00	0.00	-0.11	0.00
Desaprumo X+ (D1)	0.00	0.00	11.61	0.03	0.00	0.00
Desaprumo X- (D2)	0.00	0.00	-11.61	-0.03	0.00	0.00
Desaprumo Y+ (D3)	0.00	-11.58	0.00	0.00	0.03	0.00
Desaprumo Y- (D4)	0.00	11.58	0.00	0.00	-0.03	0.00
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	7.86	0.00	160.21	0.07	0.00	0.00
G1+G2+0.7Q+0.6V2+D2	7.86	0.00	-160.21	-0.07	0.00	0.00
G1+G2+0.7Q+0.6V3+D3	7.86	-216.84	0.00	0.00	0.09	0.00
G1+G2+0.7Q+0.6V4+D4	7.86	216.84	0.00	0.00	-0.09	0.00
G1+G2+0.7Q+V1+0.6D1	7.86	0.00	254.63	0.09	0.00	0.00
G1+G2+0.7Q+V2+0.6D2	7.86	0.00	-254.63	-0.09	0.00	0.00
G1+G2+0.7Q+V3+0.6D3	7.86	-349.04	0.00	0.00	0.12	0.00
G1+G2+0.7Q+V4+0.6D4	7.86	349.04	0.00	0.00	-0.12	0.00
G1+G2+D1	7.86	0.00	11.61	0.03	0.00	0.00
G1+G2+D2	7.86	0.00	-11.61	-0.03	0.00	0.00
G1+G2+D3	7.86	-11.58	0.00	0.00	0.03	0.00
G1+G2+D4	7.86	11.58	0.00	0.00	-0.03	0.00
G1+G2+Q+0.6V1+0.6D1	7.86	0.00	155.57	0.06	0.00	0.00
G1+G2+Q+0.6V2+0.6D2	7.86	0.00	-155.57	-0.06	0.00	0.00
G1+G2+Q+0.6V3+0.6D3	7.86	-212.21	0.00	0.00	0.08	0.00
G1+G2+Q+0.6V4+0.6D4	7.86	212.21	0.00	0.00	-0.08	0.00
G1+G2+Q+D1	7.86	0.00	11.61	0.03	0.00	0.00
G1+G2+Q+D2	7.86	0.00	-11.61	-0.03	0.00	0.00
G1+G2+Q+D3	7.86	-11.58	0.00	0.00	0.03	0.00
G1+G2+Q+D4	7.86	11.58	0.00	0.00	-0.03	0.00

Fundação B71						
Combinação	N (tf)	Mx (kgf.m)	My (kgf.m)	Vx (tf)	Vy (tf)	Mt (kgf/m)
Peso próprio (G1)	0.86	0.00	0.00	0.00	0.00	0.00
Adicional (G2)	7.00	0.00	0.00	0.00	0.00	0.00
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	0.00	0.00	0.00	0.00	0.00	0.00
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.00	0.00	247.67	0.08	0.00	0.00
Vento X- (V2)	0.00	0.00	-247.67	-0.08	0.00	0.00
Vento Y+ (V3)	0.00	-342.10	0.00	0.00	0.11	0.00
Vento Y- (V4)	0.00	342.10	0.00	0.00	-0.11	0.00
Desaprumo X+ (D1)	0.00	0.00	11.61	0.03	0.00	0.00
Desaprumo X- (D2)	0.00	0.00	-11.61	-0.03	0.00	0.00
Desaprumo Y+ (D3)	0.00	-11.58	0.00	0.00	0.03	0.00
Desaprumo Y- (D4)	0.00	11.58	0.00	0.00	-0.03	0.00
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00

Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	7.86	0.00	160.21	0.07	0.00	0.00
G1+G2+0.7Q+0.6V2+D2	7.86	0.00	-160.21	-0.07	0.00	0.00
G1+G2+0.7Q+0.6V3+D3	7.86	-216.84	0.00	0.00	0.09	0.00
G1+G2+0.7Q+0.6V4+D4	7.86	216.84	0.00	0.00	-0.09	0.00
G1+G2+0.7Q+V1+0.6D1	7.86	0.00	254.63	0.09	0.00	0.00
G1+G2+0.7Q+V2+0.6D2	7.86	0.00	-254.63	-0.09	0.00	0.00
G1+G2+0.7Q+V3+0.6D3	7.86	-349.04	0.00	0.00	0.12	0.00
G1+G2+0.7Q+V4+0.6D4	7.86	349.04	0.00	0.00	-0.12	0.00
G1+G2+D1	7.86	0.00	11.61	0.03	0.00	0.00
G1+G2+D2	7.86	0.00	-11.61	-0.03	0.00	0.00
G1+G2+D3	7.86	-11.58	0.00	0.00	0.03	0.00
G1+G2+D4	7.86	11.58	0.00	0.00	-0.03	0.00
G1+G2+Q+0.6V1+0.6D1	7.86	0.00	155.57	0.06	0.00	0.00
G1+G2+Q+0.6V2+0.6D2	7.86	0.00	-155.57	-0.06	0.00	0.00
G1+G2+Q+0.6V3+0.6D3	7.86	-212.21	0.00	0.00	0.08	0.00
G1+G2+Q+0.6V4+0.6D4	7.86	212.21	0.00	0.00	-0.08	0.00
G1+G2+Q+D1	7.86	0.00	11.61	0.03	0.00	0.00
G1+G2+Q+D2	7.86	0.00	-11.61	-0.03	0.00	0.00
G1+G2+Q+D3	7.86	-11.58	0.00	0.00	0.03	0.00
G1+G2+Q+D4	7.86	11.58	0.00	0.00	-0.03	0.00

Fundação B72						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	11.33	-227.94	762.89	0.68	0.13	-0.12
Adicional (G2)	11.69	151.68	217.91	0.19	-0.16	-0.06
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	4.61	-151.19	340.49	0.30	0.09	-0.08
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	-0.16	17.45	133.75	0.05	-0.01	0.02
Vento X- (V2)	0.16	-17.45	-133.75	-0.05	0.01	-0.02
Vento Y+ (V3)	0.00	-588.14	0.54	0.00	0.30	0.18
Vento Y- (V4)	0.00	588.14	-0.54	0.00	-0.30	-0.18
Desaprumo X+ (D1)	-0.11	0.14	101.80	0.06	0.00	0.00
Desaprumo X- (D2)	0.11	-0.14	-101.80	-0.06	0.00	0.00
Desaprumo Y+ (D3)	0.00	-326.89	0.29	0.00	0.19	0.07
Desaprumo Y- (D4)	0.00	326.89	-0.29	0.00	-0.19	-0.07
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	26.05	-171.49	1401.19	1.17	0.02	-0.23
G1+G2+0.7Q+0.6V2+D2	26.46	-192.70	1037.08	0.99	0.03	-0.26
G1+G2+0.7Q+0.6V3+D3	26.25	-861.87	1219.75	1.08	0.39	-0.07
G1+G2+0.7Q+0.6V4+D4	26.25	497.68	1218.53	1.08	-0.34	-0.42
G1+G2+0.7Q+V1+0.6D1	26.03	-164.56	1413.97	1.17	0.01	-0.22
G1+G2+0.7Q+V2+0.6D2	26.48	-199.63	1024.30	1.00	0.04	-0.27
G1+G2+0.7Q+V3+0.6D3	26.25	-966.37	1219.85	1.08	0.44	-0.02
G1+G2+0.7Q+V4+0.6D4	26.25	602.18	1218.43	1.08	-0.38	-0.47
G1+G2+D1	22.92	-76.12	1082.60	0.93	-0.04	-0.19
G1+G2+D2	23.14	-76.39	878.99	0.81	-0.03	-0.18
G1+G2+D3	23.03	-403.15	981.09	0.87	0.15	-0.12
G1+G2+D4	23.03	250.64	980.51	0.87	-0.22	-0.25
G1+G2+Q+0.6V1+0.6D1	27.47	-216.90	1462.62	1.24	0.04	-0.26

G1+G2+Q+0.6V2+0.6D2	27.80	-238.00	1179.95	1.11	0.06	-0.28
G1+G2+Q+0.6V3+0.6D3	27.63	-776.47	1321.78	1.17	0.34	-0.12
G1+G2+Q+0.6V4+0.6D4	27.63	321.57	1320.79	1.17	-0.24	-0.42
G1+G2+Q+D1	27.53	-227.32	1423.09	1.23	0.05	-0.27
G1+G2+Q+D2	27.74	-227.59	1219.48	1.11	0.05	-0.27
G1+G2+Q+D3	27.63	-554.35	1321.57	1.17	0.24	-0.20
G1+G2+Q+D4	27.63	99.44	1320.99	1.17	-0.14	-0.34

Fundação B73						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	17.32	-14.64	-122.45	-0.56	0.15	-0.26
Adicional (G2)	7.67	-13.02	-212.05	-1.14	0.07	-0.14
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	3.31	19.18	2.70	0.09	-0.12	-0.14
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	-0.20	-0.97	102.31	0.15	0.00	0.20
Vento X- (V2)	0.20	0.97	-102.31	-0.15	0.00	-0.20
Vento Y+ (V3)	0.11	-25.96	-1.27	0.00	-0.18	0.03
Vento Y- (V4)	-0.11	25.96	1.27	0.00	0.18	-0.03
Desaprumo X+ (D1)	-0.13	-0.16	77.55	0.12	0.00	0.15
Desaprumo X- (D2)	0.13	0.16	-77.55	-0.12	0.00	-0.15
Desaprumo Y+ (D3)	0.06	-15.49	-0.38	0.00	-0.09	0.01
Desaprumo Y- (D4)	-0.06	15.49	0.38	0.00	0.09	-0.01
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	27.06	-14.97	-193.67	-1.42	0.14	-0.24
G1+G2+0.7Q+0.6V2+D2	27.56	-13.49	-471.54	-1.84	0.14	-0.76
G1+G2+0.7Q+0.6V3+D3	27.43	-45.29	-333.74	-1.63	-0.06	-0.47
G1+G2+0.7Q+0.6V4+D4	27.19	16.83	-331.47	-1.63	0.33	-0.53
G1+G2+0.7Q+V1+0.6D1	27.03	-15.29	-183.77	-1.40	0.13	-0.21
G1+G2+0.7Q+V2+0.6D2	27.59	-13.16	-481.45	-1.86	0.14	-0.79
G1+G2+0.7Q+V3+0.6D3	27.45	-49.48	-334.10	-1.63	-0.10	-0.46
G1+G2+0.7Q+V4+0.6D4	27.17	21.02	-331.11	-1.63	0.37	-0.54
G1+G2+D1	24.86	-27.82	-256.94	-1.58	0.22	-0.26
G1+G2+D2	25.12	-27.50	-412.05	-1.82	0.22	-0.55
G1+G2+D3	25.05	-43.14	-334.88	-1.70	0.13	-0.39
G1+G2+D4	24.93	-12.17	-334.12	-1.70	0.30	-0.41
G1+G2+Q+0.6V1+0.6D1	28.10	-9.15	-223.88	-1.44	0.10	-0.34
G1+G2+Q+0.6V2+0.6D2	28.50	-7.80	-439.71	-1.77	0.10	-0.75
G1+G2+Q+0.6V3+0.6D3	28.40	-33.34	-332.78	-1.60	-0.06	-0.52
G1+G2+Q+0.6V4+0.6D4	28.20	16.39	-330.81	-1.60	0.26	-0.57
G1+G2+Q+D1	28.17	-8.63	-254.24	-1.48	0.10	-0.40
G1+G2+Q+D2	28.43	-8.31	-409.35	-1.72	0.10	-0.69
G1+G2+Q+D3	28.36	-23.96	-332.17	-1.60	0.02	-0.53
G1+G2+Q+D4	28.25	7.01	-331.42	-1.60	0.19	-0.55

Fundação B74						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	11.93	-83.07	71.30	0.28	0.25	0.17
Adicional (G2)	5.50	-43.43	327.38	1.02	0.13	0.35
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	1.61	-55.08	-99.61	-0.27	0.16	-0.01
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00

Vento X+ (V1)	-0.55	-1.14	226.19	0.19	0.00	0.89
Vento X- (V2)	0.55	1.14	-226.19	-0.19	0.00	-0.89
Vento Y+ (V3)	0.90	-19.28	-0.16	0.01	0.03	0.01
Vento Y- (V4)	-0.90	19.28	0.16	-0.01	-0.03	-0.01
Desaprumo X+ (D1)	-0.40	-0.55	170.54	0.15	0.00	0.66
Desaprumo X- (D2)	0.40	0.55	-170.54	-0.15	0.00	-0.66
Desaprumo Y+ (D3)	0.42	-10.65	0.52	0.00	0.02	0.00
Desaprumo Y- (D4)	-0.42	10.65	-0.52	0.00	-0.02	0.00
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	17.82	-166.29	635.20	1.37	0.49	1.70
G1+G2+0.7Q+0.6V2+D2	19.29	-163.83	22.69	0.85	0.48	-0.68
G1+G2+0.7Q+0.6V3+D3	19.51	-187.27	329.37	1.11	0.52	0.52
G1+G2+0.7Q+0.6V4+D4	17.60	-142.85	328.53	1.10	0.45	0.51
G1+G2+0.7Q+V1+0.6D1	17.76	-166.53	657.46	1.38	0.49	1.79
G1+G2+0.7Q+V2+0.6D2	19.35	-163.59	0.43	0.83	0.48	-0.77
G1+G2+0.7Q+V3+0.6D3	19.70	-190.72	329.10	1.11	0.52	0.52
G1+G2+0.7Q+V4+0.6D4	17.41	-139.39	328.80	1.10	0.45	0.50
G1+G2+D1	17.03	-127.05	569.22	1.44	0.38	1.18
G1+G2+D2	17.83	-125.96	228.14	1.15	0.37	-0.14
G1+G2+D3	17.84	-137.15	399.20	1.30	0.39	0.52
G1+G2+D4	17.01	-115.86	398.16	1.29	0.36	0.52
G1+G2+Q+0.6V1+0.6D1	18.47	-182.59	537.10	1.23	0.54	1.43
G1+G2+Q+0.6V2+0.6D2	19.61	-180.57	61.02	0.82	0.53	-0.42
G1+G2+Q+0.6V3+0.6D3	19.83	-199.54	299.28	1.03	0.56	0.51
G1+G2+Q+0.6V4+0.6D4	18.25	-163.63	298.85	1.02	0.51	0.50
G1+G2+Q+D1	18.64	-182.13	469.60	1.17	0.53	1.17
G1+G2+Q+D2	19.44	-181.04	128.52	0.88	0.53	-0.15
G1+G2+Q+D3	19.45	-192.23	299.58	1.03	0.55	0.51
G1+G2+Q+D4	18.62	-170.94	298.54	1.02	0.52	0.51

Fundação B75						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	10.86	-3.62	-4.07	0.17	0.01	-0.05
Adicional (G2)	5.81	1.73	33.53	0.11	-0.02	0.22
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	2.06	-1.56	-19.69	0.08	0.01	-0.10
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.68	1.01	279.01	0.33	-0.01	0.56
Vento X- (V2)	-0.68	-1.01	-279.01	-0.33	0.01	-0.56
Vento Y+ (V3)	0.01	-16.54	-2.32	0.00	0.04	-0.08
Vento Y- (V4)	-0.01	16.54	2.32	0.00	-0.04	0.08
Desaprumo X+ (D1)	0.46	0.87	209.07	0.25	-0.01	0.42
Desaprumo X- (D2)	-0.46	-0.87	-209.07	-0.25	0.01	-0.42
Desaprumo Y+ (D3)	0.01	-10.33	-0.49	0.00	0.03	-0.05
Desaprumo Y- (D4)	-0.01	10.33	0.49	0.00	-0.03	0.05
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	18.98	-1.51	392.16	0.79	-0.02	0.86
G1+G2+0.7Q+0.6V2+D2	17.24	-4.47	-360.80	-0.12	0.01	-0.65
G1+G2+0.7Q+0.6V3+D3	18.12	-23.24	13.80	0.33	0.04	0.01
G1+G2+0.7Q+0.6V4+D4	18.10	17.27	17.56	0.34	-0.05	0.20

G1+G2+0.7Q+V1+0.6D1	19.07	-1.45	420.13	0.82	-0.02	0.92
G1+G2+0.7Q+V2+0.6D2	17.15	-4.52	-388.78	-0.15	0.01	-0.71
G1+G2+0.7Q+V3+0.6D3	18.12	-25.73	13.06	0.33	0.05	0.00
G1+G2+0.7Q+V4+0.6D4	18.10	19.75	18.29	0.34	-0.06	0.21
G1+G2+D1	17.13	-1.03	238.53	0.53	-0.02	0.59
G1+G2+D2	16.20	-2.77	-179.62	0.03	0.00	-0.25
G1+G2+D3	16.67	-12.23	28.97	0.28	0.01	0.12
G1+G2+D4	16.66	8.43	29.94	0.28	-0.04	0.22
G1+G2+Q+0.6V1+0.6D1	19.41	-2.33	302.62	0.71	-0.01	0.66
G1+G2+Q+0.6V2+0.6D2	18.04	-4.59	-283.08	0.01	0.01	-0.51
G1+G2+Q+0.6V3+0.6D3	18.74	-19.58	8.08	0.36	0.04	0.00
G1+G2+Q+0.6V4+0.6D4	18.72	12.67	11.46	0.36	-0.04	0.15
G1+G2+Q+D1	19.19	-2.59	218.84	0.61	-0.01	0.49
G1+G2+Q+D2	18.26	-4.33	-199.30	0.11	0.01	-0.34
G1+G2+Q+D3	18.74	-13.79	9.28	0.36	0.02	0.03
G1+G2+Q+D4	18.72	6.87	10.26	0.36	-0.03	0.12

Fundação B78						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	26.18	-40.18	-40.11	0.70	0.21	-0.15
Adicional (G2)	10.14	-73.82	-116.32	0.97	0.35	-0.26
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	6.40	11.58	82.71	0.02	-0.07	0.03
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	-0.11	-0.23	533.75	0.43	0.00	0.44
Vento X- (V2)	0.11	0.23	-533.75	-0.43	0.00	-0.44
Vento Y+ (V3)	0.19	9.56	22.57	0.02	-0.08	-0.08
Vento Y- (V4)	-0.19	-9.56	-22.57	-0.02	0.08	0.08
Desaprumo X+ (D1)	-0.08	-0.18	420.43	0.35	0.00	0.33
Desaprumo X- (D2)	0.08	0.18	-420.43	-0.35	0.00	-0.33
Desaprumo Y+ (D3)	0.10	4.57	9.78	0.01	-0.04	-0.05
Desaprumo Y- (D4)	-0.10	-4.57	-9.78	-0.01	0.04	0.05
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	40.65	-106.21	642.15	2.29	0.51	0.21
G1+G2+0.7Q+0.6V2+D2	40.95	-105.58	-839.22	1.08	0.51	-0.98
G1+G2+0.7Q+0.6V3+D3	41.01	-95.59	-75.21	1.71	0.42	-0.49
G1+G2+0.7Q+0.6V4+D4	40.58	-116.20	-121.85	1.67	0.60	-0.29
G1+G2+0.7Q+V1+0.6D1	40.63	-106.23	687.48	2.33	0.51	0.25
G1+G2+0.7Q+V2+0.6D2	40.96	-105.56	-884.54	1.05	0.51	-1.03
G1+G2+0.7Q+V3+0.6D3	41.04	-93.59	-70.10	1.71	0.41	-0.50
G1+G2+0.7Q+V4+0.6D4	40.55	-118.19	-126.97	1.66	0.61	-0.27
G1+G2+D1	36.23	-114.18	264.01	2.02	0.56	-0.08
G1+G2+D2	36.40	-113.82	-576.86	1.32	0.55	-0.74
G1+G2+D3	36.41	-109.43	-146.65	1.68	0.52	-0.46
G1+G2+D4	36.22	-118.57	-166.20	1.66	0.60	-0.36
G1+G2+Q+0.6V1+0.6D1	42.60	-102.66	498.79	2.16	0.49	0.08
G1+G2+Q+0.6V2+0.6D2	42.83	-102.18	-646.23	1.23	0.49	-0.84
G1+G2+Q+0.6V3+0.6D3	42.89	-93.94	-54.31	1.71	0.42	-0.46
G1+G2+Q+0.6V4+0.6D4	42.54	-110.90	-93.13	1.68	0.56	-0.30
G1+G2+Q+D1	42.63	-102.60	346.71	2.04	0.49	-0.05
G1+G2+Q+D2	42.80	-102.24	-494.15	1.35	0.49	-0.71
G1+G2+Q+D3	42.82	-97.85	-63.94	1.70	0.45	-0.43
G1+G2+Q+D4	42.62	-106.99	-83.50	1.69	0.53	-0.33

Fundação B79						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	26.39	-36.11	-241.60	-0.56	0.16	-0.19
Adicional (G2)	10.60	-81.20	-562.88	-1.46	0.28	-0.07
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	6.45	8.63	121.50	0.29	-0.03	0.08
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.04	0.04	349.06	0.23	0.00	-0.40
Vento X- (V2)	-0.04	-0.04	-349.06	-0.23	0.00	0.40
Vento Y+ (V3)	0.20	-13.76	14.76	0.01	0.00	0.13
Vento Y- (V4)	-0.20	13.76	-14.76	-0.01	0.00	-0.13
Desaprumo X+ (D1)	0.03	-0.01	276.83	0.19	0.00	-0.33
Desaprumo X- (D2)	-0.03	0.01	-276.83	-0.19	0.00	0.33
Desaprumo Y+ (D3)	0.10	-8.58	6.34	0.00	0.00	0.08
Desaprumo Y- (D4)	-0.10	8.58	-6.34	0.00	0.00	-0.08
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	41.56	-111.25	-233.17	-1.49	0.41	-0.77
G1+G2+0.7Q+0.6V2+D2	41.46	-111.29	-1205.70	-2.15	0.41	0.37
G1+G2+0.7Q+0.6V3+D3	41.73	-128.10	-704.23	-1.81	0.41	-0.04
G1+G2+0.7Q+0.6V4+D4	41.29	-94.44	-734.64	-1.83	0.42	-0.36
G1+G2+0.7Q+V1+0.6D1	41.56	-111.23	-204.27	-1.48	0.41	-0.80
G1+G2+0.7Q+V2+0.6D2	41.46	-111.31	-1234.60	-2.16	0.41	0.40
G1+G2+0.7Q+V3+0.6D3	41.77	-130.18	-700.87	-1.81	0.41	-0.02
G1+G2+0.7Q+V4+0.6D4	41.25	-92.36	-738.00	-1.83	0.42	-0.38
G1+G2+D1	37.02	-117.32	-527.66	-1.83	0.44	-0.59
G1+G2+D2	36.96	-117.31	-1081.31	-2.21	0.44	0.08
G1+G2+D3	37.10	-125.89	-798.14	-2.02	0.44	-0.17
G1+G2+D4	36.89	-108.73	-810.83	-2.03	0.44	-0.34
G1+G2+Q+0.6V1+0.6D1	43.48	-108.66	-307.45	-1.48	0.40	-0.62
G1+G2+Q+0.6V2+0.6D2	43.40	-108.71	-1058.52	-1.99	0.40	0.26
G1+G2+Q+0.6V3+0.6D3	43.62	-122.09	-670.32	-1.72	0.40	-0.05
G1+G2+Q+0.6V4+0.6D4	43.26	-95.28	-695.65	-1.74	0.41	-0.31
G1+G2+Q+D1	43.47	-108.69	-406.16	-1.54	0.40	-0.51
G1+G2+Q+D2	43.41	-108.68	-959.81	-1.92	0.40	0.16
G1+G2+Q+D3	43.55	-117.26	-676.64	-1.73	0.40	-0.09
G1+G2+Q+D4	43.34	-100.11	-689.33	-1.74	0.40	-0.26

Fundação B80						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	15.98	-95.04	110.41	0.42	0.37	0.11
Adicional (G2)	7.62	35.53	234.59	0.93	-0.13	0.00
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	3.06	-3.19	-13.14	-0.10	0.01	0.20
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.22	4.15	112.38	0.14	-0.01	0.24
Vento X- (V2)	-0.22	-4.15	-112.38	-0.14	0.01	-0.24
Vento Y+ (V3)	0.16	8.41	4.83	0.01	-0.17	-0.16
Vento Y- (V4)	-0.16	-8.41	-4.83	-0.01	0.17	0.16
Desaprumo X+ (D1)	0.15	5.13	89.49	0.11	-0.02	0.20
Desaprumo X- (D2)	-0.15	-5.13	-89.49	-0.11	0.02	-0.20
Desaprumo Y+ (D3)	0.09	2.46	2.12	0.00	-0.09	-0.09

Desaprumo Y- (D4)	-0.09	-2.46	-2.12	0.00	0.09	0.09
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	26.03	-54.12	492.72	1.48	0.24	0.59
G1+G2+0.7Q+0.6V2+D2	25.47	-69.36	178.88	1.08	0.28	-0.09
G1+G2+0.7Q+0.6V3+D3	25.93	-54.24	340.82	1.28	0.07	0.06
G1+G2+0.7Q+0.6V4+D4	25.57	-69.24	330.78	1.27	0.44	0.44
G1+G2+0.7Q+V1+0.6D1	26.06	-54.52	501.88	1.49	0.24	0.61
G1+G2+0.7Q+V2+0.6D2	25.44	-68.97	169.73	1.07	0.28	-0.11
G1+G2+0.7Q+V3+0.6D3	25.96	-51.86	341.90	1.28	0.04	0.03
G1+G2+0.7Q+V4+0.6D4	25.54	-71.62	329.70	1.27	0.48	0.47
G1+G2+D1	23.76	-54.38	434.49	1.46	0.23	0.31
G1+G2+D2	23.46	-64.65	255.50	1.23	0.26	-0.08
G1+G2+D3	23.70	-57.05	347.11	1.35	0.16	0.02
G1+G2+D4	23.52	-61.97	342.88	1.35	0.33	0.20
G1+G2+Q+0.6V1+0.6D1	26.89	-57.13	452.98	1.40	0.25	0.57
G1+G2+Q+0.6V2+0.6D2	26.45	-68.27	210.74	1.09	0.28	0.05
G1+G2+Q+0.6V3+0.6D3	26.82	-56.18	336.03	1.25	0.11	0.16
G1+G2+Q+0.6V4+0.6D4	26.52	-69.22	327.69	1.24	0.41	0.46
G1+G2+Q+D1	26.82	-57.57	421.36	1.36	0.25	0.51
G1+G2+Q+D2	26.52	-67.83	242.37	1.13	0.28	0.11
G1+G2+Q+D3	26.76	-60.24	333.98	1.25	0.17	0.22
G1+G2+Q+D4	26.58	-65.16	329.74	1.24	0.35	0.40

Fundação B81						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	24.77	28.37	-37.52	-0.12	-0.26	-0.44
Adicional (G2)	9.06	21.95	-69.87	-0.22	-0.16	-0.79
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	10.02	19.54	1.68	0.01	-0.20	0.08
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	-0.23	-0.97	-4.22	-0.02	0.00	-0.06
Vento X- (V2)	0.23	0.97	4.22	0.02	0.00	0.06
Vento Y+ (V3)	-0.75	40.76	1.65	0.00	-0.31	-0.01
Vento Y- (V4)	0.75	-40.76	-1.65	0.00	0.31	0.01
Desaprumo X+ (D1)	-0.15	-1.38	-2.98	-0.02	0.00	-0.06
Desaprumo X- (D2)	0.15	1.38	2.98	0.02	0.00	0.06
Desaprumo Y+ (D3)	-0.34	18.73	0.97	0.00	-0.15	-0.01
Desaprumo Y- (D4)	0.34	-18.73	-0.97	0.00	0.15	0.01
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	40.56	62.03	-111.73	-0.36	-0.55	-1.27
G1+G2+0.7Q+0.6V2+D2	41.13	65.96	-100.70	-0.31	-0.56	-1.08
G1+G2+0.7Q+0.6V3+D3	40.06	107.18	-104.25	-0.33	-0.89	-1.19
G1+G2+0.7Q+0.6V4+D4	41.63	20.81	-108.18	-0.34	-0.22	-1.16
G1+G2+0.7Q+V1+0.6D1	40.53	62.20	-112.22	-0.36	-0.55	-1.28
G1+G2+0.7Q+V2+0.6D2	41.17	65.80	-100.21	-0.30	-0.55	-1.08
G1+G2+0.7Q+V3+0.6D3	39.90	116.00	-103.98	-0.33	-0.95	-1.19
G1+G2+0.7Q+V4+0.6D4	41.80	12.00	-108.45	-0.34	-0.16	-1.17
G1+G2+D1	33.69	48.93	-110.37	-0.35	-0.41	-1.29
G1+G2+D2	33.98	51.70	-104.41	-0.32	-0.42	-1.18
G1+G2+D3	33.50	69.05	-106.42	-0.34	-0.57	-1.24

G1+G2+D4	34.17	31.59	-108.36	-0.34	-0.26	-1.22
G1+G2+Q+0.6V1+0.6D1	43.63	68.45	-110.03	-0.35	-0.61	-1.23
G1+G2+Q+0.6V2+0.6D2	44.08	71.27	-101.39	-0.31	-0.61	-1.08
G1+G2+Q+0.6V3+0.6D3	43.20	105.55	-104.14	-0.33	-0.88	-1.17
G1+G2+Q+0.6V4+0.6D4	44.50	34.17	-107.28	-0.34	-0.34	-1.15
G1+G2+Q+D1	43.71	68.48	-108.69	-0.35	-0.61	-1.21
G1+G2+Q+D2	44.00	71.24	-102.73	-0.32	-0.62	-1.10
G1+G2+Q+D3	43.51	88.59	-104.74	-0.33	-0.76	-1.17
G1+G2+Q+D4	44.19	51.13	-106.68	-0.33	-0.46	-1.15

Fundação B82						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	30.91	-151.65	-344.61	0.01	0.54	5.15
Adicional (G2)	11.98	740.57	-365.40	0.21	0.63	7.65
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	8.35	-523.91	-80.04	-0.08	0.38	-0.66
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.20	-11.43	109.28	0.18	-0.01	4.02
Vento X- (V2)	-0.20	11.43	-109.28	-0.18	0.01	-4.02
Vento Y+ (V3)	0.02	-305.49	4.35	-0.01	0.15	2.63
Vento Y- (V4)	-0.02	305.49	-4.35	0.01	-0.15	-2.63
Desaprumo X+ (D1)	0.14	-5.08	80.95	0.14	-0.01	3.02
Desaprumo X- (D2)	-0.14	5.08	-80.95	-0.14	0.01	-3.02
Desaprumo Y+ (D3)	0.00	-162.20	2.82	-0.01	0.09	1.65
Desaprumo Y- (D4)	0.00	162.20	-2.82	0.01	-0.09	-1.65
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	49.00	210.25	-619.52	0.42	1.42	17.77
G1+G2+0.7Q+0.6V2+D2	48.48	234.12	-912.56	-0.09	1.45	6.91
G1+G2+0.7Q+0.6V3+D3	48.76	-123.31	-760.61	0.15	1.61	15.56
G1+G2+0.7Q+0.6V4+D4	48.73	567.68	-771.47	0.18	1.26	9.12
G1+G2+0.7Q+V1+0.6D1	49.03	207.71	-608.19	0.44	1.42	18.17
G1+G2+0.7Q+V2+0.6D2	48.46	236.66	-923.89	-0.11	1.45	6.51
G1+G2+0.7Q+V3+0.6D3	48.76	-180.62	-759.99	0.15	1.63	15.96
G1+G2+0.7Q+V4+0.6D4	48.72	625.00	-772.08	0.18	1.24	8.72
G1+G2+D1	43.03	583.85	-629.06	0.37	1.16	15.82
G1+G2+D2	42.76	594.00	-790.96	0.08	1.18	9.78
G1+G2+D3	42.90	426.72	-707.19	0.22	1.26	14.45
G1+G2+D4	42.89	751.12	-712.83	0.23	1.08	11.15
G1+G2+Q+0.6V1+0.6D1	51.45	55.11	-675.91	0.34	1.54	16.36
G1+G2+Q+0.6V2+0.6D2	51.04	74.92	-904.19	-0.06	1.56	7.92
G1+G2+Q+0.6V3+0.6D3	51.26	-215.60	-785.75	0.13	1.69	14.71
G1+G2+Q+0.6V4+0.6D4	51.23	345.63	-794.36	0.15	1.41	9.58
G1+G2+Q+D1	51.38	59.94	-709.10	0.28	1.54	15.16
G1+G2+Q+D2	51.11	70.09	-871.00	0.00	1.56	9.12
G1+G2+Q+D3	51.25	-97.19	-787.24	0.13	1.63	13.79
G1+G2+Q+D4	51.24	227.21	-792.87	0.15	1.46	10.50

Fundação B85						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	0.86	0.00	0.00	0.00	0.00	0.00
Adicional (G2)	7.00	0.00	0.00	0.00	0.00	0.00
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00

Acidental (Q)	0.00	0.00	0.00	0.00	0.00	0.00
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.00	-0.38	247.01	0.08	0.00	0.00
Vento X- (V2)	0.00	0.38	-247.01	-0.08	0.00	0.00
Vento Y+ (V3)	0.00	-343.01	0.53	0.00	0.11	0.00
Vento Y- (V4)	0.00	343.01	-0.53	0.00	-0.11	0.00
Desaprumo X+ (D1)	0.00	-0.01	11.59	0.03	0.00	0.00
Desaprumo X- (D2)	0.00	0.01	-11.59	-0.03	0.00	0.00
Desaprumo Y+ (D3)	0.00	-11.60	0.01	0.00	0.03	0.00
Desaprumo Y- (D4)	0.00	11.60	-0.01	0.00	-0.03	0.00
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	7.86	-0.24	159.79	0.07	0.00	0.00
G1+G2+0.7Q+0.6V2+D2	7.86	0.24	-159.79	-0.07	0.00	0.00
G1+G2+0.7Q+0.6V3+D3	7.86	-217.41	0.33	0.00	0.09	0.00
G1+G2+0.7Q+0.6V4+D4	7.86	217.41	-0.33	0.00	-0.09	0.00
G1+G2+0.7Q+V1+0.6D1	7.86	-0.39	253.96	0.09	0.00	0.00
G1+G2+0.7Q+V2+0.6D2	7.86	0.39	-253.96	-0.09	0.00	0.00
G1+G2+0.7Q+V3+0.6D3	7.86	-349.97	0.53	0.00	0.12	0.00
G1+G2+0.7Q+V4+0.6D4	7.86	349.97	-0.53	0.00	-0.12	0.00
G1+G2+D1	7.86	-0.01	11.59	0.03	0.00	0.00
G1+G2+D2	7.86	0.01	-11.59	-0.03	0.00	0.00
G1+G2+D3	7.86	-11.60	0.01	0.00	0.03	0.00
G1+G2+D4	7.86	11.60	-0.01	0.00	-0.03	0.00
G1+G2+Q+0.6V1+0.6D1	7.86	-0.24	155.16	0.06	0.00	0.00
G1+G2+Q+0.6V2+0.6D2	7.86	0.24	-155.16	-0.06	0.00	0.00
G1+G2+Q+0.6V3+0.6D3	7.86	-212.77	0.32	0.00	0.08	0.00
G1+G2+Q+0.6V4+0.6D4	7.86	212.77	-0.32	0.00	-0.08	0.00
G1+G2+Q+D1	7.86	-0.01	11.59	0.03	0.00	0.00
G1+G2+Q+D2	7.86	0.01	-11.59	-0.03	0.00	0.00
G1+G2+Q+D3	7.86	-11.60	0.01	0.00	0.03	0.00
G1+G2+Q+D4	7.86	11.60	-0.01	0.00	-0.03	0.00

Fundação B86						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	0.86	0.00	0.00	0.00	0.00	0.00
Adicional (G2)	7.00	0.00	0.00	0.00	0.00	0.00
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	0.00	0.00	0.00	0.00	0.00	0.00
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.00	0.38	247.01	0.08	0.00	0.00
Vento X- (V2)	0.00	-0.38	-247.01	-0.08	0.00	0.00
Vento Y+ (V3)	0.00	-343.01	-0.53	0.00	0.11	0.00
Vento Y- (V4)	0.00	343.01	0.53	0.00	-0.11	0.00
Desaprumo X+ (D1)	0.00	0.01	11.59	0.03	0.00	0.00
Desaprumo X- (D2)	0.00	-0.01	-11.59	-0.03	0.00	0.00
Desaprumo Y+ (D3)	0.00	-11.60	-0.01	0.00	0.03	0.00
Desaprumo Y- (D4)	0.00	11.60	0.01	0.00	-0.03	0.00
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	7.86	0.24	159.79	0.07	0.00	0.00
G1+G2+0.7Q+0.6V2+D2	7.86	-0.24	-159.79	-0.07	0.00	0.00

G1+G2+0.7Q+0.6V3+D3	7.86	-217.41	-0.33	0.00	0.09	0.00
G1+G2+0.7Q+0.6V4+D4	7.86	217.41	0.33	0.00	-0.09	0.00
G1+G2+0.7Q+V1+0.6D1	7.86	0.39	253.96	0.09	0.00	0.00
G1+G2+0.7Q+V2+0.6D2	7.86	-0.39	-253.96	-0.09	0.00	0.00
G1+G2+0.7Q+V3+0.6D3	7.86	-349.97	-0.53	0.00	0.12	0.00
G1+G2+0.7Q+V4+0.6D4	7.86	349.97	0.53	0.00	-0.12	0.00
G1+G2+D1	7.86	0.01	11.59	0.03	0.00	0.00
G1+G2+D2	7.86	-0.01	-11.59	-0.03	0.00	0.00
G1+G2+D3	7.86	-11.60	-0.01	0.00	0.03	0.00
G1+G2+D4	7.86	11.60	0.01	0.00	-0.03	0.00
G1+G2+Q+0.6V1+0.6D1	7.86	0.24	155.16	0.06	0.00	0.00
G1+G2+Q+0.6V2+0.6D2	7.86	-0.24	-155.16	-0.06	0.00	0.00
G1+G2+Q+0.6V3+0.6D3	7.86	-212.77	-0.32	0.00	0.08	0.00
G1+G2+Q+0.6V4+0.6D4	7.86	212.77	0.32	0.00	-0.08	0.00
G1+G2+Q+D1	7.86	0.01	11.59	0.03	0.00	0.00
G1+G2+Q+D2	7.86	-0.01	-11.59	-0.03	0.00	0.00
G1+G2+Q+D3	7.86	-11.60	-0.01	0.00	0.03	0.00
G1+G2+Q+D4	7.86	11.60	0.01	0.00	-0.03	0.00

Fundação B87						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	3.92	-372.62	923.66	0.00	0.00	0.29
Adicional (G2)	0.77	-71.96	183.14	0.00	0.00	0.13
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	1.42	-136.14	318.72	0.00	0.00	-0.02
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.00	0.25	-1.96	0.00	0.00	2.76
Vento X- (V2)	0.00	-0.25	1.96	0.00	0.00	-2.76
Vento Y+ (V3)	0.00	0.08	-0.90	0.00	0.00	8.34
Vento Y- (V4)	0.00	-0.08	0.90	0.00	0.00	-8.34
Desaprumo X+ (D1)	0.00	0.24	0.20	0.02	0.00	1.34
Desaprumo X- (D2)	0.00	-0.24	-0.20	-0.02	0.00	-1.34
Desaprumo Y+ (D3)	0.00	-2.40	-0.52	0.00	0.02	-0.82
Desaprumo Y- (D4)	0.00	2.40	0.52	0.00	-0.02	0.82
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	5.67	-539.48	1328.92	0.02	0.00	3.41
G1+G2+0.7Q+0.6V2+D2	5.68	-540.27	1330.88	-0.02	0.00	-2.59
G1+G2+0.7Q+0.6V3+D3	5.67	-542.23	1328.83	0.00	0.02	4.59
G1+G2+0.7Q+0.6V4+D4	5.67	-537.52	1330.96	0.00	-0.02	-3.77
G1+G2+0.7Q+V1+0.6D1	5.67	-539.48	1328.06	0.01	0.00	3.97
G1+G2+0.7Q+V2+0.6D2	5.68	-540.27	1331.74	-0.01	0.00	-3.16
G1+G2+0.7Q+V3+0.6D3	5.67	-541.24	1328.68	0.00	0.01	8.25
G1+G2+0.7Q+V4+0.6D4	5.67	-538.51	1331.11	0.00	-0.01	-7.44
G1+G2+D1	4.68	-444.33	1106.99	0.02	0.00	1.76
G1+G2+D2	4.69	-444.82	1106.60	-0.02	0.00	-0.93
G1+G2+D3	4.68	-446.98	1106.27	0.00	0.02	-0.41
G1+G2+D4	4.68	-442.18	1107.32	0.00	-0.02	1.24
G1+G2+Q+0.6V1+0.6D1	6.09	-580.42	1424.45	0.01	0.00	2.86
G1+G2+Q+0.6V2+0.6D2	6.10	-581.01	1426.57	-0.01	0.00	-2.06
G1+G2+Q+0.6V3+0.6D3	6.10	-582.11	1424.66	0.00	0.01	4.91
G1+G2+Q+0.6V4+0.6D4	6.10	-579.32	1426.37	0.00	-0.01	-4.11
G1+G2+Q+D1	6.10	-580.47	1425.71	0.02	0.00	1.74
G1+G2+Q+D2	6.10	-580.96	1425.32	-0.02	0.00	-0.94

G1+G2+Q+D3	6.10	-583.11	1424.99	0.00	0.02	-0.42
G1+G2+Q+D4	6.10	-578.32	1426.04	0.00	-0.02	1.22

Fundação B88						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	6.95	20.46	628.35	-1.66	-0.16	0.03
Adicional (G2)	6.51	-39.85	1092.82	-2.83	-0.05	0.25
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	2.87	54.29	-8.10	0.00	0.02	-0.09
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.00	-11.39	27.14	-0.01	0.02	0.44
Vento X- (V2)	0.00	11.39	-27.14	0.01	-0.02	-0.44
Vento Y+ (V3)	0.04	-375.78	-1.45	0.00	0.57	0.04
Vento Y- (V4)	-0.04	375.78	1.45	0.00	-0.57	-0.04
Desaprumo X+ (D1)	0.00	0.46	21.32	0.00	0.00	0.33
Desaprumo X- (D2)	0.00	-0.46	-21.32	0.00	0.00	-0.33
Desaprumo Y+ (D3)	0.02	-185.11	-0.52	0.00	0.31	0.02
Desaprumo Y- (D4)	-0.02	185.11	0.52	0.00	-0.31	-0.02
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	15.46	12.23	1753.11	-4.49	-0.20	0.80
G1+G2+0.7Q+0.6V2+D2	15.48	24.99	1677.90	-4.48	-0.21	-0.38
G1+G2+0.7Q+0.6V3+D3	15.51	-391.96	1714.12	-4.49	0.45	0.25
G1+G2+0.7Q+0.6V4+D4	15.43	429.18	1716.89	-4.49	-0.86	0.17
G1+G2+0.7Q+V1+0.6D1	15.46	7.49	1755.44	-4.50	-0.19	0.85
G1+G2+0.7Q+V2+0.6D2	15.48	29.73	1675.57	-4.48	-0.22	-0.42
G1+G2+0.7Q+V3+0.6D3	15.52	-468.23	1713.75	-4.49	0.55	0.26
G1+G2+0.7Q+V4+0.6D4	15.42	505.45	1717.26	-4.49	-0.96	0.17
G1+G2+D1	13.46	-18.94	1742.49	-4.48	-0.22	0.60
G1+G2+D2	13.47	-19.85	1699.86	-4.49	-0.21	-0.05
G1+G2+D3	13.48	-204.50	1720.66	-4.49	0.09	0.29
G1+G2+D4	13.44	165.71	1721.69	-4.49	-0.52	0.26
G1+G2+Q+0.6V1+0.6D1	16.33	28.33	1742.15	-4.49	-0.19	0.64
G1+G2+Q+0.6V2+0.6D2	16.34	41.46	1684.00	-4.48	-0.21	-0.27
G1+G2+Q+0.6V3+0.6D3	16.36	-301.63	1711.90	-4.49	0.33	0.22
G1+G2+Q+0.6V4+0.6D4	16.30	371.43	1714.25	-4.49	-0.73	0.15
G1+G2+Q+D1	16.33	35.35	1734.39	-4.48	-0.20	0.51
G1+G2+Q+D2	16.34	34.44	1691.75	-4.49	-0.20	-0.14
G1+G2+Q+D3	16.35	-150.21	1712.56	-4.49	0.11	0.20
G1+G2+Q+D4	16.32	220.00	1713.59	-4.49	-0.51	0.17

Fundação B89						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	1.85	-75.50	-685.57	1.62	0.62	0.79
Adicional (G2)	3.01	48.30	-1171.29	2.78	0.44	1.56
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	0.00	-78.90	-0.08	-0.01	0.44	-0.15
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.00	-0.17	0.21	0.04	0.01	0.16
Vento X- (V2)	0.00	0.17	-0.21	-0.04	-0.01	-0.16
Vento Y+ (V3)	-0.04	-46.23	0.01	0.00	0.80	0.05
Vento Y- (V4)	0.04	46.23	-0.01	0.00	-0.80	-0.05
Desaprumo X+ (D1)	0.00	0.51	1.21	0.04	0.00	0.12

Desaprumo X- (D2)	0.00	-0.51	-1.21	-0.04	0.00	-0.12
Desaprumo Y+ (D3)	-0.02	-25.69	0.00	0.00	0.42	0.04
Desaprumo Y- (D4)	0.02	25.69	0.00	0.00	-0.42	-0.04
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	4.86	-82.02	-1855.58	4.46	1.37	2.47
G1+G2+0.7Q+0.6V2+D2	4.86	-82.84	-1858.24	4.33	1.36	2.03
G1+G2+0.7Q+0.6V3+D3	4.81	-135.86	-1856.90	4.39	2.27	2.32
G1+G2+0.7Q+0.6V4+D4	4.91	-29.00	-1856.92	4.39	0.46	2.18
G1+G2+0.7Q+V1+0.6D1	4.86	-82.29	-1855.98	4.46	1.38	2.48
G1+G2+0.7Q+V2+0.6D2	4.86	-82.57	-1857.84	4.33	1.35	2.02
G1+G2+0.7Q+V3+0.6D3	4.81	-144.08	-1856.89	4.39	2.42	2.33
G1+G2+0.7Q+V4+0.6D4	4.91	-20.78	-1856.93	4.40	0.31	2.17
G1+G2+D1	4.86	-26.69	-1855.64	4.44	1.05	2.48
G1+G2+D2	4.86	-27.71	-1858.06	4.36	1.06	2.24
G1+G2+D3	4.84	-52.89	-1856.85	4.40	1.48	2.39
G1+G2+D4	4.88	-1.51	-1856.86	4.40	0.63	2.32
G1+G2+Q+0.6V1+0.6D1	4.86	-105.89	-1856.08	4.44	1.50	2.37
G1+G2+Q+0.6V2+0.6D2	4.86	-106.30	-1857.78	4.34	1.49	2.04
G1+G2+Q+0.6V3+0.6D3	4.82	-149.25	-1856.92	4.39	2.23	2.26
G1+G2+Q+0.6V4+0.6D4	4.90	-62.94	-1856.95	4.39	0.76	2.15
G1+G2+Q+D1	4.86	-105.58	-1855.72	4.43	1.49	2.33
G1+G2+Q+D2	4.86	-106.61	-1858.14	4.35	1.50	2.08
G1+G2+Q+D3	4.84	-131.79	-1856.93	4.39	1.92	2.24
G1+G2+Q+D4	4.88	-80.41	-1856.94	4.39	1.07	2.17

Fundação B90						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	14.02	226.36	10.51	0.01	-0.48	-0.75
Adicional (G2)	9.90	24.00	-1.98	0.00	-0.29	-1.16
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	8.76	73.88	7.97	0.01	0.01	0.24
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.00	-1.92	74.13	0.02	0.00	1.30
Vento X- (V2)	0.00	1.92	-74.13	-0.02	0.00	-1.30
Vento Y+ (V3)	0.04	-307.48	2.58	0.00	0.44	0.09
Vento Y- (V4)	-0.04	307.48	-2.58	0.00	-0.44	-0.09
Desaprumo X+ (D1)	0.00	-1.46	57.50	0.02	0.00	1.02
Desaprumo X- (D2)	0.00	1.46	-57.50	-0.02	0.00	-1.02
Desaprumo Y+ (D3)	0.02	-170.92	0.81	0.00	0.26	0.05
Desaprumo Y- (D4)	-0.02	170.92	-0.81	0.00	-0.26	-0.05
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	30.05	299.45	116.08	0.05	-0.75	0.06
G1+G2+0.7Q+0.6V2+D2	30.06	304.68	-87.87	-0.03	-0.75	-3.53
G1+G2+0.7Q+0.6V3+D3	30.10	-53.34	16.47	0.01	-0.23	-1.63
G1+G2+0.7Q+0.6V4+D4	30.01	657.47	11.75	0.01	-1.27	-1.84
G1+G2+0.7Q+V1+0.6D1	30.05	299.27	122.74	0.05	-0.75	0.17
G1+G2+0.7Q+V2+0.6D2	30.06	304.87	-94.52	-0.03	-0.75	-3.64
G1+G2+0.7Q+V3+0.6D3	30.11	-107.96	17.18	0.01	-0.16	-1.61
G1+G2+0.7Q+V4+0.6D4	30.00	712.10	11.04	0.01	-1.35	-1.86
G1+G2+D1	23.92	248.89	66.03	0.03	-0.76	-0.89

G1+G2+D2	23.92	251.82	-48.97	-0.02	-0.76	-2.92
G1+G2+D3	23.94	79.43	9.34	0.01	-0.51	-1.85
G1+G2+D4	23.90	421.27	7.72	0.01	-1.02	-1.96
G1+G2+Q+0.6V1+0.6D1	32.68	322.20	95.48	0.04	-0.75	-0.28
G1+G2+Q+0.6V2+0.6D2	32.69	326.26	-62.48	-0.02	-0.75	-3.05
G1+G2+Q+0.6V3+0.6D3	32.72	37.19	18.53	0.01	-0.33	-1.58
G1+G2+Q+0.6V4+0.6D4	32.65	611.27	14.46	0.01	-1.17	-1.75
G1+G2+Q+D1	32.68	322.77	74.00	0.04	-0.75	-0.65
G1+G2+Q+D2	32.69	325.70	-41.00	-0.01	-0.75	-2.68
G1+G2+Q+D3	32.71	153.31	17.31	0.01	-0.49	-1.61
G1+G2+Q+D4	32.66	495.15	15.69	0.01	-1.01	-1.72

Fundação B91						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	14.42	6.25	-1.20	0.00	0.06	-0.07
Adicional (G2)	10.13	3.35	-6.59	0.00	0.00	-0.14
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	8.86	-13.85	-2.55	0.00	0.06	0.04
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.00	-0.04	44.71	0.01	0.00	0.34
Vento X- (V2)	0.00	0.04	-44.71	-0.01	0.00	-0.34
Vento Y+ (V3)	-0.06	10.77	1.36	0.00	-0.16	0.00
Vento Y- (V4)	0.06	-10.77	-1.36	0.00	0.16	0.00
Desaprumo X+ (D1)	0.00	-0.01	37.20	0.01	0.00	0.27
Desaprumo X- (D2)	0.00	0.01	-37.20	-0.01	0.00	-0.27
Desaprumo Y+ (D3)	-0.03	3.77	0.42	0.00	-0.08	0.00
Desaprumo Y- (D4)	0.03	-3.77	-0.42	0.00	0.08	0.00
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	30.76	-0.13	54.45	0.01	0.09	0.29
G1+G2+0.7Q+0.6V2+D2	30.75	-0.06	-73.61	-0.02	0.10	-0.65
G1+G2+0.7Q+0.6V3+D3	30.69	10.14	-8.34	-0.01	-0.08	-0.19
G1+G2+0.7Q+0.6V4+D4	30.82	-10.32	-10.81	-0.01	0.27	-0.18
G1+G2+0.7Q+V1+0.6D1	30.76	-0.14	57.46	0.01	0.09	0.31
G1+G2+0.7Q+V2+0.6D2	30.75	-0.05	-76.61	-0.02	0.10	-0.68
G1+G2+0.7Q+V3+0.6D3	30.68	12.93	-7.97	-0.01	-0.11	-0.19
G1+G2+0.7Q+V4+0.6D4	30.83	-13.12	-11.19	-0.01	0.30	-0.18
G1+G2+D1	24.55	9.59	29.41	0.00	0.05	0.05
G1+G2+D2	24.55	9.61	-45.00	-0.02	0.06	-0.48
G1+G2+D3	24.52	13.37	-7.38	-0.01	-0.03	-0.21
G1+G2+D4	24.58	5.83	-8.21	-0.01	0.14	-0.21
G1+G2+Q+0.6V1+0.6D1	33.42	-4.28	38.81	0.00	0.11	0.19
G1+G2+Q+0.6V2+0.6D2	33.41	-4.22	-59.49	-0.02	0.11	-0.54
G1+G2+Q+0.6V3+0.6D3	33.36	4.47	-9.27	-0.01	-0.03	-0.18
G1+G2+Q+0.6V4+0.6D4	33.47	-12.97	-11.41	-0.01	0.26	-0.17
G1+G2+Q+D1	33.42	-4.26	26.86	0.00	0.11	0.09
G1+G2+Q+D2	33.41	-4.24	-47.54	-0.02	0.11	-0.44
G1+G2+Q+D3	33.39	-0.48	-9.92	-0.01	0.03	-0.18
G1+G2+Q+D4	33.44	-8.02	-10.76	-0.01	0.19	-0.17

Fundação B92						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	1.31	-50.45	0.63	0.00	0.00	-0.29

Adicional (G2)	2.21	-61.52	1.74	0.00	0.00	-0.64
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	-0.01	-0.45	-0.31	0.00	0.00	0.27
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.00	-6.28	-0.04	0.01	0.00	1.36
Vento X- (V2)	0.00	6.28	0.04	-0.01	0.00	-1.36
Vento Y+ (V3)	0.00	-1.33	-0.04	0.00	0.01	0.03
Vento Y- (V4)	0.00	1.33	0.04	0.00	-0.01	-0.03
Desaprumo X+ (D1)	0.00	-4.89	0.77	0.01	0.00	1.07
Desaprumo X- (D2)	0.00	4.89	-0.77	-0.01	0.00	-1.07
Desaprumo Y+ (D3)	0.00	-1.44	-0.01	0.00	0.01	0.01
Desaprumo Y- (D4)	0.00	1.44	0.01	0.00	-0.01	-0.01
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	3.53	-120.95	2.91	0.02	0.00	1.15
G1+G2+0.7Q+0.6V2+D2	3.52	-103.63	1.41	-0.02	0.00	-2.63
G1+G2+0.7Q+0.6V3+D3	3.52	-114.52	2.12	0.00	0.02	-0.72
G1+G2+0.7Q+0.6V4+D4	3.52	-110.05	2.20	0.00	-0.02	-0.77
G1+G2+0.7Q+V1+0.6D1	3.53	-121.50	2.58	0.01	0.00	1.26
G1+G2+0.7Q+V2+0.6D2	3.52	-103.07	1.74	-0.02	0.00	-2.75
G1+G2+0.7Q+V3+0.6D3	3.52	-114.48	2.11	0.00	0.02	-0.71
G1+G2+0.7Q+V4+0.6D4	3.52	-110.10	2.21	0.00	-0.02	-0.78
G1+G2+D1	3.53	-116.86	3.15	0.01	0.00	0.14
G1+G2+D2	3.53	-107.08	1.60	-0.01	0.00	-2.01
G1+G2+D3	3.53	-113.41	2.36	0.00	0.01	-0.93
G1+G2+D4	3.53	-110.53	2.39	0.00	-0.01	-0.94
G1+G2+Q+0.6V1+0.6D1	3.53	-119.12	2.51	0.01	0.00	0.80
G1+G2+Q+0.6V2+0.6D2	3.52	-105.72	1.63	-0.01	0.00	-2.12
G1+G2+Q+0.6V3+0.6D3	3.52	-114.08	2.04	0.00	0.01	-0.64
G1+G2+Q+0.6V4+0.6D4	3.52	-110.76	2.10	0.00	-0.01	-0.68
G1+G2+Q+D1	3.52	-117.31	2.84	0.01	0.00	0.41
G1+G2+Q+D2	3.52	-107.53	1.30	-0.01	0.00	-1.73
G1+G2+Q+D3	3.52	-113.86	2.05	0.00	0.01	-0.65
G1+G2+Q+D4	3.52	-110.99	2.08	0.00	-0.01	-0.67

Fundação B93						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	5.82	177.67	16.08	0.01	-0.34	-0.42
Adicional (G2)	5.23	36.10	0.66	0.01	0.03	-0.83
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	2.80	65.86	12.07	0.01	-0.07	0.27
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.00	1.86	69.08	0.03	-0.01	1.39
Vento X- (V2)	0.00	-1.86	-69.08	-0.03	0.01	-1.39
Vento Y+ (V3)	-0.01	-338.63	2.44	0.00	0.64	0.14
Vento Y- (V4)	0.01	338.63	-2.44	0.00	-0.64	-0.14
Desaprumo X+ (D1)	0.00	-0.49	53.54	0.02	0.00	1.09
Desaprumo X- (D2)	0.00	0.49	-53.54	-0.02	0.00	-1.09
Desaprumo Y+ (D3)	-0.01	-179.47	0.77	0.00	0.36	0.08
Desaprumo Y- (D4)	0.01	179.47	-0.77	0.00	-0.36	-0.08
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00

G1+G2+0.7Q+0.6V1+D1	13.01	260.50	120.18	0.07	-0.36	0.87
G1+G2+0.7Q+0.6V2+D2	13.00	259.25	-69.80	-0.01	-0.34	-2.98
G1+G2+0.7Q+0.6V3+D3	12.99	-122.77	27.43	0.03	0.40	-0.90
G1+G2+0.7Q+0.6V4+D4	13.02	642.52	22.95	0.03	-1.10	-1.22
G1+G2+0.7Q+V1+0.6D1	13.01	261.44	126.39	0.07	-0.36	0.99
G1+G2+0.7Q+V2+0.6D2	13.00	258.31	-76.01	-0.02	-0.34	-3.11
G1+G2+0.7Q+V3+0.6D3	12.99	-186.43	28.09	0.03	0.51	-0.87
G1+G2+0.7Q+V4+0.6D4	13.02	706.18	22.29	0.03	-1.21	-1.25
G1+G2+D1	11.05	213.28	70.28	0.04	-0.31	-0.16
G1+G2+D2	11.04	214.26	-36.80	0.00	-0.30	-2.34
G1+G2+D3	11.04	34.31	17.51	0.02	0.06	-1.17
G1+G2+D4	11.05	393.24	15.97	0.02	-0.67	-1.33
G1+G2+Q+0.6V1+0.6D1	13.85	280.45	102.38	0.06	-0.37	0.51
G1+G2+Q+0.6V2+0.6D2	13.84	278.81	-44.76	0.00	-0.36	-2.47
G1+G2+Q+0.6V3+0.6D3	13.84	-31.22	30.74	0.03	0.23	-0.85
G1+G2+Q+0.6V4+0.6D4	13.86	590.49	26.88	0.03	-0.97	-1.11
G1+G2+Q+D1	13.85	279.14	82.35	0.05	-0.37	0.11
G1+G2+Q+D2	13.85	280.12	-24.73	0.00	-0.37	-2.07
G1+G2+Q+D3	13.84	100.17	29.59	0.03	-0.01	-0.90
G1+G2+Q+D4	13.85	459.10	28.04	0.03	-0.73	-1.05

Fundação B94						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	7.74	613.02	284.63	0.32	-0.58	-0.12
Adicional (G2)	11.71	262.06	182.89	0.17	-0.24	-0.06
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	3.74	366.16	228.34	0.24	-0.34	-0.08
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	-0.03	407.17	854.76	0.40	-0.20	0.02
Vento X- (V2)	0.03	-407.17	-854.76	-0.40	0.20	-0.02
Vento Y+ (V3)	0.03	-260.59	-316.20	-0.16	0.13	0.18
Vento Y- (V4)	-0.03	260.59	316.20	0.16	-0.13	-0.18
Desaprumo X+ (D1)	-0.02	297.93	629.76	0.32	-0.14	0.00
Desaprumo X- (D2)	0.02	-297.93	-629.76	-0.32	0.14	0.00
Desaprumo Y+ (D3)	0.01	-135.51	-155.63	-0.08	0.09	0.07
Desaprumo Y- (D4)	-0.01	135.51	155.63	0.08	-0.09	-0.07
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	22.03	1673.62	1769.98	1.22	-1.31	-0.23
G1+G2+0.7Q+0.6V2+D2	22.12	589.16	-515.25	0.10	-0.79	-0.26
G1+G2+0.7Q+0.6V3+D3	22.11	839.53	282.02	0.49	-0.89	-0.07
G1+G2+0.7Q+0.6V4+D4	22.05	1423.25	972.72	0.84	-1.22	-0.42
G1+G2+0.7Q+V1+0.6D1	22.03	1717.32	1859.98	1.26	-1.33	-0.22
G1+G2+0.7Q+V2+0.6D2	22.13	545.47	-605.25	0.07	-0.77	-0.27
G1+G2+0.7Q+V3+0.6D3	22.11	789.50	217.79	0.45	-0.87	-0.02
G1+G2+0.7Q+V4+0.6D4	22.05	1473.28	1036.94	0.87	-1.23	-0.47
G1+G2+D1	19.43	1173.01	1097.29	0.82	-0.96	-0.19
G1+G2+D2	19.48	577.15	-162.24	0.17	-0.67	-0.19
G1+G2+D3	19.47	739.57	311.90	0.42	-0.72	-0.12
G1+G2+D4	19.44	1010.58	623.16	0.57	-0.90	-0.26
G1+G2+Q+0.6V1+0.6D1	23.17	1664.30	1586.58	1.17	-1.36	-0.26
G1+G2+Q+0.6V2+0.6D2	23.24	818.18	-194.84	0.30	-0.95	-0.28
G1+G2+Q+0.6V3+0.6D3	23.22	1003.58	412.77	0.59	-1.02	-0.12
G1+G2+Q+0.6V4+0.6D4	23.18	1478.89	978.97	0.88	-1.28	-0.42

G1+G2+Q+D1	23.18	1539.17	1325.63	1.05	-1.30	-0.27
G1+G2+Q+D2	23.23	943.31	66.10	0.41	-1.01	-0.27
G1+G2+Q+D3	23.21	1105.73	540.24	0.65	-1.06	-0.20
G1+G2+Q+D4	23.19	1376.75	851.50	0.81	-1.24	-0.34

Fundação B95						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	9.04	1383.05	-1302.91	-1.09	-1.20	-0.12
Adicional (G2)	10.87	298.18	-265.36	-0.23	-0.27	-0.06
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	3.90	635.68	-585.15	-0.49	-0.55	-0.08
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	-0.06	-415.59	853.17	0.40	0.20	0.02
Vento X- (V2)	0.06	415.59	-853.17	-0.40	-0.20	-0.02
Vento Y+ (V3)	0.00	-188.04	188.49	0.10	0.09	0.18
Vento Y- (V4)	0.00	188.04	-188.49	-0.10	-0.09	-0.18
Desaprumo X+ (D1)	-0.04	-306.31	630.97	0.32	0.15	0.00
Desaprumo X- (D2)	0.04	306.31	-630.97	-0.32	-0.15	0.00
Desaprumo Y+ (D3)	0.00	-109.47	109.45	0.06	0.08	0.07
Desaprumo Y- (D4)	0.00	109.47	-109.45	-0.06	-0.08	-0.07
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	22.57	1570.55	-835.01	-1.11	-1.58	-0.23
G1+G2+0.7Q+0.6V2+D2	22.72	2681.88	-3120.75	-2.23	-2.12	-0.25
G1+G2+0.7Q+0.6V3+D3	22.64	1903.92	-1755.34	-1.56	-1.72	-0.07
G1+G2+0.7Q+0.6V4+D4	22.65	2348.51	-2200.42	-1.79	-1.98	-0.42
G1+G2+0.7Q+V1+0.6D1	22.56	1526.84	-746.13	-1.08	-1.55	-0.22
G1+G2+0.7Q+V2+0.6D2	22.72	2725.59	-3209.63	-2.27	-2.14	-0.27
G1+G2+0.7Q+V3+0.6D3	22.64	1872.49	-1723.73	-1.54	-1.71	-0.02
G1+G2+0.7Q+V4+0.6D4	22.65	2379.94	-2232.04	-1.80	-1.99	-0.47
G1+G2+D1	19.87	1374.93	-937.30	-1.00	-1.31	-0.19
G1+G2+D2	19.95	1987.55	-2199.24	-1.65	-1.61	-0.18
G1+G2+D3	19.91	1571.76	-1458.83	-1.27	-1.38	-0.12
G1+G2+D4	19.91	1790.71	-1677.72	-1.38	-1.54	-0.25
G1+G2+Q+0.6V1+0.6D1	23.75	1883.78	-1262.94	-1.39	-1.80	-0.26
G1+G2+Q+0.6V2+0.6D2	23.87	2750.06	-3043.91	-2.25	-2.23	-0.28
G1+G2+Q+0.6V3+0.6D3	23.81	2138.41	-1974.67	-1.73	-1.91	-0.12
G1+G2+Q+0.6V4+0.6D4	23.82	2495.43	-2332.19	-1.91	-2.12	-0.42
G1+G2+Q+D1	23.77	2010.61	-1522.46	-1.50	-1.86	-0.27
G1+G2+Q+D2	23.85	2623.23	-2784.40	-2.14	-2.16	-0.26
G1+G2+Q+D3	23.81	2207.45	-2043.98	-1.76	-1.94	-0.20
G1+G2+Q+D4	23.82	2426.39	-2262.87	-1.88	-2.09	-0.33

Fundação B96						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	2.07	-740.91	-631.69	0.01	-0.01	-0.82
Adicional (G2)	3.15	-917.29	-329.53	0.00	-0.01	-0.73
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	0.05	-0.09	-159.17	0.00	0.00	0.03
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	-0.01	99.11	-0.54	0.04	0.00	2.04
Vento X- (V2)	0.01	-99.11	0.54	-0.04	0.00	-2.04
Vento Y+ (V3)	0.01	3.11	-40.42	0.00	0.01	0.35

Vento Y- (V4)	-0.01	-3.11	40.42	0.00	-0.01	-0.35
Desaprumo X+ (D1)	-0.02	77.24	0.04	0.02	0.00	0.46
Desaprumo X- (D2)	0.02	-77.24	-0.04	-0.02	0.00	-0.46
Desaprumo Y+ (D3)	0.01	-0.12	-22.56	0.00	0.02	0.02
Desaprumo Y- (D4)	-0.01	0.12	22.56	0.00	-0.02	-0.02
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	5.23	-1521.56	-1072.92	0.05	-0.01	0.14
G1+G2+0.7Q+0.6V2+D2	5.28	-1794.97	-1072.37	-0.03	-0.02	-3.21
G1+G2+0.7Q+0.6V3+D3	5.27	-1656.51	-1119.45	0.01	0.01	-1.31
G1+G2+0.7Q+0.6V4+D4	5.24	-1660.01	-1025.84	0.01	-0.04	-1.76
G1+G2+0.7Q+V1+0.6D1	5.24	-1512.81	-1073.15	0.06	-0.01	0.78
G1+G2+0.7Q+V2+0.6D2	5.28	-1803.72	-1072.13	-0.04	-0.02	-3.85
G1+G2+0.7Q+V3+0.6D3	5.28	-1655.22	-1126.60	0.01	0.01	-1.18
G1+G2+0.7Q+V4+0.6D4	5.24	-1661.31	-1018.69	0.01	-0.04	-1.89
G1+G2+D1	5.21	-1580.96	-961.18	0.02	-0.02	-1.10
G1+G2+D2	5.24	-1735.44	-961.27	-0.01	-0.02	-2.01
G1+G2+D3	5.23	-1658.32	-983.79	0.01	0.00	-1.54
G1+G2+D4	5.22	-1658.08	-938.67	0.01	-0.03	-1.57
G1+G2+Q+0.6V1+0.6D1	5.26	-1552.48	-1120.69	0.05	-0.01	-0.03
G1+G2+Q+0.6V2+0.6D2	5.29	-1764.10	-1120.10	-0.02	-0.02	-3.02
G1+G2+Q+0.6V3+0.6D3	5.28	-1656.49	-1158.18	0.01	0.00	-1.31
G1+G2+Q+0.6V4+0.6D4	5.26	-1660.09	-1082.61	0.01	-0.03	-1.74
G1+G2+Q+D1	5.26	-1581.05	-1120.35	0.03	-0.01	-1.07
G1+G2+Q+D2	5.29	-1735.53	-1120.44	0.00	-0.01	-1.98
G1+G2+Q+D3	5.28	-1658.40	-1142.95	0.01	0.00	-1.51
G1+G2+Q+D4	5.26	-1658.17	-1097.84	0.01	-0.03	-1.54

Fundação B97						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	20.00	-211.82	619.96	-0.97	-0.10	0.56
Adicional (G2)	8.45	-170.73	1452.37	-1.43	-0.20	1.26
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	4.52	10.71	-191.89	-0.11	-0.03	0.04
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	-0.11	-7.95	122.98	0.08	0.01	-0.03
Vento X- (V2)	0.11	7.95	-122.98	-0.08	-0.01	0.03
Vento Y+ (V3)	0.13	-292.62	-12.44	-0.01	0.25	0.05
Vento Y- (V4)	-0.13	292.62	12.44	0.01	-0.25	-0.05
Desaprumo X+ (D1)	-0.08	0.76	92.15	0.07	0.00	-0.03
Desaprumo X- (D2)	0.08	-0.76	-92.15	-0.07	0.00	0.03
Desaprumo Y+ (D3)	0.05	-148.92	-4.70	0.00	0.14	0.02
Desaprumo Y- (D4)	-0.05	148.92	4.70	0.00	-0.14	-0.02
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	31.46	-379.06	2103.94	-2.35	-0.32	1.81
G1+G2+0.7Q+0.6V2+D2	31.75	-371.05	1772.07	-2.59	-0.32	1.90
G1+G2+0.7Q+0.6V3+D3	31.73	-699.55	1925.84	-2.48	-0.03	1.90
G1+G2+0.7Q+0.6V4+D4	31.48	-50.55	1950.17	-2.46	-0.61	1.81
G1+G2+0.7Q+V1+0.6D1	31.44	-382.54	2116.27	-2.35	-0.32	1.81
G1+G2+0.7Q+V2+0.6D2	31.77	-367.56	1759.74	-2.60	-0.33	1.90
G1+G2+0.7Q+V3+0.6D3	31.76	-757.03	1922.74	-2.48	0.01	1.92

G1+G2+0.7Q+V4+0.6D4	31.45	6.93	1953.27	-2.46	-0.66	1.80
G1+G2+D1	28.37	-381.79	2164.48	-2.33	-0.30	1.80
G1+G2+D2	28.52	-383.31	1980.18	-2.47	-0.30	1.85
G1+G2+D3	28.49	-531.48	2067.63	-2.40	-0.16	1.84
G1+G2+D4	28.39	-233.63	2077.03	-2.40	-0.44	1.81
G1+G2+Q+0.6V1+0.6D1	32.84	-376.15	2009.51	-2.41	-0.33	1.84
G1+G2+Q+0.6V2+0.6D2	33.08	-367.53	1751.36	-2.60	-0.33	1.90
G1+G2+Q+0.6V3+0.6D3	33.07	-636.77	1870.15	-2.51	-0.10	1.91
G1+G2+Q+0.6V4+0.6D4	32.85	-106.91	1890.72	-2.50	-0.57	1.83
G1+G2+Q+D1	32.88	-371.07	1972.59	-2.43	-0.33	1.84
G1+G2+Q+D2	33.04	-372.60	1788.29	-2.58	-0.33	1.90
G1+G2+Q+D3	33.01	-520.76	1875.74	-2.51	-0.19	1.88
G1+G2+Q+D4	32.91	-222.91	1885.14	-2.50	-0.47	1.85

Fundação B98						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	34.50	121.92	-433.12	1.09	-0.35	-0.86
Adicional (G2)	14.53	-127.78	-841.53	2.03	-0.38	-2.83
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	12.23	318.87	55.54	-0.08	-0.24	0.48
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	-0.15	-9.39	84.60	0.16	0.00	-0.05
Vento X- (V2)	0.15	9.39	-84.60	-0.16	0.00	0.05
Vento Y+ (V3)	0.26	-423.69	-6.55	-0.01	0.19	0.03
Vento Y- (V4)	-0.26	423.69	6.55	0.01	-0.19	-0.03
Desaprumo X+ (D1)	-0.12	-0.29	63.59	0.14	0.00	-0.04
Desaprumo X- (D2)	0.12	0.29	-63.59	-0.14	0.00	0.04
Desaprumo Y+ (D3)	0.12	-215.44	-2.28	-0.01	0.11	0.00
Desaprumo Y- (D4)	-0.12	215.44	2.28	0.01	-0.11	0.00
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	57.39	211.42	-1121.43	3.30	-0.90	-3.42
G1+G2+0.7Q+0.6V2+D2	57.80	223.27	-1350.12	2.83	-0.90	-3.28
G1+G2+0.7Q+0.6V3+D3	57.87	-252.30	-1241.98	3.05	-0.67	-3.34
G1+G2+0.7Q+0.6V4+D4	57.32	687.00	-1229.56	3.08	-1.12	-3.37
G1+G2+0.7Q+V1+0.6D1	57.37	207.78	-1113.02	3.31	-0.90	-3.43
G1+G2+0.7Q+V2+0.6D2	57.82	226.91	-1358.52	2.82	-0.90	-3.28
G1+G2+0.7Q+V3+0.6D3	57.92	-335.60	-1243.69	3.05	-0.64	-3.33
G1+G2+0.7Q+V4+0.6D4	57.26	770.30	-1227.85	3.08	-1.15	-3.38
G1+G2+D1	48.92	-6.15	-1211.07	3.25	-0.73	-3.73
G1+G2+D2	49.15	-5.58	-1338.24	2.98	-0.73	-3.65
G1+G2+D3	49.15	-221.30	-1276.93	3.11	-0.62	-3.69
G1+G2+D4	48.91	209.57	-1272.38	3.12	-0.84	-3.69
G1+G2+Q+0.6V1+0.6D1	61.10	307.20	-1130.20	3.22	-0.97	-3.26
G1+G2+Q+0.6V2+0.6D2	61.42	318.82	-1308.02	2.86	-0.97	-3.16
G1+G2+Q+0.6V3+0.6D3	61.49	-70.47	-1224.41	3.03	-0.79	-3.20
G1+G2+Q+0.6V4+0.6D4	61.04	696.48	-1213.81	3.05	-1.15	-3.23
G1+G2+Q+D1	61.15	312.72	-1155.52	3.18	-0.97	-3.25
G1+G2+Q+D2	61.38	313.30	-1282.70	2.91	-0.97	-3.17
G1+G2+Q+D3	61.38	97.57	-1221.39	3.04	-0.86	-3.21
G1+G2+Q+D4	61.14	528.45	-1216.83	3.05	-1.08	-3.21

Fundação B99						
Combinação	**N**	**Mx**	**My**	**Vx**	**Vy**	**Mt**

	(tf)	(kgf.m)	(kgf.m)	(tf)	(tf)	(kgf/m)
Peso próprio (G1)	18.87	-124.88	15.25	-0.49	-0.31	1.87
Adicional (G2)	5.55	-837.87	92.66	-0.87	-0.46	18.11
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	4.27	205.34	-19.94	0.01	-0.12	-5.65
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	-0.27	0.81	480.18	0.33	0.00	0.05
Vento X- (V2)	0.27	-0.81	-480.18	-0.33	0.00	-0.05
Vento Y+ (V3)	0.09	-88.63	-41.52	-0.03	0.05	0.30
Vento Y- (V4)	-0.09	88.63	41.52	0.03	-0.05	-0.30
Desaprumo X+ (D1)	-0.19	1.31	355.88	0.25	0.00	0.03
Desaprumo X- (D2)	0.19	-1.31	-355.88	-0.25	0.00	-0.03
Desaprumo Y+ (D3)	0.03	-46.70	-15.13	-0.01	0.03	0.15
Desaprumo Y- (D4)	-0.03	46.70	15.13	0.01	-0.03	-0.15
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	27.06	-817.22	737.95	-0.90	-0.86	16.09
G1+G2+0.7Q+0.6V2+D2	27.76	-820.80	-550.03	-1.80	-0.85	15.97
G1+G2+0.7Q+0.6V3+D3	27.50	-918.89	53.92	-1.38	-0.79	16.36
G1+G2+0.7Q+0.6V4+D4	27.32	-719.14	134.00	-1.33	-0.92	15.70
G1+G2+0.7Q+V1+0.6D1	27.03	-817.42	787.67	-0.87	-0.86	16.09
G1+G2+0.7Q+V2+0.6D2	27.79	-820.60	-599.75	-1.83	-0.85	15.96
G1+G2+0.7Q+V3+0.6D3	27.52	-935.66	43.36	-1.39	-0.78	16.42
G1+G2+0.7Q+V4+0.6D4	27.30	-702.37	144.56	-1.32	-0.93	15.64
G1+G2+D1	24.23	-961.44	463.80	-1.11	-0.77	20.01
G1+G2+D2	24.61	-964.06	-247.96	-1.61	-0.76	19.95
G1+G2+D3	24.45	-1009.45	92.79	-1.37	-0.73	20.13
G1+G2+D4	24.39	-916.05	123.04	-1.35	-0.80	19.83
G1+G2+Q+0.6V1+0.6D1	28.42	-756.14	589.62	-1.00	-0.89	14.38
G1+G2+Q+0.6V2+0.6D2	28.97	-758.68	-413.66	-1.70	-0.89	14.29
G1+G2+Q+0.6V3+0.6D3	28.77	-838.60	53.99	-1.37	-0.84	14.60
G1+G2+Q+0.6V4+0.6D4	28.62	-676.21	121.97	-1.33	-0.94	14.06
G1+G2+Q+D1	28.51	-756.10	443.86	-1.10	-0.89	14.37
G1+G2+Q+D2	28.88	-758.72	-267.90	-1.60	-0.89	14.30
G1+G2+Q+D3	28.73	-804.11	72.85	-1.36	-0.86	14.48
G1+G2+Q+D4	28.66	-710.71	103.10	-1.34	-0.92	14.19

Fundação B100						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	20.24	-169.38	-117.29	0.05	0.13	-0.20
Adicional (G2)	4.76	-18.08	-106.02	0.15	0.00	-1.45
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	6.90	-16.11	-35.12	-0.03	0.00	0.49
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.56	-1.82	86.75	0.16	0.00	0.00
Vento X- (V2)	-0.56	1.83	-86.75	-0.16	0.00	0.00
Vento Y+ (V3)	0.53	-423.81	-7.35	-0.01	0.23	0.03
Vento Y- (V4)	-0.53	423.81	7.35	0.01	-0.23	-0.03
Desaprumo X+ (D1)	0.38	1.32	63.66	0.12	0.00	-0.01
Desaprumo X- (D2)	-0.38	-1.32	-63.66	-0.12	0.00	0.01
Desaprumo Y+ (D3)	0.26	-219.25	-2.62	-0.01	0.12	0.00
Desaprumo Y- (D4)	-0.26	219.25	2.62	0.01	-0.12	0.00
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00

Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	30.55	-198.52	-132.19	0.40	0.14	-1.31
G1+G2+0.7Q+0.6V2+D2	29.11	-198.97	-363.61	-0.03	0.14	-1.30
G1+G2+0.7Q+0.6V3+D3	30.40	-672.28	-254.93	0.17	0.39	-1.29
G1+G2+0.7Q+0.6V4+D4	29.25	274.80	-240.87	0.20	-0.12	-1.33
G1+G2+0.7Q+V1+0.6D1	30.62	-199.78	-122.96	0.42	0.14	-1.31
G1+G2+0.7Q+V2+0.6D2	29.04	-197.71	-372.84	-0.05	0.14	-1.31
G1+G2+0.7Q+V3+0.6D3	30.51	-754.11	-256.82	0.17	0.44	-1.28
G1+G2+0.7Q+V4+0.6D4	29.14	356.62	-238.98	0.20	-0.16	-1.34
G1+G2+D1	25.38	-186.15	-159.65	0.32	0.13	-1.66
G1+G2+D2	24.61	-188.79	-286.98	0.08	0.14	-1.65
G1+G2+D3	25.25	-406.72	-225.94	0.20	0.25	-1.65
G1+G2+D4	24.74	31.78	-220.69	0.21	0.02	-1.65
G1+G2+Q+0.6V1+0.6D1	32.46	-203.88	-168.19	0.35	0.14	-1.16
G1+G2+Q+0.6V2+0.6D2	31.33	-203.27	-348.68	0.01	0.14	-1.16
G1+G2+Q+0.6V3+0.6D3	32.37	-589.41	-264.42	0.16	0.35	-1.15
G1+G2+Q+0.6V4+0.6D4	31.43	182.26	-252.45	0.19	-0.07	-1.18
G1+G2+Q+D1	32.28	-202.26	-194.78	0.30	0.14	-1.17
G1+G2+Q+D2	31.52	-204.89	-322.10	0.06	0.14	-1.15
G1+G2+Q+D3	32.15	-422.83	-261.06	0.17	0.26	-1.16
G1+G2+Q+D4	31.64	15.68	-255.81	0.18	0.02	-1.16

Fundação B101						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	29.81	110.95	1.95	0.01	-0.12	-0.09
Adicional (G2)	9.69	14.10	16.22	0.01	-0.02	-0.05
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	5.87	159.84	19.36	0.02	-0.16	-0.06
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.02	7.53	186.66	0.10	-0.01	0.02
Vento X- (V2)	-0.02	-7.53	-186.66	-0.10	0.01	-0.02
Vento Y+ (V3)	0.28	-409.01	-15.34	-0.01	0.23	0.14
Vento Y- (V4)	-0.28	409.01	15.34	0.01	-0.23	-0.14
Desaprumo X+ (D1)	0.02	3.97	137.26	0.07	0.00	0.00
Desaprumo X- (D2)	-0.02	-3.97	-137.26	-0.07	0.00	0.00
Desaprumo Y+ (D3)	0.13	-216.52	-5.47	0.00	0.12	0.05
Desaprumo Y- (D4)	-0.13	216.52	5.47	0.00	-0.12	-0.05
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	43.65	245.43	280.97	0.17	-0.26	-0.17
G1+G2+0.7Q+0.6V2+D2	43.58	228.45	-217.54	-0.09	-0.25	-0.19
G1+G2+0.7Q+0.6V3+D3	43.91	-224.98	17.05	0.03	0.00	-0.05
G1+G2+0.7Q+0.6V4+D4	43.32	698.86	46.38	0.05	-0.51	-0.31
G1+G2+0.7Q+V1+0.6D1	43.65	246.85	300.74	0.18	-0.26	-0.16
G1+G2+0.7Q+V2+0.6D2	43.58	227.03	-237.30	-0.10	-0.24	-0.20
G1+G2+0.7Q+V3+0.6D3	43.97	-301.98	13.10	0.03	0.04	-0.01
G1+G2+0.7Q+V4+0.6D4	43.26	775.86	50.33	0.05	-0.55	-0.35
G1+G2+D1	39.52	129.03	155.42	0.10	-0.15	-0.14
G1+G2+D2	39.49	121.08	-119.10	-0.05	-0.14	-0.14
G1+G2+D3	39.64	-91.46	12.70	0.02	-0.03	-0.09
G1+G2+D4	39.37	341.57	23.63	0.03	-0.26	-0.19
G1+G2+Q+0.6V1+0.6D1	45.40	291.79	231.88	0.15	-0.31	-0.19
G1+G2+Q+0.6V2+0.6D2	45.35	277.99	-156.83	-0.06	-0.29	-0.21

G1+G2+Q+0.6V3+0.6D3	45.62	-90.42	25.04	0.04	-0.09	-0.09
G1+G2+Q+0.6V4+0.6D4	45.13	660.21	50.01	0.05	-0.51	-0.31
G1+G2+Q+D1	45.39	288.86	174.79	0.12	-0.30	-0.20
G1+G2+Q+D2	45.36	280.92	-99.73	-0.02	-0.30	-0.20
G1+G2+Q+D3	45.51	68.38	32.06	0.04	-0.18	-0.15
G1+G2+Q+D4	45.24	501.41	42.99	0.05	-0.42	-0.25

Fundação B102						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	34.20	407.58	-8.43	0.00	-0.39	-0.09
Adicional (G2)	8.50	114.48	-15.35	-0.01	-0.12	-0.05
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	8.37	339.79	-33.12	-0.02	-0.32	-0.06
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	-0.09	15.84	184.69	0.10	-0.01	0.02
Vento X- (V2)	0.09	-15.84	-184.69	-0.10	0.01	-0.02
Vento Y+ (V3)	0.40	-364.15	-15.60	-0.01	0.20	0.14
Vento Y- (V4)	-0.40	364.15	15.60	0.01	-0.20	-0.14
Desaprumo X+ (D1)	-0.04	5.60	136.05	0.07	-0.01	0.00
Desaprumo X- (D2)	0.04	-5.60	-136.05	-0.07	0.01	0.00
Desaprumo Y+ (D3)	0.20	-198.36	-5.59	0.00	0.11	0.05
Desaprumo Y- (D4)	-0.20	198.36	5.59	0.00	-0.11	-0.05
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	48.47	775.01	199.90	0.10	-0.74	-0.17
G1+G2+0.7Q+0.6V2+D2	48.65	744.81	-293.84	-0.16	-0.72	-0.19
G1+G2+0.7Q+0.6V3+D3	49.00	343.06	-61.92	-0.04	-0.50	-0.05
G1+G2+0.7Q+0.6V4+D4	48.12	1176.76	-32.01	-0.02	-0.95	-0.31
G1+G2+0.7Q+V1+0.6D1	48.45	779.11	219.36	0.11	-0.74	-0.16
G1+G2+0.7Q+V2+0.6D2	48.66	740.71	-313.29	-0.17	-0.71	-0.20
G1+G2+0.7Q+V3+0.6D3	49.08	276.74	-65.93	-0.04	-0.46	-0.02
G1+G2+0.7Q+V4+0.6D4	48.04	1243.07	-28.01	-0.02	-0.99	-0.35
G1+G2+D1	42.66	527.66	112.27	0.06	-0.51	-0.14
G1+G2+D2	42.74	516.46	-159.84	-0.08	-0.50	-0.14
G1+G2+D3	42.90	323.70	-29.38	-0.01	-0.40	-0.09
G1+G2+D4	42.50	720.42	-18.19	-0.01	-0.61	-0.19
G1+G2+Q+0.6V1+0.6D1	50.99	874.71	135.54	0.07	-0.83	-0.19
G1+G2+Q+0.6V2+0.6D2	51.14	848.98	-249.35	-0.14	-0.81	-0.21
G1+G2+Q+0.6V3+0.6D3	51.43	524.34	-69.62	-0.04	-0.64	-0.09
G1+G2+Q+0.6V4+0.6D4	50.71	1199.35	-44.18	-0.03	-1.01	-0.31
G1+G2+Q+D1	51.03	867.44	79.15	0.03	-0.83	-0.20
G1+G2+Q+D2	51.10	856.25	-192.96	-0.10	-0.82	-0.20
G1+G2+Q+D3	51.27	663.49	-62.50	-0.04	-0.72	-0.15
G1+G2+Q+D4	50.87	1060.20	-51.31	-0.03	-0.93	-0.25

Fundação B105						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	34.94	288.13	7.20	0.49	-0.39	0.79
Adicional (G2)	10.12	-175.01	-112.00	0.95	-0.27	1.33
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	9.03	258.44	50.34	-0.07	-0.20	-0.06
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	-0.09	-3.51	150.02	0.23	0.00	-0.22

Vento X- (V2)	0.09	3.51	-150.02	-0.23	0.00	0.22
Vento Y+ (V3)	0.46	-464.22	5.63	0.01	0.30	-0.09
Vento Y- (V4)	-0.46	464.22	-5.63	-0.01	-0.30	0.09
Desaprumo X+ (D1)	-0.06	-2.40	115.94	0.19	0.00	-0.21
Desaprumo X- (D2)	0.06	2.40	-115.94	-0.19	0.00	0.21
Desaprumo Y+ (D3)	0.23	-260.66	1.30	0.00	0.18	-0.04
Desaprumo Y- (D4)	-0.23	260.66	-1.30	0.00	-0.18	0.04
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	51.25	289.52	136.38	1.72	-0.80	1.74
G1+G2+0.7Q+0.6V2+D2	51.49	298.53	-275.51	1.07	-0.81	2.43
G1+G2+0.7Q+0.6V3+D3	51.88	-245.17	-64.89	1.40	-0.45	1.99
G1+G2+0.7Q+0.6V4+D4	50.86	833.22	-74.25	1.39	-1.16	2.18
G1+G2+0.7Q+V1+0.6D1	51.24	289.08	150.01	1.73	-0.80	1.74
G1+G2+0.7Q+V2+0.6D2	51.50	298.97	-289.15	1.05	-0.81	2.43
G1+G2+0.7Q+V3+0.6D3	51.97	-326.59	-63.15	1.40	-0.40	1.97
G1+G2+0.7Q+V4+0.6D4	50.77	914.65	-75.98	1.38	-1.21	2.19
G1+G2+D1	44.99	110.72	11.13	1.63	-0.66	1.91
G1+G2+D2	45.11	115.52	-220.74	1.25	-0.66	2.34
G1+G2+D3	45.29	-147.54	-103.51	1.44	-0.48	2.08
G1+G2+D4	44.82	373.78	-106.11	1.44	-0.84	2.16
G1+G2+Q+0.6V1+0.6D1	53.99	368.01	105.10	1.62	-0.87	1.81
G1+G2+Q+0.6V2+0.6D2	54.17	375.10	-214.04	1.12	-0.87	2.32
G1+G2+Q+0.6V3+0.6D3	54.50	-63.37	-50.30	1.37	-0.58	1.99
G1+G2+Q+0.6V4+0.6D4	53.66	806.49	-58.63	1.36	-1.15	2.14
G1+G2+Q+D1	54.02	369.16	61.47	1.56	-0.87	1.85
G1+G2+Q+D2	54.14	373.95	-170.40	1.18	-0.87	2.28
G1+G2+Q+D3	54.31	110.89	-53.16	1.37	-0.69	2.03
G1+G2+Q+D4	53.84	632.22	-55.77	1.37	-1.05	2.11

Fundação B106						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	34.50	-49.77	18.57	-0.39	-0.57	-0.09
Adicional (G2)	11.00	-243.96	35.16	-0.85	-0.32	-0.19
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	8.81	41.92	-164.76	-0.03	-0.12	-0.16
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	-0.06	-0.38	848.66	0.53	0.00	2.24
Vento X- (V2)	0.06	0.38	-848.66	-0.53	0.00	-2.24
Vento Y+ (V3)	0.09	-119.95	25.72	0.02	0.58	0.16
Vento Y- (V4)	-0.09	119.95	-25.72	-0.02	-0.58	-0.16
Desaprumo X+ (D1)	-0.04	-0.90	655.50	0.42	0.00	1.81
Desaprumo X- (D2)	0.04	0.90	-655.50	-0.42	0.00	-1.81
Desaprumo Y+ (D3)	0.05	-67.50	4.49	0.00	0.34	0.08
Desaprumo Y- (D4)	-0.05	67.50	-4.49	0.00	-0.34	-0.08
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	51.59	-265.51	1103.09	-0.53	-0.97	2.76
G1+G2+0.7Q+0.6V2+D2	51.74	-263.26	-1226.30	-2.00	-0.98	-3.54
G1+G2+0.7Q+0.6V3+D3	51.77	-403.86	-41.68	-1.25	-0.29	-0.21
G1+G2+0.7Q+0.6V4+D4	51.56	-124.91	-81.52	-1.28	-1.67	-0.57
G1+G2+0.7Q+V1+0.6D1	51.58	-265.31	1180.35	-0.49	-0.98	2.93

G1+G2+0.7Q+V2+0.6D2	51.75	-263.46	-1303.56	-2.04	-0.98	-3.71
G1+G2+0.7Q+V3+0.6D3	51.78	-424.84	-33.19	-1.25	-0.20	-0.18
G1+G2+0.7Q+V4+0.6D4	51.55	-103.93	-90.02	-1.28	-1.76	-0.60
G1+G2+D1	45.46	-294.63	709.22	-0.82	-0.89	1.53
G1+G2+D2	45.54	-292.83	-601.77	-1.67	-0.90	-2.09
G1+G2+D3	45.55	-361.23	58.22	-1.24	-0.56	-0.20
G1+G2+D4	45.45	-226.23	49.24	-1.25	-1.24	-0.36
G1+G2+Q+0.6V1+0.6D1	54.25	-252.58	791.46	-0.71	-1.01	1.99
G1+G2+Q+0.6V2+0.6D2	54.37	-251.04	-1013.53	-1.84	-1.02	-2.87
G1+G2+Q+0.6V3+0.6D3	54.39	-364.28	-92.91	-1.26	-0.46	-0.29
G1+G2+Q+0.6V4+0.6D4	54.23	-139.33	-129.16	-1.29	-1.57	-0.59
G1+G2+Q+D1	54.27	-252.70	544.46	-0.85	-1.01	1.37
G1+G2+Q+D2	54.34	-250.91	-766.53	-1.69	-1.02	-2.25
G1+G2+Q+D3	54.36	-319.31	-106.54	-1.27	-0.68	-0.36
G1+G2+Q+D4	54.26	-184.31	-115.52	-1.28	-1.35	-0.53

Fundação B107						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	18.85	59.68	-327.87	0.54	-0.29	0.31
Adicional (G2)	7.61	-116.92	-873.68	0.69	-0.23	0.78
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	4.32	85.02	152.43	0.09	-0.07	-0.09
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.29	-2.64	194.91	0.18	0.00	-0.13
Vento X- (V2)	-0.29	2.64	-194.91	-0.18	0.00	0.13
Vento Y+ (V3)	0.17	-281.71	9.17	0.01	0.24	-0.06
Vento Y- (V4)	-0.17	281.71	-9.17	-0.01	-0.24	0.06
Desaprumo X+ (D1)	0.18	-7.28	150.05	0.15	0.01	-0.10
Desaprumo X- (D2)	-0.18	7.28	-150.05	-0.15	-0.01	0.10
Desaprumo Y+ (D3)	0.07	-155.50	2.60	0.00	0.14	-0.02
Desaprumo Y- (D4)	-0.07	155.50	-2.60	0.00	-0.14	0.02
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	29.83	-6.59	-827.86	1.54	-0.56	0.84
G1+G2+0.7Q+0.6V2+D2	29.13	11.14	-1361.85	1.04	-0.57	1.20
G1+G2+0.7Q+0.6V3+D3	29.66	-322.25	-1086.75	1.30	-0.28	0.96
G1+G2+0.7Q+0.6V4+D4	29.30	326.80	-1102.95	1.28	-0.85	1.08
G1+G2+0.7Q+V1+0.6D1	29.87	-4.74	-809.91	1.55	-0.56	0.84
G1+G2+0.7Q+V2+0.6D2	29.09	9.29	-1379.79	1.03	-0.57	1.21
G1+G2+0.7Q+V3+0.6D3	29.70	-372.74	-1084.12	1.30	-0.25	0.95
G1+G2+0.7Q+V4+0.6D4	29.26	377.29	-1105.58	1.28	-0.88	1.10
G1+G2+D1	26.63	-64.52	-1051.50	1.37	-0.51	0.98
G1+G2+D2	26.28	-49.96	-1351.60	1.08	-0.52	1.19
G1+G2+D3	26.53	-212.74	-1198.95	1.23	-0.38	1.07
G1+G2+D4	26.38	98.26	-1204.15	1.23	-0.66	1.11
G1+G2+Q+0.6V1+0.6D1	31.06	21.83	-842.15	1.51	-0.58	0.86
G1+G2+Q+0.6V2+0.6D2	30.50	33.74	-1256.10	1.12	-0.59	1.13
G1+G2+Q+0.6V3+0.6D3	30.93	-234.55	-1042.06	1.32	-0.36	0.95
G1+G2+Q+0.6V4+0.6D4	30.63	290.11	-1056.19	1.31	-0.81	1.04
G1+G2+Q+D1	30.95	20.50	-899.08	1.46	-0.58	0.89
G1+G2+Q+D2	30.60	35.06	-1199.17	1.17	-0.59	1.10
G1+G2+Q+D3	30.85	-127.72	-1046.52	1.32	-0.45	0.97
G1+G2+Q+D4	30.70	183.28	-1051.72	1.32	-0.73	1.02

Fundação B108						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	19.19	237.02	515.71	-0.72	0.02	-0.46
Adicional (G2)	8.07	113.55	873.98	-0.64	0.15	-0.18
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	4.49	16.94	-176.57	-0.10	0.00	-0.14
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	-0.15	-8.01	123.92	0.09	0.01	0.04
Vento X- (V2)	0.15	8.01	-123.92	-0.09	-0.01	-0.04
Vento Y+ (V3)	-0.07	-278.17	-11.96	-0.01	0.24	0.04
Vento Y- (V4)	0.07	278.17	11.96	0.01	-0.24	-0.04
Desaprumo X+ (D1)	-0.10	0.43	92.80	0.08	0.00	0.02
Desaprumo X- (D2)	0.10	-0.43	-92.80	-0.08	0.00	-0.02
Desaprumo Y+ (D3)	-0.03	-141.58	-4.11	0.00	0.13	0.01
Desaprumo Y- (D4)	0.03	141.58	4.11	0.00	-0.13	-0.01
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	30.22	358.05	1433.24	-1.30	0.18	-0.70
G1+G2+0.7Q+0.6V2+D2	30.60	366.81	1098.94	-1.57	0.17	-0.78
G1+G2+0.7Q+0.6V3+D3	30.34	53.95	1254.81	-1.44	0.45	-0.70
G1+G2+0.7Q+0.6V4+D4	30.48	670.91	1277.38	-1.43	-0.11	-0.78
G1+G2+0.7Q+V1+0.6D1	30.20	354.68	1445.69	-1.30	0.18	-0.69
G1+G2+0.7Q+V2+0.6D2	30.62	370.19	1086.49	-1.57	0.17	-0.78
G1+G2+0.7Q+V3+0.6D3	30.32	-0.68	1251.67	-1.44	0.50	-0.69
G1+G2+0.7Q+V4+0.6D4	30.49	725.55	1280.52	-1.43	-0.15	-0.79
G1+G2+D1	27.16	351.00	1482.49	-1.29	0.17	-0.62
G1+G2+D2	27.36	350.15	1296.89	-1.44	0.17	-0.66
G1+G2+D3	27.23	209.00	1385.58	-1.37	0.30	-0.63
G1+G2+D4	27.29	492.16	1393.80	-1.36	0.04	-0.66
G1+G2+Q+0.6V1+0.6D1	31.61	362.96	1343.15	-1.36	0.18	-0.74
G1+G2+Q+0.6V2+0.6D2	31.91	372.07	1083.09	-1.56	0.17	-0.81
G1+G2+Q+0.6V3+0.6D3	31.70	115.67	1203.48	-1.47	0.40	-0.74
G1+G2+Q+0.6V4+0.6D4	31.81	619.36	1222.76	-1.46	-0.05	-0.81
G1+G2+Q+D1	31.65	367.94	1305.92	-1.39	0.17	-0.76
G1+G2+Q+D2	31.86	367.09	1120.32	-1.54	0.18	-0.80
G1+G2+Q+D3	31.73	225.93	1209.01	-1.47	0.31	-0.76
G1+G2+Q+D4	31.78	509.10	1217.23	-1.46	0.04	-0.79

Fundação B109						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	37.80	34.83	98.09	0.15	0.17	-0.05
Adicional (G2)	12.43	215.78	92.39	0.16	0.17	-0.15
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	10.00	-127.23	43.92	-0.09	0.13	0.02
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	-0.02	-9.34	97.55	0.12	0.01	0.02
Vento X- (V2)	0.02	9.34	-97.55	-0.12	-0.01	-0.02
Vento Y+ (V3)	-0.32	-422.27	-8.13	-0.01	0.28	0.07
Vento Y- (V4)	0.32	422.27	8.13	0.01	-0.28	-0.07
Desaprumo X+ (D1)	-0.01	-0.26	73.68	0.11	0.00	0.01
Desaprumo X- (D2)	0.01	0.26	-73.68	-0.11	0.00	-0.01
Desaprumo Y+ (D3)	-0.14	-213.37	-2.87	0.00	0.16	0.02
Desaprumo Y- (D4)	0.14	213.37	2.87	0.00	-0.16	-0.02

Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	57.20	155.69	353.43	0.43	0.44	-0.17
G1+G2+0.7Q+0.6V2+D2	57.24	167.42	89.01	0.07	0.43	-0.21
G1+G2+0.7Q+0.6V3+D3	56.89	-305.18	213.47	0.24	0.76	-0.13
G1+G2+0.7Q+0.6V4+D4	57.55	628.29	228.97	0.26	0.11	-0.25
G1+G2+0.7Q+V1+0.6D1	57.19	152.06	362.98	0.44	0.44	-0.16
G1+G2+0.7Q+V2+0.6D2	57.25	171.05	79.47	0.06	0.43	-0.22
G1+G2+0.7Q+V3+0.6D3	56.82	-388.74	211.37	0.24	0.80	-0.11
G1+G2+0.7Q+V4+0.6D4	57.62	711.85	231.07	0.26	0.06	-0.27
G1+G2+D1	50.22	250.35	264.16	0.42	0.34	-0.20
G1+G2+D2	50.23	250.88	116.80	0.20	0.34	-0.21
G1+G2+D3	50.08	37.24	187.61	0.31	0.50	-0.18
G1+G2+D4	50.36	463.99	193.35	0.31	0.19	-0.23
G1+G2+Q+0.6V1+0.6D1	60.20	117.62	337.13	0.36	0.48	-0.17
G1+G2+Q+0.6V2+0.6D2	60.24	129.15	131.66	0.09	0.47	-0.21
G1+G2+Q+0.6V3+0.6D3	59.95	-258.00	227.80	0.22	0.73	-0.13
G1+G2+Q+0.6V4+0.6D4	60.49	504.77	241.00	0.23	0.21	-0.24
G1+G2+Q+D1	60.21	123.12	308.07	0.33	0.47	-0.18
G1+G2+Q+D2	60.23	123.65	160.72	0.12	0.47	-0.19
G1+G2+Q+D3	60.08	-89.99	231.53	0.22	0.63	-0.16
G1+G2+Q+D4	60.36	336.76	237.27	0.23	0.32	-0.21

Fundação B110						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	37.04	183.57	-391.82	0.39	0.05	0.52
Adicional (G2)	11.98	251.01	-462.01	0.64	0.13	1.09
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	10.14	-62.28	-27.14	0.02	0.07	-0.08
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.00	-2.91	98.09	0.11	0.00	0.02
Vento X- (V2)	0.00	2.91	-98.09	-0.11	0.00	-0.02
Vento Y+ (V3)	-0.51	-375.98	-10.99	-0.01	0.25	0.06
Vento Y- (V4)	0.51	375.98	10.99	0.01	-0.25	-0.06
Desaprumo X+ (D1)	0.00	0.33	73.71	0.09	0.00	0.01
Desaprumo X- (D2)	0.00	-0.33	-73.71	-0.09	0.00	-0.01
Desaprumo Y+ (D3)	-0.23	-195.63	-3.96	0.00	0.14	0.02
Desaprumo Y- (D4)	0.23	195.63	3.96	0.00	-0.14	-0.02
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	56.11	389.57	-740.26	1.19	0.23	1.58
G1+G2+0.7Q+0.6V2+D2	56.11	392.40	-1005.38	0.88	0.23	1.53
G1+G2+0.7Q+0.6V3+D3	55.58	-30.23	-883.38	1.03	0.52	1.61
G1+G2+0.7Q+0.6V4+D4	56.65	812.20	-862.27	1.05	-0.06	1.50
G1+G2+0.7Q+V1+0.6D1	56.11	388.27	-730.51	1.20	0.23	1.58
G1+G2+0.7Q+V2+0.6D2	56.12	393.70	-1015.14	0.88	0.23	1.53
G1+G2+0.7Q+V3+0.6D3	55.47	-102.37	-886.19	1.02	0.56	1.63
G1+G2+0.7Q+V4+0.6D4	56.76	884.34	-859.46	1.05	-0.10	1.48
G1+G2+D1	49.02	434.92	-780.12	1.12	0.18	1.62
G1+G2+D2	49.01	434.25	-927.53	0.93	0.18	1.60
G1+G2+D3	48.79	238.96	-857.79	1.02	0.32	1.63
G1+G2+D4	49.24	630.21	-849.87	1.03	0.04	1.59

G1+G2+Q+0.6V1+0.6D1	59.15	370.75	-777.89	1.16	0.25	1.55
G1+G2+Q+0.6V2+0.6D2	59.16	373.85	-984.04	0.92	0.25	1.51
G1+G2+Q+0.6V3+0.6D3	58.71	29.34	-889.93	1.03	0.48	1.58
G1+G2+Q+0.6V4+0.6D4	59.60	715.26	-871.99	1.05	0.02	1.48
G1+G2+Q+D1	59.16	372.63	-807.26	1.13	0.25	1.54
G1+G2+Q+D2	59.15	371.97	-954.67	0.95	0.25	1.52
G1+G2+Q+D3	58.93	176.68	-884.92	1.04	0.39	1.55
G1+G2+Q+D4	59.38	567.93	-877.00	1.05	0.11	1.51

Fundação B111						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	46.55	-1263.14	71.25	-0.28	1.08	-0.18
Adicional (G2)	12.02	-440.15	235.56	-0.49	0.38	-0.15
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	16.89	-930.65	4.74	-0.05	0.79	-0.09
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.01	-2.85	97.08	0.10	0.00	0.01
Vento X- (V2)	-0.01	2.85	-97.08	-0.10	0.00	-0.01
Vento Y+ (V3)	-0.29	-428.97	-11.39	-0.01	0.24	0.09
Vento Y- (V4)	0.29	428.97	11.39	0.01	-0.24	-0.09
Desaprumo X+ (D1)	0.01	-3.46	72.65	0.08	0.00	0.00
Desaprumo X- (D2)	-0.01	3.46	-72.65	-0.08	0.00	0.00
Desaprumo Y+ (D3)	-0.14	-226.65	-4.15	0.00	0.13	0.03
Desaprumo Y- (D4)	0.14	226.65	4.15	0.00	-0.13	-0.03
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	70.41	-2359.93	441.03	-0.66	2.02	-0.38
G1+G2+0.7Q+0.6V2+D2	70.38	-2349.58	179.23	-0.95	2.01	-0.39
G1+G2+0.7Q+0.6V3+D3	70.08	-2838.79	299.15	-0.81	2.29	-0.30
G1+G2+0.7Q+0.6V4+D4	70.71	-1870.72	321.11	-0.79	1.73	-0.48
G1+G2+0.7Q+V1+0.6D1	70.41	-2359.68	450.80	-0.65	2.02	-0.38
G1+G2+0.7Q+V2+0.6D2	70.38	-2349.83	169.46	-0.95	2.01	-0.40
G1+G2+0.7Q+V3+0.6D3	70.02	-2919.72	296.26	-0.82	2.34	-0.27
G1+G2+0.7Q+V4+0.6D4	70.77	-1789.79	324.01	-0.79	1.69	-0.50
G1+G2+D1	58.58	-1706.76	379.46	-0.69	1.46	-0.33
G1+G2+D2	58.57	-1699.84	234.17	-0.85	1.46	-0.32
G1+G2+D3	58.43	-1929.95	302.67	-0.77	1.59	-0.29
G1+G2+D4	58.71	-1476.64	310.96	-0.77	1.33	-0.36
G1+G2+Q+0.6V1+0.6D1	75.47	-2637.74	413.39	-0.71	2.25	-0.41
G1+G2+Q+0.6V2+0.6D2	75.45	-2630.17	209.71	-0.93	2.25	-0.42
G1+G2+Q+0.6V3+0.6D3	75.20	-3027.33	302.23	-0.82	2.48	-0.34
G1+G2+Q+0.6V4+0.6D4	75.72	-2240.58	320.87	-0.81	2.03	-0.49
G1+G2+Q+D1	75.47	-2637.41	384.20	-0.73	2.25	-0.42
G1+G2+Q+D2	75.46	-2630.49	238.90	-0.90	2.25	-0.41
G1+G2+Q+D3	75.32	-2860.61	307.41	-0.82	2.39	-0.38
G1+G2+Q+D4	75.60	-2407.30	315.70	-0.81	2.12	-0.45

Fundação B112						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	48.09	-1136.34	-159.49	0.14	0.96	-0.02
Adicional (G2)	14.99	-519.29	-46.10	-0.01	0.44	-0.01
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	18.22	-934.28	-58.48	0.08	0.79	-0.01

Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	-0.01	1.10	97.21	0.11	0.00	0.01
Vento X- (V2)	0.01	-1.10	-97.21	-0.11	0.00	-0.01
Vento Y+ (V3)	-0.35	-373.51	-9.85	-0.01	0.21	0.10
Vento Y- (V4)	0.35	373.51	9.85	0.01	-0.21	-0.10
Desaprumo X+ (D1)	-0.02	-4.92	72.63	0.09	0.00	0.00
Desaprumo X- (D2)	0.02	4.92	-72.63	-0.09	0.00	0.00
Desaprumo Y+ (D3)	-0.18	-205.46	-3.51	0.00	0.12	0.04
Desaprumo Y- (D4)	0.18	205.46	3.51	0.00	-0.12	-0.04
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	75.81	-2313.88	-115.57	0.33	1.96	-0.03
G1+G2+0.7Q+0.6V2+D2	75.87	-2305.37	-377.48	0.03	1.95	-0.05
G1+G2+0.7Q+0.6V3+D3	75.45	-2739.19	-255.95	0.17	2.20	0.06
G1+G2+0.7Q+0.6V4+D4	76.22	-1880.06	-237.11	0.19	1.71	-0.14
G1+G2+0.7Q+V1+0.6D1	75.81	-2311.47	-105.74	0.34	1.96	-0.03
G1+G2+0.7Q+V2+0.6D2	75.86	-2307.77	-387.31	0.02	1.95	-0.05
G1+G2+0.7Q+V3+0.6D3	75.38	-2806.41	-258.48	0.17	2.23	0.08
G1+G2+0.7Q+V4+0.6D4	76.29	-1812.83	-234.57	0.19	1.68	-0.16
G1+G2+D1	63.06	-1660.54	-132.96	0.21	1.41	-0.04
G1+G2+D2	63.10	-1650.71	-278.22	0.03	1.40	-0.03
G1+G2+D3	62.91	-1861.08	-209.10	0.12	1.53	0.00
G1+G2+D4	63.26	-1450.17	-202.07	0.13	1.28	-0.07
G1+G2+Q+0.6V1+0.6D1	81.28	-2592.20	-162.17	0.32	2.19	-0.04
G1+G2+Q+0.6V2+0.6D2	81.32	-2587.62	-365.97	0.09	2.19	-0.05
G1+G2+Q+0.6V3+0.6D3	80.99	-2937.29	-272.09	0.20	2.39	0.04
G1+G2+Q+0.6V4+0.6D4	81.62	-2242.52	-256.06	0.21	2.00	-0.13
G1+G2+Q+D1	81.28	-2594.82	-191.44	0.29	2.20	-0.04
G1+G2+Q+D2	81.33	-2584.99	-336.70	0.12	2.19	-0.04
G1+G2+Q+D3	81.13	-2795.36	-267.58	0.20	2.31	-0.01
G1+G2+Q+D4	81.48	-2384.45	-260.56	0.21	2.07	-0.08

Fundação B115						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	46.35	-397.78	124.55	-0.01	0.51	-0.88
Adicional (G2)	15.97	-417.75	254.29	-0.12	0.41	-1.02
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	17.66	-687.86	52.34	-0.09	0.63	-1.22
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.07	-3.99	148.80	0.16	0.00	-0.03
Vento X- (V2)	-0.07	3.99	-148.80	-0.16	0.00	0.03
Vento Y+ (V3)	-0.55	-542.74	4.47	0.01	0.29	-0.99
Vento Y- (V4)	0.55	542.74	-4.47	-0.01	-0.29	0.99
Desaprumo X+ (D1)	0.05	-2.71	114.91	0.14	0.00	-0.02
Desaprumo X- (D2)	-0.05	2.71	-114.91	-0.14	0.00	0.02
Desaprumo Y+ (D3)	-0.28	-304.43	0.35	0.00	0.17	-0.54
Desaprumo Y- (D4)	0.28	304.43	-0.35	0.00	-0.17	0.54
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	74.78	-1302.13	619.67	0.04	1.36	-2.79
G1+G2+0.7Q+0.6V2+D2	74.59	-1291.92	211.28	-0.43	1.36	-2.72
G1+G2+0.7Q+0.6V3+D3	74.07	-1927.09	418.51	-0.19	1.71	-3.89

G1+G2+0.7Q+0.6V4+D4	75.30	-666.95	412.44	-0.20	1.01	-1.62
G1+G2+0.7Q+V1+0.6D1	74.79	-1302.64	633.22	0.05	1.36	-2.79
G1+G2+0.7Q+V2+0.6D2	74.59	-1291.41	197.72	-0.44	1.36	-2.72
G1+G2+0.7Q+V3+0.6D3	73.96	-2022.42	420.15	-0.19	1.76	-4.07
G1+G2+0.7Q+V4+0.6D4	75.41	-571.63	410.79	-0.20	0.97	-1.44
G1+G2+D1	62.37	-818.24	493.75	0.00	0.92	-1.92
G1+G2+D2	62.27	-812.81	263.92	-0.27	0.92	-1.88
G1+G2+D3	62.04	-1119.95	379.19	-0.13	1.09	-2.44
G1+G2+D4	62.61	-511.10	378.48	-0.13	0.75	-1.35
G1+G2+Q+0.6V1+0.6D1	80.06	-1507.40	589.40	-0.05	1.55	-3.15
G1+G2+Q+0.6V2+0.6D2	79.91	-1499.36	272.95	-0.40	1.55	-3.09
G1+G2+Q+0.6V3+0.6D3	79.48	-2011.68	434.07	-0.22	1.83	-4.04
G1+G2+Q+0.6V4+0.6D4	80.49	-995.08	428.28	-0.23	1.27	-2.20
G1+G2+Q+D1	80.04	-1506.09	546.09	-0.09	1.55	-3.14
G1+G2+Q+D2	79.93	-1500.67	316.26	-0.36	1.55	-3.10
G1+G2+Q+D3	79.70	-1807.81	431.53	-0.22	1.72	-3.67
G1+G2+Q+D4	80.27	-1198.95	430.82	-0.23	1.38	-2.58

Fundação B116						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	47.44	-814.88	62.61	-0.35	0.88	-2.32
Adicional (G2)	19.92	-694.84	119.85	-0.63	0.68	-2.94
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	17.71	-849.48	-35.83	0.11	0.77	-0.29
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	-0.08	-1.44	148.97	0.18	0.00	0.01
Vento X- (V2)	0.08	1.44	-148.97	-0.18	0.00	-0.01
Vento Y+ (V3)	-0.13	-563.04	5.46	0.00	0.31	-0.21
Vento Y- (V4)	0.13	563.04	-5.46	0.00	-0.31	0.21
Desaprumo X+ (D1)	-0.05	-3.82	115.74	0.15	0.00	0.00
Desaprumo X- (D2)	0.05	3.82	-115.74	-0.15	0.00	0.00
Desaprumo Y+ (D3)	-0.07	-307.53	0.87	0.00	0.19	-0.10
Desaprumo Y- (D4)	0.07	307.53	-0.87	0.00	-0.19	0.10
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	79.66	-2109.05	362.50	-0.65	2.10	-5.46
G1+G2+0.7Q+0.6V2+D2	79.86	-2099.67	-47.73	-1.16	2.10	-5.47
G1+G2+0.7Q+0.6V3+D3	79.61	-2749.72	161.53	-0.90	2.47	-5.69
G1+G2+0.7Q+0.6V4+D4	79.91	-1459.01	153.24	-0.91	1.73	-5.24
G1+G2+0.7Q+V1+0.6D1	79.65	-2108.10	375.79	-0.64	2.10	-5.46
G1+G2+0.7Q+V2+0.6D2	79.87	-2100.63	-61.02	-1.17	2.10	-5.47
G1+G2+0.7Q+V3+0.6D3	79.58	-2851.92	163.37	-0.90	2.52	-5.73
G1+G2+0.7Q+V4+0.6D4	79.93	-1356.81	151.40	-0.91	1.68	-5.20
G1+G2+D1	67.31	-1513.55	298.21	-0.83	1.56	-5.26
G1+G2+D2	67.41	-1505.90	66.73	-1.13	1.56	-5.26
G1+G2+D3	67.29	-1817.26	183.34	-0.98	1.74	-5.36
G1+G2+D4	67.43	-1202.19	181.60	-0.98	1.37	-5.16
G1+G2+Q+0.6V1+0.6D1	84.99	-2362.37	305.46	-0.68	2.33	-5.55
G1+G2+Q+0.6V2+0.6D2	85.15	-2356.05	-12.19	-1.07	2.33	-5.55
G1+G2+Q+0.6V3+0.6D3	84.95	-2881.55	150.44	-0.87	2.63	-5.74
G1+G2+Q+0.6V4+0.6D4	85.19	-1836.87	142.84	-0.87	2.03	-5.37
G1+G2+Q+D1	85.01	-2363.03	262.37	-0.72	2.33	-5.55
G1+G2+Q+D2	85.12	-2355.38	30.90	-1.02	2.33	-5.55
G1+G2+Q+D3	85.00	-2666.74	147.51	-0.87	2.52	-5.65

G1+G2+Q+D4	85.14	-2051.67	145.76	-0.87	2.15	-5.45

Fundação B117						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	19.17	457.73	-433.53	0.76	-0.15	-0.54
Adicional (G2)	8.34	154.61	-1143.86	0.92	0.19	-0.84
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	4.50	48.43	174.69	0.11	-0.04	0.05
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.19	-1.99	191.34	0.14	0.00	0.06
Vento X- (V2)	-0.19	1.99	-191.34	-0.14	0.00	-0.06
Vento Y+ (V3)	-0.14	-280.65	4.22	0.00	0.23	-0.04
Vento Y- (V4)	0.14	280.65	-4.22	0.00	-0.23	0.04
Desaprumo X+ (D1)	0.16	-6.78	148.06	0.12	0.01	0.04
Desaprumo X- (D2)	-0.16	6.78	-148.06	-0.12	-0.01	-0.04
Desaprumo Y+ (D3)	-0.07	-155.17	-0.29	0.00	0.14	-0.01
Desaprumo Y- (D4)	0.07	155.17	0.29	0.00	-0.14	0.01
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	30.94	638.27	-1192.24	1.96	0.02	-1.27
G1+G2+0.7Q+0.6V2+D2	30.38	654.21	-1717.98	1.56	0.00	-1.41
G1+G2+0.7Q+0.6V3+D3	30.51	322.68	-1452.87	1.76	0.29	-1.37
G1+G2+0.7Q+0.6V4+D4	30.81	969.80	-1457.35	1.75	-0.27	-1.31
G1+G2+0.7Q+V1+0.6D1	30.95	640.19	-1174.93	1.97	0.01	-1.26
G1+G2+0.7Q+V2+0.6D2	30.37	652.29	-1735.29	1.55	0.00	-1.42
G1+G2+0.7Q+V3+0.6D3	30.48	272.49	-1451.07	1.76	0.32	-1.38
G1+G2+0.7Q+V4+0.6D4	30.84	1019.99	-1459.15	1.75	-0.31	-1.30
G1+G2+D1	27.67	605.56	-1429.33	1.80	0.04	-1.34
G1+G2+D2	27.35	619.12	-1725.46	1.56	0.03	-1.42
G1+G2+D3	27.44	457.16	-1577.68	1.68	0.18	-1.39
G1+G2+D4	27.57	767.51	-1577.10	1.68	-0.10	-1.37
G1+G2+Q+0.6V1+0.6D1	32.22	655.51	-1199.06	1.94	0.00	-1.27
G1+G2+Q+0.6V2+0.6D2	31.80	666.03	-1606.35	1.64	-0.01	-1.38
G1+G2+Q+0.6V3+0.6D3	31.88	399.28	-1400.35	1.79	0.22	-1.35
G1+G2+Q+0.6V4+0.6D4	32.14	922.26	-1405.06	1.79	-0.23	-1.30
G1+G2+Q+D1	32.17	653.99	-1254.64	1.91	0.00	-1.29
G1+G2+Q+D2	31.85	667.55	-1550.77	1.67	-0.01	-1.36
G1+G2+Q+D3	31.94	505.60	-1402.99	1.79	0.13	-1.34
G1+G2+Q+D4	32.08	815.94	-1402.41	1.79	-0.14	-1.31

Fundação B118						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	6.83	-3.93	627.96	-0.77	0.11	0.23
Adicional (G2)	6.44	98.54	1005.63	-1.15	0.14	0.37
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	2.84	-62.50	-5.86	0.00	0.02	-0.18
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	-0.01	-8.87	21.71	0.01	0.01	0.02
Vento X- (V2)	0.01	8.87	-21.71	-0.01	-0.01	-0.02
Vento Y+ (V3)	-0.05	-288.90	-3.06	0.00	0.24	0.02
Vento Y- (V4)	0.05	288.91	3.06	0.00	-0.24	-0.02
Desaprumo X+ (D1)	-0.01	0.31	17.41	0.02	0.00	0.02
Desaprumo X- (D2)	0.01	-0.31	-17.41	-0.02	0.00	-0.02

Desaprumo Y+ (D3)	-0.02	-141.31	-1.12	0.00	0.13	0.01
Desaprumo Y- (D4)	0.02	141.31	1.12	0.00	-0.13	-0.01
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	15.24	45.84	1659.92	-1.90	0.27	0.50
G1+G2+0.7Q+0.6V2+D2	15.27	55.87	1599.06	-1.95	0.26	0.44
G1+G2+0.7Q+0.6V3+D3	15.21	-263.80	1626.53	-1.92	0.54	0.49
G1+G2+0.7Q+0.6V4+D4	15.31	365.51	1632.44	-1.92	-0.01	0.45
G1+G2+0.7Q+V1+0.6D1	15.24	42.16	1661.64	-1.90	0.27	0.51
G1+G2+0.7Q+V2+0.6D2	15.27	59.55	1597.34	-1.95	0.26	0.44
G1+G2+0.7Q+V3+0.6D3	15.20	-322.83	1625.75	-1.92	0.58	0.50
G1+G2+0.7Q+V4+0.6D4	15.32	424.55	1633.22	-1.92	-0.05	0.45
G1+G2+D1	13.26	94.91	1650.99	-1.90	0.25	0.61
G1+G2+D2	13.27	94.30	1616.18	-1.94	0.25	0.58
G1+G2+D3	13.24	-46.71	1632.47	-1.92	0.38	0.61
G1+G2+D4	13.29	235.91	1634.71	-1.92	0.12	0.59
G1+G2+Q+0.6V1+0.6D1	16.10	26.97	1651.20	-1.90	0.28	0.44
G1+G2+Q+0.6V2+0.6D2	16.12	37.25	1604.26	-1.94	0.27	0.39
G1+G2+Q+0.6V3+0.6D3	16.07	-226.02	1625.22	-1.92	0.49	0.44
G1+G2+Q+0.6V4+0.6D4	16.15	290.23	1630.24	-1.92	0.05	0.40
G1+G2+Q+D1	16.10	32.41	1645.13	-1.90	0.27	0.43
G1+G2+Q+D2	16.12	31.80	1610.32	-1.94	0.27	0.40
G1+G2+Q+D3	16.09	-109.20	1626.61	-1.92	0.40	0.43
G1+G2+Q+D4	16.13	173.41	1628.85	-1.92	0.14	0.41

Fundação B119						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	16.53	12.58	4.69	-0.02	0.13	-0.15
Adicional (G2)	10.68	110.65	53.94	-0.25	0.11	-0.28
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	8.69	-85.55	2.62	-0.01	0.04	0.14
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.00	-5.87	14.64	0.04	0.01	-0.01
Vento X- (V2)	0.00	5.87	-14.64	-0.04	-0.01	0.01
Vento Y+ (V3)	0.05	-263.52	-1.87	0.00	0.26	0.02
Vento Y- (V4)	-0.05	263.52	1.87	0.00	-0.26	-0.02
Desaprumo X+ (D1)	0.00	-0.06	12.99	0.06	0.00	-0.01
Desaprumo X- (D2)	0.00	0.06	-12.99	-0.06	0.00	0.01
Desaprumo Y+ (D3)	0.02	-133.99	-0.67	0.00	0.16	0.01
Desaprumo Y- (D4)	-0.02	133.99	0.67	0.00	-0.16	-0.01
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	33.29	59.77	82.24	-0.19	0.28	-0.35
G1+G2+0.7Q+0.6V2+D2	33.29	66.93	38.69	-0.36	0.27	-0.31
G1+G2+0.7Q+0.6V3+D3	33.34	-228.75	58.66	-0.28	0.59	-0.31
G1+G2+0.7Q+0.6V4+D4	33.24	355.45	62.26	-0.27	-0.04	-0.34
G1+G2+0.7Q+V1+0.6D1	33.29	57.44	82.90	-0.20	0.28	-0.35
G1+G2+0.7Q+V2+0.6D2	33.29	69.25	38.03	-0.35	0.27	-0.31
G1+G2+0.7Q+V3+0.6D3	33.35	-280.56	58.18	-0.28	0.64	-0.31
G1+G2+0.7Q+V4+0.6D4	33.23	407.26	62.74	-0.27	-0.08	-0.35
G1+G2+D1	27.21	123.18	71.62	-0.21	0.25	-0.44
G1+G2+D2	27.21	123.29	45.64	-0.33	0.25	-0.42

G1+G2+D3	27.23	-10.76	57.96	-0.27	0.41	-0.42
G1+G2+D4	27.19	257.23	59.30	-0.27	0.09	-0.43
G1+G2+Q+0.6V1+0.6D1	35.90	34.13	77.82	-0.22	0.29	-0.30
G1+G2+Q+0.6V2+0.6D2	35.89	41.24	44.67	-0.34	0.29	-0.27
G1+G2+Q+0.6V3+0.6D3	35.94	-200.82	59.72	-0.28	0.54	-0.27
G1+G2+Q+0.6V4+0.6D4	35.85	276.19	62.77	-0.28	0.03	-0.30
G1+G2+Q+D1	35.89	37.63	74.23	-0.22	0.29	-0.30
G1+G2+Q+D2	35.89	37.74	48.26	-0.34	0.29	-0.28
G1+G2+Q+D3	35.92	-96.31	60.57	-0.28	0.45	-0.28
G1+G2+Q+D4	35.87	171.67	61.92	-0.28	0.13	-0.29

Fundação B120						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	14.06	-25.78	-642.82	0.78	0.12	-0.09
Adicional (G2)	7.75	100.97	-1093.54	1.40	0.11	0.01
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	8.06	-102.04	-3.00	0.00	0.04	-0.07
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.01	-3.32	23.99	0.01	0.00	0.00
Vento X- (V2)	-0.01	3.32	-23.99	-0.01	0.00	0.00
Vento Y+ (V3)	0.02	-245.75	-3.11	0.00	0.24	0.02
Vento Y- (V4)	-0.02	245.75	3.11	0.00	-0.24	-0.02
Desaprumo X+ (D1)	0.00	-0.65	19.11	0.02	0.00	0.00
Desaprumo X- (D2)	0.00	0.65	-19.11	-0.02	0.00	0.00
Desaprumo Y+ (D3)	0.01	-126.45	-1.09	0.00	0.14	0.01
Desaprumo Y- (D4)	-0.01	126.45	1.09	0.00	-0.14	-0.01
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	27.47	1.13	-1704.95	2.21	0.26	-0.13
G1+G2+0.7Q+0.6V2+D2	27.45	6.40	-1771.96	2.16	0.26	-0.13
G1+G2+0.7Q+0.6V3+D3	27.48	-270.13	-1741.42	2.19	0.54	-0.11
G1+G2+0.7Q+0.6V4+D4	27.44	277.67	-1735.50	2.19	-0.03	-0.16
G1+G2+0.7Q+V1+0.6D1	27.47	0.06	-1703.00	2.21	0.26	-0.13
G1+G2+0.7Q+V2+0.6D2	27.45	7.47	-1773.91	2.17	0.26	-0.13
G1+G2+0.7Q+V3+0.6D3	27.48	-317.86	-1742.23	2.19	0.58	-0.10
G1+G2+0.7Q+V4+0.6D4	27.44	325.39	-1734.69	2.19	-0.07	-0.16
G1+G2+D1	21.82	74.55	-1717.24	2.21	0.23	-0.08
G1+G2+D2	21.81	75.84	-1755.47	2.17	0.23	-0.08
G1+G2+D3	21.82	-51.25	-1737.45	2.19	0.37	-0.07
G1+G2+D4	21.81	201.64	-1735.26	2.19	0.09	-0.09
G1+G2+Q+0.6V1+0.6D1	29.89	-29.22	-1713.50	2.21	0.27	-0.15
G1+G2+Q+0.6V2+0.6D2	29.87	-24.47	-1765.22	2.17	0.27	-0.15
G1+G2+Q+0.6V3+0.6D3	29.89	-250.17	-1741.88	2.19	0.50	-0.13
G1+G2+Q+0.6V4+0.6D4	29.86	196.47	-1736.84	2.19	0.04	-0.17
G1+G2+Q+D1	29.88	-27.49	-1720.25	2.21	0.27	-0.15
G1+G2+Q+D2	29.88	-26.20	-1758.47	2.17	0.27	-0.15
G1+G2+Q+D3	29.89	-153.29	-1740.45	2.19	0.41	-0.14
G1+G2+Q+D4	29.87	99.60	-1738.26	2.19	0.13	-0.16

Fundação B121						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	1.16	1.89	-4.01	0.00	0.01	-0.17
Adicional (G2)	1.56	17.96	-4.72	0.00	0.04	0.29

Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	-0.01	-4.10	0.51	0.00	-0.02	-0.26
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.00	-0.11	1.17	0.01	0.00	0.01
Vento X- (V2)	0.00	0.11	-1.17	-0.01	0.00	-0.01
Vento Y+ (V3)	0.00	1.22	0.01	0.00	0.02	0.20
Vento Y- (V4)	0.00	-1.22	-0.01	0.00	-0.02	-0.20
Desaprumo X+ (D1)	0.00	-0.12	1.38	0.01	0.00	0.01
Desaprumo X- (D2)	0.00	0.12	-1.38	-0.01	0.00	-0.01
Desaprumo Y+ (D3)	0.00	0.29	0.00	0.00	0.01	0.11
Desaprumo Y- (D4)	0.00	-0.29	0.00	0.00	-0.01	-0.11
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	2.72	16.79	-6.29	0.01	0.04	-0.06
G1+G2+0.7Q+0.6V2+D2	2.73	17.18	-10.46	-0.01	0.04	-0.08
G1+G2+0.7Q+0.6V3+D3	2.72	18.00	-8.36	0.00	0.06	0.16
G1+G2+0.7Q+0.6V4+D4	2.72	15.96	-8.38	0.00	0.02	-0.30
G1+G2+0.7Q+V1+0.6D1	2.72	16.80	-6.37	0.01	0.04	-0.06
G1+G2+0.7Q+V2+0.6D2	2.73	17.17	-10.37	-0.01	0.04	-0.09
G1+G2+0.7Q+V3+0.6D3	2.72	18.37	-8.36	0.00	0.06	0.20
G1+G2+0.7Q+V4+0.6D4	2.72	15.59	-8.39	0.00	0.01	-0.34
G1+G2+D1	2.73	19.73	-7.35	0.01	0.05	0.12
G1+G2+D2	2.73	19.98	-10.11	-0.01	0.05	0.11
G1+G2+D3	2.73	20.14	-8.73	0.00	0.06	0.23
G1+G2+D4	2.73	19.56	-8.73	0.00	0.04	0.00
G1+G2+Q+0.6V1+0.6D1	2.72	15.61	-6.69	0.01	0.04	-0.14
G1+G2+Q+0.6V2+0.6D2	2.73	15.90	-9.75	-0.01	0.03	-0.16
G1+G2+Q+0.6V3+0.6D3	2.72	16.66	-8.21	0.00	0.05	0.04
G1+G2+Q+0.6V4+0.6D4	2.72	14.85	-8.23	0.00	0.02	-0.34
G1+G2+Q+D1	2.72	15.63	-6.84	0.01	0.03	-0.14
G1+G2+Q+D2	2.73	15.88	-9.60	-0.01	0.03	-0.16
G1+G2+Q+D3	2.72	16.04	-8.22	0.00	0.05	-0.04
G1+G2+Q+D4	2.72	15.46	-8.22	0.00	0.02	-0.26

Fundação B122						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	1.59	-79.31	30.94	-0.20	0.01	-0.10
Adicional (G2)	2.49	-207.95	51.88	-0.39	0.01	-0.24
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	-0.01	-0.25	1.07	0.01	0.00	0.01
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	-0.03	0.76	-1.41	0.08	0.00	0.00
Vento X- (V2)	0.03	-0.76	1.41	-0.08	0.00	0.00
Vento Y+ (V3)	0.00	-0.52	-0.07	0.00	0.01	-0.06
Vento Y- (V4)	0.00	0.52	0.07	0.00	-0.01	0.06
Desaprumo X+ (D1)	-0.02	0.51	-0.47	0.07	0.00	0.00
Desaprumo X- (D2)	0.02	-0.51	0.47	-0.07	0.00	0.00
Desaprumo Y+ (D3)	0.00	-1.17	0.00	0.00	0.01	-0.03
Desaprumo Y- (D4)	0.00	1.17	0.00	0.00	-0.01	0.03
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	4.04	-286.48	82.27	-0.46	0.02	-0.33

G1+G2+0.7Q+0.6V2+D2	4.11	-288.40	84.89	-0.70	0.02	-0.33
G1+G2+0.7Q+0.6V3+D3	4.07	-288.92	83.53	-0.58	0.04	-0.40
G1+G2+0.7Q+0.6V4+D4	4.07	-285.95	83.62	-0.58	0.00	-0.27
G1+G2+0.7Q+V1+0.6D1	4.03	-286.38	81.89	-0.45	0.02	-0.33
G1+G2+0.7Q+V2+0.6D2	4.12	-288.50	85.26	-0.71	0.02	-0.33
G1+G2+0.7Q+V3+0.6D3	4.07	-288.66	83.51	-0.58	0.04	-0.41
G1+G2+0.7Q+V4+0.6D4	4.08	-286.21	83.64	-0.58	0.00	-0.26
G1+G2+D1	4.06	-286.75	82.36	-0.51	0.02	-0.34
G1+G2+D2	4.10	-287.77	83.29	-0.66	0.02	-0.34
G1+G2+D3	4.08	-288.43	82.82	-0.59	0.04	-0.37
G1+G2+D4	4.08	-286.09	82.83	-0.59	0.01	-0.31
G1+G2+Q+0.6V1+0.6D1	4.04	-286.75	82.77	-0.48	0.02	-0.33
G1+G2+Q+0.6V2+0.6D2	4.10	-288.27	85.02	-0.67	0.02	-0.33
G1+G2+Q+0.6V3+0.6D3	4.07	-288.53	83.86	-0.57	0.04	-0.38
G1+G2+Q+0.6V4+0.6D4	4.07	-286.50	83.94	-0.58	0.01	-0.28
G1+G2+Q+D1	4.05	-287.01	83.43	-0.50	0.02	-0.33
G1+G2+Q+D2	4.09	-288.02	84.36	-0.65	0.02	-0.33
G1+G2+Q+D3	4.07	-288.68	83.89	-0.57	0.04	-0.36
G1+G2+Q+D4	4.07	-286.34	83.90	-0.57	0.01	-0.30

Fundação B123						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	6.12	187.29	-20.19	0.22	-0.12	-0.33
Adicional (G2)	5.28	48.37	-48.04	0.40	0.04	-0.63
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	2.87	25.97	4.89	0.00	-0.04	0.12
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.03	1.28	19.46	-0.05	0.00	0.03
Vento X- (V2)	-0.03	-1.28	-19.46	0.05	0.00	-0.03
Vento Y+ (V3)	0.00	-309.01	0.65	0.00	0.25	-0.06
Vento Y- (V4)	0.00	309.01	-0.65	0.00	-0.25	0.06
Desaprumo X+ (D1)	0.02	-1.05	15.52	-0.03	0.00	0.02
Desaprumo X- (D2)	-0.02	1.05	-15.52	0.03	0.00	-0.02
Desaprumo Y+ (D3)	0.00	-162.67	0.01	0.00	0.14	-0.03
Desaprumo Y- (D4)	0.00	162.67	-0.01	0.00	-0.14	0.03
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	13.45	253.56	-37.60	0.55	-0.10	-0.84
G1+G2+0.7Q+0.6V2+D2	13.38	254.13	-92.01	0.68	-0.11	-0.92
G1+G2+0.7Q+0.6V3+D3	13.41	-94.24	-64.40	0.61	0.18	-0.94
G1+G2+0.7Q+0.6V4+D4	13.42	601.92	-65.21	0.61	-0.40	-0.82
G1+G2+0.7Q+V1+0.6D1	13.45	254.49	-36.03	0.54	-0.11	-0.83
G1+G2+0.7Q+V2+0.6D2	13.38	253.20	-93.58	0.68	-0.11	-0.93
G1+G2+0.7Q+V3+0.6D3	13.41	-152.77	-64.15	0.61	0.22	-0.96
G1+G2+0.7Q+V4+0.6D4	13.42	660.46	-65.46	0.61	-0.44	-0.80
G1+G2+D1	11.43	234.61	-52.71	0.58	-0.08	-0.94
G1+G2+D2	11.39	236.71	-83.75	0.65	-0.08	-0.99
G1+G2+D3	11.41	72.99	-68.22	0.62	0.06	-1.00
G1+G2+D4	11.41	398.33	-68.24	0.62	-0.22	-0.94
G1+G2+Q+0.6V1+0.6D1	14.30	261.77	-42.35	0.56	-0.12	-0.81
G1+G2+Q+0.6V2+0.6D2	14.25	261.50	-84.33	0.66	-0.12	-0.88
G1+G2+Q+0.6V3+0.6D3	14.28	-21.38	-62.94	0.61	0.11	-0.90
G1+G2+Q+0.6V4+0.6D4	14.28	544.64	-63.73	0.61	-0.35	-0.79
G1+G2+Q+D1	14.30	260.58	-47.82	0.58	-0.12	-0.82

G1+G2+Q+D2	14.26	262.69	-78.86	0.64	-0.12	-0.87
G1+G2+Q+D3	14.28	98.96	-63.32	0.61	0.02	-0.87
G1+G2+Q+D4	14.28	424.30	-63.35	0.61	-0.26	-0.81

Fundação B124						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	1.76	-534.88	71.56	-0.21	-0.01	-0.79
Adicional (G2)	2.88	-1074.55	123.62	-0.37	-0.02	-0.98
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	0.01	11.85	-0.04	0.00	0.00	-0.05
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	-0.02	-22.56	0.50	0.01	0.00	-0.12
Vento X- (V2)	0.02	22.56	-0.50	-0.01	0.00	0.12
Vento Y+ (V3)	0.00	1.39	0.00	0.00	0.01	0.05
Vento Y- (V4)	0.00	-1.39	0.00	0.00	-0.01	-0.05
Desaprumo X+ (D1)	-0.01	-17.44	1.18	0.01	0.00	-0.09
Desaprumo X- (D2)	0.01	17.44	-1.18	-0.01	0.00	0.09
Desaprumo Y+ (D3)	0.00	0.18	0.00	0.00	0.02	0.03
Desaprumo Y- (D4)	0.00	-0.18	0.00	0.00	-0.02	-0.03
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	4.63	-1632.10	196.63	-0.55	-0.03	-1.97
G1+G2+0.7Q+0.6V2+D2	4.68	-1570.17	193.66	-0.59	-0.03	-1.65
G1+G2+0.7Q+0.6V3+D3	4.66	-1600.12	195.14	-0.57	0.00	-1.75
G1+G2+0.7Q+0.6V4+D4	4.65	-1602.15	195.15	-0.57	-0.05	-1.88
G1+G2+0.7Q+V1+0.6D1	4.63	-1634.15	196.36	-0.56	-0.03	-1.98
G1+G2+0.7Q+V2+0.6D2	4.68	-1568.12	193.94	-0.59	-0.03	-1.64
G1+G2+0.7Q+V3+0.6D3	4.66	-1599.64	195.14	-0.57	-0.01	-1.74
G1+G2+0.7Q+V4+0.6D4	4.65	-1602.63	195.16	-0.57	-0.05	-1.88
G1+G2+D1	4.64	-1626.87	196.37	-0.56	-0.03	-1.87
G1+G2+D2	4.66	-1592.00	194.00	-0.59	-0.03	-1.69
G1+G2+D3	4.65	-1609.25	195.18	-0.57	-0.01	-1.75
G1+G2+D4	4.65	-1609.61	195.18	-0.57	-0.04	-1.81
G1+G2+Q+0.6V1+0.6D1	4.64	-1621.57	196.15	-0.56	-0.03	-1.95
G1+G2+Q+0.6V2+0.6D2	4.67	-1573.58	194.13	-0.59	-0.03	-1.70
G1+G2+Q+0.6V3+0.6D3	4.66	-1596.64	195.13	-0.57	-0.01	-1.77
G1+G2+Q+0.6V4+0.6D4	4.65	-1598.52	195.14	-0.57	-0.04	-1.88
G1+G2+Q+D1	4.64	-1615.01	196.32	-0.56	-0.03	-1.92
G1+G2+Q+D2	4.67	-1580.14	193.95	-0.59	-0.03	-1.73
G1+G2+Q+D3	4.66	-1597.40	195.13	-0.57	-0.01	-1.79
G1+G2+Q+D4	4.65	-1597.76	195.14	-0.57	-0.04	-1.86

Fundação B125						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	1.27	-731.75	-139.94	0.21	-0.01	-0.29
Adicional (G2)	1.94	-1079.51	-260.17	0.37	-0.02	-0.38
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	0.00	2.45	-0.12	0.00	0.00	-0.05
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.00	-1.17	0.62	0.01	0.00	0.05
Vento X- (V2)	0.00	1.17	-0.62	-0.01	0.00	-0.05
Vento Y+ (V3)	0.00	-0.76	-0.02	0.00	0.01	-0.05
Vento Y- (V4)	0.00	0.76	0.02	0.00	-0.01	0.05

Desaprumo X+ (D1)	0.00	-0.90	1.03	0.01	0.00	0.03
Desaprumo X- (D2)	0.00	0.90	-1.03	-0.01	0.00	-0.03
Desaprumo Y+ (D3)	0.00	-0.95	-0.01	0.00	0.01	-0.03
Desaprumo Y- (D4)	0.00	0.95	0.01	0.00	-0.01	0.03
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	3.22	-1811.15	-398.79	0.59	-0.02	-0.65
G1+G2+0.7Q+0.6V2+D2	3.22	-1807.95	-401.59	0.56	-0.02	-0.77
G1+G2+0.7Q+0.6V3+D3	3.22	-1810.95	-400.22	0.57	-0.01	-0.77
G1+G2+0.7Q+0.6V4+D4	3.22	-1808.14	-400.16	0.57	-0.04	-0.66
G1+G2+0.7Q+V1+0.6D1	3.22	-1811.25	-398.96	0.59	-0.02	-0.65
G1+G2+0.7Q+V2+0.6D2	3.22	-1807.84	-401.43	0.56	-0.02	-0.78
G1+G2+0.7Q+V3+0.6D3	3.22	-1810.87	-400.22	0.57	-0.01	-0.78
G1+G2+0.7Q+V4+0.6D4	3.22	-1808.22	-400.16	0.57	-0.04	-0.65
G1+G2+D1	3.22	-1812.16	-399.07	0.59	-0.02	-0.64
G1+G2+D2	3.22	-1810.36	-401.14	0.56	-0.02	-0.71
G1+G2+D3	3.22	-1812.21	-400.12	0.57	-0.01	-0.70
G1+G2+D4	3.22	-1810.31	-400.09	0.57	-0.04	-0.65
G1+G2+Q+0.6V1+0.6D1	3.22	-1810.05	-399.24	0.59	-0.02	-0.68
G1+G2+Q+0.6V2+0.6D2	3.22	-1807.57	-401.22	0.56	-0.02	-0.78
G1+G2+Q+0.6V3+0.6D3	3.22	-1809.84	-400.25	0.57	-0.01	-0.77
G1+G2+Q+0.6V4+0.6D4	3.22	-1807.79	-400.21	0.57	-0.04	-0.68
G1+G2+Q+D1	3.22	-1809.71	-399.20	0.59	-0.02	-0.69
G1+G2+Q+D2	3.22	-1807.91	-401.26	0.56	-0.02	-0.76
G1+G2+Q+D3	3.22	-1809.76	-400.24	0.57	-0.01	-0.75
G1+G2+Q+D4	3.22	-1807.86	-400.22	0.57	-0.04	-0.70

Fundação B126						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	14.36	-382.24	303.46	-0.36	-0.03	-5.15
Adicional (G2)	5.77	-422.86	445.21	-0.34	-0.25	-7.78
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	3.16	110.23	-145.29	-0.11	-0.07	3.36
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	-0.12	-9.43	111.07	0.08	0.01	-0.40
Vento X- (V2)	0.12	9.43	-111.07	-0.08	-0.01	0.40
Vento Y+ (V3)	-0.18	-350.25	-18.51	-0.01	0.21	0.14
Vento Y- (V4)	0.18	350.26	18.51	0.01	-0.21	-0.14
Desaprumo X+ (D1)	-0.07	0.98	84.21	0.07	0.00	-0.31
Desaprumo X- (D2)	0.07	-0.98	-84.21	-0.07	0.00	0.31
Desaprumo Y+ (D3)	-0.08	-177.57	-6.79	0.00	0.11	0.05
Desaprumo Y- (D4)	0.08	177.57	6.79	0.00	-0.11	-0.05
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	22.20	-732.61	797.82	-0.66	-0.33	-11.13
G1+G2+0.7Q+0.6V2+D2	22.49	-723.26	496.11	-0.89	-0.34	-10.03
G1+G2+0.7Q+0.6V3+D3	22.15	-1115.66	629.07	-0.79	-0.10	-10.44
G1+G2+0.7Q+0.6V4+D4	22.53	-340.21	664.86	-0.76	-0.57	-10.72
G1+G2+0.7Q+V1+0.6D1	22.18	-736.78	808.56	-0.65	-0.33	-11.16
G1+G2+0.7Q+V2+0.6D2	22.51	-719.10	485.37	-0.90	-0.34	-9.99
G1+G2+0.7Q+V3+0.6D3	22.11	-1184.74	624.38	-0.79	-0.06	-10.40
G1+G2+0.7Q+V4+0.6D4	22.57	-271.14	669.55	-0.76	-0.60	-10.75

G1+G2+D1	20.06	-804.11	832.88	-0.63	-0.28	-13.24
G1+G2+D2	20.20	-806.08	664.45	-0.77	-0.28	-12.62
G1+G2+D3	20.05	-982.67	741.87	-0.70	-0.17	-12.88
G1+G2+D4	20.21	-627.52	755.46	-0.69	-0.39	-12.98
G1+G2+Q+0.6V1+0.6D1	23.18	-699.94	720.54	-0.72	-0.35	-10.00
G1+G2+Q+0.6V2+0.6D2	23.41	-689.80	486.21	-0.89	-0.36	-9.14
G1+G2+Q+0.6V3+0.6D3	23.14	-1011.57	588.19	-0.82	-0.17	-9.45
G1+G2+Q+0.6V4+0.6D4	23.45	-378.17	618.56	-0.80	-0.54	-9.69
G1+G2+Q+D1	23.22	-693.89	687.59	-0.74	-0.35	-9.88
G1+G2+Q+D2	23.37	-695.85	519.16	-0.87	-0.35	-9.26
G1+G2+Q+D3	23.21	-872.44	596.58	-0.81	-0.24	-9.52
G1+G2+Q+D4	23.37	-517.30	610.17	-0.80	-0.46	-9.62

Fundação B127						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	26.50	-372.65	24.55	0.15	-0.10	3.68
Adicional (G2)	8.74	-485.51	1.28	0.18	-0.26	6.63
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	7.38	236.05	45.82	-0.02	-0.18	-3.63
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.02	-7.55	91.23	0.11	0.00	0.29
Vento X- (V2)	-0.02	7.55	-91.23	-0.11	0.00	-0.29
Vento Y+ (V3)	-0.22	-368.74	-15.91	-0.02	0.22	0.04
Vento Y- (V4)	0.22	368.74	15.91	0.02	-0.22	-0.04
Desaprumo X+ (D1)	0.02	-0.06	69.43	0.09	0.00	0.21
Desaprumo X- (D2)	-0.02	0.06	-69.43	-0.09	0.00	-0.21
Desaprumo Y+ (D3)	-0.10	-187.43	-5.75	-0.01	0.12	0.01
Desaprumo Y- (D4)	0.10	187.43	5.75	0.01	-0.12	-0.01
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	40.44	-697.52	182.07	0.47	-0.48	8.16
G1+G2+0.7Q+0.6V2+D2	40.38	-688.33	-66.26	0.16	-0.49	7.39
G1+G2+0.7Q+0.6V3+D3	40.17	-1101.61	42.61	0.30	-0.23	7.81
G1+G2+0.7Q+0.6V4+D4	40.64	-284.25	73.21	0.33	-0.74	7.73
G1+G2+0.7Q+V1+0.6D1	40.44	-700.52	190.79	0.48	-0.48	8.19
G1+G2+0.7Q+V2+0.6D2	40.38	-685.33	-74.98	0.15	-0.49	7.36
G1+G2+0.7Q+V3+0.6D3	40.13	-1174.13	38.55	0.30	-0.19	7.83
G1+G2+0.7Q+V4+0.6D4	40.69	-211.72	77.27	0.34	-0.78	7.72
G1+G2+D1	35.26	-858.22	95.26	0.42	-0.36	10.52
G1+G2+D2	35.23	-858.10	-43.60	0.24	-0.36	10.10
G1+G2+D3	35.14	-1045.59	20.08	0.32	-0.24	10.33
G1+G2+D4	35.35	-670.72	31.58	0.34	-0.48	10.30
G1+G2+Q+0.6V1+0.6D1	42.65	-626.68	168.05	0.43	-0.54	6.98
G1+G2+Q+0.6V2+0.6D2	42.60	-617.54	-24.74	0.19	-0.54	6.39
G1+G2+Q+0.6V3+0.6D3	42.43	-955.82	58.66	0.30	-0.33	6.72
G1+G2+Q+0.6V4+0.6D4	42.82	-288.41	84.65	0.33	-0.75	6.65
G1+G2+Q+D1	42.64	-622.18	141.08	0.40	-0.54	6.89
G1+G2+Q+D2	42.60	-622.05	2.23	0.22	-0.54	6.48
G1+G2+Q+D3	42.52	-809.55	65.90	0.31	-0.42	6.70
G1+G2+Q+D4	42.73	-434.68	77.41	0.32	-0.66	6.67

Fundação B128						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**

Peso próprio (G1)	24.46	-362.65	-18.04	0.01	-0.10	0.68
Adicional (G2)	8.16	-494.43	-4.24	0.02	-0.25	-0.21
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	6.62	218.18	-19.75	0.00	-0.17	1.10
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	-0.01	-3.57	91.00	0.10	0.00	0.05
Vento X- (V2)	0.01	3.57	-91.00	-0.10	0.00	-0.05
Vento Y+ (V3)	-0.21	-337.97	-15.80	-0.02	0.21	0.07
Vento Y- (V4)	0.21	337.97	15.80	0.02	-0.21	-0.07
Desaprumo X+ (D1)	0.00	-0.43	69.29	0.09	0.00	0.02
Desaprumo X- (D2)	0.00	0.43	-69.29	-0.09	0.00	-0.02
Desaprumo Y+ (D3)	-0.10	-176.01	-5.74	-0.01	0.12	0.03
Desaprumo Y- (D4)	0.10	176.01	5.74	0.01	-0.12	-0.03
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	37.25	-706.93	87.79	0.18	-0.47	1.29
G1+G2+0.7Q+0.6V2+D2	37.26	-701.78	-159.99	-0.11	-0.47	1.19
G1+G2+0.7Q+0.6V3+D3	37.03	-1083.14	-51.32	0.02	-0.23	1.31
G1+G2+0.7Q+0.6V4+D4	37.48	-325.56	-20.88	0.05	-0.71	1.17
G1+G2+0.7Q+V1+0.6D1	37.25	-708.18	96.47	0.19	-0.47	1.30
G1+G2+0.7Q+V2+0.6D2	37.26	-700.53	-168.67	-0.12	-0.47	1.18
G1+G2+0.7Q+V3+0.6D3	36.99	-1147.93	-55.34	0.01	-0.19	1.33
G1+G2+0.7Q+V4+0.6D4	37.52	-260.78	-16.86	0.05	-0.75	1.15
G1+G2+D1	32.62	-857.51	47.01	0.12	-0.35	0.49
G1+G2+D2	32.62	-856.64	-91.57	-0.05	-0.35	0.45
G1+G2+D3	32.52	-1033.09	-28.02	0.03	-0.24	0.49
G1+G2+D4	32.72	-681.07	-16.54	0.04	-0.47	0.44
G1+G2+Q+0.6V1+0.6D1	39.24	-641.30	54.15	0.15	-0.52	1.61
G1+G2+Q+0.6V2+0.6D2	39.25	-636.50	-138.20	-0.08	-0.52	1.53
G1+G2+Q+0.6V3+0.6D3	39.06	-947.29	-54.95	0.02	-0.33	1.63
G1+G2+Q+0.6V4+0.6D4	39.43	-330.51	-29.10	0.05	-0.71	1.51
G1+G2+Q+D1	39.24	-639.34	27.26	0.12	-0.52	1.59
G1+G2+Q+D2	39.25	-638.47	-111.31	-0.05	-0.52	1.55
G1+G2+Q+D3	39.14	-814.91	-47.77	0.03	-0.40	1.60
G1+G2+Q+D4	39.34	-462.89	-36.29	0.04	-0.64	1.54

Fundação B129						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	29.58	1568.03	2.68	-0.03	-1.49	-1.81
Adicional (G2)	9.06	600.35	2.15	-0.04	-0.64	-1.64
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	9.87	1438.09	10.32	0.00	-1.27	-0.84
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.00	0.81	91.68	0.10	0.00	0.07
Vento X- (V2)	0.00	-0.81	-91.68	-0.10	0.00	-0.07
Vento Y+ (V3)	-0.08	-339.86	-15.92	-0.02	0.17	0.08
Vento Y- (V4)	0.08	339.86	15.92	0.02	-0.17	-0.08
Desaprumo X+ (D1)	0.00	-0.72	69.40	0.08	0.00	0.04
Desaprumo X- (D2)	0.00	0.72	-69.40	-0.08	0.00	-0.04
Desaprumo Y+ (D3)	-0.04	-181.28	-5.78	-0.01	0.10	0.03
Desaprumo Y- (D4)	0.04	181.28	5.78	0.01	-0.10	-0.03
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00

Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	45.55	3174.81	136.47	0.07	-3.02	-3.95
G1+G2+0.7Q+0.6V2+D2	45.54	3175.28	-112.35	-0.21	-3.02	-4.12
G1+G2+0.7Q+0.6V3+D3	45.46	2789.85	-3.28	-0.08	-2.82	-3.96
G1+G2+0.7Q+0.6V4+D4	45.64	3560.24	27.39	-0.05	-3.21	-4.11
G1+G2+0.7Q+V1+0.6D1	45.55	3175.42	145.38	0.08	-3.02	-3.94
G1+G2+0.7Q+V2+0.6D2	45.54	3174.67	-121.27	-0.22	-3.02	-4.13
G1+G2+0.7Q+V3+0.6D3	45.44	2726.42	-7.33	-0.09	-2.79	-3.94
G1+G2+0.7Q+V4+0.6D4	45.65	3623.67	31.44	-0.05	-3.24	-4.13
G1+G2+D1	38.64	2167.66	74.23	0.01	-2.13	-3.41
G1+G2+D2	38.64	2169.11	-64.57	-0.15	-2.13	-3.49
G1+G2+D3	38.60	1987.10	-0.95	-0.07	-2.03	-3.42
G1+G2+D4	38.68	2349.66	10.61	-0.06	-2.22	-3.48
G1+G2+Q+0.6V1+0.6D1	48.51	3606.52	111.80	0.04	-3.40	-4.22
G1+G2+Q+0.6V2+0.6D2	48.51	3606.42	-81.50	-0.18	-3.40	-4.36
G1+G2+Q+0.6V3+0.6D3	48.44	3293.79	2.13	-0.08	-3.24	-4.23
G1+G2+Q+0.6V4+0.6D4	48.58	3919.15	28.17	-0.05	-3.56	-4.35
G1+G2+Q+D1	48.51	3605.75	84.55	0.01	-3.40	-4.25
G1+G2+Q+D2	48.51	3607.19	-54.25	-0.15	-3.40	-4.33
G1+G2+Q+D3	48.47	3425.19	9.37	-0.07	-3.30	-4.26
G1+G2+Q+D4	48.55	3787.75	20.93	-0.06	-3.49	-4.32

Fundação B130						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	31.81	1707.53	-9.54	-0.29	-1.62	-13.08
Adicional (G2)	9.94	694.81	28.36	-0.37	-0.73	-19.17
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	10.95	1570.32	-50.10	0.05	-1.39	5.75
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.00	5.52	91.19	0.11	0.00	0.72
Vento X- (V2)	0.00	-5.52	-91.19	-0.11	0.00	-0.72
Vento Y+ (V3)	-0.09	-310.85	-15.94	-0.02	0.15	-0.04
Vento Y- (V4)	0.09	310.85	15.94	0.02	-0.15	0.04
Desaprumo X+ (D1)	0.00	-1.01	69.07	0.09	0.00	0.53
Desaprumo X- (D2)	0.00	1.01	-69.07	-0.09	0.00	-0.53
Desaprumo Y+ (D3)	-0.04	-170.66	-5.81	-0.01	0.09	-0.02
Desaprumo Y- (D4)	0.04	170.66	5.81	0.01	-0.09	0.02
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	49.41	3503.88	107.53	-0.48	-3.33	-27.27
G1+G2+0.7Q+0.6V2+D2	49.42	3499.27	-140.03	-0.79	-3.32	-29.18
G1+G2+0.7Q+0.6V3+D3	49.32	3144.40	-31.62	-0.65	-3.14	-28.27
G1+G2+0.7Q+0.6V4+D4	49.52	3858.75	-0.88	-0.62	-3.51	-28.19
G1+G2+0.7Q+V1+0.6D1	49.41	3506.49	116.38	-0.47	-3.33	-27.19
G1+G2+0.7Q+V2+0.6D2	49.42	3496.66	-148.88	-0.80	-3.32	-29.26
G1+G2+0.7Q+V3+0.6D3	49.30	3088.33	-35.67	-0.65	-3.12	-28.28
G1+G2+0.7Q+V4+0.6D4	49.54	3914.82	3.17	-0.61	-3.53	-28.18
G1+G2+D1	41.75	2401.34	87.89	-0.58	-2.35	-31.72
G1+G2+D2	41.76	2403.35	-50.25	-0.75	-2.35	-32.78
G1+G2+D3	41.71	2231.68	13.01	-0.67	-2.26	-32.27
G1+G2+D4	41.80	2573.01	24.62	-0.66	-2.44	-32.24
G1+G2+Q+0.6V1+0.6D1	52.70	3975.38	64.88	-0.50	-3.74	-25.76
G1+G2+Q+0.6V2+0.6D2	52.71	3969.96	-127.43	-0.74	-3.74	-27.25
G1+G2+Q+0.6V3+0.6D3	52.62	3683.76	-44.32	-0.63	-3.59	-26.54

G1+G2+Q+0.6V4+0.6D4	52.78	4261.58	-18.23	-0.60	-3.89	-26.47
G1+G2+Q+D1	52.70	3971.66	37.79	-0.53	-3.74	-25.98
G1+G2+Q+D2	52.71	3973.68	-100.34	-0.71	-3.74	-27.03
G1+G2+Q+D3	52.66	3802.01	-37.08	-0.63	-3.65	-26.52
G1+G2+Q+D4	52.75	4143.33	-25.47	-0.61	-3.83	-26.49

Fundação B133						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	30.90	2165.20	-51.71	0.46	-1.88	13.80
Adicional (G2)	10.09	776.74	-172.91	0.57	-0.82	16.11
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	10.70	1664.89	49.54	-0.07	-1.41	-0.87
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.02	-3.29	144.50	0.17	0.00	0.63
Vento X- (V2)	-0.02	3.29	-144.50	-0.17	0.00	-0.63
Vento Y+ (V3)	-0.14	-450.76	5.10	0.01	0.22	-0.67
Vento Y- (V4)	0.14	450.76	-5.10	-0.01	-0.22	0.67
Desaprumo X+ (D1)	0.01	-2.05	112.51	0.14	0.00	0.48
Desaprumo X- (D2)	-0.01	2.05	-112.51	-0.14	0.00	-0.48
Desaprumo Y+ (D3)	-0.07	-253.12	-0.27	0.00	0.13	-0.38
Desaprumo Y- (D4)	0.07	253.12	0.27	0.00	-0.13	0.38
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	48.49	4103.34	9.26	1.22	-3.69	30.16
G1+G2+0.7Q+0.6V2+D2	48.45	4111.39	-389.14	0.73	-3.69	28.45
G1+G2+0.7Q+0.6V3+D3	48.32	3583.79	-187.15	0.98	-3.43	28.52
G1+G2+0.7Q+0.6V4+D4	48.62	4630.93	-192.74	0.96	-3.95	30.09
G1+G2+0.7Q+V1+0.6D1	48.50	4102.84	22.06	1.23	-3.69	30.22
G1+G2+0.7Q+V2+0.6D2	48.45	4111.88	-401.94	0.71	-3.69	28.40
G1+G2+0.7Q+V3+0.6D3	48.29	3504.74	-185.00	0.98	-3.39	28.41
G1+G2+0.7Q+V4+0.6D4	48.65	4709.99	-194.88	0.96	-3.98	30.21
G1+G2+D1	41.00	2939.89	-112.11	1.16	-2.70	30.40
G1+G2+D2	40.97	2943.99	-337.12	0.88	-2.70	29.44
G1+G2+D3	40.92	2688.82	-224.88	1.03	-2.57	29.54
G1+G2+D4	41.05	3195.06	-224.35	1.02	-2.83	30.30
G1+G2+Q+0.6V1+0.6D1	51.70	4603.63	-20.88	1.14	-4.11	29.71
G1+G2+Q+0.6V2+0.6D2	51.66	4610.03	-329.28	0.76	-4.11	28.39
G1+G2+Q+0.6V3+0.6D3	51.56	4184.51	-172.18	0.96	-3.90	28.42
G1+G2+Q+0.6V4+0.6D4	51.80	5029.15	-177.98	0.94	-4.32	29.68
G1+G2+Q+D1	51.69	4604.78	-62.57	1.09	-4.11	29.53
G1+G2+Q+D2	51.67	4608.88	-287.59	0.81	-4.11	28.57
G1+G2+Q+D3	51.61	4353.71	-175.35	0.95	-3.98	28.67
G1+G2+Q+D4	51.75	4859.95	-174.81	0.95	-4.24	29.43

Fundação B134						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	30.66	2175.29	137.56	-0.27	-1.85	-6.70
Adicional (G2)	11.25	1142.90	172.74	-0.45	-1.08	-13.13
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	10.74	1685.53	-39.10	0.04	-1.44	4.15
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	-0.03	-4.67	136.99	0.17	0.00	0.72
Vento X- (V2)	0.03	4.67	-136.99	-0.17	0.00	-0.72

Vento Y+ (V3)	-0.12	-444.32	5.15	0.00	0.21	-0.30
Vento Y- (V4)	0.12	444.32	-5.15	0.00	-0.21	0.30
Desaprumo X+ (D1)	-0.01	-6.79	106.44	0.14	0.00	0.56
Desaprumo X- (D2)	0.01	6.79	-106.44	-0.14	0.00	-0.56
Desaprumo Y+ (D3)	-0.06	-245.44	-0.09	0.00	0.12	-0.17
Desaprumo Y- (D4)	0.06	245.44	0.09	0.00	-0.12	0.17
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	49.39	4488.46	471.56	-0.44	-3.93	-15.93
G1+G2+0.7Q+0.6V2+D2	49.46	4507.65	94.29	-0.93	-3.94	-17.91
G1+G2+0.7Q+0.6V3+D3	49.29	3986.03	285.92	-0.69	-3.69	-17.27
G1+G2+0.7Q+0.6V4+D4	49.56	5010.09	279.92	-0.69	-4.19	-16.57
G1+G2+0.7Q+V1+0.6D1	49.39	4489.31	483.78	-0.43	-3.93	-15.87
G1+G2+0.7Q+V2+0.6D2	49.46	4506.80	82.07	-0.94	-3.94	-17.98
G1+G2+0.7Q+V3+0.6D3	49.27	3906.47	288.02	-0.68	-3.65	-17.33
G1+G2+0.7Q+V4+0.6D4	49.58	5089.64	277.83	-0.69	-4.22	-16.52
G1+G2+D1	41.89	3311.39	416.74	-0.57	-2.93	-19.27
G1+G2+D2	41.92	3324.98	203.85	-0.85	-2.94	-20.39
G1+G2+D3	41.85	3072.75	310.20	-0.71	-2.81	-20.00
G1+G2+D4	41.97	3563.62	310.38	-0.71	-3.06	-19.66
G1+G2+Q+0.6V1+0.6D1	52.62	4996.84	417.25	-0.49	-4.36	-14.91
G1+G2+Q+0.6V2+0.6D2	52.67	5010.59	125.13	-0.86	-4.37	-16.44
G1+G2+Q+0.6V3+0.6D3	52.54	4589.86	274.23	-0.67	-4.17	-15.96
G1+G2+Q+0.6V4+0.6D4	52.76	5417.57	268.16	-0.68	-4.57	-15.39
G1+G2+Q+D1	52.63	4996.92	377.64	-0.54	-4.36	-15.12
G1+G2+Q+D2	52.66	5010.51	164.75	-0.81	-4.37	-16.24
G1+G2+Q+D3	52.59	4758.28	271.10	-0.68	-4.24	-15.85
G1+G2+Q+D4	52.71	5249.15	271.28	-0.67	-4.49	-15.51

Fundação B135						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	14.33	-106.22	-398.89	0.53	-0.16	9.20
Adicional (G2)	5.93	-370.54	-720.41	0.54	-0.22	14.78
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	3.04	146.63	152.23	0.12	-0.10	-2.66
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.16	-4.64	175.06	0.13	0.00	-0.63
Vento X- (V2)	-0.16	4.64	-175.06	-0.13	0.00	0.63
Vento Y+ (V3)	-0.24	-353.26	4.63	0.00	0.21	-0.13
Vento Y- (V4)	0.24	353.26	-4.63	0.00	-0.21	0.13
Desaprumo X+ (D1)	0.10	-9.94	136.70	0.11	0.01	-0.51
Desaprumo X- (D2)	-0.10	9.94	-136.70	-0.11	-0.01	0.51
Desaprumo Y+ (D3)	-0.12	-194.15	-1.00	0.00	0.12	-0.05
Desaprumo Y- (D4)	0.12	194.15	1.00	0.00	-0.12	0.05
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	22.59	-386.85	-771.01	1.33	-0.44	21.23
G1+G2+0.7Q+0.6V2+D2	22.18	-361.40	-1254.48	0.97	-0.45	23.00
G1+G2+0.7Q+0.6V3+D3	22.12	-780.23	-1010.97	1.15	-0.20	21.99
G1+G2+0.7Q+0.6V4+D4	22.65	31.98	-1014.52	1.15	-0.69	22.24
G1+G2+0.7Q+V1+0.6D1	22.61	-384.73	-755.67	1.34	-0.44	21.18
G1+G2+0.7Q+V2+0.6D2	22.16	-363.52	-1269.82	0.96	-0.45	23.05

G1+G2+0.7Q+V3+0.6D3	22.07	-843.87	-1008.72	1.15	-0.16	21.96
G1+G2+0.7Q+V4+0.6D4	22.70	95.63	-1016.77	1.15	-0.73	22.27
G1+G2+D1	20.36	-486.71	-982.60	1.18	-0.37	23.47
G1+G2+D2	20.16	-466.82	-1256.00	0.97	-0.38	24.48
G1+G2+D3	20.14	-670.92	-1120.31	1.07	-0.25	23.93
G1+G2+D4	20.38	-282.62	-1118.30	1.07	-0.50	24.02
G1+G2+Q+0.6V1+0.6D1	23.46	-338.88	-780.02	1.33	-0.47	20.64
G1+G2+Q+0.6V2+0.6D2	23.14	-321.38	-1154.13	1.05	-0.48	22.00
G1+G2+Q+0.6V3+0.6D3	23.08	-658.58	-964.90	1.19	-0.27	21.21
G1+G2+Q+0.6V4+0.6D4	23.51	-1.69	-969.25	1.19	-0.67	21.42
G1+G2+Q+D1	23.40	-340.08	-830.37	1.29	-0.47	20.81
G1+G2+Q+D2	23.19	-320.19	-1103.78	1.08	-0.48	21.82
G1+G2+Q+D3	23.18	-524.28	-968.08	1.19	-0.35	21.27
G1+G2+Q+D4	23.41	-135.98	-966.07	1.19	-0.60	21.36

Fundação B9-10						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	25.32	-2078.21	455.73	0.00	0.90	-71.14
Adicional (G2)	7.19	-344.11	341.12	0.32	0.13	-22.25
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	6.50	-837.90	151.94	-0.02	0.31	-45.77
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	-0.08	-54.78	20.49	0.03	0.03	-0.05
Vento X- (V2)	0.08	54.78	-20.49	-0.03	-0.03	0.05
Vento Y+ (V3)	0.38	-365.81	-18.62	0.00	-0.09	-34.07
Vento Y- (V4)	-0.38	365.81	18.62	0.00	0.09	34.07
Desaprumo X+ (D1)	-0.06	-51.07	-39.84	-0.10	0.02	-1.12
Desaprumo X- (D2)	0.06	51.07	39.84	0.10	-0.02	1.12
Desaprumo Y+ (D3)	0.19	-188.79	-6.77	0.00	-0.16	-18.44
Desaprumo Y- (D4)	-0.19	188.79	6.77	0.00	0.16	18.44
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	36.96	-3092.78	875.66	0.23	1.28	-126.58
G1+G2+0.7Q+0.6V2+D2	37.17	-2924.90	930.76	0.39	1.22	-124.28
G1+G2+0.7Q+0.6V3+D3	37.48	-3417.12	885.27	0.31	1.04	-164.32
G1+G2+0.7Q+0.6V4+D4	36.65	-2600.56	921.15	0.31	1.47	-86.55
G1+G2+0.7Q+V1+0.6D1	36.95	-3094.27	899.79	0.28	1.29	-126.15
G1+G2+0.7Q+V2+0.6D2	37.18	-2923.42	906.62	0.34	1.22	-124.71
G1+G2+0.7Q+V3+0.6D3	37.56	-3487.93	880.53	0.31	1.07	-170.57
G1+G2+0.7Q+V4+0.6D4	36.57	-2529.75	925.89	0.31	1.44	-80.29
G1+G2+D1	32.45	-2473.39	757.01	0.22	1.05	-94.51
G1+G2+D2	32.57	-2371.24	836.70	0.42	1.02	-92.27
G1+G2+D3	32.70	-2611.10	790.09	0.32	0.88	-111.83
G1+G2+D4	32.32	-2233.52	803.62	0.32	1.20	-74.95
G1+G2+Q+0.6V1+0.6D1	38.93	-3323.72	937.18	0.26	1.37	-139.86
G1+G2+Q+0.6V2+0.6D2	39.10	-3196.70	960.40	0.35	1.32	-138.46
G1+G2+Q+0.6V3+0.6D3	39.36	-3592.97	933.56	0.30	1.20	-170.67
G1+G2+Q+0.6V4+0.6D4	38.67	-2927.45	964.02	0.30	1.49	-107.66
G1+G2+Q+D1	38.96	-3311.29	908.95	0.20	1.36	-140.28
G1+G2+Q+D2	39.07	-3209.14	988.63	0.41	1.33	-138.05
G1+G2+Q+D3	39.20	-3449.00	942.02	0.31	1.18	-157.60
G1+G2+Q+D4	38.83	-3071.42	955.56	0.30	1.51	-120.72

Fundação B32-33

Combinação	N (tf)	Mx (kgf.m)	My (kgf.m)	Vx (tf)	Vy (tf)	Mt (kgf/m)
Peso próprio (G1)	33.26	-126.94	1065.00	-0.04	-0.08	-6.94
Adicional (G2)	9.56	107.87	-250.31	0.02	-0.05	2.59
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	9.53	72.38	388.82	0.09	-0.04	7.66
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	-0.11	-11.21	1036.92	0.85	0.00	-6.61
Vento X- (V2)	0.11	11.21	-1036.92	-0.85	0.00	6.61
Vento Y+ (V3)	0.47	-268.95	32.60	0.00	0.15	-3.27
Vento Y- (V4)	-0.47	268.95	-32.60	0.00	-0.15	3.27
Desaprumo X+ (D1)	-0.08	-14.87	736.81	0.52	0.01	-5.71
Desaprumo X- (D2)	0.08	14.87	-736.80	-0.52	-0.01	5.71
Desaprumo Y+ (D3)	0.25	-75.04	25.14	0.01	-0.08	2.78
Desaprumo Y- (D4)	-0.25	75.04	-25.14	-0.01	0.08	-2.78
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	49.34	10.00	2445.83	1.08	-0.15	-8.66
G1+G2+0.7Q+0.6V2+D2	49.63	53.19	-272.08	-0.99	-0.17	10.69
G1+G2+0.7Q+0.6V3+D3	50.02	-204.82	1131.57	0.06	-0.15	1.84
G1+G2+0.7Q+0.6V4+D4	48.96	268.01	1042.17	0.04	-0.17	0.19
G1+G2+0.7Q+V1+0.6D1	49.33	11.47	2565.87	1.22	-0.15	-9.02
G1+G2+0.7Q+V2+0.6D2	49.64	51.72	-392.13	-1.12	-0.17	11.05
G1+G2+0.7Q+V3+0.6D3	50.11	-282.38	1134.55	0.05	-0.06	-0.58
G1+G2+0.7Q+V4+0.6D4	48.87	345.57	1039.19	0.04	-0.26	2.61
G1+G2+D1	42.73	-33.94	1551.50	0.51	-0.12	-10.06
G1+G2+D2	42.90	-4.20	77.89	-0.54	-0.14	1.37
G1+G2+D3	43.06	-94.11	839.83	-0.01	-0.21	-1.57
G1+G2+D4	42.57	55.98	789.56	-0.03	-0.05	-7.13
G1+G2+Q+0.6V1+0.6D1	52.23	37.66	2267.75	0.90	-0.17	-4.08
G1+G2+Q+0.6V2+0.6D2	52.46	68.95	139.28	-0.75	-0.18	10.71
G1+G2+Q+0.6V3+0.6D3	52.78	-153.09	1238.16	0.08	-0.13	3.02
G1+G2+Q+0.6V4+0.6D4	51.92	259.70	1168.88	0.07	-0.22	3.61
G1+G2+Q+D1	52.27	38.44	1940.32	0.60	-0.17	-2.40
G1+G2+Q+D2	52.43	68.18	466.71	-0.45	-0.18	9.03
G1+G2+Q+D3	52.59	-21.74	1228.65	0.09	-0.26	6.10
G1+G2+Q+D4	52.10	128.35	1178.38	0.07	-0.09	0.53

Fundação B43-44						
Combinação	N (tf)	Mx (kgf.m)	My (kgf.m)	Vx (tf)	Vy (tf)	Mt (kgf/m)
Peso próprio (G1)	37.47	-2651.49	201.24	0.05	2.88	-32.46
Adicional (G2)	10.41	-728.20	193.02	0.08	0.67	-2.37
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	10.28	-1101.77	157.10	0.00	1.15	-13.82
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	-0.03	-52.32	228.92	0.21	0.00	-31.52
Vento X- (V2)	0.03	52.33	-228.91	-0.21	0.00	31.52
Vento Y+ (V3)	-0.34	-1987.71	-8.83	0.01	1.05	8.28
Vento Y- (V4)	0.34	1987.71	8.83	-0.01	-1.05	-8.28
Desaprumo X+ (D1)	-0.04	-104.96	23.53	-0.12	0.05	-3.44
Desaprumo X- (D2)	0.04	104.96	-23.53	0.12	-0.05	3.44
Desaprumo Y+ (D3)	-0.19	-1093.07	-5.70	0.00	0.43	4.20
Desaprumo Y- (D4)	0.19	1093.07	5.70	0.00	-0.43	-4.20
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00

Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	55.03	-4287.29	665.11	0.13	4.40	-66.86
G1+G2+0.7Q+0.6V2+D2	55.14	-4014.59	343.35	0.12	4.31	-22.16
G1+G2+0.7Q+0.6V3+D3	54.69	-6436.64	493.23	0.13	5.42	-35.34
G1+G2+0.7Q+0.6V4+D4	55.48	-1865.24	515.23	0.12	3.30	-53.67
G1+G2+0.7Q+V1+0.6D1	55.03	-4266.23	747.27	0.26	4.38	-78.09
G1+G2+0.7Q+V2+0.6D2	55.13	-4035.64	261.20	-0.01	4.33	-10.92
G1+G2+0.7Q+V3+0.6D3	54.63	-6794.49	491.98	0.14	5.66	-33.71
G1+G2+0.7Q+V4+0.6D4	55.54	-1507.38	516.49	0.12	3.05	-55.30
G1+G2+D1	47.85	-3484.65	417.80	0.01	3.60	-38.27
G1+G2+D2	47.92	-3274.74	370.74	0.24	3.51	-31.39
G1+G2+D3	47.69	-4472.77	388.57	0.13	3.98	-30.63
G1+G2+D4	48.07	-2286.62	399.96	0.12	3.12	-39.03
G1+G2+Q+0.6V1+0.6D1	58.13	-4575.84	702.83	0.18	4.73	-69.63
G1+G2+Q+0.6V2+0.6D2	58.21	-4387.10	399.90	0.07	4.67	-27.68
G1+G2+Q+0.6V3+0.6D3	57.85	-6329.94	542.64	0.13	5.59	-41.17
G1+G2+Q+0.6V4+0.6D4	58.48	-2633.00	560.08	0.12	3.81	-56.14
G1+G2+Q+D1	58.13	-4586.43	574.89	0.01	4.75	-52.09
G1+G2+Q+D2	58.20	-4376.51	527.83	0.25	4.66	-45.21
G1+G2+Q+D3	57.98	-5574.54	545.66	0.13	5.13	-44.45
G1+G2+Q+D4	58.36	-3388.40	557.06	0.13	4.27	-52.85

Fundação B64-65						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	54.69	744.11	-2151.36	0.06	-0.41	-0.23
Adicional (G2)	12.63	322.25	-278.81	-0.41	-0.23	-1.82
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	11.49	313.19	622.81	0.62	-0.25	18.92
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	-0.09	-23.97	4074.93	1.27	0.08	19.40
Vento X- (V2)	0.09	23.97	-4074.93	-1.27	-0.08	-19.40
Vento Y+ (V3)	0.61	-1533.21	-64.70	0.02	0.31	86.15
Vento Y- (V4)	-0.61	1533.21	64.70	-0.02	-0.31	-86.15
Desaprumo X+ (D1)	-0.05	-17.65	2923.08	0.71	0.02	1.12
Desaprumo X- (D2)	0.05	17.65	-2923.08	-0.71	-0.02	-1.12
Desaprumo Y+ (D3)	0.31	-758.62	-38.71	0.01	-0.08	42.17
Desaprumo Y- (D4)	-0.31	758.62	38.71	-0.01	0.08	-42.17
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	75.26	1253.56	3373.84	1.54	-0.75	23.96
G1+G2+0.7Q+0.6V2+D2	75.47	1317.63	-7362.24	-1.39	-0.89	-1.56
G1+G2+0.7Q+0.6V3+D3	76.04	-392.95	-2071.73	0.10	-0.72	105.06
G1+G2+0.7Q+0.6V4+D4	74.69	2964.14	-1916.67	0.05	-0.92	-82.65
G1+G2+0.7Q+V1+0.6D1	75.25	1251.04	3834.58	1.77	-0.73	31.28
G1+G2+0.7Q+V2+0.6D2	75.48	1320.16	-7822.98	-1.62	-0.91	-8.87
G1+G2+0.7Q+V3+0.6D3	76.16	-702.78	-2082.12	0.10	-0.56	122.65
G1+G2+0.7Q+V4+0.6D4	74.57	3273.98	-1906.28	0.04	-1.07	-100.25
G1+G2+D1	67.27	1048.71	492.91	0.35	-0.62	-0.92
G1+G2+D2	67.37	1084.01	-5353.25	-1.06	-0.66	-3.16
G1+G2+D3	67.63	307.74	-2468.88	-0.35	-0.73	40.12
G1+G2+D4	67.02	1824.98	-2391.46	-0.37	-0.56	-44.21
G1+G2+Q+0.6V1+0.6D1	78.73	1354.58	2391.45	1.44	-0.83	29.19

G1+G2+Q+0.6V2+0.6D2	78.89	1404.53	-6006.16	-0.92	-0.95	4.56
G1+G2+Q+0.6V3+0.6D3	79.36	4.46	-1869.40	0.28	-0.76	93.87
G1+G2+Q+0.6V4+0.6D4	78.26	2754.65	-1745.31	0.24	-1.03	-60.11
G1+G2+Q+D1	78.76	1361.90	1115.73	0.96	-0.87	18.00
G1+G2+Q+D2	78.86	1397.20	-4730.44	-0.45	-0.92	15.76
G1+G2+Q+D3	79.12	620.93	-1846.07	0.27	-0.98	59.04
G1+G2+Q+D4	78.50	2138.18	-1768.64	0.25	-0.81	-25.29

Fundação B76-77						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	39.48	2358.34	-1199.33	0.18	-1.22	112.63
Adicional (G2)	7.70	253.05	-392.52	-0.12	-0.21	22.69
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	6.24	229.54	126.34	0.33	-0.24	32.85
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	-0.18	62.26	4059.77	1.16	-0.04	-27.50
Vento X- (V2)	0.18	-62.26	-4059.77	-1.16	0.04	27.50
Vento Y+ (V3)	1.69	-2351.29	320.52	-0.04	0.46	3.85
Vento Y- (V4)	-1.69	2351.29	-320.52	0.04	-0.46	-3.85
Desaprumo X+ (D1)	-0.09	5.59	2971.11	0.72	-0.02	-13.67
Desaprumo X- (D2)	0.09	-5.59	-2971.11	-0.72	0.02	13.67
Desaprumo Y+ (D3)	0.89	-1267.91	166.21	-0.02	0.10	-1.44
Desaprumo Y- (D4)	-0.89	1267.91	-166.21	0.02	-0.10	1.44
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	51.35	2815.01	3903.56	1.71	-1.64	128.15
G1+G2+0.7Q+0.6V2+D2	51.74	2729.12	-6910.38	-1.12	-1.55	188.48
G1+G2+0.7Q+0.6V3+D3	53.45	93.38	-1144.90	0.25	-1.22	159.18
G1+G2+0.7Q+0.6V4+D4	49.64	5450.75	-1861.93	0.34	-1.97	157.44
G1+G2+0.7Q+V1+0.6D1	51.31	2837.68	4339.02	1.89	-1.65	122.61
G1+G2+0.7Q+V2+0.6D2	51.78	2706.45	-7345.85	-1.30	-1.54	194.01
G1+G2+0.7Q+V3+0.6D3	53.77	-339.97	-1083.17	0.24	-1.07	161.30
G1+G2+0.7Q+V4+0.6D4	49.32	5884.10	-1923.65	0.35	-2.12	155.33
G1+G2+D1	47.09	2616.98	1379.26	0.78	-1.45	121.65
G1+G2+D2	47.26	2605.79	-4562.96	-0.65	-1.40	148.98
G1+G2+D3	48.07	1343.48	-1425.65	0.04	-1.33	133.87
G1+G2+D4	46.28	3879.30	-1758.06	0.08	-1.52	136.76
G1+G2+Q+0.6V1+0.6D1	53.25	2881.64	2753.02	1.52	-1.70	143.47
G1+G2+Q+0.6V2+0.6D2	53.58	2800.22	-5684.04	-0.73	-1.63	192.86
G1+G2+Q+0.6V3+0.6D3	54.97	669.41	-1173.48	0.36	-1.33	169.61
G1+G2+Q+0.6V4+0.6D4	51.87	5012.45	-1757.55	0.43	-2.01	166.72
G1+G2+Q+D1	53.33	2846.52	1505.60	1.11	-1.69	154.50
G1+G2+Q+D2	53.50	2835.34	-4436.62	-0.32	-1.65	181.83
G1+G2+Q+D3	54.31	1573.02	-1299.31	0.37	-1.57	166.72
G1+G2+Q+D4	52.52	4108.84	-1631.72	0.42	-1.77	169.61

Fundação B83-84						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	29.54	2275.13	-66.93	0.35	0.92	100.63
Adicional (G2)	6.36	335.28	53.51	0.08	0.42	23.63
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	9.25	236.90	127.69	0.16	0.63	31.22
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00

Vento X+ (V1)	0.34	24.54	202.50	0.11	-0.11	-6.09
Vento X- (V2)	-0.34	-24.54	-202.50	-0.11	0.11	6.09
Vento Y+ (V3)	-2.24	-1887.72	-24.71	-0.01	1.56	65.00
Vento Y- (V4)	2.24	1887.72	24.71	0.01	-1.56	-65.00
Desaprumo X+ (D1)	0.18	-12.09	109.01	-0.02	-0.03	0.09
Desaprumo X- (D2)	-0.18	12.09	-109.01	0.02	0.03	-0.09
Desaprumo Y+ (D3)	-1.17	-1023.38	-11.33	-0.01	0.78	35.94
Desaprumo Y- (D4)	1.17	1023.38	11.33	0.01	-0.78	-35.94
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	42.76	2778.88	306.48	0.58	1.69	142.55
G1+G2+0.7Q+0.6V2+D2	42.00	2773.62	-154.54	0.50	1.88	149.68
G1+G2+0.7Q+0.6V3+D3	39.87	620.23	49.81	0.53	3.50	221.06
G1+G2+0.7Q+0.6V4+D4	44.89	4932.26	102.12	0.56	0.07	71.18
G1+G2+0.7Q+V1+0.6D1	42.83	2793.53	343.87	0.64	1.65	140.08
G1+G2+0.7Q+V2+0.6D2	41.94	2758.96	-191.93	0.45	1.92	152.15
G1+G2+0.7Q+V3+0.6D3	39.44	274.50	44.46	0.53	3.81	232.68
G1+G2+0.7Q+V4+0.6D4	45.32	5278.00	107.47	0.56	-0.24	59.55
G1+G2+D1	36.08	2598.32	95.59	0.41	1.31	124.35
G1+G2+D2	35.73	2622.51	-122.43	0.46	1.37	124.17
G1+G2+D3	34.74	1587.03	-24.75	0.43	2.12	160.20
G1+G2+D4	37.07	3633.80	-2.09	0.44	0.57	88.33
G1+G2+Q+0.6V1+0.6D1	45.47	2854.79	301.18	0.64	1.89	151.88
G1+G2+Q+0.6V2+0.6D2	44.85	2839.85	-72.63	0.54	2.06	159.08
G1+G2+Q+0.6V3+0.6D3	43.11	1100.66	92.65	0.58	3.38	216.05
G1+G2+Q+0.6V4+0.6D4	47.20	4593.98	135.90	0.60	0.57	94.92
G1+G2+Q+D1	45.33	2835.22	223.29	0.57	1.94	155.57
G1+G2+Q+D2	44.98	2859.41	5.27	0.61	2.01	155.39
G1+G2+Q+D3	43.99	1823.94	102.95	0.58	2.75	191.42
G1+G2+Q+D4	46.32	3870.70	125.61	0.60	1.20	119.55

Fundação B103-104						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	28.18	922.64	207.06	-0.46	-2.49	-56.17
Adicional (G2)	5.93	335.47	356.67	-0.91	-0.64	8.99
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	6.77	352.54	159.15	0.07	-0.88	-16.91
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	-0.05	15.40	229.13	0.11	0.00	14.43
Vento X- (V2)	0.05	-15.40	-229.13	-0.11	0.00	-14.43
Vento Y+ (V3)	0.16	-1565.03	5.05	0.00	0.67	-4.93
Vento Y- (V4)	-0.16	1565.03	-5.05	0.00	-0.67	4.93
Desaprumo X+ (D1)	-0.03	-2.86	99.07	-0.04	0.00	1.37
Desaprumo X- (D2)	0.03	2.85	-99.07	0.04	0.00	-1.37
Desaprumo Y+ (D3)	0.09	-817.82	2.93	0.00	0.24	-2.74
Desaprumo Y- (D4)	-0.09	817.82	-2.93	0.00	-0.24	2.74
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	38.78	1511.28	911.68	-1.30	-3.75	-49.00
G1+G2+0.7Q+0.6V2+D2	38.91	1498.51	438.59	-1.35	-3.75	-69.05
G1+G2+0.7Q+0.6V3+D3	39.02	-251.94	681.10	-1.33	-3.11	-64.72
G1+G2+0.7Q+0.6V4+D4	38.66	3261.73	669.17	-1.33	-4.40	-53.33

G1+G2+0.7Q+V1+0.6D1	38.77	1518.58	963.70	-1.24	-3.75	-43.77
G1+G2+0.7Q+V2+0.6D2	38.92	1491.21	386.56	-1.42	-3.75	-74.28
G1+G2+0.7Q+V3+0.6D3	39.05	-550.83	681.95	-1.33	-2.94	-65.59
G1+G2+0.7Q+V4+0.6D4	38.63	3560.61	668.32	-1.33	-4.57	-52.46
G1+G2+D1	34.07	1255.26	662.80	-1.42	-3.13	-45.81
G1+G2+D2	34.14	1260.97	464.66	-1.33	-3.14	-48.56
G1+G2+D3	34.19	440.29	566.66	-1.37	-2.89	-49.92
G1+G2+D4	34.02	2075.94	560.80	-1.37	-3.38	-44.45
G1+G2+Q+0.6V1+0.6D1	40.82	1618.18	919.80	-1.26	-4.01	-54.62
G1+G2+Q+0.6V2+0.6D2	40.93	1603.13	525.96	-1.35	-4.02	-73.58
G1+G2+Q+0.6V3+0.6D3	41.02	180.95	727.67	-1.31	-3.47	-68.70
G1+G2+Q+0.6V4+0.6D4	40.73	3040.36	718.09	-1.31	-4.56	-59.50
G1+G2+Q+D1	40.84	1607.80	821.95	-1.35	-4.01	-62.73
G1+G2+Q+D2	40.91	1613.51	623.81	-1.26	-4.02	-65.47
G1+G2+Q+D3	40.96	792.83	725.81	-1.31	-3.77	-66.84
G1+G2+Q+D4	40.79	2428.48	719.95	-1.31	-4.26	-61.36

Fundação B113-114						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	40.82	-308.74	215.42	0.17	0.21	12.86
Adicional (G2)	11.36	-130.51	-347.62	0.25	0.08	2.57
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	13.58	-259.08	22.49	0.05	0.16	3.33
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	-0.07	1.39	771.26	0.42	0.00	-0.17
Vento X- (V2)	0.07	-1.39	-771.26	-0.42	0.00	0.17
Vento Y+ (V3)	-0.43	-261.37	-29.74	-0.01	0.13	-3.96
Vento Y- (V4)	0.43	261.37	29.74	0.01	-0.13	3.96
Desaprumo X+ (D1)	-0.06	-1.40	476.36	0.10	0.00	0.11
Desaprumo X- (D2)	0.06	1.40	-476.36	-0.10	0.00	-0.11
Desaprumo Y+ (D3)	-0.22	-38.10	-16.02	0.00	-0.15	-2.78
Desaprumo Y- (D4)	0.22	38.10	16.02	0.00	0.15	2.78
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	61.58	-621.18	822.65	0.81	0.40	17.76
G1+G2+0.7Q+0.6V2+D2	61.79	-620.05	-1055.58	0.10	0.40	17.75
G1+G2+0.7Q+0.6V3+D3	61.20	-815.53	-150.32	0.45	0.33	12.60
G1+G2+0.7Q+0.6V4+D4	62.16	-425.69	-82.60	0.46	0.47	22.91
G1+G2+0.7Q+V1+0.6D1	61.57	-620.06	940.61	0.94	0.40	17.65
G1+G2+0.7Q+V2+0.6D2	61.79	-621.16	-1173.54	-0.02	0.40	17.86
G1+G2+0.7Q+V3+0.6D3	61.12	-904.84	-155.81	0.45	0.44	12.13
G1+G2+0.7Q+V4+0.6D4	62.24	-336.38	-77.11	0.47	0.36	23.38
G1+G2+D1	52.12	-440.65	344.16	0.52	0.29	15.54
G1+G2+D2	52.24	-437.85	-608.57	0.32	0.29	15.32
G1+G2+D3	51.96	-477.35	-148.22	0.42	0.14	12.65
G1+G2+D4	52.40	-401.15	-116.19	0.43	0.44	18.21
G1+G2+Q+0.6V1+0.6D1	65.67	-698.34	638.86	0.78	0.44	18.71
G1+G2+Q+0.6V2+0.6D2	65.83	-698.33	-858.29	0.16	0.44	18.79
G1+G2+Q+0.6V3+0.6D3	65.37	-878.02	-137.17	0.46	0.43	14.71
G1+G2+Q+0.6V4+0.6D4	66.14	-518.65	-82.26	0.48	0.46	22.80
G1+G2+Q+D1	65.69	-699.74	366.65	0.57	0.45	18.86
G1+G2+Q+D2	65.82	-696.94	-586.08	0.37	0.44	18.64
G1+G2+Q+D3	65.53	-736.43	-125.73	0.47	0.30	15.97
G1+G2+Q+D4	65.97	-660.24	-93.70	0.47	0.59	21.53

Fundação B131-132						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	29.03	2992.25	-7.78	-0.02	-1.71	33.99
Adicional (G2)	7.86	981.92	-56.01	-0.05	-0.61	6.66
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	8.63	2010.36	16.51	0.02	-1.21	6.50
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	-0.03	11.07	144.37	0.10	-0.01	-1.34
Vento X- (V2)	0.03	-11.07	-144.37	-0.10	0.01	1.34
Vento Y+ (V3)	-0.15	-1169.20	-11.81	-0.01	0.43	-7.37
Vento Y- (V4)	0.15	1169.20	11.81	0.01	-0.43	7.37
Desaprumo X+ (D1)	-0.03	2.97	36.53	-0.08	0.00	-0.23
Desaprumo X- (D2)	0.03	-2.97	-36.53	0.08	0.00	0.23
Desaprumo Y+ (D3)	-0.07	-593.55	-6.50	0.00	0.10	-4.63
Desaprumo Y- (D4)	0.07	593.55	6.50	0.00	-0.10	4.63
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	42.89	5391.03	70.91	-0.07	-3.17	44.18
G1+G2+0.7Q+0.6V2+D2	42.98	5371.81	-175.40	-0.04	-3.16	46.24
G1+G2+0.7Q+0.6V3+D3	42.77	4086.35	-65.83	-0.07	-2.81	36.15
G1+G2+0.7Q+0.6V4+D4	43.10	6676.50	-38.65	-0.05	-3.52	54.27
G1+G2+0.7Q+V1+0.6D1	42.89	5394.27	114.05	0.00	-3.17	43.74
G1+G2+0.7Q+V2+0.6D2	42.98	5368.57	-218.53	-0.11	-3.16	46.68
G1+G2+0.7Q+V3+0.6D3	42.74	3856.08	-67.96	-0.07	-2.67	35.06
G1+G2+0.7Q+V4+0.6D4	43.13	6906.76	-36.53	-0.05	-3.65	55.36
G1+G2+D1	36.87	3977.14	-27.27	-0.15	-2.32	40.43
G1+G2+D2	36.92	3971.20	-100.33	0.00	-2.31	40.88
G1+G2+D3	36.82	3380.62	-70.30	-0.08	-2.22	36.02
G1+G2+D4	36.97	4567.72	-57.29	-0.07	-2.41	45.29
G1+G2+Q+0.6V1+0.6D1	45.49	5992.95	61.25	-0.04	-3.53	46.22
G1+G2+Q+0.6V2+0.6D2	45.56	5976.10	-155.83	-0.06	-3.52	48.10
G1+G2+Q+0.6V3+0.6D3	45.39	4926.87	-58.28	-0.06	-3.21	39.96
G1+G2+Q+0.6V4+0.6D4	45.66	7042.18	-36.30	-0.04	-3.84	54.36
G1+G2+Q+D1	45.50	5987.50	-10.76	-0.13	-3.53	46.94
G1+G2+Q+D2	45.55	5981.56	-83.82	0.03	-3.52	47.39
G1+G2+Q+D3	45.45	5390.97	-53.80	-0.05	-3.43	42.53
G1+G2+Q+D4	45.60	6578.08	-40.79	-0.05	-3.62	51.80

Fundação BB1						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	0.68	75.98	9.10	0.01	-0.10	-2.95
Adicional (G2)	-0.09	58.65	8.06	0.01	-0.12	-2.20
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	-0.01	20.20	-0.14	0.00	-0.04	-0.23
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	-0.01	-1.85	1.75	0.00	0.00	0.05
Vento X- (V2)	0.01	1.85	-1.75	0.00	0.00	-0.05
Vento Y+ (V3)	0.01	-10.05	-0.09	0.00	0.02	-0.06
Vento Y- (V4)	-0.01	10.05	0.09	0.00	-0.02	0.06
Desaprumo X+ (D1)	0.00	-1.58	0.93	0.00	0.00	0.05
Desaprumo X- (D2)	0.00	1.58	-0.93	0.00	0.00	-0.05
Desaprumo Y+ (D3)	0.00	-5.04	-0.14	0.00	0.01	0.00

Desaprumo Y- (D4)	0.00	5.04	0.14	0.00	-0.01	0.00
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	0.57	146.09	19.05	0.03	-0.24	-5.25
G1+G2+0.7Q+0.6V2+D2	0.59	151.46	15.10	0.02	-0.25	-5.40
G1+G2+0.7Q+0.6V3+D3	0.59	137.71	16.87	0.03	-0.22	-5.36
G1+G2+0.7Q+0.6V4+D4	0.58	159.84	17.27	0.03	-0.26	-5.28
G1+G2+0.7Q+V1+0.6D1	0.57	145.98	19.38	0.03	-0.24	-5.24
G1+G2+0.7Q+V2+0.6D2	0.59	151.57	14.77	0.02	-0.25	-5.40
G1+G2+0.7Q+V3+0.6D3	0.59	135.70	16.89	0.03	-0.22	-5.38
G1+G2+0.7Q+V4+0.6D4	0.58	161.84	17.25	0.03	-0.26	-5.26
G1+G2+D1	0.59	133.05	18.10	0.03	-0.21	-5.11
G1+G2+D2	0.60	136.21	16.24	0.03	-0.22	-5.20
G1+G2+D3	0.59	129.60	17.03	0.03	-0.21	-5.16
G1+G2+D4	0.59	139.67	17.31	0.03	-0.22	-5.15
G1+G2+Q+0.6V1+0.6D1	0.57	152.78	18.64	0.03	-0.25	-5.34
G1+G2+Q+0.6V2+0.6D2	0.59	156.89	15.43	0.03	-0.26	-5.45
G1+G2+Q+0.6V3+0.6D3	0.58	145.78	16.89	0.03	-0.24	-5.43
G1+G2+Q+0.6V4+0.6D4	0.57	163.88	17.17	0.03	-0.27	-5.36
G1+G2+Q+D1	0.57	153.26	17.96	0.03	-0.25	-5.35
G1+G2+Q+D2	0.58	156.41	16.10	0.03	-0.26	-5.44
G1+G2+Q+D3	0.58	149.80	16.89	0.03	-0.25	-5.40
G1+G2+Q+D4	0.58	159.87	17.17	0.03	-0.26	-5.39

Fundação BB2						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	0.68	-29.29	-7.32	-0.01	-0.04	-2.38
Adicional (G2)	0.07	-21.42	-6.69	-0.01	-0.04	-1.90
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	-0.03	-12.27	-6.23	-0.01	0.02	-0.37
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.01	6.14	12.03	0.02	-0.01	0.63
Vento X- (V2)	-0.01	-6.14	-12.03	-0.02	0.01	-0.63
Vento Y+ (V3)	-0.01	-7.07	-1.76	0.00	0.01	-0.12
Vento Y- (V4)	0.01	7.07	1.76	0.00	-0.01	0.12
Desaprumo X+ (D1)	0.00	5.45	6.98	0.01	-0.01	0.55
Desaprumo X- (D2)	0.00	-5.45	-6.98	-0.01	0.01	-0.55
Desaprumo Y+ (D3)	-0.01	-2.58	-0.85	0.00	0.01	-0.03
Desaprumo Y- (D4)	0.01	2.58	0.85	0.00	-0.01	0.03
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	0.74	-50.17	-4.17	-0.01	-0.07	-3.61
G1+G2+0.7Q+0.6V2+D2	0.72	-68.43	-32.57	-0.05	-0.06	-5.47
G1+G2+0.7Q+0.6V3+D3	0.72	-66.12	-20.28	-0.03	-0.05	-4.64
G1+G2+0.7Q+0.6V4+D4	0.74	-52.48	-16.46	-0.03	-0.08	-4.44
G1+G2+0.7Q+V1+0.6D1	0.74	-49.89	-2.15	0.00	-0.07	-3.58
G1+G2+0.7Q+V2+0.6D2	0.72	-68.71	-34.59	-0.06	-0.06	-5.50
G1+G2+0.7Q+V3+0.6D3	0.71	-67.92	-20.65	-0.03	-0.05	-4.67
G1+G2+0.7Q+V4+0.6D4	0.75	-50.68	-16.10	-0.03	-0.08	-4.40
G1+G2+D1	0.76	-45.27	-7.03	-0.01	-0.09	-3.73
G1+G2+D2	0.75	-56.16	-20.99	-0.04	-0.08	-4.83
G1+G2+D3	0.75	-53.29	-14.86	-0.03	-0.08	-4.31

G1+G2+D4	0.76	-48.13	-13.16	-0.02	-0.09	-4.25
G1+G2+Q+0.6V1+0.6D1	0.73	-56.03	-8.84	-0.01	-0.06	-3.94
G1+G2+Q+0.6V2+0.6D2	0.71	-69.93	-31.65	-0.05	-0.05	-5.36
G1+G2+Q+0.6V3+0.6D3	0.71	-68.77	-21.81	-0.04	-0.05	-4.74
G1+G2+Q+0.6V4+0.6D4	0.73	-57.19	-18.67	-0.03	-0.07	-4.56
G1+G2+Q+D1	0.73	-57.53	-13.26	-0.02	-0.06	-4.10
G1+G2+Q+D2	0.72	-68.43	-27.22	-0.05	-0.05	-5.20
G1+G2+Q+D3	0.71	-65.56	-21.09	-0.03	-0.05	-4.68
G1+G2+Q+D4	0.73	-60.40	-19.39	-0.03	-0.06	-4.62

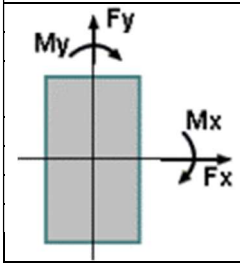
Fundação BB3						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	2.46	-34.14	1.22	0.00	0.03	-0.16
Adicional (G2)	0.25	3.32	2.18	0.00	0.01	-0.07
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	-0.01	-12.81	1.81	0.00	0.02	-0.07
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.01	-0.04	7.20	0.01	0.00	0.13
Vento X- (V2)	-0.01	0.04	-7.20	-0.01	0.00	-0.13
Vento Y+ (V3)	0.00	-11.70	-1.64	0.00	0.02	-0.02
Vento Y- (V4)	0.00	11.70	1.64	0.00	-0.02	0.02
Desaprumo X+ (D1)	0.01	-0.28	9.19	0.01	0.00	0.11
Desaprumo X- (D2)	-0.01	0.28	-9.19	-0.01	0.00	-0.11
Desaprumo Y+ (D3)	0.00	-9.36	-1.00	0.00	0.02	-0.01
Desaprumo Y- (D4)	0.00	9.36	1.00	0.00	-0.02	0.01
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	2.72	-40.09	18.17	0.01	0.06	-0.10
G1+G2+0.7Q+0.6V2+D2	2.68	-39.48	-8.84	-0.01	0.05	-0.47
G1+G2+0.7Q+0.6V3+D3	2.69	-56.16	2.68	0.00	0.08	-0.30
G1+G2+0.7Q+0.6V4+D4	2.70	-23.41	6.65	0.00	0.03	-0.26
G1+G2+0.7Q+V1+0.6D1	2.72	-39.99	17.37	0.01	0.06	-0.09
G1+G2+0.7Q+V2+0.6D2	2.68	-39.58	-8.04	-0.01	0.05	-0.47
G1+G2+0.7Q+V3+0.6D3	2.69	-57.10	2.43	0.00	0.09	-0.31
G1+G2+0.7Q+V4+0.6D4	2.71	-22.47	6.90	0.00	0.02	-0.26
G1+G2+D1	2.72	-31.10	12.59	0.01	0.04	-0.13
G1+G2+D2	2.70	-30.54	-5.78	-0.01	0.04	-0.34
G1+G2+D3	2.70	-40.18	2.40	0.00	0.06	-0.24
G1+G2+D4	2.71	-21.46	4.40	0.00	0.02	-0.23
G1+G2+Q+0.6V1+0.6D1	2.71	-43.82	15.04	0.01	0.06	-0.16
G1+G2+Q+0.6V2+0.6D2	2.68	-43.44	-4.62	-0.01	0.06	-0.45
G1+G2+Q+0.6V3+0.6D3	2.69	-56.26	3.63	0.00	0.08	-0.32
G1+G2+Q+0.6V4+0.6D4	2.70	-30.99	6.79	0.00	0.04	-0.29
G1+G2+Q+D1	2.71	-43.91	14.39	0.01	0.06	-0.20
G1+G2+Q+D2	2.69	-43.35	-3.98	-0.01	0.06	-0.41
G1+G2+Q+D3	2.69	-52.98	4.21	0.00	0.08	-0.31
G1+G2+Q+D4	2.70	-34.27	6.21	0.00	0.04	-0.30

Fundação BB4						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	1.72	4.53	3.41	0.00	0.11	1.32
Adicional (G2)	0.18	-28.02	2.15	0.00	0.12	1.11
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00

Acidental (Q)	0.03	6.29	-6.66	-0.01	0.00	0.55
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.00	-0.26	5.85	0.01	0.00	-0.10
Vento X- (V2)	0.00	0.26	-5.85	-0.01	0.00	0.10
Vento Y+ (V3)	0.00	-12.35	3.84	0.00	0.02	-0.26
Vento Y- (V4)	0.00	12.35	-3.84	0.00	-0.02	0.26
Desaprumo X+ (D1)	0.00	-0.30	5.64	0.01	0.00	-0.08
Desaprumo X- (D2)	0.00	0.30	-5.64	-0.01	0.00	0.08
Desaprumo Y+ (D3)	0.00	-6.39	2.13	0.00	0.01	-0.16
Desaprumo Y- (D4)	0.00	6.39	-2.13	0.00	-0.01	0.16
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	1.92	-19.54	10.05	0.01	0.23	2.67
G1+G2+0.7Q+0.6V2+D2	1.93	-18.63	-8.25	-0.01	0.23	2.95
G1+G2+0.7Q+0.6V3+D3	1.93	-32.89	5.34	0.00	0.26	2.50
G1+G2+0.7Q+0.6V4+D4	1.92	-5.28	-3.54	-0.01	0.21	3.12
G1+G2+0.7Q+V1+0.6D1	1.92	-19.52	10.13	0.01	0.23	2.66
G1+G2+0.7Q+V2+0.6D2	1.93	-18.64	-8.34	-0.01	0.23	2.96
G1+G2+0.7Q+V3+0.6D3	1.93	-35.27	6.02	0.00	0.26	2.46
G1+G2+0.7Q+V4+0.6D4	1.92	-2.89	-4.22	-0.01	0.20	3.16
G1+G2+D1	1.90	-23.79	11.20	0.01	0.23	2.34
G1+G2+D2	1.90	-23.19	-0.08	-0.01	0.23	2.51
G1+G2+D3	1.90	-29.88	7.69	0.00	0.24	2.27
G1+G2+D4	1.90	-17.09	3.43	0.00	0.22	2.58
G1+G2+Q+0.6V1+0.6D1	1.93	-17.53	5.80	0.00	0.23	2.87
G1+G2+Q+0.6V2+0.6D2	1.94	-16.86	-7.99	-0.01	0.23	3.08
G1+G2+Q+0.6V3+0.6D3	1.94	-28.44	2.49	0.00	0.25	2.73
G1+G2+Q+0.6V4+0.6D4	1.93	-5.95	-4.68	-0.01	0.21	3.22
G1+G2+Q+D1	1.93	-17.49	4.54	0.00	0.23	2.89
G1+G2+Q+D2	1.94	-16.90	-6.74	-0.01	0.23	3.06
G1+G2+Q+D3	1.94	-23.59	1.03	0.00	0.24	2.82
G1+G2+Q+D4	1.93	-10.80	-3.23	-0.01	0.22	3.13

Fundação SE-1						
Combinação	**N (tf)**	**Mx (kgf.m)**	**My (kgf.m)**	**Vx (tf)**	**Vy (tf)**	**Mt (kgf/m)**
Peso próprio (G1)	6.01	-21.78	23.62	0.01	-0.02	-0.02
Adicional (G2)	4.83	36.11	5.21	0.01	-0.08	-0.04
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	2.86	-30.05	9.97	0.01	0.05	-0.18
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.01	5.05	46.20	0.01	0.00	0.21
Vento X- (V2)	-0.01	-5.05	-46.20	-0.01	0.00	-0.21
Vento Y+ (V3)	-0.02	-45.06	-0.78	0.00	-0.05	0.09
Vento Y- (V4)	0.02	45.06	0.78	0.00	0.05	-0.09
Desaprumo X+ (D1)	0.01	5.30	40.39	0.02	0.00	0.19
Desaprumo X- (D2)	-0.01	-5.30	-40.39	-0.02	0.00	-0.19
Desaprumo Y+ (D3)	-0.01	-28.04	0.80	0.00	-0.02	0.07
Desaprumo Y- (D4)	0.01	28.04	-0.80	0.00	0.02	-0.07
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 1 (T1)	0.00	0.00	0.00	0.00	0.00	0.00
Temperatura 2 (T2)	0.00	0.00	0.00	0.00	0.00	0.00
Retração (R)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	12.85	1.62	103.94	0.05	-0.06	0.13
G1+G2+0.7Q+0.6V2+D2	12.83	-15.03	-32.30	0.00	-0.06	-0.50

G1+G2+0.7Q+0.6V3+D3	12.81	-61.78	36.15	0.02	-0.11	-0.06
G1+G2+0.7Q+0.6V4+D4	12.86	48.38	35.48	0.02	-0.02	-0.31
G1+G2+0.7Q+V1+0.6D1	12.85	1.52	106.26	0.05	-0.06	0.14
G1+G2+0.7Q+V2+0.6D2	12.83	-14.93	-34.62	0.00	-0.06	-0.51
G1+G2+0.7Q+V3+0.6D3	12.81	-68.59	35.52	0.02	-0.12	-0.05
G1+G2+0.7Q+V4+0.6D4	12.87	55.18	36.12	0.02	0.00	-0.32
G1+G2+D1	10.84	19.63	69.23	0.03	-0.10	0.13
G1+G2+D2	10.83	9.04	-11.56	0.00	-0.10	-0.25
G1+G2+D3	10.83	-13.71	29.64	0.02	-0.12	0.01
G1+G2+D4	10.85	42.38	28.04	0.02	-0.08	-0.13
G1+G2+Q+0.6V1+0.6D1	13.70	-9.51	90.77	0.04	-0.05	0.01
G1+G2+Q+0.6V2+0.6D2	13.69	-21.93	-13.15	0.01	-0.04	-0.48
G1+G2+Q+0.6V3+0.6D3	13.67	-59.58	38.83	0.03	-0.08	-0.14
G1+G2+Q+0.6V4+0.6D4	13.71	28.14	38.80	0.02	-0.01	-0.33
G1+G2+Q+D1	13.70	-10.42	79.21	0.04	-0.05	-0.05
G1+G2+Q+D2	13.69	-21.01	-1.58	0.01	-0.04	-0.43
G1+G2+Q+D3	13.68	-43.76	39.61	0.03	-0.06	-0.17
G1+G2+Q+D4	13.71	12.32	38.01	0.02	-0.03	-0.30

Legenda

- Caso: indica o caso de carregamento no qual serão apresentados os esforços atuantes;
- Elemento: nome da fundação;
- N: esforço axial na fundação (inclui o peso próprio do bloco caso sua seção tenha sido definida no lançamento);
- Mx: momento fletor na fundação, atuante em torno do eixo X global;
- My: momento fletor na fundação, atuante em torno do eixo Y global;
- Fx: esforço cortante na fundação, atuante no plano paralelo à direção X global;
- Fy: esforço cortante na fundação, atuante no plano paralelo à direção Y global;
- Mt: momento de torção atuante.

Pavimento NV-000

Resultado dos Blocos

NV-000	fck = 400.00 kgf/cm²	E = 318758 kgf/cm²	Peso Espec = 2500.00 kgf/m³
Lance 1		cobr = 4.50 cm	

Blocos	ne Estaca	LB LH (cm)	hb (cm)	Principal (cm²)		Estribo (cm²)		Superior (cm²)		As dist. (cm²)
				X	Y	Hor.	Vert.	X	Y	
B1	1 E50-10m	80.00 80.00		-	-	2.51 (5 ø 8.0)	1.25 2x(2 ø 6.3)	-	-	-
B2	1 E30-9m	60.00 60.00		-	-	1.56 (5 ø 6.3)	1.25 2x(2 ø 6.3)	-	-	-
B3	1 E60-10m	90.00 90.00		-	-	3.93 (5 ø 10.0)	2.01 2x(2 ø 8.0)	-	-	-
B4	1 E30-9m	60.00 60.00		-	-	1.56 (5 ø 6.3)	1.25 2x(2 ø 6.3)	-	-	-
B5	1 E60-10m	90.00 90.00		-	-	3.02 (6 ø 8.0)	2.01 2x(2 ø 8.0)	-	-	-
B6	1 E30-9m	60.00 60.00		-	-	1.56 (5 ø 6.3)	1.25 2x(2 ø 6.3)	-	-	-
B7	2 E50-10m	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 E50-10m	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)
B11	2 E60-10m	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)	3.14 (4 ø 10.0)	-	1.01 (ø 8.0 c/10)
B12	2 E60-10m	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)
B13	1 E50-10m	80.00 80.00		-	-	2.51 (5 ø 8.0)	1.25 2x(2 ø 6.3)	-	-	-
B14	2 E30-9m	150.00 60.00	45.00	4.91 (4 ø 12.5)	-	1.56 (5 ø 6.3)	7.04 2x(7 ø 8.0)	2.01 (4 ø 8.0)	-	1.01 (ø 8.0 c/10)
B15	1 E30-9m	60.00 60.00		-	-	1.56 (5 ø 6.3)	1.25 2x(2 ø 6.3)	-	-	-
B16	2 E50-10m	230.00 80.00	80.00	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)
B17	1 E30-9m	60.00 60.00		-	-	1.56 (5 ø 6.3)	1.25 2x(2 ø 6.3)	-	-	-

B18	2 E50-10m	230.00 80.00	75.00	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)
B19	1 E30-9m	60.00 60.00		-	-	1.56 (5 ø 6.3)	1.25 2x(2 ø 6.3)	-	-	-
B20	2 E50-10m	230.00 80.00	80.00	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)
B21	1 E50-10m	80.00 80.00		-	-	2.51 (5 ø 8.0)	1.25 2x(2 ø 6.3)	-	-	-
B22	1 E30-9m	60.00 60.00		-	-	1.56 (5 ø 6.3)	1.25 2x(2 ø 6.3)	-	-	-
B23	1 E60-10m	90.00 90.00		-	-	3.02 (6 ø 8.0)	2.01 2x(2 ø 8.0)	-	-	-
B24	1 E30-9m	60.00 60.00		-	-	1.56 (5 ø 6.3)	1.25 2x(2 ø 6.3)	-	-	-
B25	2 E50-10m	230.00 80.00	75.00	14.07 (7 ø 16.0)	-	1.87 (6 ø 6.3)	10.05 2x(10 ø 8.0)	3.14 (4 ø 10.0)	-	1.01 (ø 8.0 c/10)
B26	1 E30-9m	60.00 60.00		-	-	1.56 (5 ø 6.3)	1.25 2x(2 ø 6.3)	-	-	-
B27	2 E50-10m	230.00 80.00	75.00	14.07 (7 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)
B28	1 E30-9m	60.00 60.00		-	-	1.56 (5 ø 6.3)	1.25 2x(2 ø 6.3)	-	-	-
B29	3 E50-10m	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)	2.84 (ø 8.0 c/20)
B30	1 E30-9m	60.00 60.00		-	-	1.56 (5 ø 6.3)	1.25 2x(2 ø 6.3)	-	-	-
B31	2 E50-10m	230.00 80.00	70.00	14.07 (7 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)
B34	3 E50-10m	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 E50-10m	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	1 E60-10m	90.00 90.00		-	-	3.02 (6 ø 8.0)	2.01 2x(2 ø 8.0)	-	-	-
B37	1 E60-10m	90.00 90.00		-	-	3.02 (6 ø 8.0)	2.01 2x(2 ø 8.0)	-	-	-
B38	2 E60-10m	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 E50-10m	80.00 80.00		-	-	2.51 (5 ø 8.0)	2.01 2x(2 ø 8.0)	-	-	-

B40	2 E50-10m	230.00 80.00	75.00	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)
B41	2 E50-10m	230.00 80.00	75.00	14.07 (7 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)
B42	3 E50-10m	242.38 209.90	85.00	12.06 (6 ø 16.0)	-	1.56 (5 ø 6.3)	-	5.03 (10 ø 8.0)	6.03 (12 ø 8.0)	3.02 (ø 8.0 c/20)
B45	3 E60-10m	283.92 245.88	125.00	14.07 (7 ø 16.0)	-	2.18 (7 ø 6.3)	-	6.03 (12 ø 8.0)	7.04 (14 ø 8.0)	3.22 (ø 8.0 c/20)
B46	3 E60-10m	283.92 245.88	120.00	14.07 (7 ø 16.0)	-	2.18 (7 ø 6.3)	-	6.03 (12 ø 8.0)	7.04 (14 ø 8.0)	3.32 (ø 8.0 c/20)
B47	1 E60-10m	90.00 90.00		-	-	3.02 (6 ø 8.0)	2.01 2x(2 ø 8.0)	-	-	-
B48	1 E30-9m	60.00 60.00		-	-	1.56 (5 ø 6.3)	1.25 2x(2 ø 6.3)	-	-	-
B49	1 E30-9m	60.00 60.00		-	-	1.56 (5 ø 6.3)	1.25 2x(2 ø 6.3)	-	-	-
B50	2 E40-9m	190.00 70.00	60.00	4.91 (4 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)
B51	1 E50-10m	80.00 80.00		-	-	2.51 (5 ø 8.0)	1.25 2x(2 ø 6.3)	-	-	-
B52	2 E50-10m	230.00 80.00	70.00	10.05 (5 ø 16.0)	-	1.56 (5 ø 6.3)	10.05 2x(10 ø 8.0)	2.01 (4 ø 8.0)	-	1.01 (ø 8.0 c/10)
B53	1 E40-9m	70.00 70.00		-	-	1.56 (5 ø 6.3)	1.25 2x(2 ø 6.3)	-	-	-
B54	1 E50-10m	80.00 80.00		-	-	1.56 (5 ø 6.3)	1.25 2x(2 ø 6.3)	-	-	-
B55	1 E30-9m	60.00 60.00		-	-	1.56 (5 ø 6.3)	1.25 2x(2 ø 6.3)	-	-	-
B56	1 E30-9m	60.00 60.00		-	-	1.56 (5 ø 6.3)	1.25 2x(2 ø 6.3)	-	-	-
B57	2 E50-10m	230.00 80.00	75.00	14.07 (7 ø 16.0)	-	1.87 (6 ø 6.3)	10.05 2x(10 ø 8.0)	3.14 (4 ø 10.0)	-	1.01 (ø 8.0 c/10)
B58	2 E50-10m	230.00 80.00	75.00	14.07 (7 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)
B59	1 E40-9m	70.00 70.00		-	-	1.56 (5 ø 6.3)	1.25 2x(2 ø 6.3)	-	-	-
B60	1 E50-10m	80.00 80.00		-	-	1.56 (5 ø 6.3)	1.25 2x(2 ø 6.3)	-	-	-
B61	1 E50-10m	80.00 80.00		-	-	3.02 (6 ø 8.0)	2.01 2x(2 ø 8.0)	-	-	-

B62	1 E50-10m	80.00 80.00		-	-	2.51 (5 ø 8.0)	1.25 2x(2 ø 6.3)	-	-	-
B63	1 E50-10m	80.00 80.00		-	-	2.51 (5 ø 8.0)	1.25 2x(2 ø 6.3)	-	-	-
B66	2 E50-10m	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 E50-10m	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	1 E50-10m	80.00 80.00		-	-	3.02 (6 ø 8.0)	2.01 2x(2 ø 8.0)	-	-	-
B69	1 E50-10m	80.00 80.00		-	-	2.51 (5 ø 8.0)	1.25 2x(2 ø 6.3)	-	-	-
B70	1 E30-9m	60.00 60.00		-	-	1.56 (5 ø 6.3)	1.25 2x(2 ø 6.3)	-	-	-
B71	1 E30-9m	60.00 60.00		-	-	1.56 (5 ø 6.3)	1.25 2x(2 ø 6.3)	-	-	-
B72	1 E50-10m	80.00 80.00		-	-	3.02 (6 ø 8.0)	2.01 2x(2 ø 8.0)	-	-	-
B73	1 E50-10m	80.00 80.00		-	-	3.02 (6 ø 8.0)	2.01 2x(2 ø 8.0)	-	-	-
B74	1 E50-10m	80.00 80.00		-	-	2.51 (5 ø 8.0)	1.25 2x(2 ø 6.3)	-	-	-
B75	1 E50-10m	80.00 80.00		-	-	2.51 (5 ø 8.0)	1.25 2x(2 ø 6.3)	-	-	-
B78	2 E50-10m	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)
B79	2 E50-10m	230.00 80.00	70.00	14.07 (7 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)
B80	1 E50-10m	80.00 80.00		-	-	3.02 (6 ø 8.0)	2.01 2x(2 ø 8.0)	-	-	-
B81	2 E50-10m	230.00 80.00	75.00	14.07 (7 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)
B82	2 E50-10m	230.00 80.00	70.00	14.07 (7 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)
B85	1 E30-9m	60.00 60.00		-	-	1.56 (5 ø 6.3)	1.25 2x(2 ø 6.3)	-	-	-
B86	1 E30-9m	60.00 60.00		-	-	1.56 (5 ø 6.3)	1.25 2x(2 ø 6.3)	-	-	-
B87	1 E30-9m	60.00 60.00		-	-	1.56 (5 ø 6.3)	1.25 2x(2 ø 6.3)	-	-	-

B88	2 E40-9m	190.00 70.00	60.00	6.14 (5 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)
B89	2 E40-9m	190.00 70.00	65.00	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	1 E60-10m	90.00 90.00		-	-	3.93 (5 ø 10.0)	2.01 2x(2 ø 8.0)	-	-	-
B91	1 E60-10m	90.00 90.00		-	-	3.93 (5 ø 10.0)	2.01 2x(2 ø 8.0)	-	-	-
B92	1 E30-9m	60.00 60.00		-	-	1.56 (5 ø 6.3)	1.25 2x(2 ø 6.3)	-	-	-
B93	2 E40-9m	190.00 70.00	60.00	4.91 (4 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)
B94	1 E50-10m	80.00 80.00		-	-	2.51 (5 ø 8.0)	1.25 2x(2 ø 6.3)	-	-	-
B95	2 E50-10m	230.00 80.00	70.00	10.05 (5 ø 16.0)	-	1.56 (5 ø 6.3)	10.05 2x(10 ø 8.0)	2.01 (4 ø 8.0)	-	1.01 (ø 8.0 c/10)
B96	1 E40-9m	70.00 70.00		-	-	1.56 (5 ø 6.3)	1.25 2x(2 ø 6.3)	-	-	-
B97	1 E60-10m	90.00 90.00		-	-	3.93 (5 ø 10.0)	2.01 2x(2 ø 8.0)	-	-	-
B98	2 E60-10m	270.00 90.00	95.00	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)
B99	1 E50-10m	80.00 80.00		-	-	3.02 (6 ø 8.0)	2.01 2x(2 ø 8.0)	-	-	-
B100	1 E60-10m	90.00 90.00		-	-	3.02 (6 ø 8.0)	2.01 2x(2 ø 8.0)	-	-	-
B101	2 E50-10m	230.00 80.00	70.00	14.07 (7 ø 16.0)	-	1.87 (6 ø 6.3)	10.05 2x(10 ø 8.0)	3.14 (4 ø 10.0)	-	1.01 (ø 8.0 c/10)
B102	2 E50-10m	230.00 80.00	75.00	14.07 (7 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 E50-10m	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)
B106	2 E50-10m	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 E60-10m	90.00 90.00		-	-	3.02 (6 ø 8.0)	2.01 2x(2 ø 8.0)	-	-	-
B108	1 E60-10m	90.00 90.00		-	-	3.02 (6 ø 8.0)	2.01 2x(2 ø 8.0)	-	-	-
B109	2 E60-10m	270.00 90.00	95.00	16.08 (8 ø 16.0)	-	2.51 (5 ø 8.0)	11.06 2x(11 ø 8.0)	3.14 (4 ø 10.0)	-	1.01 (ø 8.0 c/10)

B110	2 E50-10m	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 E50-10m	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 E60-10m	283.92 245.88	120.00	14.07 (7 ø 16.0)	-	2.18 (7 ø 6.3)	-	6.03 (12 ø 8.0)	7.04 (14 ø 8.0)	3.22 (ø 8.0 c/20)
B115	3 E50-10m	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 E60-10m	283.92 245.88	125.00	14.07 (7 ø 16.0)	-	2.18 (7 ø 6.3)	-	6.03 (12 ø 8.0)	7.04 (14 ø 8.0)	3.23 (ø 8.0 c/20)
B117	1 E60-10m	90.00 90.00		-	-	3.02 (6 ø 8.0)	2.01 2x(2 ø 8.0)	-	-	-
B118	1 E50-10m	80.00 80.00		-	-	2.51 (5 ø 8.0)	1.25 2x(2 ø 6.3)	-	-	-
B119	1 E60-10m	90.00 90.00		-	-	3.93 (5 ø 10.0)	2.01 2x(2 ø 8.0)	-	-	-
B120	1 E50-10m	80.00 80.00		-	-	3.93 (5 ø 10.0)	2.01 2x(2 ø 8.0)	-	-	-
B121	1 E30-9m	60.00 60.00		-	-	1.56 (5 ø 6.3)	1.25 2x(2 ø 6.3)	-	-	-
B122	1 E30-9m	60.00 60.00		-	-	1.56 (5 ø 6.3)	1.25 2x(2 ø 6.3)	-	-	-
B123	2 E40-9m	190.00 70.00	60.00	4.91 (4 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)
B124	1 E30-9m	60.00 60.00		-	-	1.56 (5 ø 6.3)	1.25 2x(2 ø 6.3)	-	-	-
B125	1 E30-9m	60.00 60.00		-	-	1.56 (5 ø 6.3)	1.25 2x(2 ø 6.3)	-	-	-
B126	1 E50-10m	80.00 80.00		-	-	2.51 (5 ø 8.0)	1.25 2x(2 ø 6.3)	-	-	-
B127	2 E50-10m	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 E50-10m	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 E50-10m	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 E60-10m	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)	3.14 (4 ø 10.0)	-	1.01 (ø 8.0 c/10)
B133	2 E60-10m	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 E60-10m	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 E50-10m	80.00 80.00		-	-	2.51 (5 ø 8.0)	1.25 2x(2 ø 6.3)	-	-	-
B9-10	2 E50-10m	230.00 80.00	80.00	14.07 (7 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)
B32-33	2 E50-10m	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	3 E50-10m	242.38 209.90	90.00	14.07 (7 ø 16.0)	-	2.51 (5 ø 8.0)	-	5.03 (10 ø 8.0)	6.03 (12 ø 8.0)	3.59 (ø 8.0 c/20)
B64-65	3 E60-10m	283.92 245.88	105.00	18.10 (9 ø 16.0)	-	3.02 (6 ø 8.0)	-	6.03 (12 ø 8.0)	7.04 (14 ø 8.0)	4.24 (ø 8.0 c/20)
B76-77	3 E50-10m	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)	3.23 (ø 8.0 c/20)
B83-84	2 E50-10m	230.00 80.00	80.00	14.07 (7 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)
B103- 104	2 E50-10m	230.00 80.00	80.00	14.07 (7 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)
B113- 114	2 E60-10m	270.00 90.00	95.00	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)
B131- 132	2 E50-10m	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 E30-9m	60.00 60.00		-	-	1.56 (5 ø 6.3)	1.25 2x(2 ø 6.3)	-	-	-
BB2	1 E30-9m	60.00 60.00		-	-	1.56 (5 ø 6.3)	1.25 2x(2 ø 6.3)	-	-	-
BB3	1 E30-9m	60.00 60.00		-	-	1.56 (5 ø 6.3)	1.25 2x(2 ø 6.3)	-	-	-
BB4	1 E30-9m	60.00 60.00		-	-	1.56 (5 ø 6.3)	1.25 2x(2 ø 6.3)	-	-	-

Quadro de Cargas e Taxa de Compressão Permanente nos Pilares

NV-000						
Pilares	**Seção (cm)**	**Nmáx (tf)**	**Nmin (tf)**	**Nperm (tf)**	**Taxa de compressão (bruta)**	**Taxa de compressão (homogeneizada)**
P1	20x40	22.76	0.00	27.28	0.12	0.10
P2	15x40	3.34	0.00	4.67	0.03	0.02
P3	20x40	32.86	0.00	37.58	0.16	0.15
P4	15x40	3.43	0.00	4.74	0.03	0.03
P5	20x40	32.01	0.00	36.98	0.16	0.15
P6	15x40	3.39	0.00	4.73	0.03	0.02
P7	20x40	49.40	0.00	55.45	0.24	0.18
P8	20x40	41.05	0.00	47.91	0.21	0.20
P9	15x50	15.73	0.00	18.44	0.09	0.08
P10	15x50	23.72	0.00	27.07	0.13	0.10
P11	20x40	53.88	0.00	60.37	0.26	0.20
P12	20x40	54.35	0.00	60.96	0.27	0.19
P13	20x40	23.69	0.00	28.54	0.12	0.10
P14	15x40	14.71	0.00	16.60	0.10	0.09
P15	15x40	4.49	0.00	6.25	0.04	0.03
P16	15x40	46.73	0.00	49.22	0.29	0.25
P17	15x40	4.55	0.00	6.33	0.04	0.03
P18	15x40	45.84	0.00	49.17	0.29	0.25
P19	15x40	4.14	0.00	5.72	0.03	0.03
P20	15x40	50.25	0.00	54.06	0.32	0.26
P21	15x40	18.34	0.00	19.91	0.12	0.11
P22	15x40	4.43	0.00	6.21	0.04	0.03
P23	20x40	31.81	0.00	37.84	0.17	0.14
P24	15x40	2.86	0.00	3.99	0.02	0.02
P25	20x40	47.01	0.00	53.21	0.23	0.22
P26	15x40	3.49	0.00	4.85	0.03	0.03
P27	20x40	48.14	0.00	54.63	0.24	0.22
P28	15x40	2.26	0.00	3.15	0.02	0.02
P29	20x40	72.56	0.00	78.20	0.34	0.32
P30	15x40	0.96	0.00	1.14	0.01	0.01
P31	20x40	46.16	0.00	52.04	0.23	0.21
P32	20x30	21.51	0.00	24.79	0.14	0.13
P33	20x30	31.26	0.00	35.15	0.21	0.18
P34	20x40	73.04	0.00	80.82	0.35	0.27
P35	20x40	77.25	0.00	85.78	0.38	0.35
P36	20x40	31.66	0.00	37.77	0.17	0.14
P37	20x40	31.47	0.00	37.48	0.16	0.13
P38	20x40	64.00	0.00	71.51	0.31	0.29
P39	20x40	24.95	0.00	28.87	0.13	0.11
P40	20x40	36.89	0.00	40.76	0.18	0.17
P41	20x40	50.53	0.00	62.00	0.27	0.24
P42	20x40	69.08	0.00	79.82	0.35	0.27
P43	15x50	25.87	0.00	30.16	0.14	0.13
P44	15x50	32.64	0.00	36.88	0.17	0.15
P45	20x40	81.96	0.00	90.35	0.40	0.33

P46	20x40	77.02	0.00	84.86	0.37	0.31
P47	20x40	31.46	0.00	37.41	0.16	0.14
P48	15x40	2.31	0.00	3.23	0.02	0.02
P49	15x40	3.22	0.00	4.50	0.03	0.02
P50	15x40	13.56	0.00	14.96	0.09	0.08
P51	20x50	23.23	0.00	27.25	0.10	0.09
P52	20x50	24.28	0.00	28.52	0.10	0.09
P53	15x40	2.33	0.00	3.27	0.02	0.02
P54	15x40	14.50	0.00	16.25	0.09	0.09
P55	20x50	7.86	0.00	11.01	0.04	0.04
P56	20x50	7.86	0.00	11.01	0.04	0.04
P57	15x50	45.87	0.00	48.86	0.23	0.20
P58	20x40	48.11	0.00	55.65	0.24	0.22
P59	20x40	6.88	0.00	7.41	0.03	0.03
P60	15x50	12.72	0.00	13.94	0.07	0.06
P61	20x40	28.28	0.00	34.75	0.15	0.13
P62	20x40	18.86	0.00	23.31	0.10	0.10
P63	15x40	20.14	0.00	24.20	0.14	0.12
P64	60x60	57.68	0.00	69.07	0.07	0.06
P65	20x30	22.01	0.00	25.18	0.15	0.12
P66	20x40	51.82	0.00	58.67	0.26	0.19
P67	20x40	52.60	0.00	59.72	0.26	0.19
P68	20x40	26.98	0.00	33.07	0.14	0.12
P69	20x50	20.94	0.00	25.45	0.09	0.08
P70	20x50	7.86	0.00	11.01	0.04	0.04
P71	20x50	7.86	0.00	11.01	0.04	0.04
P72	20x50	27.80	0.00	32.24	0.11	0.10
P73	20x40	28.50	0.00	34.98	0.15	0.12
P74	20x40	19.83	0.00	24.40	0.11	0.10
P75	15x40	19.41	0.00	23.33	0.14	0.12
P76	60x60	46.12	0.00	56.28	0.05	0.05
P77	15x60	9.22	0.00	9.77	0.04	0.03
P78	20x40	42.89	0.00	50.84	0.22	0.19
P79	20x40	43.62	0.00	51.79	0.23	0.19
P80	20x40	26.89	0.00	33.05	0.14	0.11
P81	15x50	44.50	0.00	47.37	0.22	0.19
P82	20x40	51.45	0.00	60.06	0.26	0.24
P83	15x50	26.97	0.00	29.40	0.14	0.12
P84	15x50	20.23	0.00	20.87	0.10	0.09
P85	20x50	7.86	0.00	11.01	0.04	0.04
P86	20x50	7.86	0.00	11.01	0.04	0.04
P87	15x40	6.10	0.00	6.56	0.04	0.03
P88	15x40	16.36	0.00	18.85	0.11	0.09
P89	15x40	4.91	0.00	6.80	0.04	0.03
P90	15x40	32.72	0.00	33.49	0.20	0.18
P91	15x40	33.47	0.00	34.37	0.20	0.17
P92	15x40	3.53	0.00	4.94	0.03	0.03
P93	15x40	13.86	0.00	15.47	0.09	0.08
P94	20x50	23.24	0.00	27.24	0.10	0.09
P95	20x50	23.87	0.00	27.87	0.10	0.09
P96	15x40	5.29	0.00	7.31	0.04	0.04
P97	20x40	33.08	0.00	39.82	0.17	0.15
P98	20x40	61.49	0.00	68.65	0.30	0.28
P99	20x40	28.97	0.00	34.19	0.15	0.14
P100	20x40	32.46	0.00	34.99	0.15	0.14
P101	20x40	45.62	0.00	55.31	0.24	0.22
P102	20x40	51.43	0.00	59.78	0.26	0.23
P103	15x50	18.46	0.00	21.88	0.10	0.10

P104	15x50	22.59	0.00	25.87	0.12	0.11
P105	20x40	54.50	0.00	63.07	0.28	0.25
P106	20x40	54.39	0.00	63.70	0.28	0.26
P107	20x40	31.06	0.00	37.04	0.16	0.14
P108	20x40	31.91	0.00	38.17	0.17	0.14
P109	20x40	60.49	0.00	70.31	0.31	0.29
P110	20x40	59.60	0.00	68.62	0.30	0.28
P111	20x40	75.72	0.00	82.00	0.36	0.34
P112	20x40	81.62	0.00	88.31	0.39	0.32
P113	20x30	33.80	0.00	37.32	0.22	0.18
P114	20x30	32.35	0.00	35.73	0.21	0.19
P115	20x40	80.49	0.00	87.25	0.38	0.32
P116	20x40	85.19	0.00	94.31	0.41	0.37
P117	20x40	32.22	0.00	38.51	0.17	0.14
P118	15x40	16.15	0.00	18.57	0.11	0.09
P119	15x40	35.94	0.00	38.09	0.22	0.20
P120	15x40	29.89	0.00	30.54	0.18	0.15
P121	15x40	2.73	0.00	3.82	0.02	0.02
P122	15x40	4.12	0.00	5.72	0.03	0.03
P123	15x40	14.30	0.00	15.97	0.09	0.09
P124	15x40	4.68	0.00	6.51	0.04	0.03
P125	15x40	3.22	0.00	4.50	0.03	0.02
P126	20x40	23.45	0.00	28.18	0.12	0.11
P127	20x40	42.82	0.00	49.34	0.22	0.16
P128	20x40	39.43	0.00	45.67	0.20	0.17
P129	20x40	48.58	0.00	54.09	0.24	0.19
P130	20x40	52.78	0.00	58.45	0.26	0.19
P131	15x50	23.00	0.00	25.98	0.12	0.10
P132	15x50	22.74	0.00	25.68	0.12	0.10
P133	20x40	51.80	0.00	57.38	0.25	0.19
P134	20x40	52.76	0.00	58.67	0.26	0.19
P135	20x40	23.51	0.00	28.36	0.12	0.10
PB1	15x40	0.60	0.00	0.83	0.00	0.00
PB2	15x40	0.76	0.00	1.05	0.01	0.01
PB3	15x40	2.72	0.00	3.79	0.02	0.02
PB4	15x40	1.94	0.00	2.66	0.02	0.01
PE-1	15x40	13.71	0.00	15.18	0.09	0.08

Pavimento TÉRREO NV-320

Quadro de Cargas e Taxa de Compressão Permanente nos Pilares

TÉRREO NV-320						
Pilares	**Seção (cm)**	**Nmáx (tf)**	**Nmin (tf)**	**Nperm (tf)**	**Taxa de compressão (bruta)**	**Taxa de compressão (homogeneizada)**
P1	20x40	20.28	0.00	23.89	0.10	0.09
P3	20x40	30.25	0.00	34.00	0.15	0.14
P5	20x40	28.57	0.00	32.22	0.14	0.13
P7	20x40	44.79	0.00	49.01	0.21	0.16
P8	20x40	34.20	0.00	38.36	0.17	0.16
P9	15x50	13.40	0.00	15.26	0.07	0.06
P10	15x50	21.36	0.00	23.89	0.11	0.09
P11	20x40	49.21	0.00	53.82	0.24	0.18
P12	20x40	49.43	0.00	54.05	0.24	0.17
P13	20x40	19.95	0.00	23.53	0.10	0.08
P14	15x40	10.91	0.00	11.28	0.07	0.06
P16	15x40	44.50	0.00	46.06	0.27	0.23
P18	15x40	42.07	0.00	43.85	0.26	0.23
P20	15x40	46.90	0.00	49.34	0.29	0.24
P21	15x40	17.54	0.00	18.80	0.11	0.10
P23	20x40	29.01	0.00	34.05	0.15	0.13
P25	20x40	45.08	0.00	50.49	0.22	0.21
P27	20x40	45.37	0.00	50.69	0.22	0.21
P29	20x40	69.78	0.00	74.28	0.32	0.30
P31	20x40	42.20	0.00	46.37	0.20	0.19
P32	20x30	19.18	0.00	21.52	0.13	0.11
P33	20x30	29.12	0.00	32.19	0.19	0.17
P34	20x40	67.85	0.00	73.52	0.32	0.24
P35	20x40	72.08	0.00	78.47	0.34	0.32
P36	20x40	27.41	0.00	31.98	0.14	0.12
P37	20x40	27.45	0.00	31.90	0.14	0.11
P38	20x40	59.42	0.00	65.04	0.28	0.27
P39	20x40	21.73	0.00	24.49	0.11	0.10
P40	20x40	33.81	0.00	36.54	0.16	0.15
P41	20x40	46.52	0.00	56.39	0.25	0.22
P42	20x40	64.98	0.00	74.06	0.32	0.25
P43	15x50	21.02	0.00	24.28	0.11	0.10
P44	15x50	30.85	0.00	34.39	0.16	0.14
P45	20x40	76.57	0.00	82.83	0.36	0.30
P46	20x40	73.02	0.00	79.26	0.35	0.29
P47	20x40	27.53	0.00	31.99	0.14	0.12
P50	15x40	11.04	0.00	11.41	0.07	0.06
P51	20x50	14.20	0.00	14.60	0.05	0.05
P52	20x50	15.24	0.00	15.87	0.06	0.05
P54	15x40	11.95	0.00	12.71	0.07	0.07
P55	20x50	0.83	0.00	1.16	0.00	0.00
P56	20x50	0.83	0.00	1.16	0.00	0.00
P57	15x50	43.24	0.00	45.09	0.21	0.19
P58	20x40	45.08	0.00	51.47	0.23	0.20
P61	20x40	23.73	0.00	28.47	0.12	0.11

P62	20x40	14.12	0.00	17.31	0.08	0.07
P63	15x40	16.66	0.00	19.68	0.11	0.10
P64	60x60	57.04	0.00	67.95	0.07	0.06
P65	20x30	20.32	0.00	22.98	0.13	0.11
P66	20x40	47.68	0.00	53.05	0.23	0.17
P67	20x40	49.39	0.00	55.19	0.24	0.18
P68	20x40	22.50	0.00	26.92	0.12	0.10
P69	20x50	11.91	0.00	12.80	0.04	0.04
P70	20x50	0.83	0.00	1.16	0.00	0.00
P71	20x50	0.83	0.00	1.16	0.00	0.00
P72	20x50	18.76	0.00	19.59	0.07	0.06
P73	20x40	23.71	0.00	28.37	0.12	0.10
P74	20x40	15.06	0.00	18.35	0.08	0.08
P75	15x40	16.21	0.00	19.15	0.11	0.10
P76	60x60	45.38	0.00	55.29	0.05	0.05
P77	15x60	9.05	0.00	9.52	0.04	0.03
P78	20x40	38.10	0.00	44.19	0.19	0.16
P79	20x40	38.45	0.00	44.63	0.20	0.17
P80	20x40	22.13	0.00	26.49	0.12	0.09
P81	15x50	42.44	0.00	44.30	0.21	0.18
P82	20x40	48.33	0.00	55.75	0.24	0.22
P83	15x50	10.46	0.00	11.18	0.05	0.05
P84	15x50	20.20	0.00	20.83	0.10	0.09
P85	20x50	0.83	0.00	1.16	0.00	0.00
P86	20x50	0.83	0.00	1.16	0.00	0.00
P88	15x40	11.02	0.00	11.35	0.07	0.06
P90	15x40	30.09	0.00	29.78	0.17	0.16
P91	15x40	30.74	0.00	30.48	0.18	0.15
P93	15x40	11.29	0.00	11.88	0.07	0.06
P94	20x50	14.20	0.00	14.59	0.05	0.05
P95	20x50	14.83	0.00	15.22	0.05	0.05
P97	20x40	27.96	0.00	32.70	0.14	0.12
P98	20x40	55.54	0.00	60.27	0.26	0.25
P99	20x40	25.44	0.00	29.40	0.13	0.12
P100	20x40	31.73	0.00	34.04	0.15	0.14
P101	20x40	45.60	0.00	55.27	0.24	0.22
P102	20x40	51.40	0.00	59.75	0.26	0.23
P103	15x50	15.02	0.00	18.06	0.08	0.08
P104	15x50	20.59	0.00	23.08	0.11	0.09
P105	20x40	49.01	0.00	55.36	0.24	0.22
P106	20x40	48.79	0.00	55.84	0.24	0.23
P107	20x40	26.89	0.00	31.26	0.14	0.12
P108	20x40	27.62	0.00	32.22	0.14	0.12
P109	20x40	54.08	0.00	61.27	0.27	0.25
P110	20x40	54.32	0.00	61.20	0.27	0.25
P111	20x40	72.20	0.00	77.08	0.34	0.32
P112	20x40	77.68	0.00	82.77	0.36	0.30
P113	20x30	31.84	0.00	34.60	0.20	0.16
P114	20x30	30.89	0.00	33.71	0.20	0.17
P115	20x40	76.07	0.00	81.04	0.35	0.29
P116	20x40	78.56	0.00	85.02	0.37	0.34
P117	20x40	27.48	0.00	31.96	0.14	0.12
P118	15x40	10.96	0.00	11.31	0.07	0.06
P119	15x40	26.55	0.00	24.90	0.15	0.13
P120	15x40	24.61	0.00	23.10	0.13	0.12
P123	15x40	10.96	0.00	11.32	0.07	0.06
P126	20x40	20.59	0.00	24.23	0.11	0.09
P127	20x40	38.29	0.00	43.04	0.19	0.14

P128	20x40	34.96	0.00	39.47	0.17	0.14
P129	20x40	45.47	0.00	49.74	0.22	0.17
P130	20x40	49.56	0.00	53.91	0.24	0.18
P131	15x50	21.51	0.00	23.94	0.11	0.09
P132	15x50	21.30	0.00	23.71	0.11	0.09
P133	20x40	47.94	0.00	51.96	0.23	0.17
P134	20x40	49.48	0.00	54.07	0.24	0.18
P135	20x40	20.15	0.00	23.74	0.10	0.08
PE-1	15x40	10.96	0.00	11.32	0.07	0.06
PES1	15x40	3.08	0.00	3.08	0.02	0.02
PES2	15x40	3.17	0.00	3.00	0.02	0.02

Resultados da Laje

TÉRREO NV-320	fck = 400.00 kgf/cm²	E = 318758 kgf/cm²	Peso Espec = 2500.00 kgf/m³
Lance 2		cobr = 2.50 cm	

Nome	Espessura (cm)	Carga (kgf/m²)	Mdx (kgf.m/m)	Mdy (kgf.m/m)	Asx	Asy
L101	15	869.28	2587	1126	As = 5.22 cm²/m (ø12.5 c/20 - 6.14 cm²/m)	As = 2.44 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L102	15	886.93	1700	630	As = 3.34 cm²/m (ø10.0 c/20 - 3.93 cm²/m)	As = 1.93 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L103	15	877.12	1705	1032	As = 3.35 cm²/m (ø10.0 c/20 - 3.93 cm²/m)	As = 2.18 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L104	15	869.28	1595	1010	As = 3.13 cm²/m (ø10.0 c/20 - 3.93 cm²/m)	As = 2.13 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L105	15	877.37	2536	1096	As = 5.11 cm²/m (ø12.5 c/20 - 6.14 cm²/m)	As = 2.37 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L106	15	880.41	2288	1556	As = 4.54 cm²/m (ø10.0 c/17 - 4.62 cm²/m)	As = 3.34 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
L107	15	859.93	1333	1347	As = 2.58 cm²/m (ø8.0 c/19 - 2.65 cm²/m)	As = 2.80 cm²/m (ø8.0 c/17 - 2.96 cm²/m)
L108	15	887.18	2444	1521	As = 4.86 cm²/m (ø10.0 c/16 - 4.91 cm²/m)	As = 3.27 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
L109	15	815.00		574	As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L110	15	815.00	265		As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L111	15	815.00	19	353	As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L112	15	815.00	22	273	As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L113	15	815.00	223	987	As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 2.04 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L114	15	815.00		580	As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L115	15	815.00	208		As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L116	15	815.00		535	As = 1.77 cm²/m	As = 1.89 cm²/m

					(ø8.0 c/20 - 2.51 cm²/m)	(ø8.0 c/20 - 2.51 cm²/m)
L117	15	887.51	2565	1267	As = 5.17 cm²/m (ø12.5 c/20 - 6.14 cm²/m)	As = 2.75 cm²/m (ø8.0 c/18 - 2.79 cm²/m)
L118	15	871.27	1131	319	As = 2.19 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L119	15	815.00	1380	1348	As = 2.68 cm²/m (ø8.0 c/18 - 2.79 cm²/m)	As = 2.81 cm²/m (ø8.0 c/17 - 2.96 cm²/m)
L120	15	815.00	771	169	As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L121	15	815.00	719	713	As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L122	15	877.62	2339	1718	As = 4.64 cm²/m (ø10.0 c/16 - 4.91 cm²/m)	As = 3.70 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
L123	15	815.00	1220	1518	As = 2.36 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 3.20 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
L124	15	909.44	2600	1765	As = 5.24 cm²/m (ø12.5 c/20 - 6.14 cm²/m)	As = 3.90 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
L125	15	829.50	990	580	As = 2.30 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L126	15	815.00	378	317	As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L127	15	815.00	230	469	As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L128	15	815.00	1119	758	As = 2.16 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L129	15	815.00	761	388	As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L130	15	815.00	440	579	As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L131	15	859.88	2536	1272	As = 5.11 cm²/m (ø12.5 c/20 - 6.14 cm²/m)	As = 2.76 cm²/m (ø8.0 c/18 - 2.79 cm²/m)
L132	15	825.87	366	346	As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L133	15	815.00	234	492	As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L134	15	815.00	427	618	As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L135	15	878.27	2740	1104	As = 5.54 cm²/m (ø12.5 c/20 - 6.14 cm²/m)	As = 2.39 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L136	15	894.54	1799	572	As = 3.54 cm²/m	As = 1.93 cm²/m

					(ø10.0 c/20 - 3.93 cm²/m)	(ø8.0 c/20 - 2.51 cm²/m)
L137	15	895.80	2807	1152	As = 5.68 cm²/m (ø12.5 c/20 - 6.14 cm²/m)	As = 2.49 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L138	15	907.46	1146	448	As = 2.21 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L139	15	815.00	1383	1347	As = 2.68 cm²/m (ø8.0 c/18 - 2.79 cm²/m)	As = 2.80 cm²/m (ø8.0 c/17 - 2.96 cm²/m)
L140	15	815.00	793	650	As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L141	15	829.50	885	232	As = 2.05 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L142	15	815.00	809	178	As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L143	15	816.54		540	As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L144	15	820.57		275	As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L145	15	820.57	23	345	As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L146	15	820.57	20	305	As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L147	15	820.57	176	837	As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L148	15	820.73		499	As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L149	15	820.57		266	As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L150	15	821.31		536	As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L151	15	885.19	2592	1154	As = 5.23 cm²/m (ø12.5 c/20 - 6.14 cm²/m)	As = 2.50 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L152	15	883.89	1691	658	As = 3.32 cm²/m (ø10.0 c/20 - 3.93 cm²/m)	As = 1.93 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L153	15	875.38	1658	1014	As = 3.26 cm²/m (ø10.0 c/20 - 3.93 cm²/m)	As = 2.14 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L154	15	875.38	1443	1285	As = 2.80 cm²/m (ø8.0 c/17 - 2.96 cm²/m)	As = 2.67 cm²/m (ø8.0 c/18 - 2.79 cm²/m)
L155	15	875.38	2326	1627	As = 4.62 cm²/m (ø10.0 c/17 - 4.62 cm²/m)	As = 3.50 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
L156	15	877.02	2270	1547	As = 4.50 cm²/m	As = 3.32 cm²/m

					(ø10.0 c/17 - 4.62 cm²/m)	(ø10.0 c/20 - 3.93 cm²/m)
L157	15	885.19	1346	1286	As = 2.61 cm²/m (ø8.0 c/19 - 2.65 cm²/m)	As = 2.67 cm²/m (ø8.0 c/18 - 2.79 cm²/m)
L158	15	885.41	2437	1513	As = 4.85 cm²/m (ø10.0 c/16 - 4.91 cm²/m)	As = 3.25 cm²/m (ø10.0 c/20 - 3.93 cm²/m)

ARMADURA NEGATIVA							
Dados				Resultados			
Viga	Trecho	Laje 1	Laje 2	Reação 1 (kgf/m)	Reação 2 (kgf/m)	Md (kgf.m/m)	As (cm²)
V103	2	L101	L109	2038	727	-3157	As = 6.53 cm²/m (ø16.0 c/20 - 10.05 cm²/m)
V103	3	L101	L109	184	901	-805	As = 6.53 cm²/m (ø16.0 c/20 - 10.05 cm²/m)
V129	4	L101	L102	1779	1824	-5137	As = 11.55 cm²/m (ø12.5 c/10 - 12.27 cm²/m)
V129	5	L101	L102	2060	1939	-5442	As = 11.55 cm²/m (ø12.5 c/10 - 12.27 cm²/m)
V134	3	L102	L103	1799	1791	-4592	As = 9.80 cm²/m (ø10.0 c/8 - 9.82 cm²/m)
V103	4	L102	L110	359	727	-683	As = 2.68 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V103	5	L102	L110	1232	636	-1731	As = 2.68 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V134	2	L102	L103	1890	1915	-4740	As = 9.80 cm²/m (ø10.0 c/8 - 9.82 cm²/m)
V104	3	L107	L115	1338	786	-2522	As = 5.02 cm²/m (ø10.0 c/15 - 5.24 cm²/m)
V104	4	L107	L115	728	1034	-1887	As = 5.02 cm²/m (ø10.0 c/15 - 5.24 cm²/m)
V151	3	L107	L108	1856	1942	-3281	As = 6.69 cm²/m (ø12.5 c/18 - 6.82 cm²/m)
V149	3	L107	L106	1870	1945	-3311	As = 6.76 cm²/m (ø12.5 c/18 - 6.82 cm²/m)
V104	6	L108	L116	2273	716	-3225	As = 6.50 cm²/m (ø10.0 c/12 - 6.54 cm²/m)
V104	5	L108	L116	883	1123	-2087	As = 6.50 cm²/m (ø10.0 c/12 - 6.54 cm²/m)
V129	3	L110	L109	263	154	-696	As = 2.68 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V105	3	L110	L118	1005	948	-1691	As = 3.32 cm²/m

							(ø10.0 c/20 - 3.93 cm²/m)
V105	4	L110	L119	1305	1796	-3937	As = 8.12 cm²/m (ø12.5 c/15 - 8.18 cm²/m)
V134	1	L110	L111	-249	-242	-408	As = 2.68 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V149	2	L115	L114	26	-40	-617	As = 2.68 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V107	2	L115	L123	902	1014	-2629	As = 5.24 cm²/m (ø10.0 c/14 - 5.61 cm²/m)
V151	2	L115	L116	81	55	-662	As = 2.68 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V105	2	L117	L109	1938	821	-3196	As = 6.43 cm²/m (ø10.0 c/12 - 6.54 cm²/m)
V129	1	L117	L126	901	1778	-3860	As = 7.95 cm²/m (ø12.5 c/15 - 8.18 cm²/m)
V129	2	L117	L118	2107	1848	-5857	As = 12.76 cm²/m (ø16.0 c/15 - 13.40 cm²/m)
V151	1	L123	L124	1635	1871	-3236	As = 6.52 cm²/m (ø10.0 c/12 - 6.54 cm²/m)
V149	1	L123	L122	1632	1766	-3171	As = 6.46 cm²/m (ø12.5 c/19 - 6.46 cm²/m)
V107	3	L124	L116	1788	845	-3200	As = 6.44 cm²/m (ø10.0 c/12 - 6.54 cm²/m)
V118	2	L131	L143	1722	831	-2940	As = 5.89 cm²/m (ø10.0 c/13 - 6.04 cm²/m)
V128	4	L131	L138	2088	1867	-5869	As = 12.79 cm²/m (ø16.0 c/15 - 13.40 cm²/m)
V128	5	L131	L132	909	1771	-3876	As = 7.99 cm²/m (ø12.5 c/15 - 8.18 cm²/m)
V150	4	L136	L137	2006	2077	-5856	As = 12.76 cm²/m (ø16.0 c/15 - 13.40 cm²/m)
V148	4	L136	L135	1998	2064	-5791	As = 12.60 cm²/m (ø16.0 c/15 - 13.40 cm²/m)
V148	3	L136	L135	1920	1905	-5527	As = 12.60 cm²/m (ø16.0 c/15 - 13.40 cm²/m)
V120	2	L136	L149	874	564	-1730	As = 3.40 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V150	3	L136	L137	1808	1865	-5591	As = 12.76 cm²/m (ø16.0 c/15 - 13.40 cm²/m)
V120	3	L137	L150	1618	686	-2745	As = 5.49 cm²/m

							(ø10.0 c/14 - 5.61 cm²/m)
V121	2	L143	L151	715	2036	-2999	As = 6.02 cm²/m (ø10.0 c/13 - 6.04 cm²/m)
V121	3	L143	L151	925	360	-802	As = 6.02 cm²/m (ø10.0 c/13 - 6.04 cm²/m)
V128	3	L143	L144	150	259	-681	As = 2.68 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V128	2	L151	L152	1813	1804	-4875	As = 11.64 cm²/m (ø16.0 c/17 - 11.83 cm²/m)
V128	1	L151	L152	2140	2004	-5394	As = 11.64 cm²/m (ø16.0 c/17 - 11.83 cm²/m)
V133	2	L152	L153	1753	1726	-4281	As = 9.92 cm²/m (ø16.0 c/20 - 10.05 cm²/m)
V121	5	L152	L144	1195	626	-1733	As = 3.41 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V121	4	L152	L144	172	798	-587	As = 3.41 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V133	1	L152	L153	1933	1962	-4663	As = 9.92 cm²/m (ø16.0 c/20 - 10.05 cm²/m)
V118	4	L144	L139	1331	1804	-3938	As = 8.13 cm²/m (ø12.5 c/15 - 8.18 cm²/m)
V118	3	L144	L138	1014	970	-1722	As = 3.39 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V133	3	L144	L145	-259	-241	-397	As = 2.68 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V118	5	L145	L139	787	1295	-4002	As = 8.27 cm²/m (ø12.5 c/14 - 8.77 cm²/m)
V121	6	L145	L153	901	1366	-2389	As = 4.75 cm²/m (ø10.0 c/16 - 4.91 cm²/m)
V121	7	L145	L153	1304	726	-1804	As = 4.75 cm²/m (ø10.0 c/16 - 4.91 cm²/m)
V135	2	L145	L146	317	289	-661	As = 2.68 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V118	6	L142	L146	657	406	-636	As = 2.68 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V137	3	L142	L140	740	1059	-1393	As = 2.73 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V135	3	L142	L139	680	631	-1010	As = 2.68 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V113	3	L129	L133	636	34	-777	As = 2.68 cm²/m

							(ø10.0 c/20 - 3.93 cm²/m)
V110	3	L129	L127	640	51	-779	As = 2.68 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V135	1	L153	L154	1736	1711	-2829	As = 5.66 cm²/m (ø10.0 c/13 - 6.04 cm²/m)
V137	1	L154	L155	1919	1969	-3515	As = 7.20 cm²/m (ø12.5 c/17 - 7.22 cm²/m)
V121	9	L154	L146	1538	1058	-2710	As = 5.41 cm²/m (ø10.0 c/14 - 5.61 cm²/m)
V121	8	L154	L146	739	1327	-1861	As = 5.41 cm²/m (ø10.0 c/14 - 5.61 cm²/m)
V150	1	L157	L158	1857	1934	-3267	As = 6.66 cm²/m (ø12.5 c/18 - 6.82 cm²/m)
V122	4	L157	L149	692	1392	-1963	As = 5.35 cm²/m (ø10.0 c/14 - 5.61 cm²/m)
V122	3	L157	L149	1532	1030	-2678	As = 5.35 cm²/m (ø10.0 c/14 - 5.61 cm²/m)
V148	1	L157	L156	1893	1956	-3407	As = 6.96 cm²/m (ø12.5 c/17 - 7.22 cm²/m)
V122	6	L158	L150	2262	820	-3208	As = 6.46 cm²/m (ø10.0 c/12 - 6.54 cm²/m)
V122	5	L158	L150	848	1458	-2142	As = 6.46 cm²/m (ø10.0 c/12 - 6.54 cm²/m)
V137	2	L146	L147	411	109	-824	As = 2.68 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V150	2	L149	L150	222	93	-702	As = 2.68 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V148	2	L149	L148	113	47	-604	As = 2.68 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V120	1	L135	L148	1205	667	-2719	As = 5.43 cm²/m (ø10.0 c/14 - 5.61 cm²/m)
V105	5	L111	L119	786	1302	-3978	As = 8.21 cm²/m (ø12.5 c/14 - 8.77 cm²/m)
V136	2	L111	L112	333	357	-685	As = 2.68 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V103	7	L111	L103	1193	898	-1875	As = 4.81 cm²/m (ø10.0 c/16 - 4.91 cm²/m)
V103	6	L111	L103	901	1397	-2421	As = 4.81 cm²/m (ø10.0 c/16 - 4.91 cm²/m)
V138	1	L120	L121	806	1074	-1486	As = 2.91 cm²/m

							(ø10.0 c/20 - 3.93 cm²/m)
V105	6	L120	L112	650	523	-700	As = 2.68 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V136	1	L120	L119	667	623	-999	As = 2.68 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V136	3	L103	L104	1686	1669	-2587	As = 5.16 cm²/m (ø10.0 c/15 - 5.24 cm²/m)
V138	4	L105	L104	2088	2000	-5300	As = 11.07 cm²/m (ø10.0 c/7 - 11.22 cm²/m)
V138	3	L105	L104	1952	1895	-5125	As = 11.07 cm²/m (ø10.0 c/7 - 11.22 cm²/m)
V103	10	L105	L113	1506	939	-2828	As = 5.66 cm²/m (ø10.0 c/13 - 6.04 cm²/m)
V103	11	L105	L113	1786	1381	-2056	As = 5.66 cm²/m (ø10.0 c/13 - 6.04 cm²/m)
V104	1	L106	L114	1223	1123	-1843	As = 6.40 cm²/m (ø10.0 c/12 - 6.54 cm²/m)
V104	2	L106	L114	1893	920	-3180	As = 6.40 cm²/m (ø10.0 c/12 - 6.54 cm²/m)
V107	1	L114	L122	872	1540	-3431	As = 6.93 cm²/m (ø10.0 c/11 - 7.14 cm²/m)
V119	1	L147	L140	727	466	-1789	As = 3.52 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V121	10	L147	L155	1180	1793	-3382	As = 6.91 cm²/m (ø12.5 c/17 - 7.22 cm²/m)
V121	11	L147	L155	1705	2104	-2591	As = 6.91 cm²/m (ø12.5 c/17 - 7.22 cm²/m)
V122	1	L148	L156	1127	1428	-1985	As = 6.44 cm²/m (ø10.0 c/12 - 6.54 cm²/m)
V122	2	L148	L156	1097	1855	-3199	As = 6.44 cm²/m (ø10.0 c/12 - 6.54 cm²/m)
V103	8	L104	L112	605	1143	-1718	As = 4.72 cm²/m (ø10.0 c/16 - 4.91 cm²/m)
V103	9	L104	L112	1317	875	-2375	As = 4.72 cm²/m (ø10.0 c/16 - 4.91 cm²/m)
V138	2	L112	L113	476	166	-846	As = 2.68 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V111	1	L128	L130	1761	1105	-3023	As = 6.07 cm²/m (ø10.0 c/12 - 6.54 cm²/m)
V109	2	L128	L125	-431	372	-320	As = 2.68 cm²/m

							(ø10.0 c/20 - 3.93 cm²/m)
V109	1	L128	L121	-286	362	0	
V130	3	L126	L127	39	-504	-373	As = 2.68 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V108	1	L126	L118	128	-262	-2166	As = 4.29 cm²/m (ø10.0 c/18 - 4.36 cm²/m)
V108	3	L127	L119	1134	585	-1889	As = 3.72 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V108	2	L127	L118	1625	-761	-1734	As = 3.41 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V130	1	L132	L133	38	-527	-385	As = 2.68 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V116	1	L132	L138	154	-100	-2279	As = 4.52 cm²/m (ø10.0 c/17 - 4.62 cm²/m)
V116	2	L133	L138	1688	-773	-1796	As = 3.54 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V116	3	L133	L139	1148	568	-1917	As = 3.78 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V131	1	L138	L139	892	848	-1972	As = 3.89 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V132	1	L118	L119	855	837	-1910	As = 3.77 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V140	1	L125	L121	860	529	-280	As = 2.68 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V106	1	L121	L113	434	1175	-2412	As = 4.79 cm²/m (ø10.0 c/16 - 4.91 cm²/m)
V139	2	L141	L140	140	-28	-2	As = 2.68 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V117	2	L141	L134	826	270	-779	As = 2.68 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V117	1	L140	L134	540	-44	-352	As = 2.68 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V114	1	L130	L134	993	1299	-1548	As = 3.04 cm²/m (ø10.0 c/20 - 3.93 cm²/m)

Resultados da Escada

TÉRREO NV-320	fck = 400.00 kgf/cm²	E = 318758 kgf/cm²	Peso Espec = 2500.00 kgf/m³
Lance 2		cobr = 2.50 cm	

ESCADA: E1

ARMADURAS NA LAJE								
Esforços					**Resultados**			
Trecho	**Ndx Rdx (tf)**	**Ndy Rdy (tf)**	**Mdx (kgf.m/m)**	**Mdy (kgf.m/m)**	**Armadura inferior**		**Armadura superior**	
					Asx	**Asy**	**Asx**	**Asy**
LE1	42.63 -4.72	4.49 -0.47	3401	578	As = 6.62 cm²/m ø12.5 c/18 (6.82 cm²/m)	As = 1.59 cm²/m ø8.0 c/25 (2.01 cm²/m)		A's = 2.91 cm²/m ø8.0 c/17 (2.96 cm²/m)
LE2	7.50 -2.89	4.84 -8.98	3734	368	As = 5.69 cm²/m ø12.5 c/20 (6.14 cm²/m)	As = 1.96 cm²/m ø8.0 c/25 (2.01 cm²/m)	A's = 5.09 cm²/m ø12.5 c/20 (6.14 cm²/m)	A's = 2.95 cm²/m ø8.0 c/17 (2.96 cm²/m)
LE3	17.26 -25.17	0.00 -8.63	3989	572	As = 11.12 cm²/m ø16.0 c/18 (11.17 cm²/m)	As = 2.70 cm²/m ø10.0 c/25 (3.14 cm²/m)	A's = 4.38 cm²/m ø10.0 c/17 (4.62 cm²/m)	A's = 4.19 cm²/m ø10.0 c/18 (4.36 cm²/m)

ARMADURAS NA CONTINUIDADE					
Viga Trecho	**Laje 1 Laje 2**	**Momentos fletores (kgf.m/m)**		**Armaduras**	
		Md negativo	**Md positivo**	**As (superior)**	**A's (inferior)**
Barra	LE2 LE3	-437	3505	As = 2.94 cm²/m ø10.0 c/20 (3.93 cm²/m)	A's = 6.07 cm²/m ø10.0 c/12 (6.54 cm²/m)
Barra	LE2 LE1	-4542	3014	As = 8.55 cm²/m ø10.0 c/9 (8.73 cm²/m)	A's = 5.83 cm²/m ø10.0 c/13 (6.04 cm²/m)

ESCADA: E2

ARMADURAS NA LAJE	
Esforços	**Resultados**

Trecho	Ndx Rdx (tf)	Ndy Rdy (tf)	Mdx (kgf.m/m)	Mdy (kgf.m/m)	Armadura inferior		Armadura superior	
					Asx	Asy	Asx	Asy
LE4	75.35 -3.70	6.92 -1.23	2875	456	As = 5.52 cm²/m ø12.5 c/20 (6.14 cm²/m)	As = 1.59 cm²/m ø8.0 c/25 (2.01 cm²/m)		A's = 2.35 cm²/m ø8.0 c/20 (2.51 cm²/m)
LE5	16.80 -4.90	4.27 -6.33	6278	440	As = 9.84 cm²/m ø16.0 c/20 (10.05 cm²/m)	As = 1.97 cm²/m ø8.0 c/25 (2.01 cm²/m)	A's = 4.42 cm²/m ø10.0 c/17 (4.62 cm²/m)	A's = 2.48 cm²/m ø8.0 c/20 (2.51 cm²/m)
LE6	19.31 -25.31	0.00 -3.88	5987	482	As = 14.78 cm²/m ø16.0 c/13 (15.47 cm²/m)	As = 2.96 cm²/m ø10.0 c/25 (3.14 cm²/m)	A's = 4.53 cm²/m ø10.0 c/17 (4.62 cm²/m)	A's = 2.73 cm²/m ø8.0 c/18 (2.79 cm²/m)

ARMADURAS NA CONTINUIDADE					
Viga Trecho	Laje 1 Laje 2	Momentos fletores (kgf.m/m)		Armaduras	
		Md negativo	Md positivo	As (superior)	A's (inferior)
Barra	LE5 LE6	-946	5742	As = 3.16 cm²/m ø10.0 c/20 (3.93 cm²/m)	A's = 11.55 cm²/m ø12.5 c/10 (12.27 cm²/m)
Barra	LE5 LE4	-3818	1298	As = 7.13 cm²/m ø10.0 c/11 (7.14 cm²/m)	A's = 2.94 cm²/m ø10.0 c/20 (3.93 cm²/m)

Pavimento SUPERIOR NV-640

Quadro de Cargas e Taxa de Compressão Permanente nos Pilares

SUPERIOR NV-640						
Pilares	**Seção (cm)**	**Nmáx (tf)**	**Nmin (tf)**	**Nperm (tf)**	**Taxa de compressão (bruta)**	**Taxa de compressão (homogeneizada)**
P1	20x40	11.99	0.00	14.87	0.07	0.06
P3	20x40	13.85	0.00	16.95	0.07	0.07
P5	20x40	13.09	0.00	16.02	0.07	0.07
P7	20x40	20.36	0.00	24.73	0.11	0.08
P8	20x40	15.70	0.00	19.20	0.08	0.08
P9	15x50	6.17	0.00	7.64	0.04	0.03
P10	15x50	9.81	0.00	11.97	0.06	0.05
P11	20x40	20.93	0.00	25.23	0.11	0.08
P12	20x40	21.02	0.00	25.31	0.11	0.08
P13	20x40	11.97	0.00	14.86	0.07	0.05
P16	15x40	16.75	0.00	19.38	0.11	0.10
P18	15x40	15.70	0.00	18.29	0.11	0.09
P20	15x40	18.78	0.00	22.30	0.13	0.11
P21	15x40	7.90	0.00	9.32	0.05	0.05
P23	20x40	15.29	0.00	18.71	0.08	0.07
P27	20x40	15.19	0.00	18.16	0.08	0.07
P31	20x40	10.14	0.00	11.30	0.05	0.05
P34	20x40	22.13	0.00	26.33	0.12	0.09
P36	20x40	13.78	0.00	16.78	0.07	0.06
P37	20x40	13.75	0.00	16.64	0.07	0.06
P38	20x40	21.25	0.00	25.44	0.11	0.10
P39	20x40	10.72	0.00	12.85	0.06	0.05
P40	20x40	14.18	0.00	17.73	0.08	0.07
P41	20x40	33.22	0.00	42.55	0.19	0.17
P42	20x40	35.41	0.00	44.49	0.19	0.15
P43	15x50	10.04	0.00	11.81	0.06	0.05
P44	15x50	12.85	0.00	15.42	0.07	0.06
P45	20x40	28.43	0.00	33.65	0.15	0.12
P46	20x40	26.48	0.00	31.54	0.14	0.11
P47	20x40	14.79	0.00	18.04	0.08	0.07
P57	15x50	14.37	0.00	16.59	0.08	0.07
P58	20x40	24.81	0.00	31.42	0.14	0.12
P61	20x40	14.62	0.00	18.26	0.08	0.07
P62	20x40	6.96	0.00	8.56	0.04	0.04
P63	15x40	7.94	0.00	10.02	0.06	0.05
P64	60x60	34.42	0.00	43.43	0.04	0.04
P65	20x30	9.10	0.00	11.19	0.07	0.05
P66	20x40	20.76	0.00	25.24	0.11	0.08
P67	20x40	21.21	0.00	25.77	0.11	0.08
P68	20x40	13.80	0.00	17.15	0.08	0.06
P73	20x40	14.36	0.00	17.89	0.08	0.06
P74	20x40	7.40	0.00	9.06	0.04	0.04
P75	15x40	7.48	0.00	9.42	0.05	0.05
P76	60x60	30.61	0.00	39.22	0.04	0.03
P77	15x60	4.92	0.00	5.69	0.02	0.02

P78	20x40	21.18	0.00	25.81	0.11	0.09
P79	20x40	21.57	0.00	26.29	0.12	0.10
P80	20x40	13.69	0.00	17.05	0.07	0.06
P81	15x50	13.84	0.00	16.01	0.07	0.07
P82	20x40	27.38	0.00	34.80	0.15	0.14
P83	15x50	2.65	0.00	3.24	0.02	0.01
P84	15x50	7.58	0.00	8.84	0.04	0.04
P97	20x40	15.07	0.00	18.51	0.08	0.07
P98	20x40	16.70	0.00	20.21	0.09	0.08
P99	20x40	14.45	0.00	17.70	0.08	0.07
P100	20x40	10.20	0.00	13.13	0.06	0.05
P101	20x40	31.60	0.00	40.57	0.18	0.16
P102	20x40	31.30	0.00	39.16	0.17	0.15
P103	15x50	8.71	0.00	10.20	0.05	0.04
P104	15x50	9.96	0.00	11.93	0.06	0.05
P105	20x40	28.70	0.00	33.67	0.15	0.13
P106	20x40	28.65	0.00	33.83	0.15	0.14
P107	20x40	14.51	0.00	17.71	0.08	0.07
P108	20x40	13.99	0.00	16.92	0.07	0.06
P110	20x40	27.46	0.00	32.45	0.14	0.13
P112	20x40	23.87	0.00	28.02	0.12	0.10
P115	20x40	22.11	0.00	26.45	0.12	0.10
P117	20x40	14.04	0.00	17.03	0.07	0.06
P126	20x40	11.98	0.00	14.88	0.07	0.05
P127	20x40	21.21	0.00	25.61	0.11	0.08
P128	20x40	19.38	0.00	23.43	0.10	0.08
P129	20x40	20.80	0.00	25.22	0.11	0.09
P130	20x40	22.12	0.00	26.79	0.12	0.09
P131	15x50	10.07	0.00	12.27	0.06	0.05
P132	15x50	9.91	0.00	12.09	0.06	0.05
P133	20x40	21.09	0.00	25.39	0.11	0.08
P134	20x40	21.13	0.00	25.42	0.11	0.08
P135	20x40	12.04	0.00	14.94	0.07	0.05
P136	20x40	9.35	0.00	11.68	0.05	0.05
P137	20x40	7.72	0.00	9.02	0.04	0.04
P138	20x40	13.38	0.00	16.16	0.07	0.07
P139	20x40	10.82	0.00	12.65	0.06	0.05
P140	20x40	6.28	0.00	8.19	0.04	0.03
P141	20x40	11.55	0.00	14.22	0.06	0.06
P142	20x40	14.59	0.00	17.27	0.08	0.07
P143	20x40	13.87	0.00	16.85	0.07	0.07
P144	20x40	16.04	0.00	19.46	0.09	0.08
P145	20x40	14.10	0.00	16.33	0.07	0.07
P146	20x40	14.21	0.00	17.10	0.07	0.07
P147	20x40	12.07	0.00	14.17	0.06	0.06
P148	20x40	12.09	0.00	15.07	0.07	0.06
P149	20x40	12.26	0.00	15.11	0.07	0.06
P150	20x40	13.16	0.00	15.70	0.07	0.06
P151	20x40	12.99	0.00	15.94	0.07	0.06

Resultados da Laje

SUPERIOR NV-640	fck = 400.00 kgf/cm²	E = 318758 kgf/cm²	Peso Espec = 2500.00 kgf/m³
Lance 3		cobr = 2.50 cm	

Nome	Espessura (cm)	Carga (kgf/m²)	Mdx (kgf.m/m)	Mdy (kgf.m/m)	Asx	Asy
L201	15	525.00	6	797	As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L202	15	525.00	112	528	As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L203	15	525.00	952	1308	As = 1.83 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 2.72 cm²/m (ø8.0 c/18 - 2.79 cm²/m)
L204	15	525.00	450	1059	As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 2.19 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L205	15	525.00	84	291	As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L206	15	525.00	981	991	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 2.05 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L207	15	525.00	89	318	As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L208	15	525.00	37	234	As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L209	15	525.00	959	982	As = 1.85 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 2.03 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L210	15	525.00	17	519	As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L211	15	525.00	1516	654	As = 2.95 cm²/m (ø8.0 c/17 - 2.96 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L212	15	525.00	60	563	As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L213	15	525.00	1225	1419	As = 2.37 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 2.96 cm²/m (ø8.0 c/17 - 2.96 cm²/m)
L214	15	525.00	1478	642	As = 2.87 cm²/m (ø8.0 c/17 - 2.96 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L215	15	525.00	25	219	As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L216	15	525.00	1456	1097	As = 2.83 cm²/m	As = 2.27 cm²/m

					(ø8.0 c/17 - 2.96 cm²/m)	(ø8.0 c/20 - 2.51 cm²/m)
L217	15	525.00	25	556	As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L218	15	525.00	4	829	As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L219	15	525.00	8	760	As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L220	15	525.00		544	As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L221	15	525.00	46	109	As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L222	15	525.00		167	As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L223	15	525.00	71	484	As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L224	15	525.00	298	718	As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L225	15	525.00	61	214	As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L226	15	525.00	319	123	As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L227	15	525.00	497		As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L228	15	525.00		284	As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L229	15	525.00		521	As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L230	15	525.00	1		As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L231	15	525.00	1018	1388	As = 1.96 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 2.89 cm²/m (ø8.0 c/17 - 2.96 cm²/m)
L232	15	525.00	133	735	As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L233	10	400.00	164	5	As = 1.33 cm²/m (ø6.3 c/20 - 1.56 cm²/m)	As = 1.46 cm²/m (ø6.3 c/20 - 1.56 cm²/m)
L234	10	400.00	195	204	As = 1.33 cm²/m (ø6.3 c/20 - 1.56 cm²/m)	As = 1.46 cm²/m (ø6.3 c/20 - 1.56 cm²/m)
L235	10	400.00	161	169	As = 1.33 cm²/m (ø6.3 c/20 - 1.56 cm²/m)	As = 1.46 cm²/m (ø6.3 c/20 - 1.56 cm²/m)
L236	10	400.00	134	175	As = 1.33 cm²/m	As = 1.46 cm²/m

					(ø6.3 c/20 - 1.56 cm²/m)	(ø6.3 c/20 - 1.56 cm²/m)
L237	10	400.00	100	192	As = 1.33 cm²/m (ø6.3 c/20 - 1.56 cm²/m)	As = 1.46 cm²/m (ø6.3 c/20 - 1.56 cm²/m)
L238	10	400.00	102	174	As = 1.33 cm²/m (ø6.3 c/20 - 1.56 cm²/m)	As = 1.46 cm²/m (ø6.3 c/20 - 1.56 cm²/m)
L239	10	400.00	175	180	As = 1.33 cm²/m (ø6.3 c/20 - 1.56 cm²/m)	As = 1.46 cm²/m (ø6.3 c/20 - 1.56 cm²/m)
L240	15	525.00	1253	1552	As = 2.43 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 3.27 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
L241	15	525.00	1625	611	As = 3.19 cm²/m (ø10.0 c/20 - 3.93 cm²/m)	As = 1.93 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L242	15	525.00	1540	1139	As = 2.99 cm²/m (ø8.0 c/16 - 3.14 cm²/m)	As = 2.36 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L243	15	525.00	9	782	As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L244	10	400.00	121	30	As = 1.33 cm²/m (ø6.3 c/20 - 1.56 cm²/m)	As = 1.46 cm²/m (ø6.3 c/20 - 1.56 cm²/m)
L245	10	400.00	133	68	As = 1.33 cm²/m (ø6.3 c/20 - 1.56 cm²/m)	As = 1.46 cm²/m (ø6.3 c/20 - 1.56 cm²/m)
L246	15	525.00	419		As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L247	10	400.00	162	35	As = 1.33 cm²/m (ø6.3 c/20 - 1.56 cm²/m)	As = 1.46 cm²/m (ø6.3 c/20 - 1.56 cm²/m)
L248	15	525.00	898		As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L249	15	525.00	11	528	As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L250	15	525.00		188	As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L251	10	400.00	239	360	As = 1.33 cm²/m (ø6.3 c/20 - 1.56 cm²/m)	As = 1.46 cm²/m (ø6.3 c/20 - 1.56 cm²/m)
L252	15	525.00	158	656	As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L253	15	525.00	9	390	As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L254	15	525.00	6	212	As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L255	15	525.00	8	624	As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L256	15	525.00	1045		As = 2.65 cm²/m	As = 1.41 cm²/m

					(ø8.0 c/18 - 2.79 cm²/m)	(ø8.0 c/25 - 2.01 cm²/m)
L257	15	525.00	53	782	As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L258	15	525.00	1012	1390	As = 1.95 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 2.90 cm²/m (ø8.0 c/17 - 2.96 cm²/m)
L259	15	525.00	11	524	As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L260	15	525.00		156	As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L261	15	525.00	414		As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L262	10	400.00	131	28	As = 1.33 cm²/m (ø6.3 c/20 - 1.56 cm²/m)	As = 1.46 cm²/m (ø6.3 c/20 - 1.56 cm²/m)
L263	10	400.00	80	126	As = 1.33 cm²/m (ø6.3 c/20 - 1.56 cm²/m)	As = 1.46 cm²/m (ø6.3 c/20 - 1.56 cm²/m)
L264	10	400.00	205	166	As = 1.33 cm²/m (ø6.3 c/20 - 1.56 cm²/m)	As = 1.46 cm²/m (ø6.3 c/20 - 1.56 cm²/m)
L265	15	525.00	1	401	As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L266	15	525.00	1375	1522	As = 2.67 cm²/m (ø8.0 c/18 - 2.79 cm²/m)	As = 3.21 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
L267	15	525.00	1650	626	As = 3.24 cm²/m (ø10.0 c/20 - 3.93 cm²/m)	As = 1.93 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L268	15	525.00	18	220	As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L269	15	525.00	80	713	As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L270	15	525.00	1565	1131	As = 3.04 cm²/m (ø8.0 c/16 - 3.14 cm²/m)	As = 2.35 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L271	15	525.00	9	782	As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L272	15	525.00	681	144	As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L273	10	400.00	141	19	As = 1.33 cm²/m (ø6.3 c/20 - 1.56 cm²/m)	As = 1.46 cm²/m (ø6.3 c/20 - 1.56 cm²/m)
L274	10	400.00	122	40	As = 1.33 cm²/m (ø6.3 c/20 - 1.56 cm²/m)	As = 1.46 cm²/m (ø6.3 c/20 - 1.56 cm²/m)
L275	10	400.00	117	174	As = 1.33 cm²/m (ø6.3 c/20 - 1.56 cm²/m)	As = 1.46 cm²/m (ø6.3 c/20 - 1.56 cm²/m)
L276	10	400.00	174	152	As = 1.33 cm²/m	As = 1.46 cm²/m

					(ø6.3 c/20 - 1.56 cm²/m)	(ø6.3 c/20 - 1.56 cm²/m)
L277	10	400.00	145	188	As = 1.33 cm²/m (ø6.3 c/20 - 1.56 cm²/m)	As = 1.46 cm²/m (ø6.3 c/20 - 1.56 cm²/m)
L278	10	400.00	122	170	As = 1.33 cm²/m (ø6.3 c/20 - 1.56 cm²/m)	As = 1.46 cm²/m (ø6.3 c/20 - 1.56 cm²/m)
L279	10	400.00	211	145	As = 1.33 cm²/m (ø6.3 c/20 - 1.56 cm²/m)	As = 1.46 cm²/m (ø6.3 c/20 - 1.56 cm²/m)
L280	15	525.00	48	833	As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L281	15	525.00		509	As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L282	15	525.00	6	460	As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L283	15	525.00		257	As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L284	15	525.00	51	458	As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L285	15	525.00	235	746	As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L286	15	525.00		262	As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L287	15	525.00	135	320	As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L288	15	525.00		465	As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L289	15	525.00		295	As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L290	15	525.00		521	As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L291	15	525.00	1		As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L292	15	525.00	1447	1116	As = 2.81 cm²/m (ø8.0 c/17 - 2.96 cm²/m)	As = 2.31 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L293	15	525.00	1425	664	As = 2.76 cm²/m (ø8.0 c/18 - 2.79 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L294	15	525.00	762	1322	As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 2.75 cm²/m (ø8.0 c/18 - 2.79 cm²/m)
L295	15	525.00	737	1231	As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 2.56 cm²/m (ø8.0 c/19 - 2.65 cm²/m)
L296	15	525.00	1252	1318	As = 2.42 cm²/m	As = 2.74 cm²/m

					(ø8.0 c/20 - 2.51 cm²/m)	(ø8.0 c/18 - 2.79 cm²/m)
L297	15	525.00	1211	1428	As = 2.34 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 2.98 cm²/m (ø8.0 c/16 - 3.14 cm²/m)
L298	15	525.00	1481	641	As = 2.88 cm²/m (ø8.0 c/17 - 2.96 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L299	15	525.00	1461	1098	As = 2.84 cm²/m (ø8.0 c/17 - 2.96 cm²/m)	As = 2.28 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L300	15	525.00	4	830	As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L301	15	525.00	30	560	As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L302	15	525.00	28	260	As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L303	15	525.00	13	325	As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L304	15	525.00	16	246	As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L305	15	525.00	44	576	As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L306	15	525.00	58	563	As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L307	15	525.00	25	219	As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)
L308	15	525.00	25	556	As = 1.77 cm²/m (ø8.0 c/20 - 2.51 cm²/m)	As = 1.89 cm²/m (ø8.0 c/20 - 2.51 cm²/m)

ARMADURA NEGATIVA							
Dados				Resultados			
Viga	**Trecho**	**Laje 1**	**Laje 2**	**Reação 1 (kgf/m)**	**Reação 2 (kgf/m)**	**Md (kgf.m/m)**	**As (cm²)**
V208	1	L203	L220	1025	635	-1730	As = 3.40 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V208	2	L203	L220	1109	649	-1319	As = 3.40 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V249	5	L203	L204	892	1052	-3378	As = 7.02 cm²/m (ø16.0 c/20 - 10.05 cm²/m)
V249	6	L203	L204	1455	1338	-3537	As = 7.02 cm²/m (ø16.0 c/20 - 10.05 cm²/m)
V203	1	L203	L202	539	356	-397	As = 2.68 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V245	3	L203	L201	716	283	-648	As = 2.68 cm²/m

							(ø10.0 c/20 - 3.93 cm²/m)
V208	3	L204	L221	458	-56	-699	As = 2.68 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V208	4	L204	L222	596	250	-819	As = 2.68 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V258	2	L204	L206	1243	1216	-3187	As = 6.60 cm²/m (ø16.0 c/20 - 10.05 cm²/m)
V258	3	L204	L206	1233	1276	-3186	As = 6.60 cm²/m (ø16.0 c/20 - 10.05 cm²/m)
V209	4	L214	L228	2166	-521	-3143	As = 5.46 cm²/m (ø16.0 c/20 - 10.05 cm²/m)
V283	3	L214	L216	810	804	-1537	As = 3.01 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V204	2	L214	L215	364	424	-275	As = 2.68 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V279	3	L214	L213	1129	1173	-1510	As = 2.96 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V209	3	L214	L228	930	330	-2663	As = 5.46 cm²/m (ø16.0 c/20 - 10.05 cm²/m)
V204	3	L216	L217	538	368	-386	As = 2.68 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V209	5	L216	L229	2461	-49	-3428	As = 7.13 cm²/m (ø16.0 c/20 - 10.05 cm²/m)
V209	6	L216	L229	1242	657	-3088	As = 7.13 cm²/m (ø16.0 c/20 - 10.05 cm²/m)
V288	3	L216	L218	719	352	-450	As = 2.68 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V249	4	L220	L221	298	613	-753	As = 2.68 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V245	2	L220	L219	387	144	-281	As = 2.68 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V211	1	L220	L231	333	816	-1504	As = 2.95 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V279	2	L228	L227	867	941	-958	As = 2.68 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V212	2	L228	L241	384	685	-2015	As = 3.98 cm²/m (ø10.0 c/19 - 4.13 cm²/m)
V283	2	L228	L229	874	787	-983	As = 2.68 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V212	3	L229	L242	313	859	-1859	As = 3.66 cm²/m

							(ø10.0 c/20 - 3.93 cm²/m)
V288	2	L229	L230	202	130	-459	As = 2.68 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V216	2	L231	L249	559	131	-2051	As = 4.10 cm²/m (ø12.5 c/20 - 6.14 cm²/m)
V249	2	L231	L246	1673	1895	-3235	As = 6.59 cm²/m (ø12.5 c/18 - 6.82 cm²/m)
V249	3	L231	L232	1282	1187	-3566	As = 7.31 cm²/m (ø12.5 c/16 - 7.67 cm²/m)
V245	1	L231	L219	605	313	-242	As = 2.68 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V216	1	L231	L248	2040	3086	-2415	As = 4.85 cm²/m (ø12.5 c/20 - 6.14 cm²/m)
V279	1	L241	L240	1065	1139	-1464	As = 2.87 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V220	2	L241	L254	595	69	-422	As = 2.68 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V283	1	L241	L242	1066	1132	-1478	As = 2.90 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V220	3	L242	L255	845	150	-2155	As = 4.31 cm²/m (ø12.5 c/20 - 6.14 cm²/m)
V220	4	L242	L256	1443	2376	-2062	As = 4.12 cm²/m (ø12.5 c/20 - 6.14 cm²/m)
V288	1	L242	L243	591	307	-314	As = 2.68 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V248	4	L258	L261	1821	1674	-3412	As = 6.97 cm²/m (ø12.5 c/17 - 7.22 cm²/m)
V223	2	L258	L259	539	130	-2047	As = 4.09 cm²/m (ø12.5 c/20 - 6.14 cm²/m)
V223	1	L258	L248	2025	3080	-2411	As = 4.85 cm²/m (ø12.5 c/20 - 6.14 cm²/m)
V244	3	L258	L257	583	323	-351	As = 2.68 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V231	1	L258	L281	854	227	-1491	As = 2.92 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V248	3	L258	L272	1303	1118	-3749	As = 7.71 cm²/m (ø12.5 c/15 - 8.18 cm²/m)
V282	3	L267	L270	837	885	-1372	As = 2.68 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V227	2	L267	L268	584	-29	-514	As = 2.68 cm²/m

							(ø10.0 c/20 - 3.93 cm²/m)
V278	3	L267	L266	1066	1135	-1432	As = 2.80 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V232	2	L267	L289	983	563	-2035	As = 4.02 cm²/m (ø10.0 c/19 - 4.13 cm²/m)
V227	4	L270	L256	1508	2723	-2134	As = 4.27 cm²/m (ø12.5 c/20 - 6.14 cm²/m)
V227	3	L270	L269	842	74	-2220	As = 4.45 cm²/m (ø12.5 c/20 - 6.14 cm²/m)
V232	3	L270	L290	1182	514	-1908	As = 3.76 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V287	3	L270	L271	584	312	-323	As = 2.68 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V248	2	L281	L282	453	924	-835	As = 2.68 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V244	2	L281	L280	311	355	-291	As = 2.68 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V234	1	L281	L292	758	1224	-3100	As = 7.09 cm²/m (ø12.5 c/17 - 7.22 cm²/m)
V234	2	L281	L292	495	2506	-3463	As = 7.09 cm²/m (ø12.5 c/17 - 7.22 cm²/m)
V235	4	L289	L298	-629	2192	-3146	As = 5.45 cm²/m (ø16.0 c/20 - 10.05 cm²/m)
V282	2	L289	L290	501	409	-790	As = 2.68 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V278	2	L289	L288	853	953	-958	As = 2.68 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V235	3	L289	L298	318	927	-2655	As = 5.45 cm²/m (ø16.0 c/20 - 10.05 cm²/m)
V235	5	L290	L299	-185	2480	-3425	As = 7.12 cm²/m (ø16.0 c/20 - 10.05 cm²/m)
V235	6	L290	L299	626	1239	-3072	As = 7.12 cm²/m (ø16.0 c/20 - 10.05 cm²/m)
V287	2	L290	L291	196	131	-465	As = 2.68 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V239	1	L292	L301	550	377	-391	As = 2.68 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V248	1	L292	L293	812	748	-1574	As = 3.09 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V244	1	L292	L280	734	427	-300	As = 2.68 cm²/m

							(ø10.0 c/20 - 3.93 cm²/m)
V239	2	L293	L302	368	410	-266	As = 2.68 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V257	1	L293	L294	1119	1109	-1386	As = 2.71 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V234	4	L293	L283	906	628	-3199	As = 6.44 cm²/m (ø10.0 c/12 - 6.54 cm²/m)
V234	3	L293	L282	2790	111	-4127	As = 8.54 cm²/m (ø12.5 c/14 - 8.77 cm²/m)
V282	1	L298	L299	807	802	-1537	As = 3.01 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V278	1	L298	L297	1131	1174	-1514	As = 2.97 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V240	2	L298	L307	363	425	-275	As = 2.68 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V240	3	L299	L308	538	368	-386	As = 2.68 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V287	1	L299	L300	720	353	-448	As = 2.68 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V222	1	L248	L257	1730	1292	-1471	As = 2.91 cm²/m (ø12.5 c/20 - 6.14 cm²/m)
V246	1	L248	L259	-2914	-1267	0	
V246	4	L248	L249	-2929	-1281	0	
V215	1	L248	L219	1764	1304	-1481	As = 2.93 cm²/m (ø12.5 c/20 - 6.14 cm²/m)
V207	1	L219	L201	2150	1885	-1801	As = 3.55 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V247	1	L301	L302	424	444	-828	As = 2.68 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V256	1	L302	L303	962	1230	-698	As = 2.68 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V277	1	L307	L306	1095	669	-928	As = 2.68 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V281	1	L307	L308	1186	1599	-915	As = 2.68 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V242	1	L308	L300	664	666	-651	As = 2.71 cm²/m (ø12.5 c/20 - 6.14 cm²/m)
V236	1	L300	L291	1141	1228	-1429	As = 2.80 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V233	1	L291	L271	1638	1094	-1213	As = 2.71 cm²/m

							(ø12.5 c/20 - 6.14 cm²/m)
V228	1	L271	L256	863	1830	-1341	As = 2.71 cm²/m (ø12.5 c/20 - 6.14 cm²/m)
V221	1	L256	L243	1865	919	-1353	As = 2.71 cm²/m (ø12.5 c/20 - 6.14 cm²/m)
V285	4	L256	L255	-2579	-1359	0	
V285	1	L256	L269	-3119	-1829	0	
V213	1	L243	L230	1117	1647	-1216	As = 2.68 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V210	1	L230	L218	1212	1142	-1427	As = 2.79 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V206	1	L218	L217	669	662	-652	As = 2.68 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V284	1	L215	L217	1181	1603	-916	As = 2.68 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V280	1	L215	L212	1098	705	-940	As = 2.68 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V201	1	L202	L201	427	921	-745	As = 2.68 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V283B	1	L254	L255	3058	3303	-1798	As = 3.64 cm²/m (ø16.0 c/20 - 10.05 cm²/m)
V279B	1	L254	L253	3561	3164	-1636	As = 3.30 cm²/m (ø16.0 c/20 - 10.05 cm²/m)
V278B	1	L268	L265	4658	4744	-2151	As = 4.38 cm²/m (ø16.0 c/20 - 10.05 cm²/m)
V282B	1	L268	L269	3711	3943	-2019	As = 4.10 cm²/m (ø16.0 c/20 - 10.05 cm²/m)
V249	1	L249	L250	1596	2662	-1195	As = 2.68 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V248	5	L259	L260	1589	2580	-1157	As = 2.68 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V252	4	L250	L251	951	2971	-1192	As = 4.13 cm²/m (ø10.0 c/19 - 4.13 cm²/m)
V216	3	L250	L246	376	97	-354	As = 2.68 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V223	3	L260	L261	346	106	-336	As = 2.68 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V252	1	L260	L251	914	2818	-1127	As = 3.90 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V239	3	L294	L303	385	377	-259	As = 2.68 cm²/m

							(ø10.0 c/20 - 3.93 cm²/m)
V261	1	L294	L295	619	842	-1656	As = 3.25 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V234	6	L294	L285	3871	389	-4590	As = 9.58 cm²/m (ø12.5 c/12 - 10.23 cm²/m)
V234	5	L294	L284	874	1274	-3374	As = 6.89 cm²/m (ø12.5 c/17 - 7.22 cm²/m)
V239	4	L295	L304	416	371	-262	As = 2.68 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V265	1	L295	L296	1147	1175	-1761	As = 3.46 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V234	8	L295	L286	851	444	-2264	As = 4.61 cm²/m (ø16.0 c/20 - 10.05 cm²/m)
V234	7	L295	L286	1865	-513	-2583	As = 4.61 cm²/m (ø16.0 c/20 - 10.05 cm²/m)
V239	5	L296	L305	505	397	-341	As = 2.68 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V234	10	L296	L287	3146	2457	-3031	As = 6.26 cm²/m (ø16.0 c/20 - 10.05 cm²/m)
V234	9	L296	L287	1027	784	-2789	As = 6.26 cm²/m (ø16.0 c/20 - 10.05 cm²/m)
V235	2	L297	L288	1187	607	-2928	As = 6.03 cm²/m (ø16.0 c/20 - 10.05 cm²/m)
V235	1	L297	L288	2454	2363	-2438	As = 6.03 cm²/m (ø16.0 c/20 - 10.05 cm²/m)
V240	1	L297	L306	458	416	-344	As = 2.68 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V232	1	L288	L266	241	757	-1820	As = 3.58 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V231	7	L287	L278	-65	188	-385	As = 2.05 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V265	2	L287	L286	1133	878	-786	As = 2.68 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V231	6	L286	L277	152	615	-1051	As = 3.62 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V261	2	L286	L285	1206	1765	-1403	As = 2.75 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V223	4	L251	L262	-132	17	-247	As = 2.05 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V216	4	L251	L247	-166	-52	-235	As = 2.05 cm²/m

							(ø10.0 c/20 - 3.93 cm²/m)
V265	3	L277	L275	316	-73	-327	As = 2.05 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V261	3	L277	L276	175	348	-359	As = 2.05 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V227	1	L266	L265	629	276	-413	As = 2.68 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V203	3	L207	L206	332	425	-275	As = 2.68 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V263	1	L207	L208	2267	2089	-973	As = 2.68 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V208	6	L206	L224	3810	304	-4295	As = 8.92 cm²/m (ø12.5 c/13 - 9.44 cm²/m)
V262	3	L206	L209	538	751	-1118	As = 2.68 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V208	5	L206	L223	777	1096	-3106	As = 6.24 cm²/m (ø10.0 c/12 - 6.54 cm²/m)
V203	4	L208	L209	342	413	-285	As = 2.68 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V267	1	L208	L210	746	1940	-1043	As = 2.68 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V208	8	L209	L225	728	390	-2069	As = 4.69 cm²/m (ø10.0 c/16 - 4.91 cm²/m)
V266	3	L209	L211	1260	1226	-3260	As = 6.76 cm²/m (ø16.0 c/20 - 10.05 cm²/m)
V266	4	L209	L211	1409	1467	-3357	As = 6.76 cm²/m (ø16.0 c/20 - 10.05 cm²/m)
V208	7	L209	L225	1837	-628	-2363	As = 4.69 cm²/m (ø10.0 c/16 - 4.91 cm²/m)
V203	5	L210	L211	356	465	-348	As = 2.68 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V208	10	L211	L226	1063	925	-1748	As = 3.61 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V208	9	L211	L226	818	658	-1835	As = 3.61 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V204	1	L212	L213	415	459	-343	As = 2.68 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V209	2	L213	L227	1186	574	-2712	As = 3.59 cm²/m (ø12.5 c/20 - 6.14 cm²/m)
V209	1	L213	L227	621	484	-1806	As = 3.59 cm²/m

							(ø12.5 c/20 - 6.14 cm²/m)
V260	1	L303	L304	1164	1090	-658	As = 2.68 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V264	1	L304	L305	1564	2042	-1089	As = 2.68 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V220	1	L253	L240	262	754	-584	As = 2.68 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V262	2	L225	L224	1305	1785	-1411	As = 2.76 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V211	6	L225	L236	271	623	-1079	As = 3.72 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V266	2	L225	L226	639	981	-989	As = 2.68 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V266	1	L236	L237	320	-44	-346	As = 2.05 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V262	1	L236	L235	174	352	-360	As = 2.05 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V211	7	L226	L238	128	185	-566	As = 2.05 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V251	1	L262	L261	-22	-394	-259	As = 2.05 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V229	2	L262	L272	599	1832	-1315	As = 4.68 cm²/m (ø12.5 c/20 - 6.14 cm²/m)
V229	3	L262	L274	566	188	-780	As = 2.65 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V229	1	L261	L272	88	137	-1590	As = 3.12 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V253	1	L247	L246	-55	-427	-298	As = 2.05 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V214	3	L247	L244	561	34	-861	As = 2.94 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V214	2	L247	L232	706	1874	-1495	As = 5.38 cm²/m (ø12.5 c/20 - 6.14 cm²/m)
V214	1	L246	L232	7	72	-1789	As = 3.52 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V212	1	L227	L240	278	762	-1882	As = 3.71 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V225	1	L252	L263	1187	573	-1925	As = 7.10 cm²/m (ø12.5 c/17 - 7.22 cm²/m)
V218	1	L252	L245	1191	420	-1947	As = 7.03 cm²/m

							(ø10.0 c/11 - 7.14 cm²/m)
V296	1	L275	L278	445	353	-397	As = 2.05 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V293	2	L275	L263	203	117	-81	As = 2.05 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V296	2	L263	L264	168	370	-421	As = 2.05 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V293	1	L264	L278	326	331	-239	As = 2.05 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V290	2	L238	L237	332	433	-391	As = 2.05 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V291	2	L238	L239	347	346	-267	As = 2.05 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V291	1	L237	L245	209	67	-80	As = 2.05 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V290	1	L245	L239	280	403	-449	As = 2.05 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V289	1	L222	L221	355	-18	-550	As = 2.68 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V211	3	L222	L234	612	698	-855	As = 2.92 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V258	1	L222	L223	272	291	-477	As = 2.68 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V211	2	L221	L232	439	491	-965	As = 2.68 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V289	3	L244	L235	74	215	-74	As = 2.05 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V292	1	L244	L233	349	305	-352	As = 2.05 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V292	2	L235	L234	358	-198	-201	As = 2.05 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V211	5	L235	L224	326	337	-994	As = 3.42 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V292	3	L223	L224	-726	-941	-235	As = 2.68 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V211	4	L223	L234	358	756	-820	As = 2.80 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V231	5	L285	L276	370	314	-991	As = 3.40 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V297	1	L285	L284	-986	-1041	-139	As = 2.68 cm²/m

							(ø10.0 c/20 - 3.93 cm²/m)
V231	4	L284	L279	113	605	-596	As = 2.05 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V257	2	L284	L283	651	597	-880	As = 2.68 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V297	2	L279	L276	-92	363	-198	As = 2.05 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V298	2	L279	L273	-72	70	-92	As = 2.05 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V231	3	L279	L283	591	227	-534	As = 2.05 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V298	3	L276	L274	234	110	-81	As = 2.05 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V297	3	L274	L273	261	250	-261	As = 2.05 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V298	1	L282	L283	-152	-136	-383	As = 2.68 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V231	2	L282	L272	324	482	-857	As = 2.68 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V254	1	L272	L273	242	315	-469	As = 2.05 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V289	2	L234	L233	-126	137	-108	As = 2.05 cm²/m (ø10.0 c/20 - 3.93 cm²/m)
V255	1	L233	L232	231	198	-372	As = 2.05 cm²/m (ø10.0 c/20 - 3.93 cm²/m)

Pavimento PLATIBANDA NV-770

Quadro de Cargas e Taxa de Compressão Permanente nos Pilares

PLATIBANDA NV-770						
Pilares	**Seção (cm)**	**Nmáx (tf)**	**Nmin (tf)**	**Nperm (tf)**	**Taxa de compressão (bruta)**	**Taxa de compressão (homogeneizada)**
P39	20x40	0.26	0.00	0.36	0.00	0.00
P42	20x40	0.26	0.00	0.36	0.00	0.00
P43	15x50	0.24	0.00	0.34	0.00	0.00
P58	20x40	0.26	0.00	0.36	0.00	0.00
P64	60x60	1.27	0.00	1.75	0.00	0.00
P65	20x30	0.34	0.00	0.47	0.00	0.00
P76	60x60	1.22	0.00	1.69	0.00	0.00
P77	15x60	0.45	0.00	0.62	0.00	0.00
P82	20x40	0.26	0.00	0.36	0.00	0.00
P99	20x40	0.26	0.00	0.36	0.00	0.00
P102	20x40	0.26	0.00	0.36	0.00	0.00
P103	15x50	0.24	0.00	0.34	0.00	0.00
P137	20x40	0.26	0.00	0.36	0.00	0.00
P138	20x40	0.26	0.00	0.36	0.00	0.00
P145	20x40	0.26	0.00	0.36	0.00	0.00
P146	20x40	0.26	0.00	0.36	0.00	0.00
P152	15x30	0.67	0.00	0.91	0.01	0.01
P153	15x30	0.17	0.00	0.24	0.00	0.00
P154	15x30	0.65	0.00	0.88	0.01	0.01
P155	15x30	0.13	-0.03	0.18	0.00	0.00
P156	15x30	0.56	0.00	0.77	0.01	0.01
P157	15x30	0.19	0.00	0.26	0.00	0.00
P158	15x30	0.46	0.00	0.64	0.00	0.00
P159	15x30	0.35	0.00	0.49	0.00	0.00
P160	15x30	0.25	0.00	0.35	0.00	0.00
P161	15x30	0.50	0.00	0.69	0.01	0.00
P162	15x30	0.12	-0.04	0.17	0.00	0.00
P163	15x30	0.37	0.00	0.50	0.00	0.00
P164	15x30	0.38	0.00	0.52	0.00	0.00
P165	15x30	0.15	-0.01	0.21	0.00	0.00
P166	15x30	0.57	0.00	0.79	0.01	0.01
P167	15x30	0.17	0.00	0.23	0.00	0.00
P168	15x30	0.56	0.00	0.77	0.01	0.01
P169	15x30	0.22	0.00	0.30	0.00	0.00
P170	15x30	0.05	-0.12	0.07	0.00	0.00
P171	15x30	0.79	0.00	1.05	0.01	0.01
P172	15x30	0.15	-0.01	0.21	0.00	0.00
P173	15x30	0.17	0.00	0.23	0.00	0.00
P174	15x30	0.26	0.00	0.36	0.00	0.00
P175	15x30	0.21	0.00	0.29	0.00	0.00
P176	15x30	0.67	0.00	0.90	0.01	0.01
P177	15x30	0.63	0.00	0.85	0.01	0.01
P178	15x30	0.28	0.00	0.38	0.00	0.00
P179	15x30	0.44	0.00	0.61	0.00	0.00
P180	15x30	0.08	-0.09	0.11	0.00	0.00

P181	15x30	0.08	-0.09	0.11	0.00	0.00
P182	15x30	0.55	0.00	0.76	0.01	0.01
P183	15x30	0.49	0.00	0.67	0.01	0.00
P184	15x30	0.59	0.00	0.79	0.01	0.01
P185	15x30	0.18	0.00	0.25	0.00	0.00
P186	15x30	0.50	0.00	0.67	0.01	0.00
P187	15x30	0.36	0.00	0.50	0.00	0.00
P188	15x30	0.26	0.00	0.36	0.00	0.00
P189	15x30	0.53	0.00	0.73	0.01	0.01
P190	15x30	0.24	0.00	0.34	0.00	0.00
P191	15x30	0.56	0.00	0.75	0.01	0.01
P192	15x30	0.25	0.00	0.35	0.00	0.00
P193	15x30	0.53	0.00	0.70	0.01	0.00
P194	15x30	0.43	0.00	0.59	0.00	0.00
P195	15x30	0.00	-0.26	0.00	0.00	0.00
P196	15x30	0.11	-0.05	0.15	0.00	0.00
P197	15x30	0.28	0.00	0.38	0.00	0.00
P198	15x30	0.00	-0.26	0.00	0.00	0.00
P199	15x30	0.42	0.00	0.57	0.00	0.00
P200	15x30	0.59	0.00	0.79	0.01	0.01
P201	15x30	0.18	0.00	0.25	0.00	0.00
P202	15x30	0.50	0.00	0.67	0.01	0.00
P203	15x30	0.36	0.00	0.50	0.00	0.00
P204	15x30	0.20	0.00	0.28	0.00	0.00
P205	15x30	0.52	0.00	0.70	0.01	0.00
P206	15x30	0.29	0.00	0.40	0.00	0.00
P207	15x30	0.54	0.00	0.72	0.01	0.01
P208	15x30	0.27	0.00	0.38	0.00	0.00
P209	15x30	0.50	0.00	0.67	0.01	0.00
P210	15x30	0.49	0.00	0.67	0.01	0.00
P211	15x30	0.48	0.00	0.67	0.01	0.00
P212	15x30	0.07	-0.10	0.10	0.00	0.00
P213	15x30	0.08	-0.09	0.11	0.00	0.00
P214	15x30	0.52	0.00	0.72	0.01	0.01
P215	15x30	0.44	0.00	0.61	0.00	0.00
P216	15x30	0.56	0.00	0.75	0.01	0.01
P217	15x30	0.63	0.00	0.85	0.01	0.01
P218	15x30	0.17	0.00	0.24	0.00	0.00
P219	15x30	0.21	0.00	0.29	0.00	0.00
P220	15x30	0.16	0.00	0.23	0.00	0.00
P221	15x30	0.17	0.00	0.23	0.00	0.00
P222	15x30	0.67	0.00	0.92	0.01	0.01
P223	15x30	0.17	0.00	0.23	0.00	0.00
P224	15x30	0.64	0.00	0.87	0.01	0.01
P225	15x30	0.17	0.00	0.23	0.00	0.00
P226	15x30	0.55	0.00	0.76	0.01	0.01
P227	15x30	0.20	0.00	0.28	0.00	0.00
P228	15x30	0.44	0.00	0.61	0.00	0.00
P229	15x30	0.34	0.00	0.47	0.00	0.00
P230	15x30	0.26	0.00	0.36	0.00	0.00
P231	15x30	0.50	0.00	0.70	0.01	0.00
P232	15x30	0.11	-0.05	0.15	0.00	0.00
P233	15x30	0.38	0.00	0.51	0.00	0.00
P234	15x30	0.38	0.00	0.51	0.00	0.00
P235	15x30	0.15	-0.01	0.21	0.00	0.00
P236	15x30	0.58	0.00	0.80	0.01	0.01
P237	15x30	0.17	0.00	0.23	0.00	0.00
P238	15x30	0.56	0.00	0.77	0.01	0.01

P239	15x30	0.22	0.00	0.30	0.00	0.00
P240	15x30	0.05	-0.11	0.08	0.00	0.00
P241	15x30	0.78	0.00	1.04	0.01	0.01