



MINISTÉRIO DA SAÚDE

SECRETARIA DE SAÚDE INDÍGENA

DEPARTAMENTO DE PROJETOS E DETERMINANTES AMBIENTAIS DA SAÚDE INDÍGENA
COORDENAÇÃO-GERAL DE INFRAESTRUTURA E SANEAMENTO PARA SAÚDE INDÍGENA
COORDENAÇÃO DE ANÁLISE E ELABORAÇÃO DE PROJETOS DE INFRAESTRUTURA E
SANEAMENTO

SESAI

SECRETARIA DE SAÚDE INDÍGENA

CASAI CANARANA

MEMORIAL DESCRITIVO DE PROJETO ESTRUTURAL
PROJETO DE EXECUTIVO

CANARANA – MT
2025



MINISTÉRIO DA
SAÚDE





LISTA DE SIGLAS E ABREVIATURAS

ABNT	Associação Brasileira de Normas Técnicas
CASAI	Casa de Apoio à Saúde Indígena
CGISA	Coordenação-Geral de Infraestrutura e Saneamento para Saúde Indígena
COAEP	Coordenação de Análise e Elaboração de Projetos de Infraestrutura
CUB	Custo Unitário Básico da Construção Civil
DAPSI	Departamento de Atenção Primária à Saúde Indígena
DIASI	Divisão de Atenção à Saúde Indígena
DEAMB	Departamento de Projetos e Determinantes Ambientais da Saúde Indígena
DSEI	Distrito Sanitário Especial Indígena
MS	Ministério da Saúde
NBR	Norma Brasileira
SESAI	Secretaria Especial de Saúde Indígena
SESANI	Serviço de Edificações e Saneamento Indígena
SINAPI	Sistema Nacional de Pesquisa de Custos e Índices da Construção Civil



SUMÁRIO

1	APRESENTAÇÃO	3
1.1	OBJETIVO	3
1.2	PERMISSAS GERAIS.....	3
2	CRITÉRIOS DE PROJETO E AÇÕES CONSIDERADAS	4
3	MATERIAIS E CLASSES	4
3.1	CONCRETO	4
3.2	AÇO	5
3.3	FORMAS E ESCORAMENTO	5
3.4	ARGAMASSAS E GRUOTE	5
4	FUNDAÇÕES E INFRAESTRUTURA.....	6
4.1	DIRETRIZES GERAIS.....	6
4.2	CRITÉRIOS CONSTRUTIVOS E CONTROLES.....	6
5	SUPERESTRUTURA.....	6
5.1	PILARES	6
5.2	VIGAS.....	7
5.3	LAJES COM VIGOTAS PRÉ-MOLDADAS.....	7
5.4	VERGAS E CONTRAVERGAS.....	8
6	DETALHES CONSTRUTIVOS E DURABILIDADE.....	8
7	CONTROLE TECNOLÓGICO, ACEITAÇÃO E RASTREABILIDADE.....	8
8	EXECUÇÃO.....	9
9	COMPATIBILIZAÇÃO E RESPONSABILIDADES	9
10	ITENS ESPECÍFICOS DO PROJETO (CONFORME PRANCHAS).....	10
11	IMPERMEABILIZAÇÕES E INTERFACES COM O SOLO.....	10
12	ENSAIOS E ENTREGA	11
13	CONSIDERAÇÕES FINAIS.....	11
14	NORMAS TÉCNICAS	12
	ANEXO A - RELATÓRIO DE ESFORÇOS NA FUNDAÇÃO POR ELEMENTOS	14
	ANEXO B - RELATÓRIO DAS SAPATAS	56
	ANEXO C - RELATÓRIO DE CARGAS NAS FUNDAÇÕES INTERNAS.....	59
	ANEXO D - RELATÓRIO DE CARGAS NAS FUNDAÇÕES EXTERNAS	60
	ANEXO E – QUADRO DE CARGAS DOS PILARES INTERNOS.....	61
	ANEXO F – QUADRO DE CARGAS DOS PILARES EXTERNOS.....	62
	ANEXO G – RESUMO DO AÇO	63



1 APRESENTAÇÃO

1.1 OBJETIVO

Este memorial descreve os critérios de concepção, dimensionamento, materiais, procedimentos de execução, controle e inspeção relativos ao projeto estrutural em concreto armado da CASAI Canarana, contemplando a reforma e ampliação da edificação existente. Abrange fundações, elementos de infraestrutura (eventuais baldrame), pilares, vigas, lajes maciças com vigotas pré-moldadas e capa estrutural, vergas/contravergas e dispositivos de ligação/ancoragem. Também define obrigações mínimas de compatibilização com as disciplinas de Arquitetura, Hidrossanitário, Elétrico e Prevenção e Combate a Incêndio.

1.2 PERMISSAS GERAIS

- Solução estrutural racional, de fácil execução e manutenção, considerando logística de obra em município do interior de MT.
- Utilização de concreto estrutural com resistência característica (f_{ck}) definida em projeto, aço CA-50/CA-60 e lajes com vigotas pré-moldadas.
- Adoção de cobrimentos e detalhamento conforme classe de agressividade ambiental (CAA) aplicável ao uso hospitalar/ambulatorial e às condições locais (interior/exterior), nos termos da NBR 6118.
- Compatibilização com o arranjo arquitetônico e as rotas técnicas das instalações, garantindo furos/embutidos apenas onde previstos e respeitados os limites estruturais.
- As informações e dados deste documento foram definidos em conformidade com os projetos executivos, memoriais de cálculo, planilhas orçamentárias e



melhores práticas derivadas de obras semelhantes no âmbito da SESAI. Em caso de inviabilidade, necessidade de alterações ou inconsistências identificadas, o Distrito Sanitário Especial Indígena (DSEI) poderá apresentar soluções para melhoria dos métodos adotados.

2 CRITÉRIOS DE PROJETO E AÇÕES CONSIDERADAS

- Estados Limites Últimos (ELU): dimensionamento à flexo-compressão, cisalhamento, punção e torção conforme NBR 6118.
- Estados Limites de Serviço (ELS): verificação de fissuração (aberturas wk), deformações (flechas imediatas e diferidas) e vibrações.
- Ações permanentes (G): peso próprio de elementos estruturais; alvenarias/fechamentos; revestimentos e impermeabilizações; equipamentos fixos informados.
- Ações variáveis (Q): sobrecargas de uso compatíveis com ambientes de saúde (consultórios, circulações, áreas técnicas), conforme NBR 6120, além de vento (NBR 6123) e térmicas quando aplicável.
- Combinações de ações: conforme NBR 8681 (normas de segurança).
- Vida útil de projeto: conforme Tabela da NBR 6118 para edificações correntes (≥ 50 anos), com requisitos de durabilidade associados à CAA definida.

3 MATERIAIS E CLASSES

3.1 CONCRETO

- Resistência característica (fck): 25 MPa (C-25) salvo indicação específica em detalhe.
- Classe de consistência: *slump* apropriado ao elemento e método de lançamento; controle por abatimento (NBR 16889) e/ou espalhamento quando aplicável.



- Controle tecnológico: amostragem, moldagem, cura e ensaio de corpos-de-prova conforme NBR 5738 e NBR 5739; módulo de elasticidade conforme NBR 8522.
- Cura: manter umidade por no mínimo 7 dias (cimento CP II/CP IV) ou conforme caderno de encargos; usar mantas úmidas e/ou membranas de cura; proteger contra insolação/vento.

3.2 AÇO

- Tipos: CA-50 (barras) e CA-60 (fios/malhas) conforme NBR 7480.
- Dobra, emendas e ancoragens: conforme NBR 6118; proibir aquecimento; adotar comprimentos de ancoragem e transpasse de projeto; soldas apenas quando especificadas.
- Cobrimentos nominais (cn): internos ≥ 25 mm; externos $\geq 30-35$ mm; fundações $\geq 40-50$ mm (ajustar pela CAA e diâmetro da barra). Utilizar espaçadores não absorventes.

3.3 FORMAS E ESCORAMENTO

- Painéis rígidos e estanques (madeira resinada 17 mm ou metálicos), com desmoldante adequado.
- Escoramentos dimensionados para cargas de concretagem e cura, com reescoramento onde indicado.
- Prazos mínimos de desforma conforme NBR 14931 e desempenho de cura/resistência.

3.4 ARGAMASSAS E GRUOTE

- Argamassas de encunhamento e assentamentos conforme especificações; grautes quando previstos para chumbadores/base plates; resistência compatível com o concreto de base.



4 FUNDAÇÕES E INFRAESTRUTURA

4.1 DIRETRIZES GERAIS

- Fundações rasas do tipo sapatas isoladas vinculadas por vigas de equilíbrio/baldrames onde indicado.
- Dimensionadas para solo com capacidade de suporte compatível; exigir sondagens e ajustar dimensões em obra conforme laudos.
- Execução: escavação manual ou mecânica, regularização do fundo, lastro de concreto magro (esp. típica 5 cm), fôrmas, armações com cobrimento mínimo, arranques posicionados, lançamento do concreto estrutural (fck 25 MPa), adensamento, cura, impermeabilização de superfícies em contato com o solo (emulsão asfáltica em demãos), reaterro compactado em camadas finas.
- Para baldrames, observar alinhamentos, cotas e apoio de alvenarias; impermeabilizar topo e laterais antes do reaterro.

4.2 CRITÉRIOS CONSTRUTIVOS E CONTROLES

- Valas protegidas contra desmoronamento/alagamento; limpeza e inspeção do fundo antes do lastro.
- Verificação dimensional das sapatas, cotas de arrasamento e posição dos arranques.
- Reaterro manual apiloado após ganho de resistência adequado.
- Ensaios complementares: provas de carga, quando requerido pelo engenheiro.

5 SUPERESTRUTURA

5.1 PILARES

- Seções predominantemente retangulares, em posições indicadas nas pranchas.



- Armaduras longitudinais com aço CA-50 e estribos CA-60 ($\varnothing$ 5,0 mm), espaçamentos, ganchos e traspasse conforme detalhamento; manter cobrimentos com uso de espaçadores.
- Concretagem por etapas compatíveis com altura, com adensamento mecânico e proteção contra segregação.

5.2 VIGAS

- Vigas de concreto armado com seções e armaduras conforme pranchas.
- Escoramento com escoras tipo garfo e travamentos; formas estanques em chapa resinada 17 mm; uso de desmoldante compatível.
- Concreto C-25 com adensamento e cura; instalação de inserts e passagens apenas onde previsto.

5.3 LAJES COM VIGOTAS PRÉ-MOLDADAS

- Sistema com vigotas pré-moldadas apoiadas em vigas/paredes, lajotas/enchimento em EPS conforme especificado em projeto e capa estrutural de concreto (C-25) com espessura e tela de distribuição especificadas nos desenhos.
- Escoramento contínuo sob vigotas conforme flechas de montagem; reescoramento quando indicado; proibir remoção antecipada.
- Verificar frestas e apoio integral das vigotas; intertravamento e cintamento perimetral garantidos.
- Cargas de estocagem sobre lajes somente após cura e liberação do engenheiro.



5.4 VERGAS E CONTRAVERGAS

Concretadas *in loco*, com fck e armaduras indicados; comprimento de engastamento nos apoios/parede conforme desenho; evitar rasgos/embutidos não previstos.

6 DETALHES CONSTRUTIVOS E DURABILIDADE

- Juntas: prever juntas de construção devidamente tratadas com escovamento e nata de cimento; onde projetadas, juntas de dilatação devem permanecer desobstruídas.
- Cobrimentos e proteção: respeitar cn; em contato com solo/umidade, aplicar impermeabilização asfáltica em demãos; proteger arestas expostas durante cura.
- Furos e embutidos: somente os previstos em projeto; proibir rasgos posteriores que prejudiquem a seção resistente.
- Inserções metálicas: chumbadores com grauteamento; proteção anticorrosiva conforme ambiente.
- Interação alvenaria-estrutura: encunhamento com argamassa indicada; estabelecer juntas de dessolidarização quando previsto para minimizar transmissão de deformações.

7 CONTROLE TECNOLÓGICO, ACEITAÇÃO E RASTREABILIDADE

- Concreto: plano de amostragem por lote/caminhão; registros de abatimento, temperatura, hora de lançamento, CPs moldados, relatórios de rompimento (7/28 dias).
- Aço: certificados de qualidade, inspeção de bitolas, massa linear,



alongamento; conferência de posicionado/amarração antes do concreto.

- Formas/Escoramentos: inspeções antes da concretagem; proibição de concretar sem liberação do engenheiro.
- Não conformidades: abrir RNC e plano de ação; ensaios complementares (esclerometria, extração de testemunhos) se necessário.
- Rastreabilidade: manter diário de obra com fotos de armação, check-lists de pré-concretagem e liberação de desforma.

8 EXECUÇÃO

- Preparação: limpeza, umedecimento de formas, verificação de inserts; posicionar vibradores e equipe suficiente.
- Lançamento: por camadas ≤ 50 cm; evitar segregação; vibrar adequadamente (não encostar agulha na armadura/painel).
- Acabamento: sarrafeamento e acabamento conforme elemento; tratamento de bordas; proteção contra chuvas.
- Cura: iniciar imediatamente; manter por período mínimo; registrar métodos e datas.
- Desforma/reescoramento: somente após liberação; reescorar vigas/lajes conforme indicado.
- Interferências de instalações: furos de passagem previstos; proibir cortes em vigas/pilares; core drill controlado em lajes somente se autorizado.

9 COMPATIBILIZAÇÃO E RESPONSABILIDADES

- Autor do projeto estrutural: responsável pela concepção e detalhamento; qualquer alteração exige anuência formal via RFI e emissão de revisão de



prancha/parecer.

- Construtora: fiel execução conforme desenhos, memorial e normas; prover controle tecnológico; solicitar esclarecimentos antes de intervir.
- Fiscalização/Contratante: aprovar materiais, liberar etapas críticas e registrar conformidades.

10 ITENS ESPECÍFICOS DO PROJETO (CONFORME PRANCHAS)

Nota: A numeração/identificação abaixo é indicativa e deve ser conferida no conjunto de pranchas estruturais.

- Planta de locação/arranques: eixos, cotas, posições de pilares P1–P...; bases/sapatas associadas; indicação de capacidade de suporte mínima do solo para dimensionamento; posicionamento de vigas baldrame (quando houver).
- Detalhe dos pilares: seções típicas 15×30 cm e 15×35 cm; estribos Ø 5,0 mm com espaçamentos variáveis; relações de aço por peça (metragem/peso), volumes de concreto e áreas de forma; amarrações entre níveis (Térreo L1 e Cobertura L2).
- Vigas superiores: seções, armaduras positivas/negativas, estribos, detalhamentos de ancoragem em nós; relações de aço e volumes por viga; notas de escoramento e reescoramento.
- Lajes com vigotas pré-moldadas: planta de vigotas, peças de enchimento, nervuras de travamento, capa de concreto e tela de distribuição; apoios mínimos; cintas e vergas perimetrais; detalhes de ligação com alvenaria.

11 IMPERMEABILIZAÇÕES E INTERFACES COM O SOLO

- Aplicar emulsão asfáltica (múltiplas demãos) em superfícies de fundações,



baldrames e faces laterais em contato com o solo; realizar limpeza prévia e cura do concreto; reaterro manual apiloado pós-secagem.

- Sobre baldrame, executar barreira capilar (argamassa impermeável ou mantas) antes da elevação das alvenarias.
- Em áreas externas, prever pingadeiras e afastamento do terreno (calçada de proteção) para reduzir respingos e infiltrações nas bases dos painéis.

12 ENSAIOS E ENTREGA

- Antes da concretagem: check-lists liberados pela fiscalização (formas, armações, inserts, limpezas).
- Durante: registros de temperatura, abatimento, hora de início/fim, volume lançado; CPs por lote.
- Após: relatórios de rompimento 7/28 dias; laudos fotográficos; as built estrutural (se houve ajuste) com anotação de eventuais inversões/alterações.
- Entrega final: dossiê com ARTs, relatórios de controle, RNCs tratadas, certificados de materiais e manual de manutenção preventiva das partes estruturais aparentes.

13 CONSIDERAÇÕES FINAIS

Todos os critérios aqui estabelecidos podem ser alterados de acordo com a realidade executiva apresentada e de acordo com especificidades regionais e locais, porém todas as alterações deverão ser aprovadas pelo o Distrito Sanitário Especial Indígena (DSEI). Ademais, o DSEI poderá apresentar soluções para melhoria dos métodos adotados.



Quaisquer dúvidas, interferências ou solicitações de alteração devem ser formalizadas via RFI à equipe de projeto. Não executar cortes, furos, rebaixos ou demolições em elementos estruturais sem autorização expressa do responsável técnico. O atendimento às presentes diretrizes é condição para aceitação da obra e garantia de desempenho, durabilidade e segurança da edificação.

14 NORMAS TÉCNICAS

ASSOCIAÇÃO BRASILEIRA DE NORMAS TÉCNICAS. NBR 6118:2023. Projeto de estruturas de concreto – Procedimento. Rio de Janeiro: ABNT, 2023.

ASSOCIAÇÃO BRASILEIRA DE NORMAS TÉCNICAS. NBR 14931:2023. Execução de estruturas de concreto armado, protendido e com fibras – Requisitos. Rio de Janeiro: ABNT, 2023.

ASSOCIAÇÃO BRASILEIRA DE NORMAS TÉCNICAS. NBR 6120:2019. Ações para o cálculo de estruturas de edificações. Rio de Janeiro: ABNT, 2019.

ASSOCIAÇÃO BRASILEIRA DE NORMAS TÉCNICAS. NBR 6123:2023. Forças devidas ao vento em edificações. Rio de Janeiro: ABNT, 2023.

ASSOCIAÇÃO BRASILEIRA DE NORMAS TÉCNICAS. NBR 8681:2003. Ações e segurança nas estruturas – Procedimento. Rio de Janeiro: ABNT, 2003.

ASSOCIAÇÃO BRASILEIRA DE NORMAS TÉCNICAS. NBR 6122:2019. Projeto e execução de fundações. Rio de Janeiro: ABNT, 2019.

ASSOCIAÇÃO BRASILEIRA DE NORMAS TÉCNICAS. NBR 7212:2012. Execução de concreto dosado em central – Procedimento. Rio de Janeiro: ABNT, 2012.

ASSOCIAÇÃO BRASILEIRA DE NORMAS TÉCNICAS. NBR 5739:2018. Concreto – Ensaio de compressão de corpos de prova cilíndricos. Rio de Janeiro: ABNT, 2018.

ASSOCIAÇÃO BRASILEIRA DE NORMAS TÉCNICAS. NBR 8522-1:2021. Concreto endurecido – Determinação dos módulos de elasticidade e de deformação à compressão – Parte 1: Módulos estáticos à compressão. Rio de Janeiro: ABNT, 2021.

ASSOCIAÇÃO BRASILEIRA DE NORMAS TÉCNICAS. NBR 8522-2:2021. Concreto endurecido – Determinação dos módulos de elasticidade e de deformação – Parte 2: Módulo de elasticidade dinâmico pelo método das frequências naturais de vibração. Rio de Janeiro: ABNT, 2021.



ASSOCIAÇÃO BRASILEIRA DE NORMAS TÉCNICAS. NBR 8953:2015. Concreto para fins estruturais – Classificação pela massa específica, por grupos de resistência e consistência. Rio de Janeiro: ABNT, 2015.

ASSOCIAÇÃO BRASILEIRA DE NORMAS TÉCNICAS. NBR 12655:2022. Concreto de cimento Portland – Preparo, controle, recebimento e aceitação – Procedimento. Rio de Janeiro: ABNT, 2022.

Observação: Em caso de divergência entre este memorial e os desenhos, prevalecem os desenhos estruturais. Para itens de execução não exaustivamente detalhados, valem as boas práticas e as normas acima.



ANEXO A - RELATÓRIO DE ESFORÇOS NA FUNDAÇÃO POR ELEMENTOS

Pilares de Fundações

Fundação S1						
COMBINAÇÃO:	N (tf)	Mx (kgf.m)	My (kgf.m)	Vx (tf)	Vy (tf)	Mt (kgf/m)
Peso próprio (G1)	1.82	0.00	0.00	0.02	-0.02	0.00
Adicional (G2)	1.84	0.00	0.00	0.19	-0.16	0.00
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	0.61	0.00	0.00	-0.01	0.01	0.00
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	-0.08	0.00	0.00	-0.03	0.00	0.00
Vento X- (V2)	0.08	0.00	0.00	0.03	0.00	0.00
Vento Y+ (V3)	0.16	0.00	0.00	-0.02	-0.08	0.00
Vento Y- (V4)	-0.16	0.00	0.00	0.02	0.08	0.00
Desaprumo X+ (D1)	-0.05	0.00	0.00	-0.03	0.00	0.00
Desaprumo X- (D2)	0.05	0.00	0.00	0.03	0.00	0.00
Desaprumo Y+ (D3)	0.02	0.00	0.00	0.00	-0.02	0.00
Desaprumo Y- (D4)	-0.02	0.00	0.00	0.00	0.02	0.00
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2	3.65	0.00	0.00	0.21	-0.18	0.00
G1+G2+0.6V1+0.6D1	3.58	0.00	0.00	0.17	-0.18	0.00
G1+G2+0.6V1+D1	3.56	0.00	0.00	0.16	-0.18	0.00
G1+G2+0.6V2+0.6D2	3.73	0.00	0.00	0.24	-0.18	0.00
G1+G2+0.6V2+D2	3.75	0.00	0.00	0.25	-0.18	0.00
G1+G2+0.6V3+0.6D3	3.76	0.00	0.00	0.19	-0.24	0.00
G1+G2+0.6V3+D3	3.77	0.00	0.00	0.19	-0.25	0.00
G1+G2+0.6V4+0.6D4	3.55	0.00	0.00	0.22	-0.12	0.00
G1+G2+0.6V4+D4	3.54	0.00	0.00	0.22	-0.12	0.00
G1+G2+0.7Q	4.08	0.00	0.00	0.20	-0.17	0.00
G1+G2+0.7Q+0.6V1+0.6D1	4.00	0.00	0.00	0.17	-0.17	0.00
G1+G2+0.7Q+0.6V1+D1	3.99	0.00	0.00	0.16	-0.17	0.00
G1+G2+0.7Q+0.6V2+0.6D2	4.15	0.00	0.00	0.23	-0.17	0.00
G1+G2+0.7Q+0.6V2+D2	4.17	0.00	0.00	0.24	-0.17	0.00
G1+G2+0.7Q+0.6V3+0.6D3	4.19	0.00	0.00	0.19	-0.23	0.00
G1+G2+0.7Q+0.6V3+D3	4.19	0.00	0.00	0.19	-0.24	0.00
G1+G2+0.7Q+0.6V4+0.6D4	3.97	0.00	0.00	0.21	-0.11	0.00
G1+G2+0.7Q+0.6V4+D4	3.96	0.00	0.00	0.21	-0.11	0.00
G1+G2+0.7Q+D1	4.03	0.00	0.00	0.17	-0.17	0.00
G1+G2+0.7Q+D2	4.13	0.00	0.00	0.22	-0.17	0.00
G1+G2+0.7Q+D3	4.10	0.00	0.00	0.20	-0.19	0.00
G1+G2+0.7Q+D4	4.06	0.00	0.00	0.20	-0.16	0.00
G1+G2+0.7Q+V1+0.6D1	3.97	0.00	0.00	0.16	-0.17	0.00
G1+G2+0.7Q+V2+0.6D2	4.19	0.00	0.00	0.24	-0.17	0.00
G1+G2+0.7Q+V3+0.6D3	4.25	0.00	0.00	0.18	-0.27	0.00
G1+G2+0.7Q+V4+0.6D4	3.91	0.00	0.00	0.22	-0.08	0.00
G1+G2+D1	3.61	0.00	0.00	0.18	-0.18	0.00
G1+G2+D2	3.70	0.00	0.00	0.23	-0.18	0.00
G1+G2+D3	3.67	0.00	0.00	0.20	-0.20	0.00
G1+G2+D4	3.63	0.00	0.00	0.21	-0.16	0.00
G1+G2+Q	4.26	0.00	0.00	0.20	-0.17	0.00
G1+G2+Q+0.6V1+0.6D1	4.19	0.00	0.00	0.17	-0.17	0.00
G1+G2+Q+0.6V2+0.6D2	4.34	0.00	0.00	0.23	-0.17	0.00
G1+G2+Q+0.6V3+0.6D3	4.37	0.00	0.00	0.19	-0.23	0.00
G1+G2+Q+0.6V4+0.6D4	4.16	0.00	0.00	0.21	-0.11	0.00



Fundação S1						
COMBINAÇÃO:	N (tf)	Mx (kgf.m)	My (kgf.m)	Vx (tf)	Vy (tf)	Mt (kgf/m)
G1+G2+Q+D1	4.21	0.00	0.00	0.17	-0.17	0.00
G1+G2+Q+D2	4.31	0.00	0.00	0.22	-0.17	0.00
G1+G2+Q+D3	4.28	0.00	0.00	0.19	-0.19	0.00
G1+G2+Q+D4	4.24	0.00	0.00	0.20	-0.15	0.00
G1+G2+V1+0.6D1	3.55	0.00	0.00	0.16	-0.18	0.00
G1+G2+V2+0.6D2	3.76	0.00	0.00	0.25	-0.18	0.00
G1+G2+V3+0.6D3	3.82	0.00	0.00	0.19	-0.28	0.00
G1+G2+V4+0.6D4	3.48	0.00	0.00	0.22	-0.09	0.00

Fundação S2						
COMBINAÇÃO:	N (tf)	Mx (kgf.m)	My (kgf.m)	Vx (tf)	Vy (tf)	Mt (kgf/m)
Peso próprio (G1)	2.72	0.00	0.00	-0.02	0.00	0.00
Adicional (G2)	2.86	0.00	0.00	-0.06	-0.24	0.00
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	1.13	0.00	0.00	-0.02	0.05	0.00
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.01	0.00	0.00	-0.05	0.00	0.00
Vento X- (V2)	-0.01	0.00	0.00	0.05	0.00	0.00
Vento Y+ (V3)	0.27	0.00	0.00	-0.02	-0.09	0.00
Vento Y- (V4)	-0.27	0.00	0.00	0.02	0.09	0.00
Desaprumo X+ (D1)	0.01	0.00	0.00	-0.05	0.00	0.00
Desaprumo X- (D2)	-0.01	0.00	0.00	0.05	0.00	0.00
Desaprumo Y+ (D3)	0.04	0.00	0.00	0.00	-0.02	0.00
Desaprumo Y- (D4)	-0.04	0.00	0.00	0.00	0.02	0.00
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2	5.58	0.00	0.00	-0.08	-0.23	0.00
G1+G2+0.6V1+0.6D1	5.60	0.00	0.00	-0.14	-0.23	0.00
G1+G2+0.6V1+D1	5.60	0.00	0.00	-0.16	-0.23	0.00
G1+G2+0.6V2+0.6D2	5.57	0.00	0.00	-0.02	-0.23	0.00
G1+G2+0.6V2+D2	5.57	0.00	0.00	-0.01	-0.23	0.00
G1+G2+0.6V3+0.6D3	5.77	0.00	0.00	-0.10	-0.30	0.00
G1+G2+0.6V3+D3	5.79	0.00	0.00	-0.10	-0.31	0.00
G1+G2+0.6V4+0.6D4	5.40	0.00	0.00	-0.07	-0.17	0.00
G1+G2+0.6V4+D4	5.38	0.00	0.00	-0.07	-0.16	0.00
G1+G2+0.7Q	6.37	0.00	0.00	-0.09	-0.20	0.00
G1+G2+0.7Q+0.6V1+0.6D1	6.39	0.00	0.00	-0.15	-0.20	0.00
G1+G2+0.7Q+0.6V1+D1	6.39	0.00	0.00	-0.17	-0.20	0.00
G1+G2+0.7Q+0.6V2+0.6D2	6.36	0.00	0.00	-0.04	-0.20	0.00
G1+G2+0.7Q+0.6V2+D2	6.36	0.00	0.00	-0.02	-0.20	0.00
G1+G2+0.7Q+0.6V3+0.6D3	6.56	0.00	0.00	-0.11	-0.27	0.00
G1+G2+0.7Q+0.6V3+D3	6.57	0.00	0.00	-0.11	-0.27	0.00
G1+G2+0.7Q+0.6V4+0.6D4	6.19	0.00	0.00	-0.08	-0.13	0.00
G1+G2+0.7Q+0.6V4+D4	6.17	0.00	0.00	-0.08	-0.12	0.00
G1+G2+0.7Q+D1	6.38	0.00	0.00	-0.14	-0.20	0.00
G1+G2+0.7Q+D2	6.36	0.00	0.00	-0.05	-0.20	0.00
G1+G2+0.7Q+D3	6.41	0.00	0.00	-0.10	-0.22	0.00
G1+G2+0.7Q+D4	6.34	0.00	0.00	-0.09	-0.18	0.00
G1+G2+0.7Q+V1+0.6D1	6.39	0.00	0.00	-0.17	-0.20	0.00
G1+G2+0.7Q+V2+0.6D2	6.35	0.00	0.00	-0.02	-0.20	0.00
G1+G2+0.7Q+V3+0.6D3	6.67	0.00	0.00	-0.12	-0.30	0.00
G1+G2+0.7Q+V4+0.6D4	6.08	0.00	0.00	-0.07	-0.10	0.00
G1+G2+D1	5.59	0.00	0.00	-0.13	-0.23	0.00
G1+G2+D2	5.58	0.00	0.00	-0.04	-0.23	0.00



Fundação S2						
COMBINAÇÃO:	N (tf)	Mx (kgf.m)	My (kgf.m)	Vx (tf)	Vy (tf)	Mt (kgf/m)
G1+G2+D3	5.62	0.00	0.00	-0.09	-0.25	0.00
G1+G2+D4	5.55	0.00	0.00	-0.08	-0.21	0.00
G1+G2+Q	6.71	0.00	0.00	-0.10	-0.18	0.00
G1+G2+Q+0.6V1+0.6D1	6.73	0.00	0.00	-0.16	-0.18	0.00
G1+G2+Q+0.6V2+0.6D2	6.70	0.00	0.00	-0.04	-0.18	0.00
G1+G2+Q+0.6V3+0.6D3	6.90	0.00	0.00	-0.11	-0.25	0.00
G1+G2+Q+0.6V4+0.6D4	6.53	0.00	0.00	-0.08	-0.12	0.00
G1+G2+Q+D1	6.72	0.00	0.00	-0.14	-0.18	0.00
G1+G2+Q+D2	6.70	0.00	0.00	-0.05	-0.18	0.00
G1+G2+Q+D3	6.75	0.00	0.00	-0.10	-0.20	0.00
G1+G2+Q+D4	6.68	0.00	0.00	-0.10	-0.17	0.00
G1+G2+V1+0.6D1	5.60	0.00	0.00	-0.16	-0.23	0.00
G1+G2+V2+0.6D2	5.56	0.00	0.00	0.00	-0.23	0.00
G1+G2+V3+0.6D3	5.88	0.00	0.00	-0.11	-0.34	0.00
G1+G2+V4+0.6D4	5.29	0.00	0.00	-0.06	-0.13	0.00

Fundação S3						
COMBINAÇÃO:	N (tf)	Mx (kgf.m)	My (kgf.m)	Vx (tf)	Vy (tf)	Mt (kgf/m)
Peso próprio (G1)	2.43	0.00	0.00	-0.04	0.00	0.00
Adicional (G2)	2.69	0.00	0.00	0.25	0.02	0.00
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	1.10	0.00	0.00	-0.10	0.00	0.00
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.04	0.00	0.00	0.00	-0.02	0.00
Vento X- (V2)	-0.04	0.00	0.00	0.00	0.02	0.00
Vento Y+ (V3)	0.24	0.00	0.00	0.09	-0.01	0.00
Vento Y- (V4)	-0.24	0.00	0.00	-0.09	0.01	0.00
Desaprumo X+ (D1)	0.02	0.00	0.00	0.00	-0.02	0.00
Desaprumo X- (D2)	-0.02	0.00	0.00	0.00	0.02	0.00
Desaprumo Y+ (D3)	0.03	0.00	0.00	0.02	0.00	0.00
Desaprumo Y- (D4)	-0.03	0.00	0.00	-0.02	0.00	0.00
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2	5.13	0.00	0.00	0.21	0.02	0.00
G1+G2+0.6V1+0.6D1	5.16	0.00	0.00	0.21	-0.01	0.00
G1+G2+0.6V1+D1	5.17	0.00	0.00	0.21	-0.01	0.00
G1+G2+0.6V2+0.6D2	5.09	0.00	0.00	0.21	0.05	0.00
G1+G2+0.6V2+D2	5.08	0.00	0.00	0.21	0.05	0.00
G1+G2+0.6V3+0.6D3	5.29	0.00	0.00	0.28	0.01	0.00
G1+G2+0.6V3+D3	5.30	0.00	0.00	0.29	0.01	0.00
G1+G2+0.6V4+0.6D4	4.96	0.00	0.00	0.14	0.03	0.00
G1+G2+0.6V4+D4	4.95	0.00	0.00	0.14	0.03	0.00
G1+G2+0.7Q	5.90	0.00	0.00	0.14	0.02	0.00
G1+G2+0.7Q+0.6V1+0.6D1	5.94	0.00	0.00	0.14	-0.01	0.00
G1+G2+0.7Q+0.6V1+D1	5.94	0.00	0.00	0.14	-0.01	0.00
G1+G2+0.7Q+0.6V2+0.6D2	5.86	0.00	0.00	0.14	0.05	0.00
G1+G2+0.7Q+0.6V2+D2	5.85	0.00	0.00	0.14	0.05	0.00
G1+G2+0.7Q+0.6V3+0.6D3	6.06	0.00	0.00	0.21	0.01	0.00
G1+G2+0.7Q+0.6V3+D3	6.07	0.00	0.00	0.22	0.01	0.00
G1+G2+0.7Q+0.6V4+0.6D4	5.74	0.00	0.00	0.08	0.03	0.00
G1+G2+0.7Q+0.6V4+D4	5.72	0.00	0.00	0.07	0.03	0.00
G1+G2+0.7Q+D1	5.92	0.00	0.00	0.14	0.00	0.00
G1+G2+0.7Q+D2	5.88	0.00	0.00	0.14	0.04	0.00
G1+G2+0.7Q+D3	5.93	0.00	0.00	0.16	0.02	0.00
G1+G2+0.7Q+D4	5.87	0.00	0.00	0.12	0.02	0.00



Fundação S3						
COMBINAÇÃO:	N (tf)	Mx (kgf.m)	My (kgf.m)	Vx (tf)	Vy (tf)	Mt (kgf/m)
G1+G2+0.7Q+V1+0.6D1	5.95	0.00	0.00	0.14	-0.02	0.00
G1+G2+0.7Q+V2+0.6D2	5.85	0.00	0.00	0.14	0.06	0.00
G1+G2+0.7Q+V3+0.6D3	6.16	0.00	0.00	0.25	0.01	0.00
G1+G2+0.7Q+V4+0.6D4	5.64	0.00	0.00	0.04	0.03	0.00
G1+G2+D1	5.15	0.00	0.00	0.21	0.00	0.00
G1+G2+D2	5.10	0.00	0.00	0.21	0.04	0.00
G1+G2+D3	5.16	0.00	0.00	0.23	0.02	0.00
G1+G2+D4	5.09	0.00	0.00	0.19	0.02	0.00
G1+G2+Q	6.23	0.00	0.00	0.11	0.02	0.00
G1+G2+Q+0.6V1+0.6D1	6.27	0.00	0.00	0.11	-0.01	0.00
G1+G2+Q+0.6V2+0.6D2	6.19	0.00	0.00	0.12	0.05	0.00
G1+G2+Q+0.6V3+0.6D3	6.39	0.00	0.00	0.18	0.01	0.00
G1+G2+Q+0.6V4+0.6D4	6.07	0.00	0.00	0.05	0.03	0.00
G1+G2+Q+D1	6.25	0.00	0.00	0.11	0.00	0.00
G1+G2+Q+D2	6.21	0.00	0.00	0.11	0.04	0.00
G1+G2+Q+D3	6.26	0.00	0.00	0.13	0.02	0.00
G1+G2+Q+D4	6.20	0.00	0.00	0.10	0.02	0.00
G1+G2+V1+0.6D1	5.18	0.00	0.00	0.21	-0.02	0.00
G1+G2+V2+0.6D2	5.07	0.00	0.00	0.21	0.06	0.00
G1+G2+V3+0.6D3	5.38	0.00	0.00	0.31	0.01	0.00
G1+G2+V4+0.6D4	4.87	0.00	0.00	0.11	0.03	0.00

Fundação S4						
COMBINAÇÃO:	N (tf)	Mx (kgf.m)	My (kgf.m)	Vx (tf)	Vy (tf)	Mt (kgf/m)
Peso próprio (G1)	2.05	0.00	0.00	-0.04	0.00	0.00
Adicional (G2)	2.43	0.00	0.00	0.22	-0.03	0.00
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	0.87	0.00	0.00	-0.09	0.00	0.00
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	-0.02	0.00	0.00	0.00	-0.02	0.00
Vento X- (V2)	0.02	0.00	0.00	0.00	0.02	0.00
Vento Y+ (V3)	0.26	0.00	0.00	0.10	-0.01	0.00
Vento Y- (V4)	-0.26	0.00	0.00	-0.10	0.01	0.00
Desaprumo X+ (D1)	-0.01	0.00	0.00	0.00	-0.02	0.00
Desaprumo X- (D2)	0.01	0.00	0.00	0.00	0.02	0.00
Desaprumo Y+ (D3)	0.04	0.00	0.00	0.02	0.00	0.00
Desaprumo Y- (D4)	-0.04	0.00	0.00	-0.02	0.00	0.00
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2	4.48	0.00	0.00	0.18	-0.03	0.00
G1+G2+0.6V1+0.6D1	4.46	0.00	0.00	0.18	-0.05	0.00
G1+G2+0.6V1+D1	4.46	0.00	0.00	0.18	-0.06	0.00
G1+G2+0.6V2+0.6D2	4.49	0.00	0.00	0.18	-0.01	0.00
G1+G2+0.6V2+D2	4.50	0.00	0.00	0.18	0.00	0.00
G1+G2+0.6V3+0.6D3	4.66	0.00	0.00	0.25	-0.04	0.00
G1+G2+0.6V3+D3	4.67	0.00	0.00	0.26	-0.04	0.00
G1+G2+0.6V4+0.6D4	4.30	0.00	0.00	0.12	-0.02	0.00
G1+G2+0.6V4+D4	4.28	0.00	0.00	0.11	-0.02	0.00
G1+G2+0.7Q	5.09	0.00	0.00	0.12	-0.03	0.00
G1+G2+0.7Q+0.6V1+0.6D1	5.07	0.00	0.00	0.12	-0.05	0.00
G1+G2+0.7Q+0.6V1+D1	5.07	0.00	0.00	0.12	-0.06	0.00
G1+G2+0.7Q+0.6V2+0.6D2	5.10	0.00	0.00	0.12	-0.01	0.00
G1+G2+0.7Q+0.6V2+D2	5.11	0.00	0.00	0.12	0.00	0.00
G1+G2+0.7Q+0.6V3+0.6D3	5.27	0.00	0.00	0.19	-0.03	0.00



Fundação S4						
COMBINAÇÃO:	N (tf)	Mx (kgf.m)	My (kgf.m)	Vx (tf)	Vy (tf)	Mt (kgf/m)
G1+G2+0.7Q+0.6V3+D3	5.28	0.00	0.00	0.19	-0.04	0.00
G1+G2+0.7Q+0.6V4+0.6D4	4.91	0.00	0.00	0.05	-0.02	0.00
G1+G2+0.7Q+0.6V4+D4	4.89	0.00	0.00	0.05	-0.02	0.00
G1+G2+0.7Q+D1	5.08	0.00	0.00	0.12	-0.04	0.00
G1+G2+0.7Q+D2	5.10	0.00	0.00	0.12	-0.01	0.00
G1+G2+0.7Q+D3	5.12	0.00	0.00	0.14	-0.03	0.00
G1+G2+0.7Q+D4	5.05	0.00	0.00	0.11	-0.03	0.00
G1+G2+0.7Q+V1+0.6D1	5.06	0.00	0.00	0.12	-0.06	0.00
G1+G2+0.7Q+V2+0.6D2	5.11	0.00	0.00	0.12	0.00	0.00
G1+G2+0.7Q+V3+0.6D3	5.37	0.00	0.00	0.23	-0.04	0.00
G1+G2+0.7Q+V4+0.6D4	4.80	0.00	0.00	0.02	-0.02	0.00
G1+G2+D1	4.47	0.00	0.00	0.18	-0.04	0.00
G1+G2+D2	4.49	0.00	0.00	0.18	-0.01	0.00
G1+G2+D3	4.51	0.00	0.00	0.20	-0.03	0.00
G1+G2+D4	4.44	0.00	0.00	0.17	-0.03	0.00
G1+G2+Q	5.35	0.00	0.00	0.09	-0.03	0.00
G1+G2+Q+0.6V1+0.6D1	5.33	0.00	0.00	0.09	-0.05	0.00
G1+G2+Q+0.6V2+0.6D2	5.36	0.00	0.00	0.09	-0.01	0.00
G1+G2+Q+0.6V3+0.6D3	5.53	0.00	0.00	0.16	-0.03	0.00
G1+G2+Q+0.6V4+0.6D4	5.17	0.00	0.00	0.03	-0.02	0.00
G1+G2+Q+D1	5.34	0.00	0.00	0.09	-0.04	0.00
G1+G2+Q+D2	5.36	0.00	0.00	0.09	-0.01	0.00
G1+G2+Q+D3	5.38	0.00	0.00	0.11	-0.03	0.00
G1+G2+Q+D4	5.31	0.00	0.00	0.08	-0.03	0.00
G1+G2+V1+0.6D1	4.46	0.00	0.00	0.18	-0.06	0.00
G1+G2+V2+0.6D2	4.50	0.00	0.00	0.18	0.00	0.00
G1+G2+V3+0.6D3	4.76	0.00	0.00	0.29	-0.04	0.00
G1+G2+V4+0.6D4	4.19	0.00	0.00	0.08	-0.02	0.00

Fundação S5						
COMBINAÇÃO:	N (tf)	Mx (kgf.m)	My (kgf.m)	Vx (tf)	Vy (tf)	Mt (kgf/m)
Peso próprio (G1)	3.01	0.00	0.00	-0.05	0.02	0.00
Adicional (G2)	2.21	0.00	0.00	-0.04	0.18	0.00
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	1.27	0.00	0.00	-0.08	-0.01	0.00
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.02	0.00	0.00	0.00	-0.02	0.00
Vento X- (V2)	-0.02	0.00	0.00	0.00	0.02	0.00
Vento Y+ (V3)	0.40	0.00	0.00	0.12	-0.01	0.00
Vento Y- (V4)	-0.40	0.00	0.00	-0.12	0.01	0.00
Desaprumo X+ (D1)	0.01	0.00	0.00	0.00	-0.02	0.00
Desaprumo X- (D2)	-0.01	0.00	0.00	0.00	0.02	0.00
Desaprumo Y+ (D3)	0.05	0.00	0.00	0.02	0.00	0.00
Desaprumo Y- (D4)	-0.05	0.00	0.00	-0.02	0.00	0.00
Supressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2	5.22	0.00	0.00	-0.09	0.20	0.00
G1+G2+0.6V1+0.6D1	5.24	0.00	0.00	-0.09	0.18	0.00
G1+G2+0.6V1+D1	5.24	0.00	0.00	-0.09	0.17	0.00
G1+G2+0.6V2+0.6D2	5.20	0.00	0.00	-0.09	0.22	0.00
G1+G2+0.6V2+D2	5.19	0.00	0.00	-0.09	0.23	0.00
G1+G2+0.6V3+0.6D3	5.49	0.00	0.00	0.00	0.19	0.00
G1+G2+0.6V3+D3	5.51	0.00	0.00	0.01	0.19	0.00
G1+G2+0.6V4+0.6D4	4.95	0.00	0.00	-0.17	0.20	0.00
G1+G2+0.6V4+D4	4.93	0.00	0.00	-0.18	0.20	0.00



Fundação S5						
COMBINAÇÃO:	N (tf)	Mx (kgf.m)	My (kgf.m)	Vx (tf)	Vy (tf)	Mt (kgf/m)
G1+G2+0.7Q	6.11	0.00	0.00	-0.14	0.19	0.00
G1+G2+0.7Q+0.6V1+0.6D1	6.13	0.00	0.00	-0.14	0.17	0.00
G1+G2+0.7Q+0.6V1+D1	6.13	0.00	0.00	-0.14	0.16	0.00
G1+G2+0.7Q+0.6V2+0.6D2	6.08	0.00	0.00	-0.14	0.22	0.00
G1+G2+0.7Q+0.6V2+D2	6.08	0.00	0.00	-0.14	0.22	0.00
G1+G2+0.7Q+0.6V3+0.6D3	6.38	0.00	0.00	-0.06	0.19	0.00
G1+G2+0.7Q+0.6V3+D3	6.40	0.00	0.00	-0.05	0.19	0.00
G1+G2+0.7Q+0.6V4+0.6D4	5.84	0.00	0.00	-0.23	0.20	0.00
G1+G2+0.7Q+0.6V4+D4	5.81	0.00	0.00	-0.24	0.20	0.00
G1+G2+0.7Q+D1	6.12	0.00	0.00	-0.14	0.17	0.00
G1+G2+0.7Q+D2	6.09	0.00	0.00	-0.14	0.21	0.00
G1+G2+0.7Q+D3	6.16	0.00	0.00	-0.12	0.19	0.00
G1+G2+0.7Q+D4	6.05	0.00	0.00	-0.16	0.19	0.00
G1+G2+0.7Q+V1+0.6D1	6.13	0.00	0.00	-0.14	0.16	0.00
G1+G2+0.7Q+V2+0.6D2	6.08	0.00	0.00	-0.14	0.23	0.00
G1+G2+0.7Q+V3+0.6D3	6.53	0.00	0.00	-0.01	0.18	0.00
G1+G2+0.7Q+V4+0.6D4	5.68	0.00	0.00	-0.28	0.20	0.00
G1+G2+D1	5.23	0.00	0.00	-0.09	0.18	0.00
G1+G2+D2	5.20	0.00	0.00	-0.09	0.22	0.00
G1+G2+D3	5.27	0.00	0.00	-0.07	0.20	0.00
G1+G2+D4	5.16	0.00	0.00	-0.11	0.20	0.00
G1+G2+Q	6.49	0.00	0.00	-0.17	0.19	0.00
G1+G2+Q+0.6V1+0.6D1	6.51	0.00	0.00	-0.17	0.17	0.00
G1+G2+Q+0.6V2+0.6D2	6.47	0.00	0.00	-0.17	0.21	0.00
G1+G2+Q+0.6V3+0.6D3	6.76	0.00	0.00	-0.08	0.18	0.00
G1+G2+Q+0.6V4+0.6D4	6.22	0.00	0.00	-0.25	0.19	0.00
G1+G2+Q+D1	6.50	0.00	0.00	-0.17	0.17	0.00
G1+G2+Q+D2	6.47	0.00	0.00	-0.17	0.21	0.00
G1+G2+Q+D3	6.54	0.00	0.00	-0.15	0.19	0.00
G1+G2+Q+D4	6.43	0.00	0.00	-0.19	0.19	0.00
G1+G2+V1+0.6D1	5.25	0.00	0.00	-0.09	0.17	0.00
G1+G2+V2+0.6D2	5.19	0.00	0.00	-0.09	0.23	0.00
G1+G2+V3+0.6D3	5.65	0.00	0.00	0.05	0.19	0.00
G1+G2+V4+0.6D4	4.79	0.00	0.00	-0.22	0.21	0.00

Fundação S6						
COMBINAÇÃO:	N (tf)	Mx (kgf.m)	My (kgf.m)	Vx (tf)	Vy (tf)	Mt (kgf/m)
Peso próprio (G1)	2.83	0.00	0.00	-0.03	0.03	0.00
Adicional (G2)	2.01	0.00	0.00	0.02	0.15	0.00
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	1.40	0.00	0.00	0.01	0.00	0.00
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	-0.03	0.00	0.00	0.00	0.02	0.00
Vento X- (V2)	0.03	0.00	0.00	0.00	-0.02	0.00
Vento Y+ (V3)	0.11	0.00	0.00	-0.10	0.01	0.00
Vento Y- (V4)	-0.11	0.00	0.00	0.10	-0.01	0.00
Desaprumo X+ (D1)	-0.02	0.00	0.00	0.00	0.02	0.00
Desaprumo X- (D2)	0.02	0.00	0.00	0.00	-0.02	0.00
Desaprumo Y+ (D3)	0.02	0.00	0.00	-0.02	0.00	0.00
Desaprumo Y- (D4)	-0.02	0.00	0.00	0.02	0.00	0.00
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2	4.84	0.00	0.00	0.00	0.18	0.00
G1+G2+0.6V1+0.6D1	4.81	0.00	0.00	0.00	0.20	0.00



Fundação S6						
COMBINAÇÃO:	N (tf)	Mx (kgf.m)	My (kgf.m)	Vx (tf)	Vy (tf)	Mt (kgf/m)
G1+G2+0.6V1+D1	4.81	0.00	0.00	0.00	0.21	0.00
G1+G2+0.6V2+0.6D2	4.87	0.00	0.00	0.00	0.16	0.00
G1+G2+0.6V2+D2	4.87	0.00	0.00	0.00	0.15	0.00
G1+G2+0.6V3+0.6D3	4.92	0.00	0.00	-0.07	0.19	0.00
G1+G2+0.6V3+D3	4.92	0.00	0.00	-0.08	0.19	0.00
G1+G2+0.6V4+0.6D4	4.77	0.00	0.00	0.06	0.17	0.00
G1+G2+0.6V4+D4	4.76	0.00	0.00	0.07	0.17	0.00
G1+G2+0.7Q	5.82	0.00	0.00	0.00	0.18	0.00
G1+G2+0.7Q+0.6V1+0.6D1	5.80	0.00	0.00	0.00	0.20	0.00
G1+G2+0.7Q+0.6V1+D1	5.79	0.00	0.00	0.00	0.21	0.00
G1+G2+0.7Q+0.6V2+0.6D2	5.85	0.00	0.00	0.00	0.16	0.00
G1+G2+0.7Q+0.6V2+D2	5.86	0.00	0.00	0.00	0.15	0.00
G1+G2+0.7Q+0.6V3+0.6D3	5.90	0.00	0.00	-0.06	0.19	0.00
G1+G2+0.7Q+0.6V3+D3	5.91	0.00	0.00	-0.07	0.19	0.00
G1+G2+0.7Q+0.6V4+0.6D4	5.75	0.00	0.00	0.07	0.17	0.00
G1+G2+0.7Q+0.6V4+D4	5.74	0.00	0.00	0.08	0.17	0.00
G1+G2+0.7Q+D1	5.81	0.00	0.00	0.00	0.20	0.00
G1+G2+0.7Q+D2	5.84	0.00	0.00	0.00	0.16	0.00
G1+G2+0.7Q+D3	5.84	0.00	0.00	-0.01	0.18	0.00
G1+G2+0.7Q+D4	5.81	0.00	0.00	0.02	0.18	0.00
G1+G2+0.7Q+V1+0.6D1	5.79	0.00	0.00	0.00	0.21	0.00
G1+G2+0.7Q+V2+0.6D2	5.86	0.00	0.00	0.00	0.15	0.00
G1+G2+0.7Q+V3+0.6D3	5.94	0.00	0.00	-0.10	0.19	0.00
G1+G2+0.7Q+V4+0.6D4	5.70	0.00	0.00	0.11	0.16	0.00
G1+G2+D1	4.82	0.00	0.00	0.00	0.20	0.00
G1+G2+D2	4.86	0.00	0.00	0.00	0.16	0.00
G1+G2+D3	4.86	0.00	0.00	-0.02	0.18	0.00
G1+G2+D4	4.83	0.00	0.00	0.01	0.18	0.00
G1+G2+Q	6.25	0.00	0.00	0.01	0.18	0.00
G1+G2+Q+0.6V1+0.6D1	6.22	0.00	0.00	0.01	0.20	0.00
G1+G2+Q+0.6V2+0.6D2	6.27	0.00	0.00	0.01	0.16	0.00
G1+G2+Q+0.6V3+0.6D3	6.32	0.00	0.00	-0.06	0.19	0.00
G1+G2+Q+0.6V4+0.6D4	6.17	0.00	0.00	0.08	0.17	0.00
G1+G2+Q+D1	6.23	0.00	0.00	0.01	0.20	0.00
G1+G2+Q+D2	6.26	0.00	0.00	0.01	0.16	0.00
G1+G2+Q+D3	6.26	0.00	0.00	-0.01	0.18	0.00
G1+G2+Q+D4	6.23	0.00	0.00	0.02	0.18	0.00
G1+G2+V1+0.6D1	4.80	0.00	0.00	0.00	0.21	0.00
G1+G2+V2+0.6D2	4.88	0.00	0.00	0.00	0.15	0.00
G1+G2+V3+0.6D3	4.96	0.00	0.00	-0.11	0.19	0.00
G1+G2+V4+0.6D4	4.72	0.00	0.00	0.10	0.17	0.00

Fundação S7						
COMBINAÇÃO:	N (tf)	Mx (kgf.m)	My (kgf.m)	Vx (tf)	Vy (tf)	Mt (kgf/m)
Peso próprio (G1)	1.85	0.00	0.00	0.00	0.01	0.00
Adicional (G2)	2.22	0.00	0.00	0.23	0.05	0.00
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	0.65	0.00	0.00	-0.03	0.00	0.00
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.02	0.00	0.00	0.00	-0.02	0.00
Vento X- (V2)	-0.02	0.00	0.00	0.00	0.02	0.00
Vento Y+ (V3)	0.28	0.00	0.00	0.09	-0.01	0.00
Vento Y- (V4)	-0.28	0.00	0.00	-0.09	0.01	0.00
Desaprumo X+ (D1)	0.01	0.00	0.00	0.00	-0.02	0.00



Fundação S7						
COMBINAÇÃO:	N (tf)	Mx (kgf.m)	My (kgf.m)	Vx (tf)	Vy (tf)	Mt (kgf/m)
Desaprumo X- (D2)	-0.01	0.00	0.00	0.00	0.02	0.00
Desaprumo Y+ (D3)	0.04	0.00	0.00	0.02	0.00	0.00
Desaprumo Y- (D4)	-0.04	0.00	0.00	-0.02	0.00	0.00
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2	4.07	0.00	0.00	0.23	0.05	0.00
G1+G2+0.6V1+0.6D1	4.09	0.00	0.00	0.23	0.03	0.00
G1+G2+0.6V1+D1	4.09	0.00	0.00	0.23	0.02	0.00
G1+G2+0.6V2+0.6D2	4.05	0.00	0.00	0.23	0.07	0.00
G1+G2+0.6V2+D2	4.04	0.00	0.00	0.23	0.08	0.00
G1+G2+0.6V3+0.6D3	4.26	0.00	0.00	0.30	0.05	0.00
G1+G2+0.6V3+D3	4.27	0.00	0.00	0.30	0.05	0.00
G1+G2+0.6V4+0.6D4	3.88	0.00	0.00	0.17	0.06	0.00
G1+G2+0.6V4+D4	3.87	0.00	0.00	0.16	0.06	0.00
G1+G2+0.7Q	4.53	0.00	0.00	0.21	0.05	0.00
G1+G2+0.7Q+0.6V1+0.6D1	4.54	0.00	0.00	0.21	0.03	0.00
G1+G2+0.7Q+0.6V1+D1	4.55	0.00	0.00	0.21	0.02	0.00
G1+G2+0.7Q+0.6V2+0.6D2	4.51	0.00	0.00	0.21	0.07	0.00
G1+G2+0.7Q+0.6V2+D2	4.50	0.00	0.00	0.21	0.08	0.00
G1+G2+0.7Q+0.6V3+0.6D3	4.71	0.00	0.00	0.28	0.05	0.00
G1+G2+0.7Q+0.6V3+D3	4.73	0.00	0.00	0.28	0.04	0.00
G1+G2+0.7Q+0.6V4+0.6D4	4.34	0.00	0.00	0.15	0.06	0.00
G1+G2+0.7Q+0.6V4+D4	4.32	0.00	0.00	0.14	0.06	0.00
G1+G2+0.7Q+D1	4.54	0.00	0.00	0.21	0.04	0.00
G1+G2+0.7Q+D2	4.51	0.00	0.00	0.21	0.07	0.00
G1+G2+0.7Q+D3	4.56	0.00	0.00	0.23	0.05	0.00
G1+G2+0.7Q+D4	4.49	0.00	0.00	0.20	0.05	0.00
G1+G2+0.7Q+V1+0.6D1	4.55	0.00	0.00	0.21	0.02	0.00
G1+G2+0.7Q+V2+0.6D2	4.50	0.00	0.00	0.21	0.08	0.00
G1+G2+0.7Q+V3+0.6D3	4.82	0.00	0.00	0.31	0.04	0.00
G1+G2+0.7Q+V4+0.6D4	4.23	0.00	0.00	0.11	0.06	0.00
G1+G2+D1	4.08	0.00	0.00	0.23	0.04	0.00
G1+G2+D2	4.06	0.00	0.00	0.23	0.07	0.00
G1+G2+D3	4.10	0.00	0.00	0.25	0.05	0.00
G1+G2+D4	4.03	0.00	0.00	0.22	0.05	0.00
G1+G2+Q	4.72	0.00	0.00	0.20	0.05	0.00
G1+G2+Q+0.6V1+0.6D1	4.74	0.00	0.00	0.20	0.03	0.00
G1+G2+Q+0.6V2+0.6D2	4.70	0.00	0.00	0.20	0.07	0.00
G1+G2+Q+0.6V3+0.6D3	4.91	0.00	0.00	0.27	0.04	0.00
G1+G2+Q+0.6V4+0.6D4	4.53	0.00	0.00	0.14	0.06	0.00
G1+G2+Q+D1	4.73	0.00	0.00	0.20	0.04	0.00
G1+G2+Q+D2	4.71	0.00	0.00	0.20	0.07	0.00
G1+G2+Q+D3	4.76	0.00	0.00	0.22	0.05	0.00
G1+G2+Q+D4	4.69	0.00	0.00	0.19	0.05	0.00
G1+G2+V1+0.6D1	4.10	0.00	0.00	0.23	0.02	0.00
G1+G2+V2+0.6D2	4.04	0.00	0.00	0.23	0.08	0.00
G1+G2+V3+0.6D3	4.37	0.00	0.00	0.33	0.04	0.00
G1+G2+V4+0.6D4	3.77	0.00	0.00	0.13	0.06	0.00

Fundação S8						
COMBINAÇÃO:	N (tf)	Mx (kgf.m)	My (kgf.m)	Vx (tf)	Vy (tf)	Mt (kgf/m)
Peso próprio (G1)	2.98	0.00	0.00	-0.01	0.00	0.00
Adicional (G2)	3.12	0.00	0.00	-0.23	-0.08	0.00
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00



Fundação S8						
COMBINAÇÃO:	N (tf)	Mx (kgf.m)	My (kgf.m)	Vx (tf)	Vy (tf)	Mt (kgf/m)
Acidental (Q)	1.44	0.00	0.00	0.02	0.02	0.00
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	-0.01	0.00	0.00	0.00	0.02	0.00
Vento X- (V2)	0.01	0.00	0.00	0.00	-0.02	0.00
Vento Y+ (V3)	0.26	0.00	0.00	-0.10	0.01	0.00
Vento Y- (V4)	-0.26	0.00	0.00	0.10	-0.01	0.00
Desaprumo X+ (D1)	-0.01	0.00	0.00	0.00	0.02	0.00
Desaprumo X- (D2)	0.01	0.00	0.00	0.00	-0.02	0.00
Desaprumo Y+ (D3)	0.03	0.00	0.00	-0.02	0.00	0.00
Desaprumo Y- (D4)	-0.03	0.00	0.00	0.02	0.00	0.00
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2	6.10	0.00	0.00	-0.24	-0.07	0.00
G1+G2+0.6V1+0.6D1	6.09	0.00	0.00	-0.24	-0.05	0.00
G1+G2+0.6V1+D1	6.09	0.00	0.00	-0.24	-0.04	0.00
G1+G2+0.6V2+0.6D2	6.11	0.00	0.00	-0.24	-0.10	0.00
G1+G2+0.6V2+D2	6.11	0.00	0.00	-0.24	-0.10	0.00
G1+G2+0.6V3+0.6D3	6.28	0.00	0.00	-0.31	-0.07	0.00
G1+G2+0.6V3+D3	6.29	0.00	0.00	-0.32	-0.07	0.00
G1+G2+0.6V4+0.6D4	5.92	0.00	0.00	-0.17	-0.08	0.00
G1+G2+0.6V4+D4	5.91	0.00	0.00	-0.16	-0.08	0.00
G1+G2+0.7Q	7.11	0.00	0.00	-0.23	-0.06	0.00
G1+G2+0.7Q+0.6V1+0.6D1	7.10	0.00	0.00	-0.23	-0.04	0.00
G1+G2+0.7Q+0.6V1+D1	7.09	0.00	0.00	-0.23	-0.03	0.00
G1+G2+0.7Q+0.6V2+0.6D2	7.12	0.00	0.00	-0.23	-0.09	0.00
G1+G2+0.7Q+0.6V2+D2	7.12	0.00	0.00	-0.23	-0.09	0.00
G1+G2+0.7Q+0.6V3+0.6D3	7.28	0.00	0.00	-0.30	-0.05	0.00
G1+G2+0.7Q+0.6V3+D3	7.30	0.00	0.00	-0.31	-0.05	0.00
G1+G2+0.7Q+0.6V4+0.6D4	6.93	0.00	0.00	-0.15	-0.07	0.00
G1+G2+0.7Q+0.6V4+D4	6.92	0.00	0.00	-0.15	-0.07	0.00
G1+G2+0.7Q+D1	7.10	0.00	0.00	-0.23	-0.04	0.00
G1+G2+0.7Q+D2	7.12	0.00	0.00	-0.23	-0.08	0.00
G1+G2+0.7Q+D3	7.14	0.00	0.00	-0.25	-0.06	0.00
G1+G2+0.7Q+D4	7.07	0.00	0.00	-0.21	-0.06	0.00
G1+G2+0.7Q+V1+0.6D1	7.09	0.00	0.00	-0.23	-0.03	0.00
G1+G2+0.7Q+V2+0.6D2	7.13	0.00	0.00	-0.23	-0.09	0.00
G1+G2+0.7Q+V3+0.6D3	7.39	0.00	0.00	-0.34	-0.05	0.00
G1+G2+0.7Q+V4+0.6D4	6.83	0.00	0.00	-0.11	-0.07	0.00
G1+G2+D1	6.09	0.00	0.00	-0.24	-0.06	0.00
G1+G2+D2	6.11	0.00	0.00	-0.24	-0.09	0.00
G1+G2+D3	6.13	0.00	0.00	-0.26	-0.07	0.00
G1+G2+D4	6.07	0.00	0.00	-0.22	-0.07	0.00
G1+G2+Q	7.54	0.00	0.00	-0.22	-0.06	0.00
G1+G2+Q+0.6V1+0.6D1	7.53	0.00	0.00	-0.22	-0.03	0.00
G1+G2+Q+0.6V2+0.6D2	7.55	0.00	0.00	-0.22	-0.08	0.00
G1+G2+Q+0.6V3+0.6D3	7.72	0.00	0.00	-0.30	-0.05	0.00
G1+G2+Q+0.6V4+0.6D4	7.36	0.00	0.00	-0.15	-0.06	0.00
G1+G2+Q+D1	7.53	0.00	0.00	-0.22	-0.04	0.00
G1+G2+Q+D2	7.55	0.00	0.00	-0.22	-0.07	0.00
G1+G2+Q+D3	7.57	0.00	0.00	-0.24	-0.05	0.00
G1+G2+Q+D4	7.51	0.00	0.00	-0.20	-0.06	0.00
G1+G2+V1+0.6D1	6.08	0.00	0.00	-0.24	-0.04	0.00
G1+G2+V2+0.6D2	6.12	0.00	0.00	-0.24	-0.11	0.00
G1+G2+V3+0.6D3	6.38	0.00	0.00	-0.35	-0.06	0.00
G1+G2+V4+0.6D4	5.82	0.00	0.00	-0.12	-0.09	0.00



Fundação S9						
COMBINAÇÃO:	N (tf)	Mx (kgf.m)	My (kgf.m)	Vx (tf)	Vy (tf)	Mt (kgf/m)
Peso próprio (G1)	1.99	0.00	0.00	0.01	0.03	0.00
Adicional (G2)	2.10	0.00	0.00	0.27	0.17	0.00
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	0.72	0.00	0.00	-0.05	0.01	0.00
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.04	0.00	0.00	0.02	0.00	0.00
Vento X- (V2)	-0.04	0.00	0.00	-0.02	0.00	0.00
Vento Y+ (V3)	0.13	0.00	0.00	0.01	0.05	0.00
Vento Y- (V4)	-0.13	0.00	0.00	-0.01	-0.05	0.00
Desaprumo X+ (D1)	0.02	0.00	0.00	0.02	0.00	0.00
Desaprumo X- (D2)	-0.02	0.00	0.00	-0.02	0.00	0.00
Desaprumo Y+ (D3)	0.02	0.00	0.00	0.00	0.01	0.00
Desaprumo Y- (D4)	-0.02	0.00	0.00	0.00	-0.01	0.00
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2	4.09	0.00	0.00	0.28	0.21	0.00
G1+G2+0.6V1+0.6D1	4.13	0.00	0.00	0.30	0.21	0.00
G1+G2+0.6V1+D1	4.14	0.00	0.00	0.31	0.21	0.00
G1+G2+0.6V2+0.6D2	4.05	0.00	0.00	0.25	0.21	0.00
G1+G2+0.6V2+D2	4.04	0.00	0.00	0.24	0.21	0.00
G1+G2+0.6V3+0.6D3	4.18	0.00	0.00	0.28	0.24	0.00
G1+G2+0.6V3+D3	4.19	0.00	0.00	0.28	0.25	0.00
G1+G2+0.6V4+0.6D4	4.00	0.00	0.00	0.27	0.17	0.00
G1+G2+0.6V4+D4	3.99	0.00	0.00	0.27	0.17	0.00
G1+G2+0.7Q	4.60	0.00	0.00	0.24	0.21	0.00
G1+G2+0.7Q+0.6V1+0.6D1	4.63	0.00	0.00	0.27	0.21	0.00
G1+G2+0.7Q+0.6V1+D1	4.64	0.00	0.00	0.27	0.21	0.00
G1+G2+0.7Q+0.6V2+0.6D2	4.56	0.00	0.00	0.22	0.21	0.00
G1+G2+0.7Q+0.6V2+D2	4.55	0.00	0.00	0.21	0.21	0.00
G1+G2+0.7Q+0.6V3+0.6D3	4.69	0.00	0.00	0.25	0.25	0.00
G1+G2+0.7Q+0.6V3+D3	4.70	0.00	0.00	0.25	0.25	0.00
G1+G2+0.7Q+0.6V4+0.6D4	4.51	0.00	0.00	0.24	0.18	0.00
G1+G2+0.7Q+0.6V4+D4	4.50	0.00	0.00	0.24	0.17	0.00
G1+G2+0.7Q+D1	4.62	0.00	0.00	0.26	0.21	0.00
G1+G2+0.7Q+D2	4.57	0.00	0.00	0.22	0.21	0.00
G1+G2+0.7Q+D3	4.61	0.00	0.00	0.24	0.22	0.00
G1+G2+0.7Q+D4	4.58	0.00	0.00	0.24	0.20	0.00
G1+G2+0.7Q+V1+0.6D1	4.65	0.00	0.00	0.27	0.21	0.00
G1+G2+0.7Q+V2+0.6D2	4.54	0.00	0.00	0.21	0.21	0.00
G1+G2+0.7Q+V3+0.6D3	4.74	0.00	0.00	0.25	0.27	0.00
G1+G2+0.7Q+V4+0.6D4	4.45	0.00	0.00	0.23	0.16	0.00
G1+G2+D1	4.11	0.00	0.00	0.30	0.21	0.00
G1+G2+D2	4.07	0.00	0.00	0.25	0.21	0.00
G1+G2+D3	4.11	0.00	0.00	0.28	0.22	0.00
G1+G2+D4	4.07	0.00	0.00	0.27	0.20	0.00
G1+G2+Q	4.81	0.00	0.00	0.23	0.21	0.00
G1+G2+Q+0.6V1+0.6D1	4.85	0.00	0.00	0.25	0.21	0.00
G1+G2+Q+0.6V2+0.6D2	4.78	0.00	0.00	0.20	0.21	0.00
G1+G2+Q+0.6V3+0.6D3	4.91	0.00	0.00	0.23	0.25	0.00
G1+G2+Q+0.6V4+0.6D4	4.72	0.00	0.00	0.22	0.18	0.00
G1+G2+Q+D1	4.84	0.00	0.00	0.25	0.21	0.00
G1+G2+Q+D2	4.79	0.00	0.00	0.21	0.21	0.00
G1+G2+Q+D3	4.83	0.00	0.00	0.23	0.22	0.00
G1+G2+Q+D4	4.80	0.00	0.00	0.23	0.20	0.00
G1+G2+V1+0.6D1	4.14	0.00	0.00	0.31	0.21	0.00



Fundação S9						
COMBINAÇÃO:	N (tf)	Mx (kgf.m)	My (kgf.m)	Vx (tf)	Vy (tf)	Mt (kgf/m)
G1+G2+V2+0.6D2	4.04	0.00	0.00	0.24	0.21	0.00
G1+G2+V3+0.6D3	4.24	0.00	0.00	0.28	0.26	0.00
G1+G2+V4+0.6D4	3.95	0.00	0.00	0.27	0.15	0.00

Fundação S10						
COMBINAÇÃO:	N (tf)	Mx (kgf.m)	My (kgf.m)	Vx (tf)	Vy (tf)	Mt (kgf/m)
Peso próprio (G1)	2.74	0.00	0.00	0.02	0.00	0.00
Adicional (G2)	2.50	0.00	0.00	0.18	0.07	0.00
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	1.19	0.00	0.00	-0.02	-0.01	0.00
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	-0.08	0.00	0.00	-0.03	0.00	0.00
Vento X- (V2)	0.08	0.00	0.00	0.03	0.00	0.00
Vento Y+ (V3)	0.09	0.00	0.00	0.00	-0.15	0.00
Vento Y- (V4)	-0.09	0.00	0.00	0.00	0.15	0.00
Desaprumo X+ (D1)	-0.05	0.00	0.00	-0.02	0.00	0.00
Desaprumo X- (D2)	0.05	0.00	0.00	0.02	0.00	0.00
Desaprumo Y+ (D3)	0.01	0.00	0.00	0.00	-0.03	0.00
Desaprumo Y- (D4)	-0.01	0.00	0.00	0.00	0.03	0.00
Supressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2	5.24	0.00	0.00	0.20	0.07	0.00
G1+G2+0.6V1+0.6D1	5.17	0.00	0.00	0.17	0.07	0.00
G1+G2+0.6V1+D1	5.15	0.00	0.00	0.16	0.07	0.00
G1+G2+0.6V2+0.6D2	5.32	0.00	0.00	0.23	0.07	0.00
G1+G2+0.6V2+D2	5.34	0.00	0.00	0.24	0.07	0.00
G1+G2+0.6V3+0.6D3	5.30	0.00	0.00	0.20	-0.03	0.00
G1+G2+0.6V3+D3	5.31	0.00	0.00	0.20	-0.05	0.00
G1+G2+0.6V4+0.6D4	5.18	0.00	0.00	0.20	0.17	0.00
G1+G2+0.6V4+D4	5.18	0.00	0.00	0.20	0.18	0.00
G1+G2+0.7Q	6.07	0.00	0.00	0.18	0.06	0.00
G1+G2+0.7Q+0.6V1+0.6D1	6.00	0.00	0.00	0.15	0.06	0.00
G1+G2+0.7Q+0.6V1+D1	5.98	0.00	0.00	0.14	0.06	0.00
G1+G2+0.7Q+0.6V2+0.6D2	6.15	0.00	0.00	0.21	0.06	0.00
G1+G2+0.7Q+0.6V2+D2	6.17	0.00	0.00	0.22	0.06	0.00
G1+G2+0.7Q+0.6V3+0.6D3	6.13	0.00	0.00	0.18	-0.04	0.00
G1+G2+0.7Q+0.6V3+D3	6.14	0.00	0.00	0.18	-0.05	0.00
G1+G2+0.7Q+0.6V4+0.6D4	6.01	0.00	0.00	0.18	0.16	0.00
G1+G2+0.7Q+0.6V4+D4	6.01	0.00	0.00	0.18	0.18	0.00
G1+G2+0.7Q+D1	6.03	0.00	0.00	0.16	0.06	0.00
G1+G2+0.7Q+D2	6.12	0.00	0.00	0.20	0.06	0.00
G1+G2+0.7Q+D3	6.09	0.00	0.00	0.18	0.03	0.00
G1+G2+0.7Q+D4	6.06	0.00	0.00	0.18	0.09	0.00
G1+G2+0.7Q+V1+0.6D1	5.97	0.00	0.00	0.14	0.06	0.00
G1+G2+0.7Q+V2+0.6D2	6.18	0.00	0.00	0.22	0.06	0.00
G1+G2+0.7Q+V3+0.6D3	6.17	0.00	0.00	0.18	-0.10	0.00
G1+G2+0.7Q+V4+0.6D4	5.98	0.00	0.00	0.19	0.22	0.00
G1+G2+D1	5.19	0.00	0.00	0.18	0.07	0.00
G1+G2+D2	5.29	0.00	0.00	0.22	0.07	0.00
G1+G2+D3	5.26	0.00	0.00	0.20	0.04	0.00
G1+G2+D4	5.23	0.00	0.00	0.20	0.10	0.00
G1+G2+Q	6.43	0.00	0.00	0.18	0.06	0.00
G1+G2+Q+0.6V1+0.6D1	6.36	0.00	0.00	0.15	0.06	0.00
G1+G2+Q+0.6V2+0.6D2	6.51	0.00	0.00	0.20	0.06	0.00
G1+G2+Q+0.6V3+0.6D3	6.49	0.00	0.00	0.17	-0.05	0.00



Fundação S10						
COMBINAÇÃO:	N (tf)	Mx (kgf.m)	My (kgf.m)	Vx (tf)	Vy (tf)	Mt (kgf/m)
G1+G2+Q+0.6V4+0.6D4	6.37	0.00	0.00	0.18	0.16	0.00
G1+G2+Q+D1	6.38	0.00	0.00	0.15	0.06	0.00
G1+G2+Q+D2	6.48	0.00	0.00	0.20	0.06	0.00
G1+G2+Q+D3	6.44	0.00	0.00	0.18	0.03	0.00
G1+G2+Q+D4	6.42	0.00	0.00	0.18	0.08	0.00
G1+G2+V1+0.6D1	5.14	0.00	0.00	0.16	0.07	0.00
G1+G2+V2+0.6D2	5.35	0.00	0.00	0.24	0.07	0.00
G1+G2+V3+0.6D3	5.34	0.00	0.00	0.19	-0.09	0.00
G1+G2+V4+0.6D4	5.15	0.00	0.00	0.20	0.23	0.00

Fundação S11						
COMBINAÇÃO:	N (tf)	Mx (kgf.m)	My (kgf.m)	Vx (tf)	Vy (tf)	Mt (kgf/m)
Peso próprio (G1)	3.49	0.00	0.00	-0.01	-0.01	0.00
Adicional (G2)	2.36	0.00	0.00	-0.24	0.22	0.00
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	2.05	0.00	0.00	0.00	-0.05	0.00
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.02	0.00	0.00	-0.05	0.00	0.00
Vento X- (V2)	-0.02	0.00	0.00	0.05	0.00	0.00
Vento Y+ (V3)	-0.25	0.00	0.00	-0.01	-0.09	0.00
Vento Y- (V4)	0.25	0.00	0.00	0.01	0.09	0.00
Desaprumo X+ (D1)	0.01	0.00	0.00	-0.04	0.00	0.00
Desaprumo X- (D2)	-0.01	0.00	0.00	0.04	0.00	0.00
Desaprumo Y+ (D3)	-0.03	0.00	0.00	0.00	-0.02	0.00
Desaprumo Y- (D4)	0.03	0.00	0.00	0.00	0.02	0.00
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2	5.86	0.00	0.00	-0.25	0.21	0.00
G1+G2+0.6V1+0.6D1	5.88	0.00	0.00	-0.31	0.21	0.00
G1+G2+0.6V1+D1	5.88	0.00	0.00	-0.32	0.21	0.00
G1+G2+0.6V2+0.6D2	5.84	0.00	0.00	-0.20	0.21	0.00
G1+G2+0.6V2+D2	5.83	0.00	0.00	-0.19	0.21	0.00
G1+G2+0.6V3+0.6D3	5.69	0.00	0.00	-0.26	0.14	0.00
G1+G2+0.6V3+D3	5.68	0.00	0.00	-0.26	0.13	0.00
G1+G2+0.6V4+0.6D4	6.02	0.00	0.00	-0.25	0.28	0.00
G1+G2+0.6V4+D4	6.04	0.00	0.00	-0.25	0.28	0.00
G1+G2+0.7Q	7.29	0.00	0.00	-0.26	0.17	0.00
G1+G2+0.7Q+0.6V1+0.6D1	7.31	0.00	0.00	-0.31	0.17	0.00
G1+G2+0.7Q+0.6V1+D1	7.31	0.00	0.00	-0.33	0.17	0.00
G1+G2+0.7Q+0.6V2+0.6D2	7.27	0.00	0.00	-0.21	0.17	0.00
G1+G2+0.7Q+0.6V2+D2	7.26	0.00	0.00	-0.19	0.17	0.00
G1+G2+0.7Q+0.6V3+0.6D3	7.12	0.00	0.00	-0.26	0.11	0.00
G1+G2+0.7Q+0.6V3+D3	7.11	0.00	0.00	-0.26	0.10	0.00
G1+G2+0.7Q+0.6V4+0.6D4	7.46	0.00	0.00	-0.25	0.24	0.00
G1+G2+0.7Q+0.6V4+D4	7.47	0.00	0.00	-0.25	0.25	0.00
G1+G2+0.7Q+D1	7.30	0.00	0.00	-0.30	0.17	0.00
G1+G2+0.7Q+D2	7.28	0.00	0.00	-0.22	0.17	0.00
G1+G2+0.7Q+D3	7.26	0.00	0.00	-0.26	0.15	0.00
G1+G2+0.7Q+D4	7.32	0.00	0.00	-0.26	0.19	0.00
G1+G2+0.7Q+V1+0.6D1	7.32	0.00	0.00	-0.33	0.17	0.00
G1+G2+0.7Q+V2+0.6D2	7.26	0.00	0.00	-0.19	0.17	0.00
G1+G2+0.7Q+V3+0.6D3	7.02	0.00	0.00	-0.26	0.07	0.00
G1+G2+0.7Q+V4+0.6D4	7.56	0.00	0.00	-0.25	0.27	0.00
G1+G2+D1	5.87	0.00	0.00	-0.29	0.21	0.00



Fundação S11						
COMBINAÇÃO:	N (tf)	Mx (kgf.m)	My (kgf.m)	Vx (tf)	Vy (tf)	Mt (kgf/m)
G1+G2+D2	5.84	0.00	0.00	-0.21	0.21	0.00
G1+G2+D3	5.82	0.00	0.00	-0.25	0.19	0.00
G1+G2+D4	5.89	0.00	0.00	-0.25	0.23	0.00
G1+G2+Q	7.90	0.00	0.00	-0.26	0.16	0.00
G1+G2+Q+0.6V1+0.6D1	7.92	0.00	0.00	-0.31	0.16	0.00
G1+G2+Q+0.6V2+0.6D2	7.88	0.00	0.00	-0.21	0.16	0.00
G1+G2+Q+0.6V3+0.6D3	7.73	0.00	0.00	-0.26	0.09	0.00
G1+G2+Q+0.6V4+0.6D4	8.07	0.00	0.00	-0.26	0.22	0.00
G1+G2+Q+D1	7.92	0.00	0.00	-0.30	0.16	0.00
G1+G2+Q+D2	7.89	0.00	0.00	-0.22	0.16	0.00
G1+G2+Q+D3	7.87	0.00	0.00	-0.26	0.14	0.00
G1+G2+Q+D4	7.94	0.00	0.00	-0.26	0.17	0.00
G1+G2+V1+0.6D1	5.88	0.00	0.00	-0.33	0.21	0.00
G1+G2+V2+0.6D2	5.83	0.00	0.00	-0.18	0.21	0.00
G1+G2+V3+0.6D3	5.59	0.00	0.00	-0.26	0.11	0.00
G1+G2+V4+0.6D4	6.12	0.00	0.00	-0.25	0.31	0.00

Fundação S12						
COMBINAÇÃO:	N (tf)	Mx (kgf.m)	My (kgf.m)	Vx (tf)	Vy (tf)	Mt (kgf/m)
Peso próprio (G1)	3.13	0.00	0.00	0.05	0.00	0.00
Adicional (G2)	1.23	0.00	0.00	-0.17	0.01	0.00
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	1.88	0.00	0.00	0.08	0.00	0.00
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.03	0.00	0.00	0.00	-0.02	0.00
Vento X- (V2)	-0.03	0.00	0.00	0.00	0.02	0.00
Vento Y+ (V3)	0.11	0.00	0.00	0.19	0.00	0.00
Vento Y- (V4)	-0.11	0.00	0.00	-0.19	0.00	0.00
Desaprumo X+ (D1)	0.02	0.00	0.00	0.00	-0.02	0.00
Desaprumo X- (D2)	-0.02	0.00	0.00	0.00	0.02	0.00
Desaprumo Y+ (D3)	0.02	0.00	0.00	0.03	0.00	0.00
Desaprumo Y- (D4)	-0.02	0.00	0.00	-0.03	0.00	0.00
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2	4.36	0.00	0.00	-0.12	0.01	0.00
G1+G2+0.6V1+0.6D1	4.39	0.00	0.00	-0.12	-0.01	0.00
G1+G2+0.6V1+D1	4.40	0.00	0.00	-0.12	-0.02	0.00
G1+G2+0.6V2+0.6D2	4.33	0.00	0.00	-0.12	0.04	0.00
G1+G2+0.6V2+D2	4.33	0.00	0.00	-0.12	0.04	0.00
G1+G2+0.6V3+0.6D3	4.44	0.00	0.00	0.01	0.01	0.00
G1+G2+0.6V3+D3	4.45	0.00	0.00	0.03	0.01	0.00
G1+G2+0.6V4+0.6D4	4.29	0.00	0.00	-0.25	0.02	0.00
G1+G2+0.6V4+D4	4.28	0.00	0.00	-0.26	0.02	0.00
G1+G2+0.7Q	5.68	0.00	0.00	-0.06	0.01	0.00
G1+G2+0.7Q+0.6V1+0.6D1	5.71	0.00	0.00	-0.06	-0.01	0.00
G1+G2+0.7Q+0.6V1+D1	5.72	0.00	0.00	-0.06	-0.01	0.00
G1+G2+0.7Q+0.6V2+0.6D2	5.65	0.00	0.00	-0.06	0.04	0.00
G1+G2+0.7Q+0.6V2+D2	5.64	0.00	0.00	-0.06	0.04	0.00
G1+G2+0.7Q+0.6V3+0.6D3	5.76	0.00	0.00	0.07	0.01	0.00
G1+G2+0.7Q+0.6V3+D3	5.76	0.00	0.00	0.08	0.01	0.00
G1+G2+0.7Q+0.6V4+0.6D4	5.60	0.00	0.00	-0.19	0.02	0.00
G1+G2+0.7Q+0.6V4+D4	5.60	0.00	0.00	-0.20	0.02	0.00
G1+G2+0.7Q+D1	5.70	0.00	0.00	-0.06	0.00	0.00
G1+G2+0.7Q+D2	5.66	0.00	0.00	-0.06	0.03	0.00
G1+G2+0.7Q+D3	5.69	0.00	0.00	-0.03	0.01	0.00



Fundação S12						
COMBINAÇÃO:	N (tf)	Mx (kgf.m)	My (kgf.m)	Vx (tf)	Vy (tf)	Mt (kgf/m)
G1+G2+0.7Q+D4	5.66	0.00	0.00	-0.09	0.01	0.00
G1+G2+0.7Q+V1+0.6D1	5.72	0.00	0.00	-0.06	-0.02	0.00
G1+G2+0.7Q+V2+0.6D2	5.64	0.00	0.00	-0.06	0.05	0.00
G1+G2+0.7Q+V3+0.6D3	5.80	0.00	0.00	0.14	0.01	0.00
G1+G2+0.7Q+V4+0.6D4	5.56	0.00	0.00	-0.27	0.02	0.00
G1+G2+D1	4.38	0.00	0.00	-0.12	0.00	0.00
G1+G2+D2	4.34	0.00	0.00	-0.12	0.03	0.00
G1+G2+D3	4.38	0.00	0.00	-0.08	0.01	0.00
G1+G2+D4	4.35	0.00	0.00	-0.15	0.01	0.00
G1+G2+Q	6.24	0.00	0.00	-0.04	0.01	0.00
G1+G2+Q+0.6V1+0.6D1	6.27	0.00	0.00	-0.04	-0.01	0.00
G1+G2+Q+0.6V2+0.6D2	6.21	0.00	0.00	-0.04	0.04	0.00
G1+G2+Q+0.6V3+0.6D3	6.32	0.00	0.00	0.09	0.01	0.00
G1+G2+Q+0.6V4+0.6D4	6.17	0.00	0.00	-0.17	0.02	0.00
G1+G2+Q+D1	6.26	0.00	0.00	-0.04	0.00	0.00
G1+G2+Q+D2	6.22	0.00	0.00	-0.04	0.03	0.00
G1+G2+Q+D3	6.26	0.00	0.00	-0.01	0.01	0.00
G1+G2+Q+D4	6.23	0.00	0.00	-0.07	0.01	0.00
G1+G2+V1+0.6D1	4.41	0.00	0.00	-0.12	-0.02	0.00
G1+G2+V2+0.6D2	4.32	0.00	0.00	-0.12	0.05	0.00
G1+G2+V3+0.6D3	4.49	0.00	0.00	0.09	0.01	0.00
G1+G2+V4+0.6D4	4.24	0.00	0.00	-0.32	0.02	0.00

Fundação S13						
COMBINAÇÃO:	N (tf)	Mx (kgf.m)	My (kgf.m)	Vx (tf)	Vy (tf)	Mt (kgf/m)
Peso próprio (G1)	3.35	0.00	0.00	0.06	0.00	0.00
Adicional (G2)	1.22	0.00	0.00	-0.24	0.01	0.00
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	1.91	0.00	0.00	0.09	0.00	0.00
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	-0.02	0.00	0.00	0.00	-0.02	0.00
Vento X- (V2)	0.02	0.00	0.00	0.00	0.02	0.00
Vento Y+ (V3)	0.22	0.00	0.00	0.24	0.00	0.00
Vento Y- (V4)	-0.22	0.00	0.00	-0.24	0.00	0.00
Desaprumo X+ (D1)	-0.01	0.00	0.00	0.00	-0.02	0.00
Desaprumo X- (D2)	0.01	0.00	0.00	0.00	0.02	0.00
Desaprumo Y+ (D3)	0.03	0.00	0.00	0.04	0.00	0.00
Desaprumo Y- (D4)	-0.03	0.00	0.00	-0.04	0.00	0.00
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2	4.57	0.00	0.00	-0.18	0.00	0.00
G1+G2+0.6V1+0.6D1	4.56	0.00	0.00	-0.18	-0.02	0.00
G1+G2+0.6V1+D1	4.55	0.00	0.00	-0.18	-0.03	0.00
G1+G2+0.6V2+0.6D2	4.59	0.00	0.00	-0.17	0.03	0.00
G1+G2+0.6V2+D2	4.59	0.00	0.00	-0.17	0.03	0.00
G1+G2+0.6V3+0.6D3	4.72	0.00	0.00	-0.01	0.00	0.00
G1+G2+0.6V3+D3	4.73	0.00	0.00	0.01	0.00	0.00
G1+G2+0.6V4+0.6D4	4.42	0.00	0.00	-0.34	0.01	0.00
G1+G2+0.6V4+D4	4.41	0.00	0.00	-0.36	0.01	0.00
G1+G2+0.7Q	5.91	0.00	0.00	-0.11	0.00	0.00
G1+G2+0.7Q+0.6V1+0.6D1	5.90	0.00	0.00	-0.11	-0.02	0.00
G1+G2+0.7Q+0.6V1+D1	5.89	0.00	0.00	-0.11	-0.03	0.00
G1+G2+0.7Q+0.6V2+0.6D2	5.93	0.00	0.00	-0.11	0.03	0.00
G1+G2+0.7Q+0.6V2+D2	5.93	0.00	0.00	-0.11	0.03	0.00



Fundação S13						
COMBINAÇÃO:	N (tf)	Mx (kgf.m)	My (kgf.m)	Vx (tf)	Vy (tf)	Mt (kgf/m)
G1+G2+0.7Q+0.6V3+0.6D3	6.06	0.00	0.00	0.06	0.00	0.00
G1+G2+0.7Q+0.6V3+D3	6.08	0.00	0.00	0.07	0.00	0.00
G1+G2+0.7Q+0.6V4+0.6D4	5.76	0.00	0.00	-0.28	0.00	0.00
G1+G2+0.7Q+0.6V4+D4	5.75	0.00	0.00	-0.29	0.00	0.00
G1+G2+0.7Q+D1	5.90	0.00	0.00	-0.11	-0.02	0.00
G1+G2+0.7Q+D2	5.92	0.00	0.00	-0.11	0.02	0.00
G1+G2+0.7Q+D3	5.94	0.00	0.00	-0.07	0.00	0.00
G1+G2+0.7Q+D4	5.88	0.00	0.00	-0.15	0.00	0.00
G1+G2+0.7Q+V1+0.6D1	5.89	0.00	0.00	-0.11	-0.03	0.00
G1+G2+0.7Q+V2+0.6D2	5.94	0.00	0.00	-0.11	0.03	0.00
G1+G2+0.7Q+V3+0.6D3	6.15	0.00	0.00	0.15	0.00	0.00
G1+G2+0.7Q+V4+0.6D4	5.68	0.00	0.00	-0.37	0.01	0.00
G1+G2+D1	4.56	0.00	0.00	-0.18	-0.01	0.00
G1+G2+D2	4.58	0.00	0.00	-0.18	0.02	0.00
G1+G2+D3	4.60	0.00	0.00	-0.14	0.00	0.00
G1+G2+D4	4.54	0.00	0.00	-0.22	0.00	0.00
G1+G2+Q	6.49	0.00	0.00	-0.08	0.00	0.00
G1+G2+Q+0.6V1+0.6D1	6.47	0.00	0.00	-0.08	-0.02	0.00
G1+G2+Q+0.6V2+0.6D2	6.50	0.00	0.00	-0.08	0.02	0.00
G1+G2+Q+0.6V3+0.6D3	6.64	0.00	0.00	0.08	0.00	0.00
G1+G2+Q+0.6V4+0.6D4	6.34	0.00	0.00	-0.25	0.00	0.00
G1+G2+Q+D1	6.48	0.00	0.00	-0.08	-0.02	0.00
G1+G2+Q+D2	6.50	0.00	0.00	-0.08	0.02	0.00
G1+G2+Q+D3	6.52	0.00	0.00	-0.04	0.00	0.00
G1+G2+Q+D4	6.46	0.00	0.00	-0.12	0.00	0.00
G1+G2+V1+0.6D1	4.55	0.00	0.00	-0.18	-0.03	0.00
G1+G2+V2+0.6D2	4.59	0.00	0.00	-0.17	0.04	0.00
G1+G2+V3+0.6D3	4.81	0.00	0.00	0.09	0.00	0.00
G1+G2+V4+0.6D4	4.33	0.00	0.00	-0.44	0.01	0.00

Fundação S14						
COMBINAÇÃO:	N (tf)	Mx (kgf.m)	My (kgf.m)	Vx (tf)	Vy (tf)	Mt (kgf/m)
Peso próprio (G1)	2.82	0.00	0.00	-0.04	0.00	0.00
Adicional (G2)	0.07	0.00	0.00	-0.05	-0.01	0.00
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	1.57	0.00	0.00	-0.07	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	0.00	0.00	0.03	0.00
Vento X- (V2)	0.00	0.00	0.00	0.00	-0.03	0.00
Vento Y+ (V3)	-0.39	0.00	0.00	-0.13	0.00	0.00
Vento Y- (V4)	0.39	0.00	0.00	0.13	0.00	0.00
Desaprumo X+ (D1)	0.00	0.00	0.00	0.00	0.02	0.00
Desaprumo X- (D2)	0.00	0.00	0.00	0.00	-0.02	0.00
Desaprumo Y+ (D3)	-0.05	0.00	0.00	-0.02	0.00	0.00
Desaprumo Y- (D4)	0.05	0.00	0.00	0.02	0.00	0.00
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2	2.89	0.00	0.00	-0.09	0.00	0.00
G1+G2+0.6V1+0.6D1	2.89	0.00	0.00	-0.09	0.02	0.00
G1+G2+0.6V1+D1	2.89	0.00	0.00	-0.09	0.03	0.00
G1+G2+0.6V2+0.6D2	2.89	0.00	0.00	-0.09	-0.03	0.00
G1+G2+0.6V2+D2	2.89	0.00	0.00	-0.09	-0.04	0.00
G1+G2+0.6V3+0.6D3	2.62	0.00	0.00	-0.18	0.00	0.00
G1+G2+0.6V3+D3	2.60	0.00	0.00	-0.19	0.00	0.00
G1+G2+0.6V4+0.6D4	3.15	0.00	0.00	0.00	-0.01	0.00



Fundação S14						
COMBINAÇÃO:	N (tf)	Mx (kgf.m)	My (kgf.m)	Vx (tf)	Vy (tf)	Mt (kgf/m)
G1+G2+0.6V4+D4	3.17	0.00	0.00	0.01	-0.01	0.00
G1+G2+0.7Q	3.98	0.00	0.00	-0.14	0.00	0.00
G1+G2+0.7Q+0.6V1+0.6D1	3.98	0.00	0.00	-0.14	0.02	0.00
G1+G2+0.7Q+0.6V1+D1	3.98	0.00	0.00	-0.14	0.03	0.00
G1+G2+0.7Q+0.6V2+0.6D2	3.99	0.00	0.00	-0.14	-0.03	0.00
G1+G2+0.7Q+0.6V2+D2	3.99	0.00	0.00	-0.14	-0.04	0.00
G1+G2+0.7Q+0.6V3+0.6D3	3.72	0.00	0.00	-0.23	0.00	0.00
G1+G2+0.7Q+0.6V3+D3	3.70	0.00	0.00	-0.24	0.00	0.00
G1+G2+0.7Q+0.6V4+0.6D4	4.25	0.00	0.00	-0.05	0.00	0.00
G1+G2+0.7Q+0.6V4+D4	4.27	0.00	0.00	-0.05	-0.01	0.00
G1+G2+0.7Q+D1	3.98	0.00	0.00	-0.14	0.02	0.00
G1+G2+0.7Q+D2	3.98	0.00	0.00	-0.14	-0.02	0.00
G1+G2+0.7Q+D3	3.93	0.00	0.00	-0.16	0.00	0.00
G1+G2+0.7Q+D4	4.03	0.00	0.00	-0.12	0.00	0.00
G1+G2+0.7Q+V1+0.6D1	3.98	0.00	0.00	-0.14	0.03	0.00
G1+G2+0.7Q+V2+0.6D2	3.99	0.00	0.00	-0.14	-0.04	0.00
G1+G2+0.7Q+V3+0.6D3	3.56	0.00	0.00	-0.28	0.00	0.00
G1+G2+0.7Q+V4+0.6D4	4.40	0.00	0.00	0.00	-0.01	0.00
G1+G2+D1	2.89	0.00	0.00	-0.09	0.01	0.00
G1+G2+D2	2.89	0.00	0.00	-0.09	-0.02	0.00
G1+G2+D3	2.84	0.00	0.00	-0.11	0.00	0.00
G1+G2+D4	2.94	0.00	0.00	-0.07	0.00	0.00
G1+G2+Q	4.45	0.00	0.00	-0.16	0.00	0.00
G1+G2+Q+0.6V1+0.6D1	4.45	0.00	0.00	-0.16	0.02	0.00
G1+G2+Q+0.6V2+0.6D2	4.46	0.00	0.00	-0.16	-0.03	0.00
G1+G2+Q+0.6V3+0.6D3	4.19	0.00	0.00	-0.25	0.00	0.00
G1+G2+Q+0.6V4+0.6D4	4.72	0.00	0.00	-0.08	0.00	0.00
G1+G2+Q+D1	4.45	0.00	0.00	-0.16	0.02	0.00
G1+G2+Q+D2	4.46	0.00	0.00	-0.16	-0.02	0.00
G1+G2+Q+D3	4.40	0.00	0.00	-0.18	0.00	0.00
G1+G2+Q+D4	4.51	0.00	0.00	-0.14	0.00	0.00
G1+G2+V1+0.6D1	2.89	0.00	0.00	-0.09	0.03	0.00
G1+G2+V2+0.6D2	2.89	0.00	0.00	-0.09	-0.04	0.00
G1+G2+V3+0.6D3	2.47	0.00	0.00	-0.23	0.00	0.00
G1+G2+V4+0.6D4	3.31	0.00	0.00	0.05	-0.01	0.00

Fundação S15						
COMBINAÇÃO:	N (tf)	Mx (kgf.m)	My (kgf.m)	Vx (tf)	Vy (tf)	Mt (kgf/m)
Peso próprio (G1)	2.64	0.00	0.00	0.06	0.00	0.00
Adicional (G2)	1.26	0.00	0.00	0.27	-0.01	0.00
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	1.50	0.00	0.00	0.03	0.00	0.00
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	-0.05	0.00	0.00	0.00	0.03	0.00
Vento X- (V2)	0.05	0.00	0.00	0.00	-0.03	0.00
Vento Y+ (V3)	0.01	0.00	0.00	-0.04	0.00	0.00
Vento Y- (V4)	-0.01	0.00	0.00	0.04	0.00	0.00
Desaprumo X+ (D1)	-0.03	0.00	0.00	0.00	0.02	0.00
Desaprumo X- (D2)	0.03	0.00	0.00	0.00	-0.02	0.00
Desaprumo Y+ (D3)	0.00	0.00	0.00	-0.01	0.00	0.00
Desaprumo Y- (D4)	0.00	0.00	0.00	0.01	0.00	0.00
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2	3.90	0.00	0.00	0.34	-0.01	0.00



Fundação S15						
COMBINAÇÃO:	N (tf)	Mx (kgf.m)	My (kgf.m)	Vx (tf)	Vy (tf)	Mt (kgf/m)
G1+G2+0.6V1+0.6D1	3.85	0.00	0.00	0.34	0.02	0.00
G1+G2+0.6V1+D1	3.84	0.00	0.00	0.34	0.03	0.00
G1+G2+0.6V2+0.6D2	3.96	0.00	0.00	0.33	-0.04	0.00
G1+G2+0.6V2+D2	3.97	0.00	0.00	0.33	-0.04	0.00
G1+G2+0.6V3+0.6D3	3.91	0.00	0.00	0.31	-0.01	0.00
G1+G2+0.6V3+D3	3.91	0.00	0.00	0.30	-0.01	0.00
G1+G2+0.6V4+0.6D4	3.90	0.00	0.00	0.36	-0.01	0.00
G1+G2+0.6V4+D4	3.90	0.00	0.00	0.37	-0.01	0.00
G1+G2+0.7Q	4.96	0.00	0.00	0.36	0.00	0.00
G1+G2+0.7Q+0.6V1+0.6D1	4.90	0.00	0.00	0.36	0.03	0.00
G1+G2+0.7Q+0.6V1+D1	4.89	0.00	0.00	0.36	0.04	0.00
G1+G2+0.7Q+0.6V2+0.6D2	5.01	0.00	0.00	0.36	-0.03	0.00
G1+G2+0.7Q+0.6V2+D2	5.02	0.00	0.00	0.35	-0.04	0.00
G1+G2+0.7Q+0.6V3+0.6D3	4.96	0.00	0.00	0.33	0.00	0.00
G1+G2+0.7Q+0.6V3+D3	4.96	0.00	0.00	0.33	0.00	0.00
G1+G2+0.7Q+0.6V4+0.6D4	4.95	0.00	0.00	0.38	0.00	0.00
G1+G2+0.7Q+0.6V4+D4	4.95	0.00	0.00	0.39	0.00	0.00
G1+G2+0.7Q+D1	4.92	0.00	0.00	0.36	0.02	0.00
G1+G2+0.7Q+D2	4.99	0.00	0.00	0.36	-0.02	0.00
G1+G2+0.7Q+D3	4.96	0.00	0.00	0.35	0.00	0.00
G1+G2+0.7Q+D4	4.96	0.00	0.00	0.36	0.00	0.00
G1+G2+0.7Q+V1+0.6D1	4.88	0.00	0.00	0.36	0.04	0.00
G1+G2+0.7Q+V2+0.6D2	5.03	0.00	0.00	0.35	-0.05	0.00
G1+G2+0.7Q+V3+0.6D3	4.96	0.00	0.00	0.31	0.00	0.00
G1+G2+0.7Q+V4+0.6D4	4.95	0.00	0.00	0.40	0.00	0.00
G1+G2+D1	3.87	0.00	0.00	0.34	0.02	0.00
G1+G2+D2	3.94	0.00	0.00	0.33	-0.03	0.00
G1+G2+D3	3.90	0.00	0.00	0.33	-0.01	0.00
G1+G2+D4	3.90	0.00	0.00	0.34	-0.01	0.00
G1+G2+Q	5.41	0.00	0.00	0.36	0.00	0.00
G1+G2+Q+0.6V1+0.6D1	5.35	0.00	0.00	0.37	0.03	0.00
G1+G2+Q+0.6V2+0.6D2	5.46	0.00	0.00	0.36	-0.03	0.00
G1+G2+Q+0.6V3+0.6D3	5.41	0.00	0.00	0.34	0.00	0.00
G1+G2+Q+0.6V4+0.6D4	5.40	0.00	0.00	0.39	0.00	0.00
G1+G2+Q+D1	5.37	0.00	0.00	0.37	0.02	0.00
G1+G2+Q+D2	5.44	0.00	0.00	0.36	-0.02	0.00
G1+G2+Q+D3	5.41	0.00	0.00	0.36	0.00	0.00
G1+G2+Q+D4	5.41	0.00	0.00	0.37	0.00	0.00
G1+G2+V1+0.6D1	3.83	0.00	0.00	0.34	0.04	0.00
G1+G2+V2+0.6D2	3.98	0.00	0.00	0.33	-0.05	0.00
G1+G2+V3+0.6D3	3.91	0.00	0.00	0.29	-0.01	0.00
G1+G2+V4+0.6D4	3.90	0.00	0.00	0.38	-0.01	0.00

Fundação S16						
COMBINAÇÃO:	N (tf)	Mx (kgf.m)	My (kgf.m)	Vx (tf)	Vy (tf)	Mt (kgf/m)
Peso próprio (G1)	2.56	0.00	0.00	-0.02	0.01	0.00
Adicional (G2)	0.07	0.00	0.00	0.02	-0.01	0.00
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	1.43	0.00	0.00	-0.03	0.01	0.00
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.02	0.00	0.00	-0.05	0.00	0.00
Vento X- (V2)	-0.02	0.00	0.00	0.05	0.00	0.00
Vento Y+ (V3)	-0.04	0.00	0.00	0.00	-0.12	0.00
Vento Y- (V4)	0.04	0.00	0.00	0.00	0.12	0.00



Fundação S16						
COMBINAÇÃO:	N (tf)	Mx (kgf.m)	My (kgf.m)	Vx (tf)	Vy (tf)	Mt (kgf/m)
Desaprumo X+ (D1)	0.01	0.00	0.00	-0.04	0.00	0.00
Desaprumo X- (D2)	-0.01	0.00	0.00	0.04	0.00	0.00
Desaprumo Y+ (D3)	0.00	0.00	0.00	0.00	-0.02	0.00
Desaprumo Y- (D4)	0.00	0.00	0.00	0.00	0.02	0.00
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2	2.63	0.00	0.00	0.00	0.00	0.00
G1+G2+0.6V1+0.6D1	2.65	0.00	0.00	-0.05	0.00	0.00
G1+G2+0.6V1+D1	2.65	0.00	0.00	-0.07	0.00	0.00
G1+G2+0.6V2+0.6D2	2.61	0.00	0.00	0.05	0.00	0.00
G1+G2+0.6V2+D2	2.61	0.00	0.00	0.07	0.00	0.00
G1+G2+0.6V3+0.6D3	2.61	0.00	0.00	0.00	-0.09	0.00
G1+G2+0.6V3+D3	2.60	0.00	0.00	0.00	-0.09	0.00
G1+G2+0.6V4+0.6D4	2.66	0.00	0.00	0.00	0.08	0.00
G1+G2+0.6V4+D4	2.66	0.00	0.00	0.00	0.08	0.00
G1+G2+0.7Q	3.63	0.00	0.00	-0.02	0.00	0.00
G1+G2+0.7Q+0.6V1+0.6D1	3.65	0.00	0.00	-0.07	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	3.65	0.00	0.00	-0.09	0.00	0.00
G1+G2+0.7Q+0.6V2+0.6D2	3.61	0.00	0.00	0.03	0.00	0.00
G1+G2+0.7Q+0.6V2+D2	3.61	0.00	0.00	0.05	0.00	0.00
G1+G2+0.7Q+0.6V3+0.6D3	3.61	0.00	0.00	-0.02	-0.08	0.00
G1+G2+0.7Q+0.6V3+D3	3.60	0.00	0.00	-0.02	-0.09	0.00
G1+G2+0.7Q+0.6V4+0.6D4	3.66	0.00	0.00	-0.02	0.08	0.00
G1+G2+0.7Q+0.6V4+D4	3.66	0.00	0.00	-0.02	0.09	0.00
G1+G2+0.7Q+D1	3.64	0.00	0.00	-0.06	0.00	0.00
G1+G2+0.7Q+D2	3.62	0.00	0.00	0.02	0.00	0.00
G1+G2+0.7Q+D3	3.63	0.00	0.00	-0.02	-0.02	0.00
G1+G2+0.7Q+D4	3.64	0.00	0.00	-0.02	0.02	0.00
G1+G2+0.7Q+V1+0.6D1	3.65	0.00	0.00	-0.09	0.00	0.00
G1+G2+0.7Q+V2+0.6D2	3.61	0.00	0.00	0.05	0.00	0.00
G1+G2+0.7Q+V3+0.6D3	3.59	0.00	0.00	-0.02	-0.13	0.00
G1+G2+0.7Q+V4+0.6D4	3.67	0.00	0.00	-0.02	0.13	0.00
G1+G2+D1	2.64	0.00	0.00	-0.04	0.00	0.00
G1+G2+D2	2.62	0.00	0.00	0.04	0.00	0.00
G1+G2+D3	2.63	0.00	0.00	0.00	-0.02	0.00
G1+G2+D4	2.64	0.00	0.00	0.00	0.01	0.00
G1+G2+Q	4.06	0.00	0.00	-0.03	0.00	0.00
G1+G2+Q+0.6V1+0.6D1	4.08	0.00	0.00	-0.08	0.00	0.00
G1+G2+Q+0.6V2+0.6D2	4.04	0.00	0.00	0.03	0.00	0.00
G1+G2+Q+0.6V3+0.6D3	4.03	0.00	0.00	-0.03	-0.08	0.00
G1+G2+Q+0.6V4+0.6D4	4.08	0.00	0.00	-0.03	0.08	0.00
G1+G2+Q+D1	4.07	0.00	0.00	-0.07	0.00	0.00
G1+G2+Q+D2	4.05	0.00	0.00	0.01	0.00	0.00
G1+G2+Q+D3	4.05	0.00	0.00	-0.03	-0.01	0.00
G1+G2+Q+D4	4.06	0.00	0.00	-0.03	0.02	0.00
G1+G2+V1+0.6D1	2.65	0.00	0.00	-0.07	-0.01	0.00
G1+G2+V2+0.6D2	2.61	0.00	0.00	0.07	0.00	0.00
G1+G2+V3+0.6D3	2.59	0.00	0.00	0.00	-0.13	0.00
G1+G2+V4+0.6D4	2.67	0.00	0.00	0.00	0.12	0.00

Fundação S17						
COMBINAÇÃO:	N (tf)	Mx (kgf.m)	My (kgf.m)	Vx (tf)	Vy (tf)	Mt (kgf/m)
Peso próprio (G1)	3.00	0.00	0.00	-0.01	0.00	0.00
Adicional (G2)	1.20	0.00	0.00	0.21	0.00	0.00



Fundação S17						
COMBINAÇÃO:	N (tf)	Mx (kgf.m)	My (kgf.m)	Vx (tf)	Vy (tf)	Mt (kgf/m)
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	1.48	0.00	0.00	-0.03	0.00	0.00
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.06	0.00	0.00	0.00	0.03	0.00
Vento X- (V2)	-0.06	0.00	0.00	0.00	-0.03	0.00
Vento Y+ (V3)	0.22	0.00	0.00	-0.22	0.00	0.00
Vento Y- (V4)	-0.22	0.00	0.00	0.22	0.00	0.00
Desaprumo X+ (D1)	0.03	0.00	0.00	0.00	0.02	0.00
Desaprumo X- (D2)	-0.03	0.00	0.00	0.00	-0.02	0.00
Desaprumo Y+ (D3)	0.03	0.00	0.00	-0.03	0.00	0.00
Desaprumo Y- (D4)	-0.03	0.00	0.00	0.03	0.00	0.00
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2	4.20	0.00	0.00	0.20	0.00	0.00
G1+G2+0.6V1+0.6D1	4.25	0.00	0.00	0.20	0.02	0.00
G1+G2+0.6V1+D1	4.26	0.00	0.00	0.20	0.03	0.00
G1+G2+0.6V2+0.6D2	4.14	0.00	0.00	0.20	-0.03	0.00
G1+G2+0.6V2+D2	4.13	0.00	0.00	0.20	-0.04	0.00
G1+G2+0.6V3+0.6D3	4.35	0.00	0.00	0.05	0.00	0.00
G1+G2+0.6V3+D3	4.36	0.00	0.00	0.04	0.00	0.00
G1+G2+0.6V4+0.6D4	4.05	0.00	0.00	0.35	-0.01	0.00
G1+G2+0.6V4+D4	4.04	0.00	0.00	0.37	-0.01	0.00
G1+G2+0.7Q	5.23	0.00	0.00	0.18	0.00	0.00
G1+G2+0.7Q+0.6V1+0.6D1	5.29	0.00	0.00	0.18	0.02	0.00
G1+G2+0.7Q+0.6V1+D1	5.30	0.00	0.00	0.18	0.03	0.00
G1+G2+0.7Q+0.6V2+0.6D2	5.18	0.00	0.00	0.18	-0.03	0.00
G1+G2+0.7Q+0.6V2+D2	5.16	0.00	0.00	0.18	-0.04	0.00
G1+G2+0.7Q+0.6V3+0.6D3	5.38	0.00	0.00	0.03	0.00	0.00
G1+G2+0.7Q+0.6V3+D3	5.39	0.00	0.00	0.02	0.00	0.00
G1+G2+0.7Q+0.6V4+0.6D4	5.08	0.00	0.00	0.33	-0.01	0.00
G1+G2+0.7Q+0.6V4+D4	5.07	0.00	0.00	0.35	-0.01	0.00
G1+G2+0.7Q+D1	5.27	0.00	0.00	0.18	0.01	0.00
G1+G2+0.7Q+D2	5.20	0.00	0.00	0.18	-0.02	0.00
G1+G2+0.7Q+D3	5.26	0.00	0.00	0.15	0.00	0.00
G1+G2+0.7Q+D4	5.20	0.00	0.00	0.22	-0.01	0.00
G1+G2+0.7Q+V1+0.6D1	5.31	0.00	0.00	0.18	0.03	0.00
G1+G2+0.7Q+V2+0.6D2	5.16	0.00	0.00	0.18	-0.04	0.00
G1+G2+0.7Q+V3+0.6D3	5.47	0.00	0.00	-0.06	0.00	0.00
G1+G2+0.7Q+V4+0.6D4	5.00	0.00	0.00	0.42	-0.01	0.00
G1+G2+D1	4.23	0.00	0.00	0.20	0.01	0.00
G1+G2+D2	4.16	0.00	0.00	0.20	-0.02	0.00
G1+G2+D3	4.23	0.00	0.00	0.17	0.00	0.00
G1+G2+D4	4.17	0.00	0.00	0.24	-0.01	0.00
G1+G2+Q	5.68	0.00	0.00	0.17	-0.01	0.00
G1+G2+Q+0.6V1+0.6D1	5.73	0.00	0.00	0.17	0.02	0.00
G1+G2+Q+0.6V2+0.6D2	5.62	0.00	0.00	0.17	-0.03	0.00
G1+G2+Q+0.6V3+0.6D3	5.83	0.00	0.00	0.02	0.00	0.00
G1+G2+Q+0.6V4+0.6D4	5.53	0.00	0.00	0.32	-0.01	0.00
G1+G2+Q+D1	5.71	0.00	0.00	0.17	0.01	0.00
G1+G2+Q+D2	5.64	0.00	0.00	0.17	-0.02	0.00
G1+G2+Q+D3	5.71	0.00	0.00	0.14	0.00	0.00
G1+G2+Q+D4	5.65	0.00	0.00	0.21	-0.01	0.00
G1+G2+V1+0.6D1	4.27	0.00	0.00	0.20	0.03	0.00
G1+G2+V2+0.6D2	4.12	0.00	0.00	0.20	-0.04	0.00
G1+G2+V3+0.6D3	4.43	0.00	0.00	-0.04	0.00	0.00
G1+G2+V4+0.6D4	3.96	0.00	0.00	0.44	-0.01	0.00



Fundação S18						
COMBINAÇÃO:	N (tf)	Mx (kgf.m)	My (kgf.m)	Vx (tf)	Vy (tf)	Mt (kgf/m)
Peso próprio (G1)	4.07	0.00	0.00	0.02	0.00	0.00
Adicional (G2)	1.56	0.00	0.00	-0.17	0.06	0.00
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	2.35	0.00	0.00	0.02	-0.02	0.00
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	-0.01	0.00	0.00	0.00	-0.02	0.00
Vento X- (V2)	0.01	0.00	0.00	0.00	0.02	0.00
Vento Y+ (V3)	0.14	0.00	0.00	0.21	0.00	0.00
Vento Y- (V4)	-0.14	0.00	0.00	-0.21	0.00	0.00
Desaprumo X+ (D1)	-0.01	0.00	0.00	0.00	-0.02	0.00
Desaprumo X- (D2)	0.01	0.00	0.00	0.00	0.02	0.00
Desaprumo Y+ (D3)	0.02	0.00	0.00	0.03	0.00	0.00
Desaprumo Y- (D4)	-0.02	0.00	0.00	-0.03	0.00	0.00
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2	5.62	0.00	0.00	-0.15	0.06	0.00
G1+G2+0.6V1+0.6D1	5.61	0.00	0.00	-0.15	0.04	0.00
G1+G2+0.6V1+D1	5.61	0.00	0.00	-0.15	0.03	0.00
G1+G2+0.6V2+0.6D2	5.64	0.00	0.00	-0.15	0.08	0.00
G1+G2+0.6V2+D2	5.64	0.00	0.00	-0.15	0.09	0.00
G1+G2+0.6V3+0.6D3	5.72	0.00	0.00	-0.01	0.06	0.00
G1+G2+0.6V3+D3	5.73	0.00	0.00	0.01	0.06	0.00
G1+G2+0.6V4+0.6D4	5.53	0.00	0.00	-0.30	0.06	0.00
G1+G2+0.6V4+D4	5.52	0.00	0.00	-0.32	0.06	0.00
G1+G2+0.7Q	7.27	0.00	0.00	-0.14	0.05	0.00
G1+G2+0.7Q+0.6V1+0.6D1	7.26	0.00	0.00	-0.14	0.02	0.00
G1+G2+0.7Q+0.6V1+D1	7.25	0.00	0.00	-0.14	0.02	0.00
G1+G2+0.7Q+0.6V2+0.6D2	7.28	0.00	0.00	-0.14	0.07	0.00
G1+G2+0.7Q+0.6V2+D2	7.29	0.00	0.00	-0.14	0.07	0.00
G1+G2+0.7Q+0.6V3+0.6D3	7.37	0.00	0.00	0.01	0.04	0.00
G1+G2+0.7Q+0.6V3+D3	7.37	0.00	0.00	0.02	0.04	0.00
G1+G2+0.7Q+0.6V4+0.6D4	7.18	0.00	0.00	-0.29	0.05	0.00
G1+G2+0.7Q+0.6V4+D4	7.17	0.00	0.00	-0.30	0.05	0.00
G1+G2+0.7Q+D1	7.26	0.00	0.00	-0.14	0.03	0.00
G1+G2+0.7Q+D2	7.28	0.00	0.00	-0.14	0.06	0.00
G1+G2+0.7Q+D3	7.29	0.00	0.00	-0.10	0.04	0.00
G1+G2+0.7Q+D4	7.25	0.00	0.00	-0.17	0.05	0.00
G1+G2+0.7Q+V1+0.6D1	7.25	0.00	0.00	-0.14	0.01	0.00
G1+G2+0.7Q+V2+0.6D2	7.29	0.00	0.00	-0.14	0.08	0.00
G1+G2+0.7Q+V3+0.6D3	7.42	0.00	0.00	0.09	0.04	0.00
G1+G2+0.7Q+V4+0.6D4	7.12	0.00	0.00	-0.37	0.05	0.00
G1+G2+D1	5.62	0.00	0.00	-0.15	0.04	0.00
G1+G2+D2	5.63	0.00	0.00	-0.15	0.08	0.00
G1+G2+D3	5.64	0.00	0.00	-0.12	0.06	0.00
G1+G2+D4	5.60	0.00	0.00	-0.19	0.06	0.00
G1+G2+Q	7.98	0.00	0.00	-0.13	0.04	0.00
G1+G2+Q+0.6V1+0.6D1	7.96	0.00	0.00	-0.13	0.02	0.00
G1+G2+Q+0.6V2+0.6D2	7.99	0.00	0.00	-0.13	0.06	0.00
G1+G2+Q+0.6V3+0.6D3	8.07	0.00	0.00	0.02	0.04	0.00
G1+G2+Q+0.6V4+0.6D4	7.88	0.00	0.00	-0.28	0.04	0.00
G1+G2+Q+D1	7.97	0.00	0.00	-0.13	0.02	0.00
G1+G2+Q+D2	7.98	0.00	0.00	-0.13	0.05	0.00
G1+G2+Q+D3	7.99	0.00	0.00	-0.10	0.04	0.00
G1+G2+Q+D4	7.96	0.00	0.00	-0.17	0.04	0.00



Fundação S18						
COMBINAÇÃO:	N (tf)	Mx (kgf.m)	My (kgf.m)	Vx (tf)	Vy (tf)	Mt (kgf/m)
G1+G2+V1+0.6D1	5.60	0.00	0.00	-0.15	0.03	0.00
G1+G2+V2+0.6D2	5.64	0.00	0.00	-0.15	0.09	0.00
G1+G2+V3+0.6D3	5.77	0.00	0.00	0.08	0.06	0.00
G1+G2+V4+0.6D4	5.47	0.00	0.00	-0.39	0.06	0.00

Fundação S19						
COMBINAÇÃO:	N (tf)	Mx (kgf.m)	My (kgf.m)	Vx (tf)	Vy (tf)	Mt (kgf/m)
Peso próprio (G1)	2.80	0.00	0.00	0.00	-0.01	0.00
Adicional (G2)	1.47	0.00	0.00	0.11	-0.12	0.00
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	1.18	0.00	0.00	-0.07	0.01	0.00
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.04	0.00	0.00	0.02	0.00	0.00
Vento X- (V2)	-0.04	0.00	0.00	-0.02	0.00	0.00
Vento Y+ (V3)	0.05	0.00	0.00	0.00	0.08	0.00
Vento Y- (V4)	-0.05	0.00	0.00	0.00	-0.08	0.00
Desaprumo X+ (D1)	0.02	0.00	0.00	0.02	0.00	0.00
Desaprumo X- (D2)	-0.02	0.00	0.00	-0.02	0.00	0.00
Desaprumo Y+ (D3)	0.01	0.00	0.00	0.00	0.02	0.00
Desaprumo Y- (D4)	-0.01	0.00	0.00	0.00	-0.02	0.00
Supressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2	4.27	0.00	0.00	0.10	-0.13	0.00
G1+G2+0.6V1+0.6D1	4.31	0.00	0.00	0.13	-0.13	0.00
G1+G2+0.6V1+D1	4.32	0.00	0.00	0.13	-0.13	0.00
G1+G2+0.6V2+0.6D2	4.23	0.00	0.00	0.08	-0.13	0.00
G1+G2+0.6V2+D2	4.22	0.00	0.00	0.08	-0.13	0.00
G1+G2+0.6V3+0.6D3	4.30	0.00	0.00	0.10	-0.07	0.00
G1+G2+0.6V3+D3	4.31	0.00	0.00	0.10	-0.06	0.00
G1+G2+0.6V4+0.6D4	4.24	0.00	0.00	0.10	-0.19	0.00
G1+G2+0.6V4+D4	4.24	0.00	0.00	0.10	-0.19	0.00
G1+G2+0.7Q	5.10	0.00	0.00	0.05	-0.12	0.00
G1+G2+0.7Q+0.6V1+0.6D1	5.14	0.00	0.00	0.07	-0.12	0.00
G1+G2+0.7Q+0.6V1+D1	5.15	0.00	0.00	0.08	-0.12	0.00
G1+G2+0.7Q+0.6V2+0.6D2	5.06	0.00	0.00	0.03	-0.12	0.00
G1+G2+0.7Q+0.6V2+D2	5.05	0.00	0.00	0.03	-0.12	0.00
G1+G2+0.7Q+0.6V3+0.6D3	5.13	0.00	0.00	0.05	-0.06	0.00
G1+G2+0.7Q+0.6V3+D3	5.13	0.00	0.00	0.05	-0.06	0.00
G1+G2+0.7Q+0.6V4+0.6D4	5.07	0.00	0.00	0.05	-0.18	0.00
G1+G2+0.7Q+0.6V4+D4	5.06	0.00	0.00	0.05	-0.19	0.00
G1+G2+0.7Q+D1	5.12	0.00	0.00	0.07	-0.12	0.00
G1+G2+0.7Q+D2	5.07	0.00	0.00	0.04	-0.12	0.00
G1+G2+0.7Q+D3	5.11	0.00	0.00	0.05	-0.11	0.00
G1+G2+0.7Q+D4	5.09	0.00	0.00	0.05	-0.14	0.00
G1+G2+0.7Q+V1+0.6D1	5.15	0.00	0.00	0.08	-0.12	0.00
G1+G2+0.7Q+V2+0.6D2	5.05	0.00	0.00	0.03	-0.12	0.00
G1+G2+0.7Q+V3+0.6D3	5.15	0.00	0.00	0.05	-0.03	0.00
G1+G2+0.7Q+V4+0.6D4	5.05	0.00	0.00	0.05	-0.22	0.00
G1+G2+D1	4.30	0.00	0.00	0.12	-0.13	0.00
G1+G2+D2	4.25	0.00	0.00	0.09	-0.13	0.00
G1+G2+D3	4.28	0.00	0.00	0.10	-0.11	0.00
G1+G2+D4	4.27	0.00	0.00	0.10	-0.14	0.00
G1+G2+Q	5.45	0.00	0.00	0.03	-0.12	0.00
G1+G2+Q+0.6V1+0.6D1	5.49	0.00	0.00	0.05	-0.12	0.00
G1+G2+Q+0.6V2+0.6D2	5.42	0.00	0.00	0.01	-0.12	0.00



Fundação S19						
COMBINAÇÃO:	N (tf)	Mx (kgf.m)	My (kgf.m)	Vx (tf)	Vy (tf)	Mt (kgf/m)
G1+G2+Q+0.6V3+0.6D3	5.49	0.00	0.00	0.03	-0.06	0.00
G1+G2+Q+0.6V4+0.6D4	5.42	0.00	0.00	0.03	-0.18	0.00
G1+G2+Q+D1	5.48	0.00	0.00	0.05	-0.12	0.00
G1+G2+Q+D2	5.43	0.00	0.00	0.02	-0.12	0.00
G1+G2+Q+D3	5.46	0.00	0.00	0.03	-0.11	0.00
G1+G2+Q+D4	5.45	0.00	0.00	0.03	-0.14	0.00
G1+G2+V1+0.6D1	4.33	0.00	0.00	0.13	-0.13	0.00
G1+G2+V2+0.6D2	4.22	0.00	0.00	0.08	-0.13	0.00
G1+G2+V3+0.6D3	4.32	0.00	0.00	0.10	-0.03	0.00
G1+G2+V4+0.6D4	4.22	0.00	0.00	0.10	-0.22	0.00

Fundação S20						
COMBINAÇÃO:	N (tf)	Mx (kgf.m)	My (kgf.m)	Vx (tf)	Vy (tf)	Mt (kgf/m)
Peso próprio (G1)	3.37	0.00	0.00	0.04	-0.02	0.00
Adicional (G2)	4.51	0.00	0.00	0.66	-0.10	0.00
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	1.16	0.00	0.00	-0.09	0.00	0.00
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	-0.08	0.00	0.00	-0.03	0.00	0.00
Vento X- (V2)	0.08	0.00	0.00	0.03	0.00	0.00
Vento Y+ (V3)	-0.07	0.00	0.00	0.01	-0.15	0.00
Vento Y- (V4)	0.07	0.00	0.00	-0.01	0.15	0.00
Desaprumo X+ (D1)	-0.05	0.00	0.00	-0.03	0.00	0.00
Desaprumo X- (D2)	0.05	0.00	0.00	0.03	0.00	0.00
Desaprumo Y+ (D3)	-0.01	0.00	0.00	0.00	-0.03	0.00
Desaprumo Y- (D4)	0.01	0.00	0.00	0.00	0.03	0.00
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2	7.88	0.00	0.00	0.69	-0.11	0.00
G1+G2+0.6V1+0.6D1	7.80	0.00	0.00	0.66	-0.11	0.00
G1+G2+0.6V1+D1	7.79	0.00	0.00	0.64	-0.11	0.00
G1+G2+0.6V2+0.6D2	7.95	0.00	0.00	0.73	-0.11	0.00
G1+G2+0.6V2+D2	7.97	0.00	0.00	0.74	-0.11	0.00
G1+G2+0.6V3+0.6D3	7.83	0.00	0.00	0.70	-0.22	0.00
G1+G2+0.6V3+D3	7.83	0.00	0.00	0.70	-0.23	0.00
G1+G2+0.6V4+0.6D4	7.93	0.00	0.00	0.69	0.00	0.00
G1+G2+0.6V4+D4	7.93	0.00	0.00	0.69	0.01	0.00
G1+G2+0.7Q	8.69	0.00	0.00	0.63	-0.11	0.00
G1+G2+0.7Q+0.6V1+0.6D1	8.62	0.00	0.00	0.60	-0.11	0.00
G1+G2+0.7Q+0.6V1+D1	8.60	0.00	0.00	0.58	-0.11	0.00
G1+G2+0.7Q+0.6V2+0.6D2	8.77	0.00	0.00	0.67	-0.11	0.00
G1+G2+0.7Q+0.6V2+D2	8.78	0.00	0.00	0.68	-0.11	0.00
G1+G2+0.7Q+0.6V3+0.6D3	8.64	0.00	0.00	0.64	-0.22	0.00
G1+G2+0.7Q+0.6V3+D3	8.64	0.00	0.00	0.64	-0.23	0.00
G1+G2+0.7Q+0.6V4+0.6D4	8.74	0.00	0.00	0.63	0.00	0.00
G1+G2+0.7Q+0.6V4+D4	8.74	0.00	0.00	0.63	0.01	0.00
G1+G2+0.7Q+D1	8.64	0.00	0.00	0.60	-0.11	0.00
G1+G2+0.7Q+D2	8.74	0.00	0.00	0.67	-0.11	0.00
G1+G2+0.7Q+D3	8.68	0.00	0.00	0.63	-0.14	0.00
G1+G2+0.7Q+D4	8.70	0.00	0.00	0.63	-0.08	0.00
G1+G2+0.7Q+V1+0.6D1	8.59	0.00	0.00	0.59	-0.11	0.00
G1+G2+0.7Q+V2+0.6D2	8.80	0.00	0.00	0.68	-0.11	0.00
G1+G2+0.7Q+V3+0.6D3	8.61	0.00	0.00	0.64	-0.28	0.00
G1+G2+0.7Q+V4+0.6D4	8.77	0.00	0.00	0.63	0.06	0.00



Fundação S20						
COMBINAÇÃO:	N (tf)	Mx (kgf.m)	My (kgf.m)	Vx (tf)	Vy (tf)	Mt (kgf/m)
G1+G2+D1	7.83	0.00	0.00	0.66	-0.11	0.00
G1+G2+D2	7.93	0.00	0.00	0.72	-0.11	0.00
G1+G2+D3	7.87	0.00	0.00	0.69	-0.14	0.00
G1+G2+D4	7.89	0.00	0.00	0.69	-0.08	0.00
G1+G2+Q	9.04	0.00	0.00	0.61	-0.11	0.00
G1+G2+Q+0.6V1+0.6D1	8.96	0.00	0.00	0.57	-0.11	0.00
G1+G2+Q+0.6V2+0.6D2	9.11	0.00	0.00	0.64	-0.11	0.00
G1+G2+Q+0.6V3+0.6D3	8.99	0.00	0.00	0.61	-0.22	0.00
G1+G2+Q+0.6V4+0.6D4	9.09	0.00	0.00	0.60	0.00	0.00
G1+G2+Q+D1	8.99	0.00	0.00	0.58	-0.11	0.00
G1+G2+Q+D2	9.09	0.00	0.00	0.64	-0.11	0.00
G1+G2+Q+D3	9.03	0.00	0.00	0.61	-0.14	0.00
G1+G2+Q+D4	9.05	0.00	0.00	0.61	-0.08	0.00
G1+G2+V1+0.6D1	7.77	0.00	0.00	0.64	-0.11	0.00
G1+G2+V2+0.6D2	7.98	0.00	0.00	0.74	-0.11	0.00
G1+G2+V3+0.6D3	7.80	0.00	0.00	0.70	-0.28	0.00
G1+G2+V4+0.6D4	7.96	0.00	0.00	0.69	0.06	0.00

Fundação S21						
COMBINAÇÃO:	N (tf)	Mx (kgf.m)	My (kgf.m)	Vx (tf)	Vy (tf)	Mt (kgf/m)
Peso próprio (G1)	3.64	0.00	0.00	-0.04	0.00	0.00
Adicional (G2)	3.23	0.00	0.00	-0.34	-0.04	0.00
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	2.16	0.00	0.00	0.03	0.01	0.00
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.02	0.00	0.00	-0.05	0.00	0.00
Vento X- (V2)	-0.02	0.00	0.00	0.05	0.00	0.00
Vento Y+ (V3)	0.02	0.00	0.00	0.01	0.00	0.00
Vento Y- (V4)	-0.02	0.00	0.00	-0.01	0.00	0.00
Desaprumo X+ (D1)	0.01	0.00	0.00	-0.05	0.00	0.00
Desaprumo X- (D2)	-0.01	0.00	0.00	0.05	0.00	0.00
Desaprumo Y+ (D3)	0.00	0.00	0.00	0.00	-0.01	0.00
Desaprumo Y- (D4)	0.00	0.00	0.00	0.00	0.01	0.00
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2	6.87	0.00	0.00	-0.38	-0.03	0.00
G1+G2+0.6V1+0.6D1	6.89	0.00	0.00	-0.44	-0.03	0.00
G1+G2+0.6V1+D1	6.90	0.00	0.00	-0.46	-0.03	0.00
G1+G2+0.6V2+0.6D2	6.85	0.00	0.00	-0.33	-0.03	0.00
G1+G2+0.6V2+D2	6.84	0.00	0.00	-0.31	-0.03	0.00
G1+G2+0.6V3+0.6D3	6.88	0.00	0.00	-0.38	-0.04	0.00
G1+G2+0.6V3+D3	6.88	0.00	0.00	-0.38	-0.04	0.00
G1+G2+0.6V4+0.6D4	6.86	0.00	0.00	-0.39	-0.03	0.00
G1+G2+0.6V4+D4	6.86	0.00	0.00	-0.39	-0.03	0.00
G1+G2+0.7Q	8.38	0.00	0.00	-0.37	-0.03	0.00
G1+G2+0.7Q+0.6V1+0.6D1	8.40	0.00	0.00	-0.42	-0.03	0.00
G1+G2+0.7Q+0.6V1+D1	8.41	0.00	0.00	-0.44	-0.03	0.00
G1+G2+0.7Q+0.6V2+0.6D2	8.36	0.00	0.00	-0.31	-0.03	0.00
G1+G2+0.7Q+0.6V2+D2	8.36	0.00	0.00	-0.29	-0.03	0.00
G1+G2+0.7Q+0.6V3+0.6D3	8.40	0.00	0.00	-0.36	-0.03	0.00
G1+G2+0.7Q+0.6V3+D3	8.40	0.00	0.00	-0.36	-0.04	0.00
G1+G2+0.7Q+0.6V4+0.6D4	8.37	0.00	0.00	-0.37	-0.02	0.00
G1+G2+0.7Q+0.6V4+D4	8.37	0.00	0.00	-0.37	-0.02	0.00
G1+G2+0.7Q+D1	8.40	0.00	0.00	-0.41	-0.03	0.00
G1+G2+0.7Q+D2	8.37	0.00	0.00	-0.32	-0.03	0.00



Fundação S21						
COMBINAÇÃO:	N (tf)	Mx (kgf.m)	My (kgf.m)	Vx (tf)	Vy (tf)	Mt (kgf/m)
G1+G2+0.7Q+D3	8.38	0.00	0.00	-0.36	-0.03	0.00
G1+G2+0.7Q+D4	8.38	0.00	0.00	-0.37	-0.02	0.00
G1+G2+0.7Q+V1+0.6D1	8.41	0.00	0.00	-0.44	-0.03	0.00
G1+G2+0.7Q+V2+0.6D2	8.35	0.00	0.00	-0.29	-0.03	0.00
G1+G2+0.7Q+V3+0.6D3	8.40	0.00	0.00	-0.36	-0.04	0.00
G1+G2+0.7Q+V4+0.6D4	8.36	0.00	0.00	-0.37	-0.02	0.00
G1+G2+D1	6.88	0.00	0.00	-0.43	-0.03	0.00
G1+G2+D2	6.86	0.00	0.00	-0.34	-0.03	0.00
G1+G2+D3	6.87	0.00	0.00	-0.38	-0.04	0.00
G1+G2+D4	6.87	0.00	0.00	-0.39	-0.03	0.00
G1+G2+Q	9.03	0.00	0.00	-0.36	-0.03	0.00
G1+G2+Q+0.6V1+0.6D1	9.05	0.00	0.00	-0.41	-0.03	0.00
G1+G2+Q+0.6V2+0.6D2	9.01	0.00	0.00	-0.30	-0.03	0.00
G1+G2+Q+0.6V3+0.6D3	9.04	0.00	0.00	-0.35	-0.03	0.00
G1+G2+Q+0.6V4+0.6D4	9.02	0.00	0.00	-0.36	-0.02	0.00
G1+G2+Q+D1	9.04	0.00	0.00	-0.40	-0.03	0.00
G1+G2+Q+D2	9.02	0.00	0.00	-0.31	-0.03	0.00
G1+G2+Q+D3	9.03	0.00	0.00	-0.36	-0.03	0.00
G1+G2+Q+D4	9.03	0.00	0.00	-0.36	-0.02	0.00
G1+G2+V1+0.6D1	6.90	0.00	0.00	-0.46	-0.03	0.00
G1+G2+V2+0.6D2	6.84	0.00	0.00	-0.31	-0.03	0.00
G1+G2+V3+0.6D3	6.89	0.00	0.00	-0.38	-0.04	0.00
G1+G2+V4+0.6D4	6.85	0.00	0.00	-0.39	-0.03	0.00

Fundação S22						
COMBINAÇÃO:	N (tf)	Mx (kgf.m)	My (kgf.m)	Vx (tf)	Vy (tf)	Mt (kgf/m)
Peso próprio (G1)	2.83	0.00	0.00	-0.01	0.01	0.00
Adicional (G2)	2.90	0.00	0.00	0.20	0.01	0.00
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	1.61	0.00	0.00	-0.02	0.01	0.00
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.03	0.00	0.00	0.00	-0.02	0.00
Vento X- (V2)	-0.03	0.00	0.00	0.00	0.02	0.00
Vento Y+ (V3)	-0.12	0.00	0.00	0.19	0.00	0.00
Vento Y- (V4)	0.12	0.00	0.00	-0.19	0.00	0.00
Desaprumo X+ (D1)	0.02	0.00	0.00	0.00	-0.02	0.00
Desaprumo X- (D2)	-0.02	0.00	0.00	0.00	0.02	0.00
Desaprumo Y+ (D3)	-0.02	0.00	0.00	0.03	0.00	0.00
Desaprumo Y- (D4)	0.02	0.00	0.00	-0.03	0.00	0.00
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2	5.73	0.00	0.00	0.19	0.02	0.00
G1+G2+0.6V1+0.6D1	5.76	0.00	0.00	0.19	-0.01	0.00
G1+G2+0.6V1+D1	5.76	0.00	0.00	0.19	-0.01	0.00
G1+G2+0.6V2+0.6D2	5.70	0.00	0.00	0.19	0.04	0.00
G1+G2+0.6V2+D2	5.69	0.00	0.00	0.19	0.05	0.00
G1+G2+0.6V3+0.6D3	5.65	0.00	0.00	0.32	0.02	0.00
G1+G2+0.6V3+D3	5.64	0.00	0.00	0.33	0.02	0.00
G1+G2+0.6V4+0.6D4	5.81	0.00	0.00	0.06	0.01	0.00
G1+G2+0.6V4+D4	5.81	0.00	0.00	0.05	0.01	0.00
G1+G2+0.7Q	6.85	0.00	0.00	0.17	0.02	0.00
G1+G2+0.7Q+0.6V1+0.6D1	6.88	0.00	0.00	0.17	0.00	0.00
G1+G2+0.7Q+0.6V1+D1	6.89	0.00	0.00	0.17	-0.01	0.00
G1+G2+0.7Q+0.6V2+0.6D2	6.83	0.00	0.00	0.17	0.04	0.00



Fundação S22						
COMBINAÇÃO:	N (tf)	Mx (kgf.m)	My (kgf.m)	Vx (tf)	Vy (tf)	Mt (kgf/m)
G1+G2+0.7Q+0.6V2+D2	6.82	0.00	0.00	0.17	0.05	0.00
G1+G2+0.7Q+0.6V3+0.6D3	6.78	0.00	0.00	0.30	0.02	0.00
G1+G2+0.7Q+0.6V3+D3	6.77	0.00	0.00	0.32	0.02	0.00
G1+G2+0.7Q+0.6V4+0.6D4	6.93	0.00	0.00	0.04	0.02	0.00
G1+G2+0.7Q+0.6V4+D4	6.94	0.00	0.00	0.03	0.02	0.00
G1+G2+0.7Q+D1	6.87	0.00	0.00	0.17	0.01	0.00
G1+G2+0.7Q+D2	6.84	0.00	0.00	0.17	0.04	0.00
G1+G2+0.7Q+D3	6.84	0.00	0.00	0.20	0.02	0.00
G1+G2+0.7Q+D4	6.87	0.00	0.00	0.14	0.02	0.00
G1+G2+0.7Q+V1+0.6D1	6.89	0.00	0.00	0.17	-0.01	0.00
G1+G2+0.7Q+V2+0.6D2	6.81	0.00	0.00	0.17	0.05	0.00
G1+G2+0.7Q+V3+0.6D3	6.73	0.00	0.00	0.38	0.03	0.00
G1+G2+0.7Q+V4+0.6D4	6.98	0.00	0.00	-0.03	0.02	0.00
G1+G2+D1	5.75	0.00	0.00	0.19	0.00	0.00
G1+G2+D2	5.71	0.00	0.00	0.19	0.03	0.00
G1+G2+D3	5.71	0.00	0.00	0.22	0.02	0.00
G1+G2+D4	5.74	0.00	0.00	0.16	0.02	0.00
G1+G2+Q	7.34	0.00	0.00	0.17	0.02	0.00
G1+G2+Q+0.6V1+0.6D1	7.37	0.00	0.00	0.17	0.00	0.00
G1+G2+Q+0.6V2+0.6D2	7.31	0.00	0.00	0.17	0.05	0.00
G1+G2+Q+0.6V3+0.6D3	7.26	0.00	0.00	0.30	0.03	0.00
G1+G2+Q+0.6V4+0.6D4	7.42	0.00	0.00	0.04	0.02	0.00
G1+G2+Q+D1	7.36	0.00	0.00	0.17	0.01	0.00
G1+G2+Q+D2	7.32	0.00	0.00	0.17	0.04	0.00
G1+G2+Q+D3	7.32	0.00	0.00	0.20	0.02	0.00
G1+G2+Q+D4	7.35	0.00	0.00	0.14	0.02	0.00
G1+G2+V1+0.6D1	5.77	0.00	0.00	0.19	-0.01	0.00
G1+G2+V2+0.6D2	5.69	0.00	0.00	0.19	0.05	0.00
G1+G2+V3+0.6D3	5.60	0.00	0.00	0.40	0.02	0.00
G1+G2+V4+0.6D4	5.85	0.00	0.00	-0.01	0.01	0.00

Fundação S23						
COMBINAÇÃO:	N (tf)	Mx (kgf.m)	My (kgf.m)	Vx (tf)	Vy (tf)	Mt (kgf/m)
Peso próprio (G1)	3.70	0.00	0.00	0.03	0.00	0.00
Adicional (G2)	2.68	0.00	0.00	-0.41	0.05	0.00
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	2.14	0.00	0.00	0.10	0.01	0.00
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.00	0.00	0.00	0.00	0.02	0.00
Vento X- (V2)	0.00	0.00	0.00	0.00	-0.02	0.00
Vento Y+ (V3)	-0.20	0.00	0.00	-0.23	0.00	0.00
Vento Y- (V4)	0.20	0.00	0.00	0.23	0.00	0.00
Desaprumo X+ (D1)	0.00	0.00	0.00	0.00	0.02	0.00
Desaprumo X- (D2)	0.00	0.00	0.00	0.00	-0.02	0.00
Desaprumo Y+ (D3)	-0.03	0.00	0.00	-0.04	0.00	0.00
Desaprumo Y- (D4)	0.03	0.00	0.00	0.04	0.00	0.00
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2	6.38	0.00	0.00	-0.37	0.05	0.00
G1+G2+0.6V1+0.6D1	6.38	0.00	0.00	-0.37	0.07	0.00
G1+G2+0.6V1+D1	6.38	0.00	0.00	-0.37	0.08	0.00
G1+G2+0.6V2+0.6D2	6.38	0.00	0.00	-0.37	0.03	0.00
G1+G2+0.6V2+D2	6.38	0.00	0.00	-0.37	0.02	0.00
G1+G2+0.6V3+0.6D3	6.24	0.00	0.00	-0.54	0.05	0.00
G1+G2+0.6V3+D3	6.23	0.00	0.00	-0.55	0.05	0.00



Fundação S23						
COMBINAÇÃO:	N (tf)	Mx (kgf.m)	My (kgf.m)	Vx (tf)	Vy (tf)	Mt (kgf/m)
G1+G2+0.6V4+0.6D4	6.51	0.00	0.00	-0.21	0.05	0.00
G1+G2+0.6V4+D4	6.52	0.00	0.00	-0.20	0.05	0.00
G1+G2+0.7Q	7.88	0.00	0.00	-0.31	0.06	0.00
G1+G2+0.7Q+0.6V1+0.6D1	7.88	0.00	0.00	-0.31	0.08	0.00
G1+G2+0.7Q+0.6V1+D1	7.88	0.00	0.00	-0.31	0.09	0.00
G1+G2+0.7Q+0.6V2+0.6D2	7.88	0.00	0.00	-0.31	0.04	0.00
G1+G2+0.7Q+0.6V2+D2	7.88	0.00	0.00	-0.31	0.03	0.00
G1+G2+0.7Q+0.6V3+0.6D3	7.74	0.00	0.00	-0.47	0.06	0.00
G1+G2+0.7Q+0.6V3+D3	7.73	0.00	0.00	-0.48	0.06	0.00
G1+G2+0.7Q+0.6V4+0.6D4	8.01	0.00	0.00	-0.15	0.06	0.00
G1+G2+0.7Q+0.6V4+D4	8.02	0.00	0.00	-0.13	0.06	0.00
G1+G2+0.7Q+D1	7.88	0.00	0.00	-0.31	0.07	0.00
G1+G2+0.7Q+D2	7.88	0.00	0.00	-0.31	0.04	0.00
G1+G2+0.7Q+D3	7.85	0.00	0.00	-0.34	0.06	0.00
G1+G2+0.7Q+D4	7.90	0.00	0.00	-0.27	0.06	0.00
G1+G2+0.7Q+V1+0.6D1	7.88	0.00	0.00	-0.31	0.09	0.00
G1+G2+0.7Q+V2+0.6D2	7.88	0.00	0.00	-0.31	0.03	0.00
G1+G2+0.7Q+V3+0.6D3	7.66	0.00	0.00	-0.56	0.05	0.00
G1+G2+0.7Q+V4+0.6D4	8.09	0.00	0.00	-0.05	0.06	0.00
G1+G2+D1	6.38	0.00	0.00	-0.37	0.07	0.00
G1+G2+D2	6.38	0.00	0.00	-0.37	0.03	0.00
G1+G2+D3	6.35	0.00	0.00	-0.41	0.05	0.00
G1+G2+D4	6.40	0.00	0.00	-0.34	0.05	0.00
G1+G2+Q	8.52	0.00	0.00	-0.28	0.06	0.00
G1+G2+Q+0.6V1+0.6D1	8.52	0.00	0.00	-0.28	0.08	0.00
G1+G2+Q+0.6V2+0.6D2	8.52	0.00	0.00	-0.28	0.04	0.00
G1+G2+Q+0.6V3+0.6D3	8.38	0.00	0.00	-0.44	0.06	0.00
G1+G2+Q+0.6V4+0.6D4	8.65	0.00	0.00	-0.12	0.06	0.00
G1+G2+Q+D1	8.52	0.00	0.00	-0.28	0.08	0.00
G1+G2+Q+D2	8.52	0.00	0.00	-0.28	0.05	0.00
G1+G2+Q+D3	8.49	0.00	0.00	-0.32	0.06	0.00
G1+G2+Q+D4	8.54	0.00	0.00	-0.24	0.06	0.00
G1+G2+V1+0.6D1	6.38	0.00	0.00	-0.37	0.08	0.00
G1+G2+V2+0.6D2	6.38	0.00	0.00	-0.37	0.02	0.00
G1+G2+V3+0.6D3	6.17	0.00	0.00	-0.63	0.05	0.00
G1+G2+V4+0.6D4	6.59	0.00	0.00	-0.12	0.05	0.00

Fundação S24						
COMBINAÇÃO:	N (tf)	Mx (kgf.m)	My (kgf.m)	Vx (tf)	Vy (tf)	Mt (kgf/m)
Peso próprio (G1)	3.60	0.00	0.00	-0.02	0.00	0.00
Adicional (G2)	0.86	0.00	0.00	0.21	0.01	0.00
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	2.19	0.00	0.00	-0.11	0.00	0.00
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.01	0.00	0.00	0.00	-0.02	0.00
Vento X- (V2)	-0.01	0.00	0.00	0.00	0.02	0.00
Vento Y+ (V3)	0.30	0.00	0.00	0.10	0.01	0.00
Vento Y- (V4)	-0.30	0.00	0.00	-0.10	-0.01	0.00
Desaprumo X+ (D1)	0.01	0.00	0.00	0.00	-0.01	0.00
Desaprumo X- (D2)	-0.01	0.00	0.00	0.00	0.01	0.00
Desaprumo Y+ (D3)	0.04	0.00	0.00	0.02	0.00	0.00
Desaprumo Y- (D4)	-0.04	0.00	0.00	-0.02	0.00	0.00
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00



Fundação S24						
COMBINAÇÃO:	N (tf)	Mx (kgf.m)	My (kgf.m)	Vx (tf)	Vy (tf)	Mt (kgf/m)
G1+G2	4.47	0.00	0.00	0.19	0.01	0.00
G1+G2+0.6V1+0.6D1	4.48	0.00	0.00	0.19	-0.01	0.00
G1+G2+0.6V1+D1	4.49	0.00	0.00	0.19	-0.02	0.00
G1+G2+0.6V2+0.6D2	4.45	0.00	0.00	0.19	0.03	0.00
G1+G2+0.6V2+D2	4.45	0.00	0.00	0.20	0.03	0.00
G1+G2+0.6V3+0.6D3	4.67	0.00	0.00	0.26	0.01	0.00
G1+G2+0.6V3+D3	4.69	0.00	0.00	0.27	0.01	0.00
G1+G2+0.6V4+0.6D4	4.27	0.00	0.00	0.13	0.00	0.00
G1+G2+0.6V4+D4	4.25	0.00	0.00	0.12	0.00	0.00
G1+G2+0.7Q	6.00	0.00	0.00	0.12	0.01	0.00
G1+G2+0.7Q+0.6V1+0.6D1	6.02	0.00	0.00	0.12	-0.01	0.00
G1+G2+0.7Q+0.6V1+D1	6.02	0.00	0.00	0.12	-0.01	0.00
G1+G2+0.7Q+0.6V2+0.6D2	5.99	0.00	0.00	0.12	0.03	0.00
G1+G2+0.7Q+0.6V2+D2	5.98	0.00	0.00	0.12	0.04	0.00
G1+G2+0.7Q+0.6V3+0.6D3	6.21	0.00	0.00	0.19	0.02	0.00
G1+G2+0.7Q+0.6V3+D3	6.22	0.00	0.00	0.20	0.02	0.00
G1+G2+0.7Q+0.6V4+0.6D4	5.80	0.00	0.00	0.05	0.01	0.00
G1+G2+0.7Q+0.6V4+D4	5.78	0.00	0.00	0.04	0.01	0.00
G1+G2+0.7Q+D1	6.01	0.00	0.00	0.12	0.00	0.00
G1+G2+0.7Q+D2	5.99	0.00	0.00	0.12	0.03	0.00
G1+G2+0.7Q+D3	6.04	0.00	0.00	0.14	0.01	0.00
G1+G2+0.7Q+D4	5.96	0.00	0.00	0.10	0.01	0.00
G1+G2+0.7Q+V1+0.6D1	6.02	0.00	0.00	0.12	-0.02	0.00
G1+G2+0.7Q+V2+0.6D2	5.98	0.00	0.00	0.12	0.04	0.00
G1+G2+0.7Q+V3+0.6D3	6.32	0.00	0.00	0.23	0.02	0.00
G1+G2+0.7Q+V4+0.6D4	5.68	0.00	0.00	0.01	0.00	0.00
G1+G2+D1	4.48	0.00	0.00	0.19	-0.01	0.00
G1+G2+D2	4.46	0.00	0.00	0.20	0.02	0.00
G1+G2+D3	4.51	0.00	0.00	0.21	0.01	0.00
G1+G2+D4	4.43	0.00	0.00	0.18	0.01	0.00
G1+G2+Q	6.66	0.00	0.00	0.09	0.01	0.00
G1+G2+Q+0.6V1+0.6D1	6.67	0.00	0.00	0.09	-0.01	0.00
G1+G2+Q+0.6V2+0.6D2	6.65	0.00	0.00	0.09	0.03	0.00
G1+G2+Q+0.6V3+0.6D3	6.86	0.00	0.00	0.16	0.02	0.00
G1+G2+Q+0.6V4+0.6D4	6.46	0.00	0.00	0.02	0.01	0.00
G1+G2+Q+D1	6.67	0.00	0.00	0.09	0.00	0.00
G1+G2+Q+D2	6.65	0.00	0.00	0.09	0.03	0.00
G1+G2+Q+D3	6.70	0.00	0.00	0.10	0.01	0.00
G1+G2+Q+D4	6.62	0.00	0.00	0.07	0.01	0.00
G1+G2+V1+0.6D1	4.49	0.00	0.00	0.19	-0.02	0.00
G1+G2+V2+0.6D2	4.45	0.00	0.00	0.19	0.03	0.00
G1+G2+V3+0.6D3	4.79	0.00	0.00	0.30	0.02	0.00
G1+G2+V4+0.6D4	4.15	0.00	0.00	0.09	0.00	0.00

Fundação S25						
COMBINAÇÃO:	N (tf)	Mx (kgf.m)	My (kgf.m)	Vx (tf)	Vy (tf)	Mt (kgf/m)
Peso próprio (G1)	3.31	0.00	0.00	-0.05	0.00	0.00
Adicional (G2)	0.94	0.00	0.00	0.12	0.04	0.00
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	1.88	0.00	0.00	-0.04	-0.01	0.00
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	-0.01	0.00	0.00	0.00	0.00	0.00
Vento X- (V2)	0.01	0.00	0.00	0.00	0.00	0.00
Vento Y+ (V3)	0.35	0.00	0.00	0.19	0.00	0.00



Fundação S25						
COMBINAÇÃO:	N (tf)	Mx (kgf.m)	My (kgf.m)	Vx (tf)	Vy (tf)	Mt (kgf/m)
Vento Y- (V4)	-0.35	0.00	0.00	-0.19	0.00	0.00
Desaprumo X+ (D1)	0.00	0.00	0.00	0.00	0.00	0.00
Desaprumo X- (D2)	0.00	0.00	0.00	0.00	0.00	0.00
Desaprumo Y+ (D3)	0.05	0.00	0.00	0.03	0.00	0.00
Desaprumo Y- (D4)	-0.05	0.00	0.00	-0.03	0.00	0.00
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2	4.25	0.00	0.00	0.07	0.04	0.00
G1+G2+0.6V1+0.6D1	4.25	0.00	0.00	0.07	0.04	0.00
G1+G2+0.6V1+D1	4.24	0.00	0.00	0.07	0.04	0.00
G1+G2+0.6V2+0.6D2	4.26	0.00	0.00	0.07	0.05	0.00
G1+G2+0.6V2+D2	4.26	0.00	0.00	0.07	0.05	0.00
G1+G2+0.6V3+0.6D3	4.49	0.00	0.00	0.21	0.04	0.00
G1+G2+0.6V3+D3	4.51	0.00	0.00	0.22	0.04	0.00
G1+G2+0.6V4+0.6D4	4.02	0.00	0.00	-0.06	0.04	0.00
G1+G2+0.6V4+D4	4.00	0.00	0.00	-0.07	0.04	0.00
G1+G2+0.7Q	5.57	0.00	0.00	0.05	0.04	0.00
G1+G2+0.7Q+0.6V1+0.6D1	5.56	0.00	0.00	0.05	0.04	0.00
G1+G2+0.7Q+0.6V1+D1	5.56	0.00	0.00	0.05	0.04	0.00
G1+G2+0.7Q+0.6V2+0.6D2	5.58	0.00	0.00	0.05	0.04	0.00
G1+G2+0.7Q+0.6V2+D2	5.58	0.00	0.00	0.05	0.04	0.00
G1+G2+0.7Q+0.6V3+0.6D3	5.81	0.00	0.00	0.18	0.04	0.00
G1+G2+0.7Q+0.6V3+D3	5.82	0.00	0.00	0.19	0.04	0.00
G1+G2+0.7Q+0.6V4+0.6D4	5.34	0.00	0.00	-0.09	0.04	0.00
G1+G2+0.7Q+0.6V4+D4	5.32	0.00	0.00	-0.10	0.04	0.00
G1+G2+0.7Q+D1	5.57	0.00	0.00	0.05	0.04	0.00
G1+G2+0.7Q+D2	5.58	0.00	0.00	0.05	0.04	0.00
G1+G2+0.7Q+D3	5.62	0.00	0.00	0.08	0.04	0.00
G1+G2+0.7Q+D4	5.53	0.00	0.00	0.02	0.04	0.00
G1+G2+0.7Q+V1+0.6D1	5.56	0.00	0.00	0.05	0.04	0.00
G1+G2+0.7Q+V2+0.6D2	5.58	0.00	0.00	0.05	0.04	0.00
G1+G2+0.7Q+V3+0.6D3	5.95	0.00	0.00	0.26	0.04	0.00
G1+G2+0.7Q+V4+0.6D4	5.20	0.00	0.00	-0.16	0.04	0.00
G1+G2+D1	4.25	0.00	0.00	0.07	0.04	0.00
G1+G2+D2	4.26	0.00	0.00	0.07	0.05	0.00
G1+G2+D3	4.30	0.00	0.00	0.10	0.04	0.00
G1+G2+D4	4.21	0.00	0.00	0.04	0.04	0.00
G1+G2+Q	6.14	0.00	0.00	0.04	0.04	0.00
G1+G2+Q+0.6V1+0.6D1	6.13	0.00	0.00	0.04	0.03	0.00
G1+G2+Q+0.6V2+0.6D2	6.14	0.00	0.00	0.04	0.04	0.00
G1+G2+Q+0.6V3+0.6D3	6.37	0.00	0.00	0.17	0.04	0.00
G1+G2+Q+0.6V4+0.6D4	5.90	0.00	0.00	-0.10	0.04	0.00
G1+G2+Q+D1	6.13	0.00	0.00	0.04	0.03	0.00
G1+G2+Q+D2	6.14	0.00	0.00	0.04	0.04	0.00
G1+G2+Q+D3	6.18	0.00	0.00	0.07	0.04	0.00
G1+G2+Q+D4	6.09	0.00	0.00	0.01	0.04	0.00
G1+G2+V1+0.6D1	4.24	0.00	0.00	0.07	0.04	0.00
G1+G2+V2+0.6D2	4.26	0.00	0.00	0.07	0.05	0.00
G1+G2+V3+0.6D3	4.63	0.00	0.00	0.28	0.04	0.00
G1+G2+V4+0.6D4	3.88	0.00	0.00	-0.14	0.04	0.00

Fundação S26						
COMBINAÇÃO:	N (tf)	Mx (kgf.m)	My (kgf.m)	Vx (tf)	Vy (tf)	Mt (kgf/m)
Peso próprio (G1)	3.11	0.00	0.00	-0.01	0.00	0.00



Fundação S26						
COMBINAÇÃO:	N (tf)	Mx (kgf.m)	My (kgf.m)	Vx (tf)	Vy (tf)	Mt (kgf/m)
Adicional (G2)	1.89	0.00	0.00	0.30	0.04	0.00
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	1.57	0.00	0.00	-0.05	0.00	0.00
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	-0.01	0.00	0.00	0.00	-0.02	0.00
Vento X- (V2)	0.01	0.00	0.00	0.00	0.02	0.00
Vento Y+ (V3)	-0.09	0.00	0.00	0.22	0.00	0.00
Vento Y- (V4)	0.09	0.00	0.00	-0.22	0.00	0.00
Desaprumo X+ (D1)	-0.01	0.00	0.00	0.00	-0.02	0.00
Desaprumo X- (D2)	0.01	0.00	0.00	0.00	0.02	0.00
Desaprumo Y+ (D3)	-0.01	0.00	0.00	0.03	0.00	0.00
Desaprumo Y- (D4)	0.01	0.00	0.00	-0.03	0.00	0.00
Supressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2	5.00	0.00	0.00	0.29	0.04	0.00
G1+G2+0.6V1+0.6D1	4.99	0.00	0.00	0.29	0.02	0.00
G1+G2+0.6V1+D1	4.99	0.00	0.00	0.29	0.02	0.00
G1+G2+0.6V2+0.6D2	5.02	0.00	0.00	0.29	0.06	0.00
G1+G2+0.6V2+D2	5.02	0.00	0.00	0.29	0.07	0.00
G1+G2+0.6V3+0.6D3	4.94	0.00	0.00	0.44	0.04	0.00
G1+G2+0.6V3+D3	4.94	0.00	0.00	0.46	0.04	0.00
G1+G2+0.6V4+0.6D4	5.07	0.00	0.00	0.13	0.05	0.00
G1+G2+0.6V4+D4	5.07	0.00	0.00	0.12	0.05	0.00
G1+G2+0.7Q	6.10	0.00	0.00	0.25	0.04	0.00
G1+G2+0.7Q+0.6V1+0.6D1	6.09	0.00	0.00	0.25	0.02	0.00
G1+G2+0.7Q+0.6V1+D1	6.09	0.00	0.00	0.25	0.01	0.00
G1+G2+0.7Q+0.6V2+0.6D2	6.12	0.00	0.00	0.25	0.06	0.00
G1+G2+0.7Q+0.6V2+D2	6.12	0.00	0.00	0.25	0.07	0.00
G1+G2+0.7Q+0.6V3+0.6D3	6.04	0.00	0.00	0.41	0.04	0.00
G1+G2+0.7Q+0.6V3+D3	6.03	0.00	0.00	0.42	0.04	0.00
G1+G2+0.7Q+0.6V4+0.6D4	6.17	0.00	0.00	0.10	0.04	0.00
G1+G2+0.7Q+0.6V4+D4	6.17	0.00	0.00	0.08	0.04	0.00
G1+G2+0.7Q+D1	6.10	0.00	0.00	0.25	0.03	0.00
G1+G2+0.7Q+D2	6.11	0.00	0.00	0.25	0.06	0.00
G1+G2+0.7Q+D3	6.09	0.00	0.00	0.29	0.04	0.00
G1+G2+0.7Q+D4	6.12	0.00	0.00	0.22	0.04	0.00
G1+G2+0.7Q+V1+0.6D1	6.09	0.00	0.00	0.25	0.01	0.00
G1+G2+0.7Q+V2+0.6D2	6.12	0.00	0.00	0.25	0.07	0.00
G1+G2+0.7Q+V3+0.6D3	6.00	0.00	0.00	0.50	0.04	0.00
G1+G2+0.7Q+V4+0.6D4	6.20	0.00	0.00	0.01	0.05	0.00
G1+G2+D1	5.00	0.00	0.00	0.29	0.03	0.00
G1+G2+D2	5.01	0.00	0.00	0.29	0.06	0.00
G1+G2+D3	4.99	0.00	0.00	0.32	0.04	0.00
G1+G2+D4	5.02	0.00	0.00	0.25	0.04	0.00
G1+G2+Q	6.57	0.00	0.00	0.24	0.04	0.00
G1+G2+Q+0.6V1+0.6D1	6.56	0.00	0.00	0.24	0.02	0.00
G1+G2+Q+0.6V2+0.6D2	6.59	0.00	0.00	0.24	0.06	0.00
G1+G2+Q+0.6V3+0.6D3	6.51	0.00	0.00	0.39	0.04	0.00
G1+G2+Q+0.6V4+0.6D4	6.64	0.00	0.00	0.08	0.04	0.00
G1+G2+Q+D1	6.57	0.00	0.00	0.24	0.03	0.00
G1+G2+Q+D2	6.58	0.00	0.00	0.24	0.06	0.00
G1+G2+Q+D3	6.56	0.00	0.00	0.27	0.04	0.00
G1+G2+Q+D4	6.59	0.00	0.00	0.20	0.04	0.00
G1+G2+V1+0.6D1	4.99	0.00	0.00	0.29	0.01	0.00
G1+G2+V2+0.6D2	5.02	0.00	0.00	0.29	0.07	0.00
G1+G2+V3+0.6D3	4.90	0.00	0.00	0.53	0.04	0.00



Fundação S26						
COMBINAÇÃO:	N (tf)	Mx (kgf.m)	My (kgf.m)	Vx (tf)	Vy (tf)	Mt (kgf/m)
G1+G2+V4+0.6D4	5.11	0.00	0.00	0.04	0.05	0.00

Fundação S27						
COMBINAÇÃO:	N (tf)	Mx (kgf.m)	My (kgf.m)	Vx (tf)	Vy (tf)	Mt (kgf/m)
Peso próprio (G1)	4.00	0.00	0.00	0.01	0.00	0.00
Adicional (G2)	3.38	0.00	0.00	0.21	0.12	0.00
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	2.39	0.00	0.00	0.00	-0.03	0.00
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.00	0.00	0.00	0.00	-0.02	0.00
Vento X- (V2)	0.00	0.00	0.00	0.00	0.02	0.00
Vento Y+ (V3)	-0.15	0.00	0.00	0.21	0.00	0.00
Vento Y- (V4)	0.15	0.00	0.00	-0.21	0.00	0.00
Desaprumo X+ (D1)	0.00	0.00	0.00	0.00	-0.02	0.00
Desaprumo X- (D2)	0.00	0.00	0.00	0.00	0.02	0.00
Desaprumo Y+ (D3)	-0.02	0.00	0.00	0.03	0.00	0.00
Desaprumo Y- (D4)	0.02	0.00	0.00	-0.03	0.00	0.00
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2	7.38	0.00	0.00	0.22	0.12	0.00
G1+G2+0.6V1+0.6D1	7.37	0.00	0.00	0.22	0.09	0.00
G1+G2+0.6V1+D1	7.37	0.00	0.00	0.22	0.09	0.00
G1+G2+0.6V2+0.6D2	7.38	0.00	0.00	0.22	0.14	0.00
G1+G2+0.6V2+D2	7.38	0.00	0.00	0.22	0.15	0.00
G1+G2+0.6V3+0.6D3	7.27	0.00	0.00	0.37	0.12	0.00
G1+G2+0.6V3+D3	7.26	0.00	0.00	0.38	0.12	0.00
G1+G2+0.6V4+0.6D4	7.48	0.00	0.00	0.08	0.11	0.00
G1+G2+0.6V4+D4	7.49	0.00	0.00	0.06	0.11	0.00
G1+G2+0.7Q	9.05	0.00	0.00	0.23	0.10	0.00
G1+G2+0.7Q+0.6V1+0.6D1	9.05	0.00	0.00	0.23	0.07	0.00
G1+G2+0.7Q+0.6V1+D1	9.05	0.00	0.00	0.23	0.07	0.00
G1+G2+0.7Q+0.6V2+0.6D2	9.05	0.00	0.00	0.23	0.12	0.00
G1+G2+0.7Q+0.6V2+D2	9.05	0.00	0.00	0.23	0.13	0.00
G1+G2+0.7Q+0.6V3+0.6D3	8.95	0.00	0.00	0.37	0.10	0.00
G1+G2+0.7Q+0.6V3+D3	8.94	0.00	0.00	0.39	0.10	0.00
G1+G2+0.7Q+0.6V4+0.6D4	9.15	0.00	0.00	0.08	0.09	0.00
G1+G2+0.7Q+0.6V4+D4	9.16	0.00	0.00	0.07	0.09	0.00
G1+G2+0.7Q+D1	9.05	0.00	0.00	0.23	0.08	0.00
G1+G2+0.7Q+D2	9.05	0.00	0.00	0.23	0.11	0.00
G1+G2+0.7Q+D3	9.03	0.00	0.00	0.26	0.10	0.00
G1+G2+0.7Q+D4	9.07	0.00	0.00	0.19	0.10	0.00
G1+G2+0.7Q+V1+0.6D1	9.05	0.00	0.00	0.23	0.06	0.00
G1+G2+0.7Q+V2+0.6D2	9.06	0.00	0.00	0.23	0.13	0.00
G1+G2+0.7Q+V3+0.6D3	8.89	0.00	0.00	0.46	0.10	0.00
G1+G2+0.7Q+V4+0.6D4	9.21	0.00	0.00	0.00	0.09	0.00
G1+G2+D1	7.37	0.00	0.00	0.22	0.10	0.00
G1+G2+D2	7.38	0.00	0.00	0.22	0.13	0.00
G1+G2+D3	7.36	0.00	0.00	0.26	0.12	0.00
G1+G2+D4	7.40	0.00	0.00	0.19	0.12	0.00
G1+G2+Q	9.77	0.00	0.00	0.23	0.09	0.00
G1+G2+Q+0.6V1+0.6D1	9.76	0.00	0.00	0.23	0.06	0.00
G1+G2+Q+0.6V2+0.6D2	9.77	0.00	0.00	0.23	0.11	0.00
G1+G2+Q+0.6V3+0.6D3	9.66	0.00	0.00	0.38	0.09	0.00
G1+G2+Q+0.6V4+0.6D4	9.87	0.00	0.00	0.08	0.09	0.00



Fundação S27						
COMBINAÇÃO:	N (tf)	Mx (kgf.m)	My (kgf.m)	Vx (tf)	Vy (tf)	Mt (kgf/m)
G1+G2+Q+D1	9.77	0.00	0.00	0.23	0.07	0.00
G1+G2+Q+D2	9.77	0.00	0.00	0.23	0.10	0.00
G1+G2+Q+D3	9.75	0.00	0.00	0.26	0.09	0.00
G1+G2+Q+D4	9.79	0.00	0.00	0.19	0.09	0.00
G1+G2+V1+0.6D1	7.37	0.00	0.00	0.22	0.08	0.00
G1+G2+V2+0.6D2	7.38	0.00	0.00	0.22	0.15	0.00
G1+G2+V3+0.6D3	7.21	0.00	0.00	0.46	0.12	0.00
G1+G2+V4+0.6D4	7.54	0.00	0.00	-0.01	0.11	0.00

Fundação S28						
COMBINAÇÃO:	N (tf)	Mx (kgf.m)	My (kgf.m)	Vx (tf)	Vy (tf)	Mt (kgf/m)
Peso próprio (G1)	2.90	0.00	0.00	-0.02	0.02	0.00
Adicional (G2)	2.67	0.00	0.00	0.44	0.14	0.00
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	1.35	0.00	0.00	-0.10	0.01	0.00
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.03	0.00	0.00	0.02	0.00	0.00
Vento X- (V2)	-0.03	0.00	0.00	-0.02	0.00	0.00
Vento Y+ (V3)	-0.05	0.00	0.00	0.00	0.08	0.00
Vento Y- (V4)	0.05	0.00	0.00	0.00	-0.08	0.00
Desaprumo X+ (D1)	0.02	0.00	0.00	0.02	0.00	0.00
Desaprumo X- (D2)	-0.02	0.00	0.00	-0.02	0.00	0.00
Desaprumo Y+ (D3)	-0.01	0.00	0.00	0.00	0.02	0.00
Desaprumo Y- (D4)	0.01	0.00	0.00	0.00	-0.02	0.00
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2	5.58	0.00	0.00	0.42	0.16	0.00
G1+G2+0.6V1+0.6D1	5.61	0.00	0.00	0.44	0.16	0.00
G1+G2+0.6V1+D1	5.62	0.00	0.00	0.45	0.16	0.00
G1+G2+0.6V2+0.6D2	5.54	0.00	0.00	0.39	0.16	0.00
G1+G2+0.6V2+D2	5.53	0.00	0.00	0.39	0.16	0.00
G1+G2+0.6V3+0.6D3	5.54	0.00	0.00	0.42	0.22	0.00
G1+G2+0.6V3+D3	5.54	0.00	0.00	0.42	0.23	0.00
G1+G2+0.6V4+0.6D4	5.61	0.00	0.00	0.42	0.10	0.00
G1+G2+0.6V4+D4	5.61	0.00	0.00	0.42	0.10	0.00
G1+G2+0.7Q	6.52	0.00	0.00	0.35	0.17	0.00
G1+G2+0.7Q+0.6V1+0.6D1	6.56	0.00	0.00	0.37	0.17	0.00
G1+G2+0.7Q+0.6V1+D1	6.56	0.00	0.00	0.38	0.17	0.00
G1+G2+0.7Q+0.6V2+0.6D2	6.49	0.00	0.00	0.33	0.17	0.00
G1+G2+0.7Q+0.6V2+D2	6.48	0.00	0.00	0.32	0.17	0.00
G1+G2+0.7Q+0.6V3+0.6D3	6.49	0.00	0.00	0.35	0.23	0.00
G1+G2+0.7Q+0.6V3+D3	6.48	0.00	0.00	0.35	0.23	0.00
G1+G2+0.7Q+0.6V4+0.6D4	6.56	0.00	0.00	0.35	0.11	0.00
G1+G2+0.7Q+0.6V4+D4	6.56	0.00	0.00	0.35	0.10	0.00
G1+G2+0.7Q+D1	6.54	0.00	0.00	0.37	0.17	0.00
G1+G2+0.7Q+D2	6.50	0.00	0.00	0.33	0.17	0.00
G1+G2+0.7Q+D3	6.52	0.00	0.00	0.35	0.18	0.00
G1+G2+0.7Q+D4	6.53	0.00	0.00	0.35	0.15	0.00
G1+G2+0.7Q+V1+0.6D1	6.57	0.00	0.00	0.38	0.17	0.00
G1+G2+0.7Q+V2+0.6D2	6.48	0.00	0.00	0.32	0.17	0.00
G1+G2+0.7Q+V3+0.6D3	6.47	0.00	0.00	0.35	0.26	0.00
G1+G2+0.7Q+V4+0.6D4	6.58	0.00	0.00	0.35	0.08	0.00
G1+G2+D1	5.60	0.00	0.00	0.44	0.16	0.00
G1+G2+D2	5.55	0.00	0.00	0.40	0.16	0.00
G1+G2+D3	5.57	0.00	0.00	0.42	0.18	0.00



Fundação S28						
COMBINAÇÃO:	N (tf)	Mx (kgf.m)	My (kgf.m)	Vx (tf)	Vy (tf)	Mt (kgf/m)
G1+G2+D4	5.58	0.00	0.00	0.42	0.15	0.00
G1+G2+Q	6.93	0.00	0.00	0.32	0.17	0.00
G1+G2+Q+0.6V1+0.6D1	6.96	0.00	0.00	0.34	0.17	0.00
G1+G2+Q+0.6V2+0.6D2	6.90	0.00	0.00	0.30	0.17	0.00
G1+G2+Q+0.6V3+0.6D3	6.89	0.00	0.00	0.32	0.23	0.00
G1+G2+Q+0.6V4+0.6D4	6.96	0.00	0.00	0.32	0.11	0.00
G1+G2+Q+D1	6.95	0.00	0.00	0.34	0.17	0.00
G1+G2+Q+D2	6.91	0.00	0.00	0.30	0.17	0.00
G1+G2+Q+D3	6.92	0.00	0.00	0.32	0.19	0.00
G1+G2+Q+D4	6.94	0.00	0.00	0.32	0.16	0.00
G1+G2+V1+0.6D1	5.62	0.00	0.00	0.45	0.16	0.00
G1+G2+V2+0.6D2	5.53	0.00	0.00	0.39	0.16	0.00
G1+G2+V3+0.6D3	5.52	0.00	0.00	0.42	0.25	0.00
G1+G2+V4+0.6D4	5.63	0.00	0.00	0.42	0.07	0.00

Fundação S29						
COMBINAÇÃO:	N (tf)	Mx (kgf.m)	My (kgf.m)	Vx (tf)	Vy (tf)	Mt (kgf/m)
Peso próprio (G1)	2.09	0.00	0.00	-0.04	-0.02	0.00
Adicional (G2)	1.79	0.00	0.00	-0.24	-0.16	0.00
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	0.60	0.00	0.00	0.03	0.01	0.00
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	-0.08	0.00	0.00	0.03	0.00	0.00
Vento X- (V2)	0.08	0.00	0.00	-0.03	0.00	0.00
Vento Y+ (V3)	-0.17	0.00	0.00	-0.01	0.09	0.00
Vento Y- (V4)	0.17	0.00	0.00	0.01	-0.09	0.00
Desaprumo X+ (D1)	-0.05	0.00	0.00	0.02	0.00	0.00
Desaprumo X- (D2)	0.05	0.00	0.00	-0.02	0.00	0.00
Desaprumo Y+ (D3)	-0.02	0.00	0.00	0.00	0.02	0.00
Desaprumo Y- (D4)	0.02	0.00	0.00	0.00	-0.02	0.00
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2	3.88	0.00	0.00	-0.28	-0.18	0.00
G1+G2+0.6V1+0.6D1	3.81	0.00	0.00	-0.25	-0.18	0.00
G1+G2+0.6V1+D1	3.79	0.00	0.00	-0.24	-0.18	0.00
G1+G2+0.6V2+0.6D2	3.96	0.00	0.00	-0.31	-0.18	0.00
G1+G2+0.6V2+D2	3.98	0.00	0.00	-0.31	-0.18	0.00
G1+G2+0.6V3+0.6D3	3.77	0.00	0.00	-0.29	-0.12	0.00
G1+G2+0.6V3+D3	3.76	0.00	0.00	-0.29	-0.11	0.00
G1+G2+0.6V4+0.6D4	4.00	0.00	0.00	-0.27	-0.24	0.00
G1+G2+0.6V4+D4	4.01	0.00	0.00	-0.27	-0.25	0.00
G1+G2+0.7Q	4.30	0.00	0.00	-0.26	-0.17	0.00
G1+G2+0.7Q+0.6V1+0.6D1	4.23	0.00	0.00	-0.23	-0.17	0.00
G1+G2+0.7Q+0.6V1+D1	4.21	0.00	0.00	-0.22	-0.17	0.00
G1+G2+0.7Q+0.6V2+0.6D2	4.38	0.00	0.00	-0.29	-0.17	0.00
G1+G2+0.7Q+0.6V2+D2	4.40	0.00	0.00	-0.29	-0.17	0.00
G1+G2+0.7Q+0.6V3+0.6D3	4.19	0.00	0.00	-0.27	-0.11	0.00
G1+G2+0.7Q+0.6V3+D3	4.18	0.00	0.00	-0.27	-0.10	0.00
G1+G2+0.7Q+0.6V4+0.6D4	4.42	0.00	0.00	-0.25	-0.23	0.00
G1+G2+0.7Q+0.6V4+D4	4.43	0.00	0.00	-0.25	-0.24	0.00
G1+G2+0.7Q+D1	4.26	0.00	0.00	-0.23	-0.17	0.00
G1+G2+0.7Q+D2	4.35	0.00	0.00	-0.28	-0.17	0.00
G1+G2+0.7Q+D3	4.28	0.00	0.00	-0.26	-0.15	0.00
G1+G2+0.7Q+D4	4.33	0.00	0.00	-0.25	-0.19	0.00



Fundação S29						
COMBINAÇÃO:	N (tf)	Mx (kgf.m)	My (kgf.m)	Vx (tf)	Vy (tf)	Mt (kgf/m)
G1+G2+0.7Q+V1+0.6D1	4.20	0.00	0.00	-0.22	-0.17	0.00
G1+G2+0.7Q+V2+0.6D2	4.41	0.00	0.00	-0.30	-0.17	0.00
G1+G2+0.7Q+V3+0.6D3	4.12	0.00	0.00	-0.27	-0.08	0.00
G1+G2+0.7Q+V4+0.6D4	4.49	0.00	0.00	-0.24	-0.27	0.00
G1+G2+D1	3.84	0.00	0.00	-0.25	-0.18	0.00
G1+G2+D2	3.93	0.00	0.00	-0.30	-0.18	0.00
G1+G2+D3	3.86	0.00	0.00	-0.28	-0.16	0.00
G1+G2+D4	3.91	0.00	0.00	-0.27	-0.20	0.00
G1+G2+Q	4.48	0.00	0.00	-0.25	-0.17	0.00
G1+G2+Q+0.6V1+0.6D1	4.41	0.00	0.00	-0.22	-0.17	0.00
G1+G2+Q+0.6V2+0.6D2	4.56	0.00	0.00	-0.28	-0.17	0.00
G1+G2+Q+0.6V3+0.6D3	4.37	0.00	0.00	-0.26	-0.11	0.00
G1+G2+Q+0.6V4+0.6D4	4.60	0.00	0.00	-0.24	-0.23	0.00
G1+G2+Q+D1	4.44	0.00	0.00	-0.22	-0.17	0.00
G1+G2+Q+D2	4.53	0.00	0.00	-0.27	-0.17	0.00
G1+G2+Q+D3	4.46	0.00	0.00	-0.25	-0.15	0.00
G1+G2+Q+D4	4.51	0.00	0.00	-0.24	-0.19	0.00
G1+G2+V1+0.6D1	3.78	0.00	0.00	-0.24	-0.18	0.00
G1+G2+V2+0.6D2	3.99	0.00	0.00	-0.32	-0.18	0.00
G1+G2+V3+0.6D3	3.70	0.00	0.00	-0.29	-0.08	0.00
G1+G2+V4+0.6D4	4.07	0.00	0.00	-0.26	-0.28	0.00

Fundação S30						
COMBINAÇÃO:	N (tf)	Mx (kgf.m)	My (kgf.m)	Vx (tf)	Vy (tf)	Mt (kgf/m)
Peso próprio (G1)	2.94	0.00	0.00	0.04	0.01	0.00
Adicional (G2)	1.36	0.00	0.00	0.28	-0.03	0.00
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	1.36	0.00	0.00	-0.01	0.01	0.00
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.02	0.00	0.00	0.05	0.00	0.00
Vento X- (V2)	-0.02	0.00	0.00	-0.05	0.00	0.00
Vento Y+ (V3)	-0.04	0.00	0.00	-0.02	0.01	0.00
Vento Y- (V4)	0.04	0.00	0.00	0.02	-0.01	0.00
Desaprumo X+ (D1)	0.01	0.00	0.00	0.04	0.00	0.00
Desaprumo X- (D2)	-0.01	0.00	0.00	-0.04	0.00	0.00
Desaprumo Y+ (D3)	-0.01	0.00	0.00	0.00	0.01	0.00
Desaprumo Y- (D4)	0.01	0.00	0.00	0.00	-0.01	0.00
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2	4.30	0.00	0.00	0.32	-0.03	0.00
G1+G2+0.6V1+0.6D1	4.32	0.00	0.00	0.37	-0.03	0.00
G1+G2+0.6V1+D1	4.32	0.00	0.00	0.39	-0.03	0.00
G1+G2+0.6V2+0.6D2	4.29	0.00	0.00	0.26	-0.03	0.00
G1+G2+0.6V2+D2	4.28	0.00	0.00	0.25	-0.03	0.00
G1+G2+0.6V3+0.6D3	4.27	0.00	0.00	0.30	-0.02	0.00
G1+G2+0.6V3+D3	4.27	0.00	0.00	0.30	-0.02	0.00
G1+G2+0.6V4+0.6D4	4.33	0.00	0.00	0.33	-0.04	0.00
G1+G2+0.6V4+D4	4.33	0.00	0.00	0.33	-0.04	0.00
G1+G2+0.7Q	5.26	0.00	0.00	0.31	-0.02	0.00
G1+G2+0.7Q+0.6V1+0.6D1	5.27	0.00	0.00	0.37	-0.02	0.00
G1+G2+0.7Q+0.6V1+D1	5.28	0.00	0.00	0.38	-0.02	0.00
G1+G2+0.7Q+0.6V2+0.6D2	5.24	0.00	0.00	0.26	-0.02	0.00
G1+G2+0.7Q+0.6V2+D2	5.24	0.00	0.00	0.24	-0.02	0.00
G1+G2+0.7Q+0.6V3+0.6D3	5.23	0.00	0.00	0.30	-0.01	0.00
G1+G2+0.7Q+0.6V3+D3	5.23	0.00	0.00	0.29	-0.01	0.00



Fundação S30						
COMBINAÇÃO:	N (tf)	Mx (kgf.m)	My (kgf.m)	Vx (tf)	Vy (tf)	Mt (kgf/m)
G1+G2+0.7Q+0.6V4+0.6D4	5.28	0.00	0.00	0.33	-0.03	0.00
G1+G2+0.7Q+0.6V4+D4	5.29	0.00	0.00	0.33	-0.03	0.00
G1+G2+0.7Q+D1	5.27	0.00	0.00	0.35	-0.02	0.00
G1+G2+0.7Q+D2	5.25	0.00	0.00	0.27	-0.02	0.00
G1+G2+0.7Q+D3	5.25	0.00	0.00	0.31	-0.01	0.00
G1+G2+0.7Q+D4	5.26	0.00	0.00	0.31	-0.03	0.00
G1+G2+0.7Q+V1+0.6D1	5.28	0.00	0.00	0.39	-0.02	0.00
G1+G2+0.7Q+V2+0.6D2	5.23	0.00	0.00	0.24	-0.02	0.00
G1+G2+0.7Q+V3+0.6D3	5.21	0.00	0.00	0.29	-0.01	0.00
G1+G2+0.7Q+V4+0.6D4	5.30	0.00	0.00	0.33	-0.03	0.00
G1+G2+D1	4.31	0.00	0.00	0.36	-0.03	0.00
G1+G2+D2	4.29	0.00	0.00	0.28	-0.03	0.00
G1+G2+D3	4.30	0.00	0.00	0.31	-0.02	0.00
G1+G2+D4	4.31	0.00	0.00	0.32	-0.03	0.00
G1+G2+Q	5.67	0.00	0.00	0.31	-0.02	0.00
G1+G2+Q+0.6V1+0.6D1	5.68	0.00	0.00	0.36	-0.02	0.00
G1+G2+Q+0.6V2+0.6D2	5.65	0.00	0.00	0.25	-0.02	0.00
G1+G2+Q+0.6V3+0.6D3	5.64	0.00	0.00	0.29	-0.01	0.00
G1+G2+Q+0.6V4+0.6D4	5.69	0.00	0.00	0.32	-0.02	0.00
G1+G2+Q+D1	5.68	0.00	0.00	0.35	-0.02	0.00
G1+G2+Q+D2	5.65	0.00	0.00	0.27	-0.02	0.00
G1+G2+Q+D3	5.66	0.00	0.00	0.31	-0.01	0.00
G1+G2+Q+D4	5.67	0.00	0.00	0.31	-0.02	0.00
G1+G2+V1+0.6D1	4.33	0.00	0.00	0.39	-0.03	0.00
G1+G2+V2+0.6D2	4.28	0.00	0.00	0.24	-0.03	0.00
G1+G2+V3+0.6D3	4.26	0.00	0.00	0.29	-0.02	0.00
G1+G2+V4+0.6D4	4.35	0.00	0.00	0.34	-0.04	0.00

Fundação S31						
COMBINAÇÃO:	N (tf)	Mx (kgf.m)	My (kgf.m)	Vx (tf)	Vy (tf)	Mt (kgf/m)
Peso próprio (G1)	2.26	0.00	0.00	-0.02	-0.01	0.00
Adicional (G2)	1.04	0.00	0.00	0.26	0.00	0.00
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	0.99	0.00	0.00	-0.07	-0.01	0.00
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.03	0.00	0.00	0.00	0.03	0.00
Vento X- (V2)	-0.03	0.00	0.00	0.00	-0.03	0.00
Vento Y+ (V3)	-0.25	0.00	0.00	-0.09	-0.01	0.00
Vento Y- (V4)	0.25	0.00	0.00	0.09	0.01	0.00
Desaprumo X+ (D1)	0.02	0.00	0.00	0.00	0.02	0.00
Desaprumo X- (D2)	-0.02	0.00	0.00	0.00	-0.02	0.00
Desaprumo Y+ (D3)	-0.03	0.00	0.00	-0.02	0.00	0.00
Desaprumo Y- (D4)	0.03	0.00	0.00	0.02	0.00	0.00
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2	3.31	0.00	0.00	0.24	-0.01	0.00
G1+G2+0.6V1+0.6D1	3.34	0.00	0.00	0.24	0.02	0.00
G1+G2+0.6V1+D1	3.34	0.00	0.00	0.24	0.03	0.00
G1+G2+0.6V2+0.6D2	3.28	0.00	0.00	0.24	-0.03	0.00
G1+G2+0.6V2+D2	3.27	0.00	0.00	0.24	-0.04	0.00
G1+G2+0.6V3+0.6D3	3.14	0.00	0.00	0.17	-0.01	0.00
G1+G2+0.6V3+D3	3.12	0.00	0.00	0.16	-0.01	0.00
G1+G2+0.6V4+0.6D4	3.48	0.00	0.00	0.30	0.00	0.00
G1+G2+0.6V4+D4	3.49	0.00	0.00	0.31	0.00	0.00



Fundação S31						
COMBINAÇÃO:	N (tf)	Mx (kgf.m)	My (kgf.m)	Vx (tf)	Vy (tf)	Mt (kgf/m)
G1+G2+0.7Q	4.00	0.00	0.00	0.19	-0.01	0.00
G1+G2+0.7Q+0.6V1+0.6D1	4.03	0.00	0.00	0.19	0.02	0.00
G1+G2+0.7Q+0.6V1+D1	4.04	0.00	0.00	0.19	0.02	0.00
G1+G2+0.7Q+0.6V2+0.6D2	3.97	0.00	0.00	0.19	-0.04	0.00
G1+G2+0.7Q+0.6V2+D2	3.96	0.00	0.00	0.19	-0.05	0.00
G1+G2+0.7Q+0.6V3+0.6D3	3.83	0.00	0.00	0.12	-0.02	0.00
G1+G2+0.7Q+0.6V3+D3	3.82	0.00	0.00	0.11	-0.02	0.00
G1+G2+0.7Q+0.6V4+0.6D4	4.17	0.00	0.00	0.26	0.00	0.00
G1+G2+0.7Q+0.6V4+D4	4.19	0.00	0.00	0.27	0.00	0.00
G1+G2+0.7Q+D1	4.02	0.00	0.00	0.19	0.01	0.00
G1+G2+0.7Q+D2	3.98	0.00	0.00	0.19	-0.03	0.00
G1+G2+0.7Q+D3	3.97	0.00	0.00	0.17	-0.01	0.00
G1+G2+0.7Q+D4	4.04	0.00	0.00	0.21	-0.01	0.00
G1+G2+0.7Q+V1+0.6D1	4.04	0.00	0.00	0.19	0.03	0.00
G1+G2+0.7Q+V2+0.6D2	3.96	0.00	0.00	0.19	-0.05	0.00
G1+G2+0.7Q+V3+0.6D3	3.73	0.00	0.00	0.08	-0.02	0.00
G1+G2+0.7Q+V4+0.6D4	4.27	0.00	0.00	0.30	0.00	0.00
G1+G2+D1	3.33	0.00	0.00	0.24	0.01	0.00
G1+G2+D2	3.29	0.00	0.00	0.24	-0.03	0.00
G1+G2+D3	3.27	0.00	0.00	0.22	-0.01	0.00
G1+G2+D4	3.34	0.00	0.00	0.26	-0.01	0.00
G1+G2+Q	4.30	0.00	0.00	0.17	-0.01	0.00
G1+G2+Q+0.6V1+0.6D1	4.33	0.00	0.00	0.17	0.01	0.00
G1+G2+Q+0.6V2+0.6D2	4.27	0.00	0.00	0.17	-0.04	0.00
G1+G2+Q+0.6V3+0.6D3	4.13	0.00	0.00	0.10	-0.02	0.00
G1+G2+Q+0.6V4+0.6D4	4.47	0.00	0.00	0.24	-0.01	0.00
G1+G2+Q+D1	4.32	0.00	0.00	0.17	0.01	0.00
G1+G2+Q+D2	4.28	0.00	0.00	0.17	-0.03	0.00
G1+G2+Q+D3	4.27	0.00	0.00	0.15	-0.01	0.00
G1+G2+Q+D4	4.33	0.00	0.00	0.19	-0.01	0.00
G1+G2+V1+0.6D1	3.35	0.00	0.00	0.24	0.03	0.00
G1+G2+V2+0.6D2	3.26	0.00	0.00	0.24	-0.04	0.00
G1+G2+V3+0.6D3	3.04	0.00	0.00	0.13	-0.02	0.00
G1+G2+V4+0.6D4	3.58	0.00	0.00	0.34	0.00	0.00

Fundação S32						
COMBINAÇÃO:	N (tf)	Mx (kgf.m)	My (kgf.m)	Vx (tf)	Vy (tf)	Mt (kgf/m)
Peso próprio (G1)	3.05	0.00	0.00	-0.01	-0.02	0.00
Adicional (G2)	2.01	0.00	0.00	0.43	-0.08	0.00
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	1.35	0.00	0.00	-0.09	0.01	0.00
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.01	0.00	0.00	0.00	0.02	0.00
Vento X- (V2)	-0.01	0.00	0.00	0.00	-0.02	0.00
Vento Y+ (V3)	-0.28	0.00	0.00	-0.09	-0.01	0.00
Vento Y- (V4)	0.28	0.00	0.00	0.09	0.01	0.00
Desaprumo X+ (D1)	0.00	0.00	0.00	0.00	0.02	0.00
Desaprumo X- (D2)	0.00	0.00	0.00	0.00	-0.02	0.00
Desaprumo Y+ (D3)	-0.04	0.00	0.00	-0.02	0.00	0.00
Desaprumo Y- (D4)	0.04	0.00	0.00	0.02	0.00	0.00
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2	5.06	0.00	0.00	0.42	-0.09	0.00
G1+G2+0.6V1+0.6D1	5.07	0.00	0.00	0.42	-0.07	0.00
G1+G2+0.6V1+D1	5.07	0.00	0.00	0.42	-0.06	0.00



Fundação S32						
COMBINAÇÃO:	N (tf)	Mx (kgf.m)	My (kgf.m)	Vx (tf)	Vy (tf)	Mt (kgf/m)
G1+G2+0.6V2+0.6D2	5.06	0.00	0.00	0.42	-0.12	0.00
G1+G2+0.6V2+D2	5.05	0.00	0.00	0.42	-0.12	0.00
G1+G2+0.6V3+0.6D3	4.87	0.00	0.00	0.35	-0.10	0.00
G1+G2+0.6V3+D3	4.86	0.00	0.00	0.35	-0.10	0.00
G1+G2+0.6V4+0.6D4	5.25	0.00	0.00	0.49	-0.09	0.00
G1+G2+0.6V4+D4	5.27	0.00	0.00	0.50	-0.08	0.00
G1+G2+0.7Q	6.01	0.00	0.00	0.36	-0.09	0.00
G1+G2+0.7Q+0.6V1+0.6D1	6.01	0.00	0.00	0.36	-0.06	0.00
G1+G2+0.7Q+0.6V1+D1	6.02	0.00	0.00	0.36	-0.06	0.00
G1+G2+0.7Q+0.6V2+0.6D2	6.00	0.00	0.00	0.36	-0.11	0.00
G1+G2+0.7Q+0.6V2+D2	6.00	0.00	0.00	0.36	-0.12	0.00
G1+G2+0.7Q+0.6V3+0.6D3	5.82	0.00	0.00	0.29	-0.10	0.00
G1+G2+0.7Q+0.6V3+D3	5.80	0.00	0.00	0.28	-0.10	0.00
G1+G2+0.7Q+0.6V4+0.6D4	6.20	0.00	0.00	0.43	-0.08	0.00
G1+G2+0.7Q+0.6V4+D4	6.21	0.00	0.00	0.43	-0.08	0.00
G1+G2+0.7Q+D1	6.01	0.00	0.00	0.36	-0.07	0.00
G1+G2+0.7Q+D2	6.01	0.00	0.00	0.36	-0.10	0.00
G1+G2+0.7Q+D3	5.97	0.00	0.00	0.34	-0.09	0.00
G1+G2+0.7Q+D4	6.05	0.00	0.00	0.38	-0.09	0.00
G1+G2+0.7Q+V1+0.6D1	6.02	0.00	0.00	0.36	-0.06	0.00
G1+G2+0.7Q+V2+0.6D2	6.00	0.00	0.00	0.36	-0.12	0.00
G1+G2+0.7Q+V3+0.6D3	5.71	0.00	0.00	0.25	-0.10	0.00
G1+G2+0.7Q+V4+0.6D4	6.31	0.00	0.00	0.46	-0.08	0.00
G1+G2+D1	5.06	0.00	0.00	0.42	-0.08	0.00
G1+G2+D2	5.06	0.00	0.00	0.42	-0.11	0.00
G1+G2+D3	5.02	0.00	0.00	0.40	-0.09	0.00
G1+G2+D4	5.10	0.00	0.00	0.44	-0.09	0.00
G1+G2+Q	6.41	0.00	0.00	0.33	-0.09	0.00
G1+G2+Q+0.6V1+0.6D1	6.42	0.00	0.00	0.33	-0.06	0.00
G1+G2+Q+0.6V2+0.6D2	6.41	0.00	0.00	0.33	-0.11	0.00
G1+G2+Q+0.6V3+0.6D3	6.22	0.00	0.00	0.26	-0.09	0.00
G1+G2+Q+0.6V4+0.6D4	6.61	0.00	0.00	0.40	-0.08	0.00
G1+G2+Q+D1	6.42	0.00	0.00	0.33	-0.07	0.00
G1+G2+Q+D2	6.41	0.00	0.00	0.33	-0.10	0.00
G1+G2+Q+D3	6.38	0.00	0.00	0.31	-0.09	0.00
G1+G2+Q+D4	6.45	0.00	0.00	0.35	-0.08	0.00
G1+G2+V1+0.6D1	5.07	0.00	0.00	0.42	-0.06	0.00
G1+G2+V2+0.6D2	5.05	0.00	0.00	0.42	-0.13	0.00
G1+G2+V3+0.6D3	4.76	0.00	0.00	0.32	-0.10	0.00
G1+G2+V4+0.6D4	5.36	0.00	0.00	0.53	-0.08	0.00

Fundação S33						
COMBINAÇÃO:	N (tf)	Mx (kgf.m)	My (kgf.m)	Vx (tf)	Vy (tf)	Mt (kgf/m)
Peso próprio (G1)	2.99	0.00	0.00	-0.02	0.01	0.00
Adicional (G2)	0.89	0.00	0.00	0.18	0.07	0.00
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	1.31	0.00	0.00	-0.10	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	0.00	0.00	0.02	0.00
Vento X- (V2)	0.00	0.00	0.00	0.00	-0.02	0.00
Vento Y+ (V3)	-0.27	0.00	0.00	-0.10	-0.01	0.00
Vento Y- (V4)	0.27	0.00	0.00	0.10	0.01	0.00
Desaprumo X+ (D1)	0.00	0.00	0.00	0.00	0.02	0.00



Fundação S33						
COMBINAÇÃO:	N (tf)	Mx (kgf.m)	My (kgf.m)	Vx (tf)	Vy (tf)	Mt (kgf/m)
Desaprumo X- (D2)	0.00	0.00	0.00	0.00	-0.02	0.00
Desaprumo Y+ (D3)	-0.04	0.00	0.00	-0.02	0.00	0.00
Desaprumo Y- (D4)	0.04	0.00	0.00	0.02	0.00	0.00
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2	3.88	0.00	0.00	0.16	0.08	0.00
G1+G2+0.6V1+0.6D1	3.87	0.00	0.00	0.16	0.10	0.00
G1+G2+0.6V1+D1	3.87	0.00	0.00	0.16	0.11	0.00
G1+G2+0.6V2+0.6D2	3.88	0.00	0.00	0.16	0.06	0.00
G1+G2+0.6V2+D2	3.88	0.00	0.00	0.16	0.05	0.00
G1+G2+0.6V3+0.6D3	3.69	0.00	0.00	0.09	0.08	0.00
G1+G2+0.6V3+D3	3.68	0.00	0.00	0.09	0.08	0.00
G1+G2+0.6V4+0.6D4	4.06	0.00	0.00	0.23	0.09	0.00
G1+G2+0.6V4+D4	4.08	0.00	0.00	0.24	0.09	0.00
G1+G2+0.7Q	4.80	0.00	0.00	0.09	0.08	0.00
G1+G2+0.7Q+0.6V1+0.6D1	4.79	0.00	0.00	0.09	0.10	0.00
G1+G2+0.7Q+0.6V1+D1	4.79	0.00	0.00	0.09	0.11	0.00
G1+G2+0.7Q+0.6V2+0.6D2	4.80	0.00	0.00	0.09	0.06	0.00
G1+G2+0.7Q+0.6V2+D2	4.80	0.00	0.00	0.09	0.05	0.00
G1+G2+0.7Q+0.6V3+0.6D3	4.61	0.00	0.00	0.02	0.07	0.00
G1+G2+0.7Q+0.6V3+D3	4.59	0.00	0.00	0.01	0.07	0.00
G1+G2+0.7Q+0.6V4+0.6D4	4.98	0.00	0.00	0.16	0.09	0.00
G1+G2+0.7Q+0.6V4+D4	5.00	0.00	0.00	0.17	0.09	0.00
G1+G2+0.7Q+D1	4.79	0.00	0.00	0.09	0.10	0.00
G1+G2+0.7Q+D2	4.80	0.00	0.00	0.09	0.06	0.00
G1+G2+0.7Q+D3	4.76	0.00	0.00	0.08	0.08	0.00
G1+G2+0.7Q+D4	4.83	0.00	0.00	0.11	0.08	0.00
G1+G2+0.7Q+V1+0.6D1	4.79	0.00	0.00	0.09	0.11	0.00
G1+G2+0.7Q+V2+0.6D2	4.80	0.00	0.00	0.09	0.05	0.00
G1+G2+0.7Q+V3+0.6D3	4.50	0.00	0.00	-0.02	0.07	0.00
G1+G2+0.7Q+V4+0.6D4	5.09	0.00	0.00	0.20	0.09	0.00
G1+G2+D1	3.87	0.00	0.00	0.16	0.10	0.00
G1+G2+D2	3.88	0.00	0.00	0.16	0.07	0.00
G1+G2+D3	3.84	0.00	0.00	0.15	0.08	0.00
G1+G2+D4	3.91	0.00	0.00	0.18	0.08	0.00
G1+G2+Q	5.19	0.00	0.00	0.06	0.08	0.00
G1+G2+Q+0.6V1+0.6D1	5.19	0.00	0.00	0.06	0.10	0.00
G1+G2+Q+0.6V2+0.6D2	5.19	0.00	0.00	0.06	0.06	0.00
G1+G2+Q+0.6V3+0.6D3	5.00	0.00	0.00	-0.01	0.07	0.00
G1+G2+Q+0.6V4+0.6D4	5.38	0.00	0.00	0.13	0.09	0.00
G1+G2+Q+D1	5.19	0.00	0.00	0.06	0.09	0.00
G1+G2+Q+D2	5.19	0.00	0.00	0.06	0.06	0.00
G1+G2+Q+D3	5.15	0.00	0.00	0.05	0.08	0.00
G1+G2+Q+D4	5.23	0.00	0.00	0.08	0.08	0.00
G1+G2+V1+0.6D1	3.87	0.00	0.00	0.16	0.11	0.00
G1+G2+V2+0.6D2	3.88	0.00	0.00	0.16	0.05	0.00
G1+G2+V3+0.6D3	3.58	0.00	0.00	0.05	0.07	0.00
G1+G2+V4+0.6D4	4.17	0.00	0.00	0.27	0.09	0.00

Fundação S34						
COMBINAÇÃO:	N (tf)	Mx (kgf.m)	My (kgf.m)	Vx (tf)	Vy (tf)	Mt (kgf/m)
Peso próprio (G1)	2.32	0.00	0.00	0.03	0.00	0.00
Adicional (G2)	0.48	0.00	0.00	0.02	-0.07	0.00
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	0.84	0.00	0.00	0.01	0.01	0.00



Fundação S34						
COMBINAÇÃO:	N (tf)	Mx (kgf.m)	My (kgf.m)	Vx (tf)	Vy (tf)	Mt (kgf/m)
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	-0.02	0.00	0.00	0.00	0.03	0.00
Vento X- (V2)	0.02	0.00	0.00	0.00	-0.03	0.00
Vento Y+ (V3)	-0.52	0.00	0.00	-0.11	-0.01	0.00
Vento Y- (V4)	0.52	0.00	0.00	0.11	0.01	0.00
Desaprumo X+ (D1)	-0.01	0.00	0.00	0.00	0.02	0.00
Desaprumo X- (D2)	0.01	0.00	0.00	0.00	-0.02	0.00
Desaprumo Y+ (D3)	-0.07	0.00	0.00	-0.02	0.00	0.00
Desaprumo Y- (D4)	0.07	0.00	0.00	0.02	0.00	0.00
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2	2.80	0.00	0.00	0.05	-0.06	0.00
G1+G2+0.6V1+0.6D1	2.78	0.00	0.00	0.06	-0.04	0.00
G1+G2+0.6V1+D1	2.77	0.00	0.00	0.06	-0.03	0.00
G1+G2+0.6V2+0.6D2	2.82	0.00	0.00	0.05	-0.09	0.00
G1+G2+0.6V2+D2	2.83	0.00	0.00	0.05	-0.10	0.00
G1+G2+0.6V3+0.6D3	2.45	0.00	0.00	-0.02	-0.07	0.00
G1+G2+0.6V3+D3	2.42	0.00	0.00	-0.03	-0.07	0.00
G1+G2+0.6V4+0.6D4	3.15	0.00	0.00	0.13	-0.06	0.00
G1+G2+0.6V4+D4	3.18	0.00	0.00	0.14	-0.06	0.00
G1+G2+0.7Q	3.39	0.00	0.00	0.06	-0.06	0.00
G1+G2+0.7Q+0.6V1+0.6D1	3.37	0.00	0.00	0.06	-0.03	0.00
G1+G2+0.7Q+0.6V1+D1	3.36	0.00	0.00	0.06	-0.03	0.00
G1+G2+0.7Q+0.6V2+0.6D2	3.41	0.00	0.00	0.06	-0.09	0.00
G1+G2+0.7Q+0.6V2+D2	3.42	0.00	0.00	0.06	-0.09	0.00
G1+G2+0.7Q+0.6V3+0.6D3	3.04	0.00	0.00	-0.02	-0.07	0.00
G1+G2+0.7Q+0.6V3+D3	3.02	0.00	0.00	-0.03	-0.07	0.00
G1+G2+0.7Q+0.6V4+0.6D4	3.74	0.00	0.00	0.13	-0.05	0.00
G1+G2+0.7Q+0.6V4+D4	3.77	0.00	0.00	0.14	-0.05	0.00
G1+G2+0.7Q+D1	3.38	0.00	0.00	0.06	-0.04	0.00
G1+G2+0.7Q+D2	3.41	0.00	0.00	0.06	-0.08	0.00
G1+G2+0.7Q+D3	3.32	0.00	0.00	0.04	-0.06	0.00
G1+G2+0.7Q+D4	3.46	0.00	0.00	0.08	-0.06	0.00
G1+G2+0.7Q+V1+0.6D1	3.36	0.00	0.00	0.06	-0.02	0.00
G1+G2+0.7Q+V2+0.6D2	3.42	0.00	0.00	0.06	-0.10	0.00
G1+G2+0.7Q+V3+0.6D3	2.84	0.00	0.00	-0.06	-0.07	0.00
G1+G2+0.7Q+V4+0.6D4	3.95	0.00	0.00	0.18	-0.05	0.00
G1+G2+D1	2.79	0.00	0.00	0.05	-0.05	0.00
G1+G2+D2	2.82	0.00	0.00	0.05	-0.08	0.00
G1+G2+D3	2.73	0.00	0.00	0.04	-0.07	0.00
G1+G2+D4	2.87	0.00	0.00	0.07	-0.06	0.00
G1+G2+Q	3.65	0.00	0.00	0.06	-0.06	0.00
G1+G2+Q+0.6V1+0.6D1	3.62	0.00	0.00	0.06	-0.03	0.00
G1+G2+Q+0.6V2+0.6D2	3.67	0.00	0.00	0.06	-0.09	0.00
G1+G2+Q+0.6V3+0.6D3	3.30	0.00	0.00	-0.02	-0.07	0.00
G1+G2+Q+0.6V4+0.6D4	4.00	0.00	0.00	0.14	-0.05	0.00
G1+G2+Q+D1	3.63	0.00	0.00	0.06	-0.04	0.00
G1+G2+Q+D2	3.66	0.00	0.00	0.06	-0.08	0.00
G1+G2+Q+D3	3.58	0.00	0.00	0.04	-0.06	0.00
G1+G2+Q+D4	3.71	0.00	0.00	0.08	-0.06	0.00
G1+G2+V1+0.6D1	2.77	0.00	0.00	0.06	-0.03	0.00
G1+G2+V2+0.6D2	2.83	0.00	0.00	0.05	-0.10	0.00
G1+G2+V3+0.6D3	2.24	0.00	0.00	-0.07	-0.08	0.00
G1+G2+V4+0.6D4	3.36	0.00	0.00	0.17	-0.05	0.00



Fundação S35						
COMBINAÇÃO:	N (tf)	Mx (kgf.m)	My (kgf.m)	Vx (tf)	Vy (tf)	Mt (kgf/m)
Peso próprio (G1)	2.24	0.00	0.00	0.00	0.00	0.00
Adicional (G2)	1.64	0.00	0.00	0.29	0.05	0.00
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	0.83	0.00	0.00	-0.05	0.00	0.00
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.02	0.00	0.00	0.00	0.02	0.00
Vento X- (V2)	-0.02	0.00	0.00	0.00	-0.02	0.00
Vento Y+ (V3)	-0.32	0.00	0.00	-0.11	-0.01	0.00
Vento Y- (V4)	0.32	0.00	0.00	0.11	0.01	0.00
Desaprumo X+ (D1)	0.01	0.00	0.00	0.00	0.02	0.00
Desaprumo X- (D2)	-0.01	0.00	0.00	0.00	-0.02	0.00
Desaprumo Y+ (D3)	-0.04	0.00	0.00	-0.02	0.00	0.00
Desaprumo Y- (D4)	0.04	0.00	0.00	0.02	0.00	0.00
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2	3.88	0.00	0.00	0.28	0.04	0.00
G1+G2+0.6V1+0.6D1	3.90	0.00	0.00	0.28	0.07	0.00
G1+G2+0.6V1+D1	3.90	0.00	0.00	0.28	0.08	0.00
G1+G2+0.6V2+0.6D2	3.86	0.00	0.00	0.28	0.02	0.00
G1+G2+0.6V2+D2	3.85	0.00	0.00	0.28	0.01	0.00
G1+G2+0.6V3+0.6D3	3.66	0.00	0.00	0.21	0.04	0.00
G1+G2+0.6V3+D3	3.64	0.00	0.00	0.20	0.04	0.00
G1+G2+0.6V4+0.6D4	4.10	0.00	0.00	0.36	0.05	0.00
G1+G2+0.6V4+D4	4.12	0.00	0.00	0.37	0.05	0.00
G1+G2+0.7Q	4.46	0.00	0.00	0.24	0.04	0.00
G1+G2+0.7Q+0.6V1+0.6D1	4.48	0.00	0.00	0.24	0.07	0.00
G1+G2+0.7Q+0.6V1+D1	4.49	0.00	0.00	0.24	0.07	0.00
G1+G2+0.7Q+0.6V2+0.6D2	4.44	0.00	0.00	0.24	0.02	0.00
G1+G2+0.7Q+0.6V2+D2	4.43	0.00	0.00	0.24	0.01	0.00
G1+G2+0.7Q+0.6V3+0.6D3	4.24	0.00	0.00	0.17	0.03	0.00
G1+G2+0.7Q+0.6V3+D3	4.22	0.00	0.00	0.16	0.03	0.00
G1+G2+0.7Q+0.6V4+0.6D4	4.68	0.00	0.00	0.32	0.05	0.00
G1+G2+0.7Q+0.6V4+D4	4.70	0.00	0.00	0.33	0.05	0.00
G1+G2+0.7Q+D1	4.47	0.00	0.00	0.24	0.06	0.00
G1+G2+0.7Q+D2	4.45	0.00	0.00	0.24	0.03	0.00
G1+G2+0.7Q+D3	4.42	0.00	0.00	0.23	0.04	0.00
G1+G2+0.7Q+D4	4.50	0.00	0.00	0.26	0.04	0.00
G1+G2+0.7Q+V1+0.6D1	4.49	0.00	0.00	0.24	0.08	0.00
G1+G2+0.7Q+V2+0.6D2	4.43	0.00	0.00	0.24	0.01	0.00
G1+G2+0.7Q+V3+0.6D3	4.11	0.00	0.00	0.12	0.03	0.00
G1+G2+0.7Q+V4+0.6D4	4.81	0.00	0.00	0.37	0.06	0.00
G1+G2+D1	3.89	0.00	0.00	0.28	0.06	0.00
G1+G2+D2	3.87	0.00	0.00	0.28	0.03	0.00
G1+G2+D3	3.84	0.00	0.00	0.26	0.04	0.00
G1+G2+D4	3.92	0.00	0.00	0.30	0.05	0.00
G1+G2+Q	4.71	0.00	0.00	0.23	0.04	0.00
G1+G2+Q+0.6V1+0.6D1	4.73	0.00	0.00	0.23	0.07	0.00
G1+G2+Q+0.6V2+0.6D2	4.69	0.00	0.00	0.23	0.02	0.00
G1+G2+Q+0.6V3+0.6D3	4.49	0.00	0.00	0.15	0.03	0.00
G1+G2+Q+0.6V4+0.6D4	4.93	0.00	0.00	0.30	0.05	0.00
G1+G2+Q+D1	4.72	0.00	0.00	0.23	0.06	0.00
G1+G2+Q+D2	4.70	0.00	0.00	0.23	0.03	0.00
G1+G2+Q+D3	4.67	0.00	0.00	0.21	0.04	0.00
G1+G2+Q+D4	4.75	0.00	0.00	0.25	0.04	0.00
G1+G2+V1+0.6D1	3.91	0.00	0.00	0.28	0.08	0.00
G1+G2+V2+0.6D2	3.85	0.00	0.00	0.28	0.01	0.00



Fundação S35						
COMBINAÇÃO:	N (tf)	Mx (kgf.m)	My (kgf.m)	Vx (tf)	Vy (tf)	Mt (kgf/m)
G1+G2+V3+0.6D3	3.53	0.00	0.00	0.16	0.03	0.00
G1+G2+V4+0.6D4	4.23	0.00	0.00	0.40	0.06	0.00

Fundação S36						
COMBINAÇÃO:	N (tf)	Mx (kgf.m)	My (kgf.m)	Vx (tf)	Vy (tf)	Mt (kgf/m)
Peso próprio (G1)	3.00	0.00	0.00	0.00	0.00	0.00
Adicional (G2)	1.07	0.00	0.00	0.23	-0.01	0.00
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	1.49	0.00	0.00	-0.03	0.02	0.00
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	-0.01	0.00	0.00	0.00	0.02	0.00
Vento X- (V2)	0.01	0.00	0.00	0.00	-0.02	0.00
Vento Y+ (V3)	-0.27	0.00	0.00	-0.11	-0.01	0.00
Vento Y- (V4)	0.27	0.00	0.00	0.11	0.01	0.00
Desaprumo X+ (D1)	0.00	0.00	0.00	0.00	0.02	0.00
Desaprumo X- (D2)	0.00	0.00	0.00	0.00	-0.02	0.00
Desaprumo Y+ (D3)	-0.03	0.00	0.00	-0.02	0.00	0.00
Desaprumo Y- (D4)	0.03	0.00	0.00	0.02	0.00	0.00
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2	4.08	0.00	0.00	0.23	-0.01	0.00
G1+G2+0.6V1+0.6D1	4.07	0.00	0.00	0.23	0.01	0.00
G1+G2+0.6V1+D1	4.07	0.00	0.00	0.23	0.02	0.00
G1+G2+0.6V2+0.6D2	4.08	0.00	0.00	0.23	-0.04	0.00
G1+G2+0.6V2+D2	4.08	0.00	0.00	0.23	-0.04	0.00
G1+G2+0.6V3+0.6D3	3.89	0.00	0.00	0.15	-0.02	0.00
G1+G2+0.6V3+D3	3.88	0.00	0.00	0.15	-0.02	0.00
G1+G2+0.6V4+0.6D4	4.26	0.00	0.00	0.30	-0.01	0.00
G1+G2+0.6V4+D4	4.27	0.00	0.00	0.31	0.00	0.00
G1+G2+0.7Q	5.12	0.00	0.00	0.21	0.00	0.00
G1+G2+0.7Q+0.6V1+0.6D1	5.11	0.00	0.00	0.21	0.02	0.00
G1+G2+0.7Q+0.6V1+D1	5.11	0.00	0.00	0.21	0.03	0.00
G1+G2+0.7Q+0.6V2+0.6D2	5.13	0.00	0.00	0.21	-0.02	0.00
G1+G2+0.7Q+0.6V2+D2	5.13	0.00	0.00	0.21	-0.03	0.00
G1+G2+0.7Q+0.6V3+0.6D3	4.94	0.00	0.00	0.13	-0.01	0.00
G1+G2+0.7Q+0.6V3+D3	4.92	0.00	0.00	0.13	-0.01	0.00
G1+G2+0.7Q+0.6V4+0.6D4	5.30	0.00	0.00	0.28	0.01	0.00
G1+G2+0.7Q+0.6V4+D4	5.32	0.00	0.00	0.29	0.01	0.00
G1+G2+0.7Q+D1	5.12	0.00	0.00	0.21	0.01	0.00
G1+G2+0.7Q+D2	5.12	0.00	0.00	0.21	-0.02	0.00
G1+G2+0.7Q+D3	5.09	0.00	0.00	0.19	0.00	0.00
G1+G2+0.7Q+D4	5.16	0.00	0.00	0.23	0.00	0.00
G1+G2+0.7Q+V1+0.6D1	5.11	0.00	0.00	0.21	0.03	0.00
G1+G2+0.7Q+V2+0.6D2	5.13	0.00	0.00	0.21	-0.03	0.00
G1+G2+0.7Q+V3+0.6D3	4.83	0.00	0.00	0.09	-0.01	0.00
G1+G2+0.7Q+V4+0.6D4	5.41	0.00	0.00	0.33	0.01	0.00
G1+G2+D1	4.07	0.00	0.00	0.23	0.00	0.00
G1+G2+D2	4.08	0.00	0.00	0.23	-0.03	0.00
G1+G2+D3	4.04	0.00	0.00	0.21	-0.01	0.00
G1+G2+D4	4.11	0.00	0.00	0.25	-0.01	0.00
G1+G2+Q	5.57	0.00	0.00	0.20	0.00	0.00
G1+G2+Q+0.6V1+0.6D1	5.56	0.00	0.00	0.20	0.03	0.00
G1+G2+Q+0.6V2+0.6D2	5.57	0.00	0.00	0.20	-0.02	0.00
G1+G2+Q+0.6V3+0.6D3	5.38	0.00	0.00	0.13	0.00	0.00



Fundação S36						
COMBINAÇÃO:	N (tf)	Mx (kgf.m)	My (kgf.m)	Vx (tf)	Vy (tf)	Mt (kgf/m)
G1+G2+Q+0.6V4+0.6D4	5.75	0.00	0.00	0.28	0.01	0.00
G1+G2+Q+D1	5.56	0.00	0.00	0.20	0.02	0.00
G1+G2+Q+D2	5.57	0.00	0.00	0.20	-0.01	0.00
G1+G2+Q+D3	5.53	0.00	0.00	0.18	0.00	0.00
G1+G2+Q+D4	5.60	0.00	0.00	0.22	0.00	0.00
G1+G2+V1+0.6D1	4.07	0.00	0.00	0.23	0.02	0.00
G1+G2+V2+0.6D2	4.08	0.00	0.00	0.23	-0.05	0.00
G1+G2+V3+0.6D3	3.79	0.00	0.00	0.11	-0.03	0.00
G1+G2+V4+0.6D4	4.37	0.00	0.00	0.35	0.00	0.00

Fundação S37						
COMBINAÇÃO:	N (tf)	Mx (kgf.m)	My (kgf.m)	Vx (tf)	Vy (tf)	Mt (kgf/m)
Peso próprio (G1)	1.84	0.00	0.00	0.01	-0.02	0.00
Adicional (G2)	0.94	0.00	0.00	-0.02	-0.15	0.00
Solo (S)	0.00	0.00	0.00	0.00	0.00	0.00
Acidental (Q)	0.67	0.00	0.00	-0.04	0.00	0.00
Água (A)	0.00	0.00	0.00	0.00	0.00	0.00
Vento X+ (V1)	0.03	0.00	0.00	0.02	0.00	0.00
Vento X- (V2)	-0.03	0.00	0.00	-0.02	0.00	0.00
Vento Y+ (V3)	-0.13	0.00	0.00	-0.01	0.05	0.00
Vento Y- (V4)	0.13	0.00	0.00	0.01	-0.05	0.00
Desaprumo X+ (D1)	0.02	0.00	0.00	0.01	0.00	0.00
Desaprumo X- (D2)	-0.02	0.00	0.00	-0.01	0.00	0.00
Desaprumo Y+ (D3)	-0.02	0.00	0.00	0.00	0.01	0.00
Desaprumo Y- (D4)	0.02	0.00	0.00	0.00	-0.01	0.00
Subpressão (AS)	0.00	0.00	0.00	0.00	0.00	0.00
G1+G2	2.79	0.00	0.00	-0.01	-0.17	0.00
G1+G2+0.6V1+0.6D1	2.82	0.00	0.00	0.01	-0.17	0.00
G1+G2+0.6V1+D1	2.83	0.00	0.00	0.01	-0.17	0.00
G1+G2+0.6V2+0.6D2	2.75	0.00	0.00	-0.03	-0.17	0.00
G1+G2+0.6V2+D2	2.74	0.00	0.00	-0.03	-0.17	0.00
G1+G2+0.6V3+0.6D3	2.70	0.00	0.00	-0.02	-0.14	0.00
G1+G2+0.6V3+D3	2.69	0.00	0.00	-0.02	-0.13	0.00
G1+G2+0.6V4+0.6D4	2.87	0.00	0.00	-0.01	-0.20	0.00
G1+G2+0.6V4+D4	2.88	0.00	0.00	-0.01	-0.21	0.00
G1+G2+0.7Q	3.26	0.00	0.00	-0.04	-0.17	0.00
G1+G2+0.7Q+0.6V1+0.6D1	3.29	0.00	0.00	-0.02	-0.17	0.00
G1+G2+0.7Q+0.6V1+D1	3.30	0.00	0.00	-0.02	-0.17	0.00
G1+G2+0.7Q+0.6V2+0.6D2	3.22	0.00	0.00	-0.06	-0.17	0.00
G1+G2+0.7Q+0.6V2+D2	3.22	0.00	0.00	-0.07	-0.17	0.00
G1+G2+0.7Q+0.6V3+0.6D3	3.17	0.00	0.00	-0.05	-0.14	0.00
G1+G2+0.7Q+0.6V3+D3	3.17	0.00	0.00	-0.05	-0.13	0.00
G1+G2+0.7Q+0.6V4+0.6D4	3.34	0.00	0.00	-0.04	-0.20	0.00
G1+G2+0.7Q+0.6V4+D4	3.35	0.00	0.00	-0.04	-0.21	0.00
G1+G2+0.7Q+D1	3.28	0.00	0.00	-0.03	-0.17	0.00
G1+G2+0.7Q+D2	3.24	0.00	0.00	-0.06	-0.17	0.00
G1+G2+0.7Q+D3	3.24	0.00	0.00	-0.04	-0.16	0.00
G1+G2+0.7Q+D4	3.27	0.00	0.00	-0.04	-0.18	0.00
G1+G2+0.7Q+V1+0.6D1	3.30	0.00	0.00	-0.02	-0.17	0.00
G1+G2+0.7Q+V2+0.6D2	3.21	0.00	0.00	-0.07	-0.17	0.00
G1+G2+0.7Q+V3+0.6D3	3.12	0.00	0.00	-0.05	-0.12	0.00
G1+G2+0.7Q+V4+0.6D4	3.39	0.00	0.00	-0.04	-0.22	0.00
G1+G2+D1	2.81	0.00	0.00	0.00	-0.17	0.00
G1+G2+D2	2.76	0.00	0.00	-0.03	-0.17	0.00



Fundação S37						
COMBINAÇÃO:	N (tf)	Mx (kgf.m)	My (kgf.m)	Vx (tf)	Vy (tf)	Mt (kgf/m)
G1+G2+D3	2.77	0.00	0.00	-0.01	-0.16	0.00
G1+G2+D4	2.80	0.00	0.00	-0.01	-0.18	0.00
G1+G2+Q	3.46	0.00	0.00	-0.06	-0.17	0.00
G1+G2+Q+0.6V1+0.6D1	3.49	0.00	0.00	-0.04	-0.17	0.00
G1+G2+Q+0.6V2+0.6D2	3.43	0.00	0.00	-0.07	-0.17	0.00
G1+G2+Q+0.6V3+0.6D3	3.37	0.00	0.00	-0.06	-0.14	0.00
G1+G2+Q+0.6V4+0.6D4	3.55	0.00	0.00	-0.05	-0.20	0.00
G1+G2+Q+D1	3.48	0.00	0.00	-0.04	-0.17	0.00
G1+G2+Q+D2	3.44	0.00	0.00	-0.07	-0.17	0.00
G1+G2+Q+D3	3.44	0.00	0.00	-0.06	-0.16	0.00
G1+G2+Q+D4	3.48	0.00	0.00	-0.06	-0.18	0.00
G1+G2+V1+0.6D1	2.83	0.00	0.00	0.01	-0.17	0.00
G1+G2+V2+0.6D2	2.74	0.00	0.00	-0.04	-0.17	0.00
G1+G2+V3+0.6D3	2.65	0.00	0.00	-0.02	-0.12	0.00
G1+G2+V4+0.6D4	2.92	0.00	0.00	0.00	-0.22	0.00

Legenda:

- Caso: indica o caso de carregamento na qual serão apresentados os esforços atuantes;
- Elemento: nome da fundação;
- N: esforço axial na fundação;
- Mx: momento fletor na base do pilar, atuante no plano paralelo à dimensão H do pilar;
- My: momento fletor na base do pilar, atuante no plano paralelo à dimensão B do pilar;
- Vx: esforço cortante na base do pilar, atuante no plano paralelo à dimensão H do pilar;
- Vy: esforço cortante na base do pilar, atuante no plano paralelo à dimensão B do pilar;
- Mt: momento de torção atuante.



ANEXO B - RELATÓRIO DAS SAPATAS

TERREO $f_{ck} = 250.00 \text{ kgf/cm}^2$
Lance 1

$E = 241500 \text{ kgf/cm}^2$
 $cobr = 4.50 \text{ cm}$

Peso Espec = 2500.00 kgf/m^3

Nome	Dados						Resultados			
	Esforços			Solo			Dimensões (cm)		Armadura	
	MB MH (kgf.m)	FB FH (tf)	Carga Carga total (tf)	Padm	E Solo (kgf/m³) Coesão (kgf/cm²)	Ângulo atrito (graus)	B H	H0 H1	AsB inf AsB sup	AsH inf AsH sup
S1	0.00 0.00	0.28 0.25	4.37 5.46	1.50	1600.00 0.50	30	60.00 75.00	25.00 25.00	6 ø 10.0 c/13 (4.71 cm²)	6 ø 10.0 c/10 (4.71 cm²)
S2	0.00 0.00	0.34 0.17	6.90 8.45	1.50	1600.00 0.50	30	70.00 90.00	25.00 25.00	6 ø 10.0 c/16 (4.71 cm²)	6 ø 10.0 c/12 (4.71 cm²)
S3	0.00 0.00	0.06 0.31	6.39 7.86	1.50	1600.00 0.50	30	70.00 85.00	25.00 25.00	6 ø 10.0 c/15 (4.71 cm²)	6 ø 10.0 c/12 (4.71 cm²)
S4	0.00 0.00	0.06 0.29	5.53 6.92	1.50	1600.00 0.50	30	70.00 80.00	25.00 25.00	6 ø 10.0 c/14 (4.71 cm²)	6 ø 10.0 c/12 (4.71 cm²)
S5	0.00 0.00	0.23 0.28	6.76 8.31	1.50	1600.00 0.50	30	70.00 90.00	25.00 25.00	6 ø 10.0 c/16 (4.71 cm²)	6 ø 10.0 c/12 (4.71 cm²)
S6	0.00 0.00	0.21 0.11	6.32 7.79	1.50	1600.00 0.50	30	70.00 85.00	25.00 25.00	6 ø 10.0 c/15 (4.71 cm²)	6 ø 10.0 c/12 (4.71 cm²)
S7	0.00 0.00	0.08 0.33	4.91 6.11	1.50	1600.00 0.50	30	65.00 75.00	25.00 25.00	6 ø 10.0 c/13 (4.71 cm²)	6 ø 10.0 c/11 (4.71 cm²)
S8	0.00 0.00	0.11 0.35	7.72 9.62	1.50	1600.00 0.50	30	80.00 95.00	25.00 25.00	6 ø 10.0 c/17 (4.71 cm²)	6 ø 10.0 c/14 (4.71 cm²)
S9	0.00 0.00	0.27 0.31	4.91 6.00	1.50	1600.00 0.50	30	60.00 75.00	25.00 25.00	6 ø 10.0 c/13 (4.71 cm²)	6 ø 10.0 c/10 (4.71 cm²)
S10	0.00 0.00	0.23 0.24	6.51 7.98	1.50	1600.00 0.50	30	70.00 85.00	25.00 25.00	6 ø 10.0 c/15 (4.71 cm²)	6 ø 10.0 c/12 (4.71 cm²)
S11	0.00 0.00	0.31 0.33	8.07 10.07	1.50	1600.00 0.50	30	80.00 100.00	25.00 25.00	6 ø 10.0 c/18 (4.71 cm²)	6 ø 10.0 c/14 (4.71 cm²)
S12	0.00 0.00	0.05 0.32	6.32 7.71	1.50	1600.00 0.50	30	70.00 80.00	25.00 25.00	6 ø 10.0 c/14 (4.71 cm²)	6 ø 10.0 c/12 (4.71 cm²)
S13	0.00 0.00	0.04 0.44	6.64 8.19	1.50	1600.00 0.50	30	70.00 90.00	25.00 25.00	6 ø 10.0 c/16 (4.71 cm²)	6 ø 10.0 c/12 (4.71 cm²)
S14	0.00 0.00	0.04 0.28	4.72 5.87	1.50	1600.00 0.50	30	60.00 80.00	25.00 25.00	6 ø 10.0 c/14 (4.71 cm²)	6 ø 10.0 c/10 (4.71 cm²)
S15	0.00 0.00	0.05 0.40	5.46 6.81	1.50	1600.00 0.50	30	65.00 85.00	25.00 25.00	6 ø 10.0 c/15 (4.71 cm²)	6 ø 10.0 c/11 (4.71 cm²)
S16	0.00	0.13	4.08	1.50	1600.00	30	55.00	25.00	6 ø 10.0	6 ø 10.0 c/9



Nome	Dados						Resultados			
	Esforços			Solo			Dimensões (cm)		Armadura	
	MB MH (kgf.m)	FB FH (tf)	Carga Carga total (tf)	Padm	E Solo (kgf/m³) Coesão (kgf/cm²)	Ângulo atrito (graus)	B H	H0 H1	AsB inf AsB sup	AsH inf AsH sup
	0.00	0.09	5.00		0.50		70.00	25.00	c/12 (4.71 cm²)	(4.71 cm²)
S17	0.00 0.00	0.04 0.44	5.83 7.30	1.50	1600.00 0.50	30	70.00 85.00	25.00 25.00	6 ø 10.0 c/15 (4.71 cm²)	6 ø 10.0 c/12 (4.71 cm²)
S18	0.00 0.00	0.09 0.39	8.07 9.98	1.50	1600.00 0.50	30	80.00 95.00	25.00 25.00	6 ø 10.0 c/17 (4.71 cm²)	6 ø 10.0 c/14 (4.71 cm²)
S19	0.00 0.00	0.22 0.13	5.49 6.77	1.50	1600.00 0.50	30	65.00 80.00	25.00 25.00	6 ø 10.0 c/14 (4.71 cm²)	6 ø 10.0 c/11 (4.71 cm²)
S20	0.00 0.00	0.28 0.74	9.11 11.35	1.50	1600.00 0.50	30	85.00 105.00	25.00 25.00	6 ø 10.0 c/19 (4.71 cm²)	6 ø 10.0 c/15 (4.71 cm²)
S21	0.00 0.00	0.04 0.46	9.05 11.29	1.50	1600.00 0.50	30	85.00 105.00	25.00 25.00	6 ø 10.0 c/19 (4.71 cm²)	6 ø 10.0 c/15 (4.71 cm²)
S22	0.00 0.00	0.05 0.40	7.42 9.23	1.50	1600.00 0.50	30	80.00 90.00	25.00 25.00	6 ø 10.0 c/16 (4.71 cm²)	6 ø 10.0 c/14 (4.71 cm²)
S23	0.00 0.00	0.09 0.63	8.65 10.79	1.50	1600.00 0.50	30	85.00 100.00	25.00 25.00	6 ø 10.0 c/18 (4.71 cm²)	6 ø 10.0 c/15 (4.71 cm²)
S24	0.00 0.00	0.04 0.30	6.86 8.54	1.50	1600.00 0.50	30	75.00 90.00	25.00 25.00	6 ø 10.0 c/16 (4.71 cm²)	6 ø 10.0 c/13 (4.71 cm²)
S25	0.00 0.00	0.05 0.28	6.37 7.84	1.50	1600.00 0.50	30	70.00 85.00	25.00 25.00	6 ø 10.0 c/15 (4.71 cm²)	6 ø 10.0 c/12 (4.71 cm²)
S26	0.00 0.00	0.07 0.53	6.64 8.11	1.50	1600.00 0.50	30	70.00 85.00	25.00 25.00	6 ø 10.0 c/15 (4.71 cm²)	6 ø 10.0 c/12 (4.71 cm²)
S27	0.00 0.00	0.15 0.46	9.87 12.26	1.50	1600.00 0.50	30	90.00 105.00	25.00 25.00	6 ø 10.0 c/19 (4.71 cm²)	6 ø 10.0 c/16 (4.71 cm²)
S28	0.00 0.00	0.26 0.45	6.96 8.65	1.50	1600.00 0.50	30	75.00 90.00	25.00 25.00	6 ø 10.0 c/16 (4.71 cm²)	6 ø 10.0 c/13 (4.71 cm²)
S29	0.00 0.00	0.28 0.32	4.60 5.61	1.50	1600.00 0.50	30	60.00 70.00	25.00 25.00	6 ø 10.0 c/12 (4.71 cm²)	6 ø 10.0 c/10 (4.71 cm²)
S30	0.00 0.00	0.04 0.39	5.69 6.95	1.50	1600.00 0.50	30	65.00 80.00	25.00 25.00	6 ø 10.0 c/14 (4.71 cm²)	6 ø 10.0 c/11 (4.71 cm²)
S31	0.00 0.00	0.05 0.34	4.47 5.56	1.50	1600.00 0.50	30	60.00 75.00	25.00 25.00	6 ø 10.0 c/13 (4.71 cm²)	6 ø 10.0 c/10 (4.71 cm²)
S32	0.00 0.00	0.13 0.53	6.61 8.06	1.50	1600.00 0.50	30	70.00 85.00	25.00 25.00	6 ø 10.0 c/15 (4.71 cm²)	6 ø 10.0 c/12 (4.71 cm²)
S33	0.00 0.00	0.11 0.27	5.38 6.57	1.50	1600.00 0.50	30	65.00 75.00	25.00 25.00	6 ø 10.0 c/13 (4.71 cm²)	6 ø 10.0 c/11 (4.71 cm²)



Nome	Dados						Resultados			
	Esforços			Solo			Dimensões (cm)		Armadura	
	MB MH (kgf.m)	FB FH (tf)	Carga Carga total (tf)	Padm	E Solo (kgf/m³) Coesão (kgf/cm²)	Ângulo atrito (graus)	B H	H0 H1	AsB inf AsB sup	AsH inf AsH sup
S34	0.00 0.00	0.10 0.18	4.00 4.97	1.50	1600.00 0.50	30	55.00 75.00	25.00 25.00	6 ø 10.0 c/13 (4.71 cm²)	6 ø 10.0 c/9 (4.71 cm²)
S35	0.00 0.00	0.08 0.40	4.93 6.02	1.50	1600.00 0.50	30	60.00 75.00	25.00 25.00	6 ø 10.0 c/13 (4.71 cm²)	6 ø 10.0 c/10 (4.71 cm²)
S36	0.00 0.00	0.05 0.35	5.75 7.03	1.50	1600.00 0.50	30	65.00 80.00	25.00 25.00	6 ø 10.0 c/14 (4.71 cm²)	6 ø 10.0 c/11 (4.71 cm²)
S37	0.00 0.00	0.22 0.07	3.55 4.41	1.50	1600.00 0.50	30	55.00 65.00	25.00 25.00	6 ø 10.0 c/11 (4.71 cm²)	6 ø 10.0 c/9 (4.71 cm²)



ANEXO C - RELATÓRIO DE CARGAS NAS FUNDAÇÕES INTERNAS

Fundação		Carga (tf)														Carga Máxima (tf)	
Nom e	Seça o (cm)	Peso próprio	Adicional	Solo	Acidental	Água	Vento X+	Vento X-	Vento Y+	Vento Y-	Desaprumo X+	Desaprumo X-	Desaprumo Y+	Desaprumo Y-	Subpressão	Positiva	Negativa
P1	15 x 30	1.82	1.84	0.00	0.61	0.00	-0.08	0.08	0.16	-0.16	-0.05	0.05	0.02	-0.02	0.00	4.37	0.00
P2	15 x 35	2.72	2.86	0.00	1.13	0.00	0.01	-0.01	0.27	-0.27	0.01	-0.01	0.04	-0.04	0.00	6.90	0.00
P3	15 x 30	2.43	2.69	0.00	1.10	0.00	0.04	-0.04	0.24	-0.24	0.02	-0.02	0.03	-0.03	0.00	6.39	0.00
P4	15 x 25	2.05	2.43	0.00	0.87	0.00	-0.02	0.02	0.26	-0.26	-0.01	0.01	0.04	-0.04	0.00	5.53	0.00
P5	15 x 35	3.01	2.21	0.00	1.27	0.00	0.02	-0.02	0.40	-0.40	0.01	-0.01	0.05	-0.05	0.00	6.76	0.00
P6	15 x 30	2.83	2.01	0.00	1.40	0.00	-0.03	0.03	0.11	-0.11	-0.02	0.02	0.02	-0.02	0.00	6.32	0.00
P7	15 x 25	1.85	2.22	0.00	0.65	0.00	0.02	-0.02	0.28	-0.28	0.01	-0.01	0.04	-0.04	0.00	4.91	0.00
P8	15 x 30	2.98	3.12	0.00	1.44	0.00	-0.01	0.01	0.26	-0.26	-0.01	0.01	0.03	-0.03	0.00	7.72	0.00
P9	15 x 30	1.99	2.10	0.00	0.72	0.00	0.04	-0.04	0.13	-0.13	0.02	-0.02	0.02	-0.02	0.00	4.91	0.00
P10	15 x 30	2.74	2.50	0.00	1.19	0.00	-0.08	0.08	0.09	-0.09	-0.05	0.05	0.01	-0.01	0.00	6.51	0.00
P11	15 x 35	3.49	2.36	0.00	2.05	0.00	0.02	-0.02	0.25	-0.25	0.01	-0.01	-0.03	0.03	0.00	8.07	0.00
P12	15 x 25	3.13	1.23	0.00	1.88	0.00	0.03	-0.03	0.11	-0.11	0.02	-0.02	0.02	-0.02	0.00	6.32	0.00
P13	15 x 35	3.35	1.22	0.00	1.91	0.00	-0.02	0.02	0.22	-0.22	-0.01	0.01	0.03	-0.03	0.00	6.64	0.00
P14	15 x 35	2.82	0.07	0.00	1.57	0.00	0.00	0.00	0.39	-0.39	0.00	0.00	-0.05	0.05	0.00	4.72	0.00
P15	15 x 35	2.64	1.26	0.00	1.50	0.00	-0.05	0.05	0.01	-0.01	-0.03	0.03	0.00	0.00	0.00	5.46	0.00
P16	15 x 30	2.56	0.07	0.00	1.43	0.00	0.02	-0.02	0.04	-0.04	0.01	-0.01	0.00	0.00	0.00	4.08	0.00
P17	15 x 30	3.00	1.20	0.00	1.48	0.00	0.06	-0.06	0.22	-0.22	0.03	-0.03	0.03	-0.03	0.00	5.83	0.00
P18	15 x 30	4.07	1.56	0.00	2.35	0.00	-0.01	0.01	0.14	-0.14	-0.01	0.01	0.02	-0.02	0.00	8.07	0.00
P19	15 x 30	2.80	1.47	0.00	1.18	0.00	0.04	-0.04	0.05	-0.05	0.02	-0.02	0.01	-0.01	0.00	5.49	0.00
P20	15 x 35	3.37	4.51	0.00	1.16	0.00	-0.08	0.08	0.07	-0.07	-0.05	0.05	-0.01	0.01	0.00	9.11	0.00
P21	15 x 35	3.64	3.23	0.00	2.16	0.00	0.02	-0.02	0.02	-0.02	0.01	-0.01	0.00	0.00	0.00	9.05	0.00
P22	15 x 25	2.83	2.90	0.00	1.61	0.00	0.03	-0.03	0.12	-0.12	0.02	-0.02	-0.02	0.02	0.00	7.42	0.00
P23	15 x 30	3.70	2.68	0.00	2.14	0.00	0.00	0.00	0.20	-0.20	0.00	0.00	-0.03	0.03	0.00	8.65	0.00
P24	15 x 30	3.60	0.86	0.00	2.19	0.00	0.01	-0.01	0.30	-0.30	0.01	-0.01	0.04	-0.04	0.00	6.86	0.00
P25	15 x 30	3.31	0.94	0.00	1.88	0.00	-0.01	0.01	0.35	-0.35	0.00	0.00	0.05	-0.05	0.00	6.37	0.00
P26	15 x 30	3.11	1.89	0.00	1.57	0.00	-0.01	0.01	0.09	-0.09	-0.01	0.01	-0.01	0.01	0.00	6.64	0.00
P27	15 x 30	4.00	3.38	0.00	2.39	0.00	0.00	0.00	0.15	-0.15	0.00	0.00	-0.02	0.02	0.00	9.87	0.00
P28	15 x 30	2.90	2.67	0.00	1.35	0.00	0.03	-0.03	0.05	-0.05	0.02	-0.02	-0.01	0.01	0.00	6.96	0.00
P29	15 x 30	2.09	1.79	0.00	0.60	0.00	-0.08	0.08	0.17	-0.17	-0.05	0.05	-0.02	0.02	0.00	4.60	0.00
P30	15 x 35	2.94	1.36	0.00	1.36	0.00	0.02	-0.02	0.04	-0.04	0.01	-0.01	-0.01	0.01	0.00	5.69	0.00
P31	15 x 30	2.26	1.04	0.00	0.99	0.00	0.03	-0.03	0.25	-0.25	0.02	-0.02	-0.03	0.03	0.00	4.47	0.00
P32	15 x 35	3.05	2.01	0.00	1.35	0.00	0.01	-0.01	0.28	-0.28	0.00	0.00	-0.04	0.04	0.00	6.61	0.00
P33	15 x 30	2.99	0.89	0.00	1.31	0.00	0.00	0.00	0.27	-0.27	0.00	0.00	-0.04	0.04	0.00	5.38	0.00
P34	15 x 35	2.32	0.48	0.00	0.84	0.00	-0.02	0.02	0.52	-0.52	-0.01	0.01	-0.07	0.07	0.00	4.00	0.00
P35	15 x 30	2.24	1.64	0.00	0.83	0.00	0.02	-0.02	0.32	-0.32	0.01	-0.01	-0.04	0.04	0.00	4.93	0.00
P36	15 x 30	3.00	1.07	0.00	1.49	0.00	-0.01	0.01	0.27	-0.27	0.00	0.00	-0.03	0.03	0.00	5.75	0.00
P37	15 x 25	1.84	0.94	0.00	0.67	0.00	0.03	-0.03	0.13	-0.13	0.02	-0.02	-0.02	0.02	0.00	3.55	0.00
TOTAL:		105.50	68.72	0.00	51.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	225.88	



ANEXO D - RELATÓRIO DE CARGAS NAS FUNDAÇÕES EXTERNAS

Fundação		Carga (tf)														Carga Máxima (tf)	
Nome	Seção (cm)	Peso próprio	Adicional	Solo	Acidental	Água	Vento X+	Vento X-	Vento Y+	Vento Y-	Desaprumo X+	Desaprumo X-	Desaprumo Y+	Desaprumo Y-	Subpressão	Positiva	Negativa
PEX01	15 x 30	1.47	1.78	0.00	0.29	0.00	-0.09	0.09	0.56	-0.56	-0.04	0.04	0.06	-0.06	0.00	4.05	0.00
PEX02	15 x 30	1.72	2.15	0.00	0.47	0.00	0.02	-0.02	0.00	0.00	0.01	-0.01	0.00	0.00	0.00	4.35	0.00
PEX03	15 x 30	1.75	2.21	0.00	0.47	0.00	0.00	0.00	0.02	-0.02	0.00	0.00	0.00	0.00	0.00	4.44	0.00
PEX04	15 x 30	1.74	2.13	0.00	0.45	0.00	0.00	0.00	0.34	-0.34	0.00	0.00	0.03	-0.03	0.00	4.54	0.00
PEX05	15 x 30	1.71	2.17	0.00	0.45	0.00	0.01	-0.01	-0.02	0.02	0.00	0.00	0.00	0.00	0.00	4.35	0.00
PEX06	15 x 30	1.68	2.05	0.00	0.44	0.00	-0.03	0.03	0.15	-0.15	-0.01	0.01	0.02	-0.02	0.00	4.28	0.00
PEX07	15 x 30	1.62	2.00	0.00	0.39	0.00	0.02	-0.02	0.16	-0.16	0.01	-0.01	0.02	-0.02	0.00	4.12	0.00
PEX08	15 x 30	1.64	2.01	0.00	0.44	0.00	-0.04	0.04	-0.01	0.01	-0.02	0.02	0.00	0.00	0.00	4.12	0.00
PEX09	15 x 30	1.33	1.57	0.00	0.20	0.00	0.11	-0.11	0.56	-0.56	0.04	-0.04	0.06	-0.06	0.00	3.64	0.00
PEX10	15 x 30	1.95	2.56	0.00	0.54	0.00	-0.01	0.01	-0.12	0.12	0.00	0.00	-0.01	0.01	0.00	5.13	0.00
PEX11	15 x 30	1.94	2.54	0.00	0.53	0.00	0.01	-0.01	-0.13	0.13	0.00	0.00	-0.01	0.01	0.00	5.09	0.00
PEX12	15 x 30	1.94	2.61	0.00	0.53	0.00	-0.01	0.01	0.11	-0.11	0.00	0.00	0.01	-0.01	0.00	5.16	0.00
PEX13	15 x 30	1.91	2.63	0.00	0.50	0.00	0.01	-0.01	0.12	-0.12	0.00	0.00	0.01	-0.01	0.00	5.11	0.00
PEX14	15 x 30	1.55	1.85	0.00	0.38	0.00	-0.08	0.08	-0.51	0.51	-0.03	0.03	-0.06	0.06	0.00	4.21	0.00
PEX15	15 x 30	1.88	2.16	0.00	0.68	0.00	0.02	-0.02	0.01	-0.01	0.01	-0.01	0.00	0.00	0.00	4.74	0.00
PEX16	15 x 30	2.04	2.20	0.00	0.74	0.00	-0.01	0.01	-0.28	0.28	0.00	0.00	-0.03	0.03	0.00	5.16	0.00
PEX17	15 x 30	1.87	2.14	0.00	0.68	0.00	0.00	0.00	-0.01	0.01	0.00	0.00	0.00	0.00	0.00	4.70	0.00
PEX18	15 x 30	1.89	2.15	0.00	0.68	0.00	0.00	0.00	-0.04	0.04	0.00	0.00	0.00	0.00	0.00	4.74	0.00
PEX19	15 x 30	1.88	1.95	0.00	0.66	0.00	-0.02	0.02	-0.32	0.32	-0.01	0.01	-0.03	0.03	0.00	4.70	0.00
PEX20	15 x 30	1.79	2.01	0.00	0.64	0.00	0.02	-0.02	0.02	-0.02	0.01	-0.01	0.00	0.00	0.00	4.46	0.00
PEX21	15 x 30	1.82	2.05	0.00	0.66	0.00	-0.04	0.04	0.00	0.00	-0.01	0.01	0.00	0.00	0.00	4.57	0.00
PEX22	15 x 30	1.41	1.72	0.00	0.26	0.00	0.10	-0.10	-0.52	0.52	0.04	-0.04	-0.06	0.06	0.00	3.86	0.00
TOTAL:		76.42	92.73	0.00	22.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	191.50	



ANEXO E – QUADRO DE CARGAS DOS PILARES INTERNOS

Pilares	TERREO		COBERTURA	
	NPos (tf)	NNeg	NPos (tf)	NNeg
P1	4.37	0.00	1.94	0.00
P2	6.90	0.00	3.21	0.00
P3	6.39	0.00	2.93	0.00
P4	5.53	0.00	2.37	0.00
P5	6.76	0.00	3.65	0.00
P6	6.32	0.00	3.49	0.00
P7	4.91	0.00	2.04	0.00
P8	7.72	0.00	3.76	0.00
P9	4.91	0.00	2.20	0.00
P10	6.51	0.00	3.26	0.00
P11	8.07	0.00	4.91	0.00
P12	6.32	0.00	4.41	0.00
P13	6.64	0.00	4.58	0.00
P14	4.72	0.00	4.00	0.00
P15	5.46	0.00	3.59	0.00
P16	4.08	0.00	3.30	0.00
P17	5.83	0.00	3.80	0.00
P18	8.07	0.00	5.64	0.00
P19	5.49	0.00	3.24	0.00
P20	9.11	0.00	3.47	0.00
P21	9.05	0.00	5.01	0.00
P22	7.42	0.00	3.72	0.00
P23	8.65	0.00	4.98	0.00
P24	6.86	0.00	5.07	0.00
P25	6.37	0.00	4.58	0.00
P26	6.64	0.00	3.89	0.00
P27	9.87	0.00	5.61	0.00
P28	6.96	0.00	3.52	0.00
P29	4.60	0.00	2.06	0.00
P30	5.69	0.00	3.56	0.00
P31	4.47	0.00	2.72	0.00
P32	6.61	0.00	3.57	0.00
P33	5.38	0.00	3.49	0.00
P34	4.00	0.00	2.62	0.00
P35	4.93	0.00	2.44	0.00
P36	5.75	0.00	3.94	0.00
P37	3.55	0.00	2.03	0.00



ANEXO F – QUADRO DE CARGAS DOS PILARES EXTERNOS

Pilares	TERREO		COBERTURA	
	NPos (tf)	NNeg	NPos (tf)	NNeg
PEX01	4.05	0.00	2.14	0.00
PEX02	4.35	0.00	2.72	0.00
PEX03	4.44	0.00	2.77	0.00
PEX04	4.54	0.00	2.94	0.00
PEX05	4.35	0.00	2.70	0.00
PEX06	4.28	0.00	2.71	0.00
PEX07	4.12	0.00	2.58	0.00
PEX08	4.12	0.00	2.58	0.00
PEX09	3.64	0.00	1.84	0.00
PEX10	5.13	0.00	3.12	0.00
PEX11	5.09	0.00	3.08	0.00
PEX12	5.16	0.00	3.13	0.00
PEX13	5.11	0.00	3.09	0.00
PEX14	4.21	0.00	2.35	0.00
PEX15	4.74	0.00	3.11	0.00
PEX16	5.16	0.00	3.48	0.00
PEX17	4.70	0.00	3.07	0.00
PEX18	4.74	0.00	3.12	0.00
PEX19	4.70	0.00	3.18	0.00
PEX20	4.46	0.00	2.91	0.00
PEX21	4.57	0.00	3.02	0.00
PEX22	3.86	0.00	2.05	0.00



ANEXO G – RESUMO DO AÇO

Aço	Diâmetro	Peso + 10 % (kg)						
		Vigas	Pilares	Lajes	Pré-moldados	Escadas	Fundações	Total
CA50	8.0	627.1						627.1
CA50	10.0	268.1	346.0		255.6			869.6
CA50	12.5	41.1	20.8		160.1			222.0
CA60	5.0		140.4					140.4

		Vigas	Pilares	Lajes	Pré-moldados	Escadas	Fundações	Total
Peso total + 10% (kg)	CA50	936.3	366.7		415.7			1718.8
	CA60		140.4					140.4
	Total	936.3	507.1		415.7			1859.1
Volume concreto (m³)	C-25	9.5	5.6	11.5				
Área de forma (m²)		156.0	111.9					267.9
Consumo de aço (kgf/m³)		99.0	89.9	0.0				69.8