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CONSULTORIA ESPECIALIZADA NO APOIO TÉCNICO, ELABORAÇÃO DE PROJETOS E GERENCIAMENTO DE OBRAS E SERVIÇOS DE ENGENHARIA NO MUNICÍPIO DE MACEIÓ/AL

IMPLANTAÇÕES DO PÓRTICO VELEIRO PROJETO EXECUTIVO DE ESTRUTURAS MÉTALICAS

CONTRATO Nº 062/2023

SETEMBRO/2023

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**PREFEITURA DE MACEIÓ/AL**

João Henrique Holanda Caldas
Prefeito

SEMINFRA - SECRETARIA MUNICIPAL DE INFRAESTRUTURA

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1. APRESENTAÇÃO

A RK ENGENHARIA, apresenta à Secretaria Municipal de Infraestrutura - SEMINFRA da Prefeitura de Maceió/AL, a PROJETO EXECUTIVO DE ESTRUTURAS METÁLICAS DO PÓRTICO VELEIRO, produto previsto no Escopo de Serviços Objeto do **Contrato Nº 062/2023** celebrado entre a **Secretaria Municipal de Infraestrutura - SEMINFRA** do Município de Maceió/AL e a RK ENGENHARIA para “Prestação de Serviços de Consultoria Especializada no Apoio Técnico, Elaboração de Projetos e Gerenciamento de Obras e Serviços de Engenharia no Município de Maceió/AL.”



2. NORMAS EM USO

Na análise, dimensionamento e detalhamento dos elementos estruturais desta edificação foram utilizadas as prescrições indicadas pelas seguintes normas:

- NBR6118:2014 - Projeto de estruturas de concreto - Procedimentos;
- NBR6120:2019 - Cargas para o cálculo de estruturas de edificações - Procedimentos;
- NBR8681:2003 - Ações e segurança nas estruturas – Procedimentos.
- NBR 6120 – Cargas para o Cálculo de estruturas de edificações;
- NBR 8800 – Projeto e Execução de Estruturas de Aço e de Estruturas Mistas aço-concreto de Edifícios;
- NBR 14762 – Dimensionamento de estruturas de aço constituídas por perfis formados a frio;
- American Welding Society, Structural Welding Code ANSI/AWS D1.1/AWS C1.1



3. ESTRUTURA

3.1. Resultados

3.1.1. Barras

3.1.1.1. Resistência

Referências:

- N: Esforço axial (t)
- Vy: Esforço cortante segundo o eixo local Y da barra. (t)
- Vz: Esforço cortante segundo o eixo local Z da barra. (t)
- Mt: Momento torsor (t·m)
- My: Momento fletor no plano 'XZ' (rotação da seção em relação ao eixo local 'Y' da barra). (t·m)
- Mz: Momento fletor no plano 'XY' (rotação da seção em relação ao eixo local 'Z' da barra). (t·m)

Os esforços indicados são os correspondentes à combinação desfavorável, ou seja, aquela que solicita a máxima resistência da seção.

Origem dos esforços desfavoráveis:

- G: Verticais
- GV: Verticais + vento
- GSis: Verticais + sismo
- GVSis: Verticais + vento + sismo

η : Aproveitamento da resistência. A barra cumpre as condições de resistência da Norma se cumprir que $\eta \leq 100 \%$.

Verificação de resistência										
Barra	η (%)	Posição (m)	Esforços desfavoráveis						Origem	Estado
			N (t)	Vy (t)	Vz (t)	Mt (t·m)	My (t·m)	Mz (t·m)		
N1/N7	34.99	0.000	-1.801	-0.083	0.197	0.000	0.102	-0.027	G	Passa
N7/N8	7.54	0.000	0.292	-0.001	-0.143	0.000	-0.043	0.000	GV	Passa
N8/N9	3.10	0.463	-0.177	0.000	0.053	0.000	-0.017	0.001	G	Passa
N9/N10	3.18	0.463	0.240	0.001	0.047	0.000	-0.016	0.001	G	Passa
N10/N11	2.44	0.463	0.422	0.003	0.019	0.000	-0.010	0.001	G	Passa
N11/N12	2.66	0.463	0.546	0.003	0.018	0.000	-0.009	0.001	G	Passa
N12/N13	2.46	0.231	0.522	0.003	0.010	0.000	-0.006	0.001	G	Passa
N13/N14	2.70	0.231	0.478	0.003	0.013	0.000	-0.009	0.001	G	Passa

Verificação de resistência										
Barra	η (%)	Posição (m)	Esforços desfavoráveis						Origem	Estado
			N (t)	V _y (t)	V _z (t)	M _t (t·m)	M _y (t·m)	M _z (t·m)		
N14/N15	3.17	0.000	0.328	0.001	0.007	0.000	-0.013	0.002	G	Passa
N15/N3	3.25	0.000	0.183	0.003	-0.003	0.000	-0.017	0.001	G	Passa
N3/N16	3.25	0.463	0.183	-0.003	0.003	0.000	-0.017	0.001	G	Passa
N16/N17	3.17	0.463	0.328	-0.001	-0.007	0.000	-0.013	0.002	G	Passa
N17/N18	2.70	0.231	0.478	-0.003	-0.013	0.000	-0.009	0.001	G	Passa
N18/N19	2.46	0.231	0.522	-0.003	-0.010	0.000	-0.006	0.001	G	Passa
N19/N20	2.66	0.000	0.546	-0.003	-0.018	0.000	-0.009	0.001	G	Passa
N20/N21	2.44	0.000	0.422	-0.003	-0.019	0.000	-0.010	0.001	G	Passa
N21/N22	3.18	0.000	0.240	-0.001	-0.047	0.000	-0.016	0.001	G	Passa
N22/N23	3.10	0.000	-0.177	0.000	-0.053	0.000	-0.017	0.001	G	Passa
N23/N24	7.54	0.463	0.292	0.001	0.143	0.000	-0.043	0.000	GV	Passa
N24/N2	34.99	0.463	-1.801	0.083	-0.197	0.000	0.102	-0.027	G	Passa
N3/N4	0.28	0.700	0.034	0.000	0.006	0.000	-0.004	0.000	G	Passa
N2/N5	25.20	0.000	-0.055	0.160	0.026	0.000	-0.039	0.034	G	Passa
N1/N6	25.20	0.000	-0.055	0.160	-0.026	0.000	0.039	0.034	G	Passa
N6/N34	7.46	0.465	0.164	-0.019	0.096	0.000	-0.043	0.004	G	Passa
N34/N35	6.47	0.465	-1.089	0.003	0.044	0.000	-0.026	-0.002	G	Passa
N35/N36	9.84	0.000	-2.107	0.004	0.055	0.000	0.018	0.000	G	Passa
N36/N37	12.47	0.000	-2.672	0.003	0.066	0.000	0.018	-0.001	G	Passa
N37/N38	14.41	0.000	-3.088	0.000	0.023	0.000	0.008	-0.002	G	Passa
N38/N39	15.26	0.000	-3.270	0.001	0.032	0.000	0.009	-0.001	G	Passa
N39/N40	15.84	0.000	-3.393	-0.002	0.007	0.000	0.002	-0.002	G	Passa
N40/N41	15.72	0.000	-3.369	0.000	0.014	0.000	0.002	-0.001	G	Passa
N41/N42	15.52	0.000	-3.324	-0.002	-0.049	0.000	-0.005	-0.002	G	Passa
N42/N4	14.81	0.000	-3.172	-0.006	-0.048	0.000	0.016	-0.002	G	Passa
N5/N33	7.46	0.465	0.164	-0.019	-0.096	0.000	0.043	0.004	G	Passa
N33/N32	6.47	0.465	-1.089	0.003	-0.044	0.000	0.026	-0.002	G	Passa
N32/N31	9.84	0.000	-2.107	0.004	-0.055	0.000	-0.018	0.000	G	Passa
N31/N30	12.47	0.000	-2.672	0.003	-0.066	0.000	-0.018	-0.001	G	Passa
N30/N29	14.41	0.000	-3.088	0.000	-0.023	0.000	-0.008	-0.002	G	Passa
N29/N28	15.26	0.000	-3.270	0.001	-0.032	0.000	-0.009	-0.001	G	Passa
N28/N27	15.84	0.000	-3.393	-0.002	-0.007	0.000	-0.002	-0.002	G	Passa
N27/N26	15.72	0.000	-3.369	0.000	-0.014	0.000	-0.002	-0.001	G	Passa
N26/N25	15.52	0.000	-3.324	-0.002	0.049	0.000	0.005	-0.002	G	Passa
N25/N4	14.81	0.000	-3.172	-0.006	0.048	0.000	-0.016	-0.002	G	Passa
N1/N34	19.67	0.000	-1.445	0.059	-0.031	0.000	0.027	0.022	G	Passa
N7/N34	8.79	0.000	0.649	0.047	0.021	0.000	0.026	0.007	G	Passa
N7/N35	9.97	0.569	-1.240	-0.008	-0.020	0.000	0.055	0.001	G	Passa
N8/N35	4.30	0.000	-0.182	-0.001	-0.111	0.000	-0.024	0.000	GV	Passa
N8/N36	7.25	0.000	-0.728	0.001	0.016	0.000	0.042	-0.001	G	Passa
N9/N36	3.75	0.000	-0.174	0.001	-0.005	0.000	-0.019	0.000	GV	Passa
N9/N37	5.58	0.157	-0.567	-0.001	0.000	0.000	0.030	-0.001	G	Passa

Verificação de resistência										
Barra	η (%)	Posição (m)	Esforços desfavoráveis						Origem	Estado
			N (t)	Vy (t)	Vz (t)	Mt (t·m)	My (t·m)	Mz (t·m)		
N10/N37	2.74	0.000	0.193	-0.004	0.038	0.000	0.015	-0.001	G	Passa
N10/N38	3.86	0.000	-0.266	0.001	0.009	0.000	0.022	-0.001	G	Passa
N11/N38	2.20	0.470	0.158	-0.005	0.000	0.000	0.010	0.001	G	Passa
N11/N39	2.66	0.173	-0.194	0.000	-0.001	0.000	0.014	-0.001	G	Passa
N12/N39	1.68	0.000	-0.017	-0.005	0.014	0.000	0.007	-0.001	G	Passa
N12/N40	1.49	0.000	0.028	0.002	0.006	0.000	0.009	-0.001	G	Passa
N13/N40	1.42	0.562	-0.034	-0.005	-0.002	0.000	0.004	0.002	G	Passa
N13/N41	0.80	0.382	0.063	0.000	0.000	0.000	0.003	-0.001	G	Passa
N14/N41	2.03	0.608	-0.188	-0.005	0.006	0.000	-0.005	0.002	G	Passa
N14/N42	1.09	0.801	0.255	-0.003	0.001	0.000	-0.002	0.000	G	Passa
N15/N42	1.88	0.654	-0.196	-0.006	0.000	0.000	-0.002	0.002	G	Passa
N15/N4	1.62	0.839	0.258	-0.004	-0.010	0.000	0.007	0.001	G	Passa
N16/N4	1.62	0.839	0.258	-0.004	0.010	0.000	-0.007	0.001	G	Passa
N16/N25	1.88	0.654	-0.196	-0.006	0.000	0.000	0.002	0.002	G	Passa
N17/N25	1.09	0.801	0.255	-0.003	-0.001	0.000	0.002	0.000	G	Passa
N17/N26	2.03	0.608	-0.188	-0.005	-0.006	0.000	0.005	0.002	G	Passa
N18/N26	0.80	0.382	0.063	0.000	0.000	0.000	-0.003	-0.001	G	Passa
N18/N27	1.42	0.562	-0.034	-0.005	0.002	0.000	-0.004	0.002	G	Passa
N19/N27	1.49	0.000	0.028	0.002	-0.006	0.000	-0.009	-0.001	G	Passa
N19/N28	1.68	0.000	-0.017	-0.005	-0.014	0.000	-0.007	-0.001	G	Passa
N20/N28	2.66	0.173	-0.194	0.000	0.001	0.000	-0.014	-0.001	G	Passa
N20/N29	2.20	0.470	0.158	-0.005	0.000	0.000	-0.010	0.001	G	Passa
N21/N29	3.86	0.000	-0.266	0.001	-0.009	0.000	-0.022	-0.001	G	Passa
N21/N30	2.74	0.000	0.193	-0.004	-0.038	0.000	-0.015	-0.001	G	Passa
N22/N30	5.58	0.157	-0.567	-0.001	0.000	0.000	-0.030	-0.001	G	Passa
N22/N31	3.75	0.000	-0.174	0.001	0.005	0.000	0.019	0.000	GV	Passa
N23/N31	7.25	0.000	-0.728	0.001	-0.016	0.000	-0.042	-0.001	G	Passa
N23/N32	4.30	0.000	-0.182	-0.001	0.111	0.000	0.024	0.000	GV	Passa
N24/N32	9.97	0.569	-1.240	-0.008	0.020	0.000	-0.055	0.001	G	Passa
N24/N33	8.79	0.000	0.649	0.047	-0.021	0.000	-0.026	0.007	G	Passa
N2/N33	19.67	0.000	-1.445	0.059	0.031	0.000	-0.027	0.022	G	Passa
N85/N86	44.89	0.000	-3.688	-0.167	-0.063	0.000	-0.032	-0.055	G	Passa
N86/N89	7.05	0.000	-1.512	-0.004	-0.049	0.000	-0.010	0.002	G	Passa
N89/N90	3.29	0.463	-0.365	-0.004	-0.008	0.000	0.007	0.003	G	Passa
N90/N91	3.34	0.463	0.506	-0.002	-0.009	0.000	0.004	0.003	G	Passa
N91/N92	3.70	0.000	0.865	-0.001	-0.001	0.000	0.001	0.002	G	Passa
N92/N93	4.83	0.000	1.130	-0.002	-0.001	0.000	0.000	0.002	G	Passa
N93/N94	4.54	0.000	1.063	0.003	0.000	0.000	0.000	0.003	G	Passa
N94/N95	4.19	0.000	0.980	0.003	-0.002	0.000	0.000	0.003	G	Passa
N95/N96	3.68	0.000	0.657	0.005	-0.003	0.000	0.002	0.003	G	Passa
N96/N87	3.04	0.000	0.366	0.009	0.001	0.000	0.004	0.003	G	Passa
N87/N88	3.04	0.463	0.366	-0.009	-0.001	0.000	0.004	0.003	G	Passa

Verificação de resistência										
Barra	η (%)	Posição (m)	Esforços desfavoráveis						Origem	Estado
			N (t)	Vy (t)	Vz (t)	Mt (t·m)	My (t·m)	Mz (t·m)		
N88/N97	3.68	0.463	0.657	-0.005	0.003	0.000	0.002	0.003	G	Passa
N97/N98	4.19	0.000	0.980	-0.008	0.002	0.000	0.001	0.000	G	Passa
N98/N99	4.54	0.000	1.063	-0.008	0.000	0.000	0.000	0.001	G	Passa
N99/N100	4.83	0.000	1.130	-0.004	0.001	0.000	0.001	0.002	G	Passa
N100/N101	3.70	0.000	0.865	-0.004	0.001	0.000	0.002	0.002	G	Passa
N101/N102	3.34	0.000	0.506	0.002	0.009	0.000	0.004	0.003	G	Passa
N102/N103	3.29	0.000	-0.365	0.004	0.008	0.000	0.007	0.003	G	Passa
N103/N104	7.05	0.000	-1.512	-0.001	0.049	0.000	0.013	0.002	G	Passa
N104/N105	44.89	0.463	-3.688	0.167	0.063	0.000	-0.032	-0.055	G	Passa
N87/N106	0.15	0.700	0.045	0.000	-0.003	0.000	0.002	0.000	G	Passa
N105/N107	43.42	0.000	-0.104	0.334	-0.073	0.000	-0.005	0.072	G	Passa
N85/N108	43.42	0.000	-0.104	0.334	0.073	0.000	0.005	0.072	G	Passa
N108/N109	6.47	0.465	0.337	-0.037	-0.024	0.000	0.012	0.007	G	Passa
N109/N110	10.26	0.000	-2.197	0.013	0.008	0.000	0.003	0.002	G	Passa
N110/N111	21.99	0.000	-4.290	0.004	-0.029	0.000	-0.014	-0.001	G	Passa
N111/N112	27.12	0.465	-5.437	-0.002	-0.032	0.000	0.006	-0.002	G	Passa
N112/N113	31.42	0.000	-6.307	-0.004	-0.001	0.000	0.000	-0.004	G	Passa
N113/N114	32.71	0.000	-6.666	-0.001	-0.005	0.000	-0.001	-0.003	G	Passa
N114/N115	34.64	0.000	-6.932	-0.008	-0.005	0.000	0.000	-0.004	G	Passa
N115/N116	33.92	0.000	-6.864	-0.004	-0.007	0.000	0.002	-0.003	G	Passa
N116/N117	34.57	0.000	-6.782	-0.008	0.024	0.000	0.006	-0.004	G	Passa
N117/N106	33.91	0.465	-6.454	-0.021	0.025	0.000	-0.015	0.004	G	Passa
N107/N126	6.47	0.465	0.337	-0.037	0.024	0.000	-0.012	0.007	G	Passa
N126/N125	10.26	0.000	-2.197	0.013	-0.008	0.000	-0.003	0.002	G	Passa
N125/N124	21.99	0.000	-4.290	0.004	0.029	0.000	0.014	-0.001	G	Passa
N124/N123	27.12	0.465	-5.437	-0.002	0.032	0.000	-0.006	-0.002	G	Passa
N123/N122	31.42	0.000	-6.307	-0.004	0.001	0.000	0.000	-0.004	G	Passa
N122/N121	32.71	0.000	-6.666	-0.001	0.005	0.000	0.001	-0.003	G	Passa
N121/N120	34.64	0.000	-6.932	-0.008	0.005	0.000	0.000	-0.004	G	Passa
N120/N119	33.92	0.000	-6.864	-0.004	0.007	0.000	-0.002	-0.003	G	Passa
N119/N118	34.57	0.000	-6.782	-0.008	-0.024	0.000	-0.006	-0.004	G	Passa
N118/N106	33.91	0.465	-6.454	-0.021	-0.025	0.000	0.015	0.004	G	Passa
N85/N109	34.41	0.000	-2.920	0.118	0.032	0.000	0.006	0.045	G	Passa
N86/N109	12.39	0.000	1.326	0.095	0.000	0.000	-0.005	0.015	G	Passa
N86/N110	12.47	0.000	-2.556	-0.009	0.015	0.000	-0.009	-0.005	G	Passa
N89/N110	4.05	0.332	0.947	0.002	-0.045	0.000	0.007	0.000	G	Passa
N89/N111	7.30	0.000	-1.477	-0.002	-0.005	0.000	-0.013	-0.002	G	Passa
N90/N111	3.45	0.378	0.808	-0.003	-0.002	0.000	-0.005	0.000	G	Passa
N90/N112	5.95	0.000	-1.184	-0.001	-0.002	0.000	-0.009	-0.002	G	Passa
N91/N112	2.30	0.000	0.372	-0.008	-0.011	0.000	-0.003	-0.002	G	Passa
N91/N113	3.37	0.000	-0.523	-0.001	-0.003	0.000	-0.005	-0.002	G	Passa
N92/N113	2.30	0.000	0.314	-0.010	0.000	0.000	-0.001	-0.002	G	Passa

Verificação de resistência										
Barra	η (%)	Posição (m)	Esforços desfavoráveis						Origem	Estado
			N (t)	Vy (t)	Vz (t)	Mt (t·m)	My (t·m)	Mz (t·m)		
N92/N114	2.41	0.000	-0.414	0.001	0.000	0.000	-0.002	-0.002	G	Passa
N93/N114	2.01	0.000	-0.065	-0.011	-0.003	0.000	-0.001	-0.003	G	Passa
N93/N115	1.37	0.000	-0.113	0.004	0.001	0.000	0.001	0.002	GV	Passa
N94/N115	2.10	0.562	-0.077	-0.011	0.000	0.000	0.000	0.003	G	Passa
N94/N116	1.11	0.382	0.118	0.000	-0.002	0.000	0.001	-0.001	G	Passa
N95/N116	3.27	0.000	-0.433	-0.011	0.001	0.000	0.002	-0.003	G	Passa
N95/N117	2.32	0.801	0.543	-0.002	0.000	0.000	0.002	-0.001	G	Passa
N96/N117	3.68	0.654	-0.410	-0.012	0.000	0.000	0.001	0.004	G	Passa
N96/N106	2.19	0.839	0.512	-0.005	0.004	0.000	-0.002	0.001	G	Passa
N88/N106	2.19	0.839	0.512	-0.005	-0.004	0.000	0.002	0.001	G	Passa
N88/N118	3.68	0.654	-0.410	-0.012	0.000	0.000	-0.001	0.004	G	Passa
N97/N118	2.32	0.801	0.543	-0.002	0.000	0.000	-0.002	-0.001	G	Passa
N97/N119	3.27	0.000	-0.433	-0.011	-0.001	0.000	-0.002	-0.003	G	Passa
N98/N119	1.11	0.382	0.118	0.000	0.002	0.000	-0.001	-0.001	G	Passa
N98/N120	2.10	0.562	-0.077	-0.011	0.000	0.000	0.000	0.003	G	Passa
N99/N120	1.37	0.000	-0.113	0.004	-0.001	0.000	-0.001	0.002	GV	Passa
N99/N121	2.01	0.000	-0.065	-0.011	0.003	0.000	0.001	-0.003	G	Passa
N100/N121	2.41	0.000	-0.414	0.001	0.000	0.000	0.002	-0.002	G	Passa
N100/N122	2.30	0.000	0.314	-0.010	0.000	0.000	0.001	-0.002	G	Passa
N101/N122	3.37	0.000	-0.523	-0.001	0.003	0.000	0.005	-0.002	G	Passa
N101/N123	2.30	0.000	0.372	-0.008	0.011	0.000	0.003	-0.002	G	Passa
N102/N123	5.95	0.000	-1.184	-0.001	0.002	0.000	0.009	-0.002	G	Passa
N102/N124	3.45	0.378	0.808	-0.003	0.002	0.000	0.005	0.000	G	Passa
N103/N124	7.30	0.000	-1.477	-0.002	0.005	0.000	0.013	-0.002	G	Passa
N103/N125	4.05	0.332	0.947	0.002	0.045	0.000	-0.007	0.000	G	Passa
N104/N125	12.47	0.000	-2.556	-0.009	-0.015	0.000	0.009	-0.005	G	Passa
N104/N126	12.39	0.000	1.326	0.095	0.000	0.000	0.005	0.015	G	Passa
N105/N126	34.41	0.000	-2.920	0.118	-0.032	0.000	-0.006	0.045	G	Passa
N253/N254	36.30	0.000	-3.257	-0.148	0.000	0.000	0.000	-0.048	G	Passa
N254/N257	6.21	0.000	-1.332	-0.004	0.000	0.000	0.000	0.001	G	Passa
N257/N258	2.17	0.463	-0.320	-0.003	0.000	0.000	0.000	0.002	G	Passa
N258/N259	2.48	0.463	0.446	-0.001	0.000	0.000	0.000	0.003	G	Passa
N259/N260	3.26	0.000	0.763	-0.001	0.000	0.000	0.000	0.002	G	Passa
N260/N261	4.25	0.000	0.995	-0.002	0.000	0.000	0.000	0.002	G	Passa
N261/N262	4.01	0.000	0.938	0.002	0.000	0.000	0.000	0.003	G	Passa
N262/N263	3.69	0.000	0.864	0.002	0.000	0.000	0.000	0.003	G	Passa
N263/N264	3.04	0.000	0.580	0.004	0.000	0.000	0.000	0.003	G	Passa
N264/N255	2.23	0.000	0.323	0.008	0.000	0.000	0.000	0.003	G	Passa
N255/N256	2.23	0.463	0.323	-0.008	0.000	0.000	0.000	0.003	G	Passa
N256/N265	3.04	0.463	0.580	-0.004	0.000	0.000	0.000	0.003	G	Passa
N265/N266	3.69	0.000	0.864	-0.008	0.000	0.000	0.000	0.000	G	Passa
N266/N267	4.01	0.000	0.938	-0.008	0.000	0.000	0.000	0.001	G	Passa

Verificação de resistência										
Barra	η (%)	Posição (m)	Esforços desfavoráveis						Origem	Estado
			N (t)	Vy (t)	Vz (t)	Mt (t·m)	My (t·m)	Mz (t·m)		
N267/N268	4.25	0.000	0.995	-0.004	0.000	0.000	0.000	0.001	G	Passa
N268/N269	3.26	0.000	0.763	-0.004	0.000	0.000	0.000	0.001	G	Passa
N269/N270	2.48	0.000	0.446	0.001	0.000	0.000	0.000	0.003	G	Passa
N270/N271	2.17	0.000	-0.320	0.003	0.000	0.000	0.000	0.002	G	Passa
N271/N272	6.21	0.000	-1.332	-0.001	0.000	0.000	0.000	0.002	G	Passa
N272/N273	36.30	0.463	-3.257	0.148	0.000	0.000	0.000	-0.048	G	Passa
N255/N274	0.09	0.700	0.043	0.000	0.000	0.000	0.000	0.000	G	Passa
N273/N275	38.14	0.000	-0.100	0.293	0.018	0.000	0.004	0.063	G	Passa
N253/N276	38.14	0.000	-0.100	0.293	-0.018	0.000	-0.004	0.063	G	Passa
N276/N277	5.02	0.000	0.296	-0.027	0.001	0.000	0.000	-0.007	G	Passa
N277/N278	9.11	0.000	-1.952	0.012	0.000	0.000	0.000	0.001	G	Passa
N278/N279	17.76	0.000	-3.804	0.004	0.000	0.000	0.000	-0.001	G	Passa
N279/N280	23.51	0.232	-4.816	0.001	0.000	0.000	0.000	-0.002	G	Passa
N280/N281	27.77	0.000	-5.581	-0.003	0.000	0.000	0.000	-0.003	G	Passa
N281/N282	28.85	0.000	-5.898	-0.001	0.000	0.000	0.000	-0.002	G	Passa
N282/N283	30.60	0.000	-6.130	-0.006	0.001	0.000	0.000	-0.004	G	Passa
N283/N284	29.81	0.000	-6.072	-0.003	0.001	0.000	0.000	-0.003	G	Passa
N284/N285	30.06	0.000	-5.997	-0.007	-0.003	0.000	-0.001	-0.004	G	Passa
N285/N274	28.77	0.465	-5.710	-0.019	-0.003	0.000	0.001	0.004	G	Passa
N275/N294	5.02	0.000	0.296	-0.027	-0.001	0.000	0.000	-0.007	G	Passa
N294/N293	9.11	0.000	-1.952	0.012	0.000	0.000	0.000	0.001	G	Passa
N293/N292	17.76	0.000	-3.804	0.004	0.000	0.000	0.000	-0.001	G	Passa
N292/N291	23.51	0.232	-4.816	0.001	0.000	0.000	0.000	-0.002	G	Passa
N291/N290	27.77	0.000	-5.581	-0.003	0.000	0.000	0.000	-0.003	G	Passa
N290/N289	28.85	0.000	-5.898	-0.001	0.000	0.000	0.000	-0.002	G	Passa
N289/N288	30.60	0.000	-6.130	-0.006	-0.001	0.000	0.000	-0.004	G	Passa
N288/N287	29.81	0.000	-6.072	-0.003	-0.001	0.000	0.000	-0.003	G	Passa
N287/N286	30.06	0.000	-5.997	-0.007	0.003	0.000	0.001	-0.004	G	Passa
N286/N274	28.77	0.465	-5.710	-0.019	0.003	0.000	-0.001	0.004	G	Passa
N253/N277	29.74	0.000	-2.591	0.104	-0.001	0.000	0.000	0.039	G	Passa
N254/N277	10.45	0.000	1.174	0.084	0.000	0.000	0.000	0.013	G	Passa
N254/N278	11.03	0.000	-2.261	-0.007	0.000	0.000	0.000	-0.004	G	Passa
N257/N278	3.58	0.332	0.838	0.002	0.000	0.000	0.000	0.000	G	Passa
N257/N279	6.44	0.000	-1.303	-0.001	0.000	0.000	0.000	-0.002	G	Passa
N258/N279	3.04	0.378	0.712	-0.002	0.000	0.000	0.000	0.000	G	Passa
N258/N280	5.23	0.000	-1.042	-0.001	0.000	0.000	0.000	-0.002	G	Passa
N259/N280	1.68	0.000	0.330	-0.007	0.000	0.000	0.000	-0.002	G	Passa
N259/N281	2.47	0.000	-0.462	-0.001	0.000	0.000	0.000	-0.002	G	Passa
N260/N281	1.87	0.470	0.282	-0.009	0.000	0.000	0.000	0.002	G	Passa
N260/N282	1.91	0.173	-0.361	0.000	0.000	0.000	0.000	-0.002	G	Passa
N261/N282	1.65	0.000	-0.054	-0.010	0.000	0.000	0.000	-0.003	G	Passa
N261/N283	1.04	0.000	-0.101	0.004	0.000	0.000	0.000	0.001	GV	Passa

Verificação de resistência										
Barra	η (%)	Posição (m)	Esforços desfavoráveis						Origem	Estado
			N (t)	Vy (t)	Vz (t)	Mt (t·m)	My (t·m)	Mz (t·m)		
N262/N283	1.85	0.562	-0.068	-0.010	0.000	0.000	0.000	0.003	G	Passa
N262/N284	0.94	0.382	0.106	0.000	0.000	0.000	0.000	-0.001	G	Passa
N263/N284	2.69	0.000	-0.378	-0.010	0.000	0.000	0.000	-0.003	G	Passa
N263/N285	2.04	0.801	0.477	-0.002	0.000	0.000	0.000	-0.001	G	Passa
N264/N285	3.11	0.654	-0.361	-0.011	0.000	0.000	0.000	0.004	G	Passa
N264/N274	1.94	0.839	0.454	-0.005	0.000	0.000	0.000	0.001	G	Passa
N256/N274	1.94	0.839	0.454	-0.005	0.000	0.000	0.000	0.001	G	Passa
N256/N286	3.11	0.654	-0.361	-0.011	0.000	0.000	0.000	0.004	G	Passa
N265/N286	2.04	0.801	0.477	-0.002	0.000	0.000	0.000	-0.001	G	Passa
N265/N287	2.69	0.000	-0.378	-0.010	0.000	0.000	0.000	-0.003	G	Passa
N266/N287	0.94	0.382	0.106	0.000	0.000	0.000	0.000	-0.001	G	Passa
N266/N288	1.85	0.562	-0.068	-0.010	0.000	0.000	0.000	0.003	G	Passa
N267/N288	1.04	0.000	-0.101	0.004	0.000	0.000	0.000	0.001	GV	Passa
N267/N289	1.65	0.000	-0.054	-0.010	0.000	0.000	0.000	-0.003	G	Passa
N268/N289	1.91	0.173	-0.361	0.000	0.000	0.000	0.000	-0.002	G	Passa
N268/N290	1.87	0.470	0.282	-0.009	0.000	0.000	0.000	0.002	G	Passa
N269/N290	2.47	0.000	-0.462	-0.001	0.000	0.000	0.000	-0.002	G	Passa
N269/N291	1.68	0.000	0.330	-0.007	0.000	0.000	0.000	-0.002	G	Passa
N270/N291	5.23	0.000	-1.042	-0.001	0.000	0.000	0.000	-0.002	G	Passa
N270/N292	3.04	0.378	0.712	-0.002	0.000	0.000	0.000	0.000	G	Passa
N271/N292	6.44	0.000	-1.303	-0.001	0.000	0.000	0.000	-0.002	G	Passa
N271/N293	3.58	0.332	0.838	0.002	0.000	0.000	0.000	0.000	G	Passa
N272/N293	11.03	0.000	-2.261	-0.007	0.000	0.000	0.000	-0.004	G	Passa
N272/N294	10.45	0.000	1.174	0.084	0.000	0.000	0.000	0.013	G	Passa
N273/N294	29.74	0.000	-2.591	0.104	0.001	0.000	0.000	0.039	G	Passa
N295/N296	36.51	0.000	-3.259	-0.148	0.004	0.000	0.002	-0.048	G	Passa
N296/N299	6.21	0.000	-1.332	-0.004	0.002	0.000	0.000	0.001	G	Passa
N299/N300	2.25	0.463	-0.319	-0.003	0.000	0.000	-0.001	0.002	G	Passa
N300/N301	2.50	0.463	0.447	-0.001	0.000	0.000	0.000	0.003	G	Passa
N301/N302	3.27	0.000	0.764	-0.001	-0.001	0.000	0.000	0.002	G	Passa
N302/N303	4.26	0.000	0.996	-0.002	0.000	0.000	0.000	0.002	G	Passa
N303/N304	4.01	0.000	0.938	0.002	0.000	0.000	0.000	0.003	G	Passa
N304/N305	3.69	0.000	0.864	0.002	0.000	0.000	0.000	0.003	G	Passa
N305/N306	3.04	0.000	0.580	0.004	0.000	0.000	0.000	0.003	G	Passa
N306/N297	2.23	0.000	0.322	0.008	0.000	0.000	0.000	0.003	G	Passa
N297/N298	2.23	0.463	0.322	-0.008	0.000	0.000	0.000	0.003	G	Passa
N298/N307	3.04	0.463	0.580	-0.004	0.000	0.000	0.000	0.003	G	Passa
N307/N308	3.69	0.000	0.864	-0.008	0.000	0.000	0.000	0.000	G	Passa
N308/N309	4.01	0.000	0.938	-0.008	0.000	0.000	0.000	0.001	G	Passa
N309/N310	4.26	0.000	0.996	-0.004	0.000	0.000	0.000	0.001	G	Passa
N310/N311	3.27	0.000	0.764	-0.004	0.001	0.000	0.000	0.001	G	Passa
N311/N312	2.50	0.000	0.447	0.001	0.000	0.000	0.000	0.003	G	Passa

Verificação de resistência										
Barra	η (%)	Posição (m)	Esforços desfavoráveis						Origem	Estado
			N (t)	Vy (t)	Vz (t)	Mt (t·m)	My (t·m)	Mz (t·m)		
N312/N313	2.25	0.000	-0.319	0.003	0.000	0.000	-0.001	0.002	G	Passa
N313/N314	6.21	0.000	-1.332	-0.001	-0.002	0.000	-0.001	0.002	G	Passa
N314/N315	36.51	0.463	-3.259	0.148	-0.004	0.000	0.002	-0.048	G	Passa
N297/N316	0.09	0.700	0.043	0.000	0.000	0.000	0.000	0.000	G	Passa
N315/N317	38.14	0.000	-0.100	0.293	-0.018	0.000	-0.004	0.063	G	Passa
N295/N318	38.14	0.000	-0.100	0.293	0.018	0.000	0.004	0.063	G	Passa
N318/N319	5.02	0.000	0.298	-0.027	-0.001	0.000	0.000	-0.007	G	Passa
N319/N320	9.12	0.000	-1.953	0.012	-0.002	0.000	0.000	0.001	G	Passa
N320/N321	17.77	0.000	-3.806	0.004	0.002	0.000	0.001	-0.001	G	Passa
N321/N322	23.54	0.232	-4.819	0.001	0.002	0.000	0.000	-0.002	G	Passa
N322/N323	27.79	0.000	-5.584	-0.003	0.001	0.000	0.000	-0.003	G	Passa
N323/N324	28.87	0.000	-5.901	-0.001	0.001	0.000	0.000	-0.002	G	Passa
N324/N325	30.64	0.000	-6.133	-0.006	-0.001	0.000	0.000	-0.004	G	Passa
N325/N326	29.82	0.000	-6.075	-0.003	-0.001	0.000	0.000	-0.003	G	Passa
N326/N327	29.97	0.000	-6.000	-0.007	0.001	0.000	0.000	-0.004	G	Passa
N327/N316	28.72	0.000	-5.713	-0.014	0.001	0.000	0.000	-0.004	G	Passa
N317/N336	5.02	0.000	0.298	-0.027	0.001	0.000	0.000	-0.007	G	Passa
N336/N335	9.12	0.000	-1.953	0.012	0.002	0.000	0.000	0.001	G	Passa
N335/N334	17.77	0.000	-3.806	0.004	-0.002	0.000	-0.001	-0.001	G	Passa
N334/N333	23.54	0.232	-4.819	0.001	-0.002	0.000	0.000	-0.002	G	Passa
N333/N332	27.79	0.000	-5.584	-0.003	-0.001	0.000	0.000	-0.003	G	Passa
N332/N331	28.87	0.000	-5.901	-0.001	-0.001	0.000	0.000	-0.002	G	Passa
N331/N330	30.64	0.000	-6.133	-0.006	0.001	0.000	0.000	-0.004	G	Passa
N330/N329	29.82	0.000	-6.075	-0.003	0.001	0.000	0.000	-0.003	G	Passa
N329/N328	29.97	0.000	-6.000	-0.007	-0.001	0.000	0.000	-0.004	G	Passa
N328/N316	28.72	0.000	-5.713	-0.014	-0.001	0.000	0.000	-0.004	G	Passa
N295/N319	29.88	0.000	-2.594	0.104	-0.001	0.000	-0.001	0.039	G	Passa
N296/N319	10.46	0.000	1.176	0.084	0.000	0.000	0.000	0.013	G	Passa
N296/N320	11.04	0.000	-2.263	-0.007	-0.002	0.000	0.000	-0.004	G	Passa
N299/N320	3.58	0.332	0.838	0.002	0.002	0.000	0.000	0.000	G	Passa
N299/N321	6.45	0.000	-1.304	-0.001	0.000	0.000	0.000	-0.002	G	Passa
N300/N321	3.04	0.378	0.712	-0.002	0.000	0.000	0.000	0.000	G	Passa
N300/N322	5.23	0.000	-1.042	-0.001	0.000	0.000	0.000	-0.002	G	Passa
N301/N322	1.68	0.000	0.329	-0.007	0.001	0.000	0.000	-0.002	G	Passa
N301/N323	2.47	0.000	-0.462	-0.001	0.000	0.000	0.000	-0.002	G	Passa
N302/N323	1.87	0.470	0.281	-0.009	0.000	0.000	0.000	0.002	G	Passa
N302/N324	1.91	0.173	-0.360	0.000	0.000	0.000	0.000	-0.002	G	Passa
N303/N324	1.65	0.000	-0.055	-0.010	0.000	0.000	0.000	-0.003	G	Passa
N303/N325	1.07	0.000	-0.101	0.004	0.000	0.000	0.000	0.001	GV	Passa
N304/N325	1.85	0.562	-0.068	-0.010	0.000	0.000	0.000	0.003	G	Passa
N304/N326	0.94	0.382	0.106	0.000	0.000	0.000	0.000	-0.001	G	Passa
N305/N326	2.69	0.000	-0.378	-0.010	0.000	0.000	0.000	-0.003	G	Passa

Verificação de resistência										
Barra	η (%)	Posição (m)	Esforços desfavoráveis						Origem	Estado
			N (t)	Vy (t)	Vz (t)	Mt (t·m)	My (t·m)	Mz (t·m)		
N305/N327	2.04	0.801	0.477	-0.002	0.000	0.000	0.000	-0.001	G	Passa
N306/N327	3.11	0.654	-0.361	-0.011	0.000	0.000	0.000	0.004	G	Passa
N306/N316	1.94	0.839	0.454	-0.005	0.000	0.000	0.000	0.001	G	Passa
N298/N316	1.94	0.839	0.454	-0.005	0.000	0.000	0.000	0.001	G	Passa
N298/N328	3.11	0.654	-0.361	-0.011	0.000	0.000	0.000	0.004	G	Passa
N307/N328	2.04	0.801	0.477	-0.002	0.000	0.000	0.000	-0.001	G	Passa
N307/N329	2.69	0.000	-0.378	-0.010	0.000	0.000	0.000	-0.003	G	Passa
N308/N329	0.94	0.382	0.106	0.000	0.000	0.000	0.000	-0.001	G	Passa
N308/N330	1.85	0.562	-0.068	-0.010	0.000	0.000	0.000	0.003	G	Passa
N309/N330	1.07	0.000	-0.101	0.004	0.000	0.000	0.000	0.001	GV	Passa
N309/N331	1.65	0.000	-0.055	-0.010	0.000	0.000	0.000	-0.003	G	Passa
N310/N331	1.91	0.173	-0.360	0.000	0.000	0.000	0.000	-0.002	G	Passa
N310/N332	1.87	0.470	0.281	-0.009	0.000	0.000	0.000	0.002	G	Passa
N311/N332	2.47	0.000	-0.462	-0.001	0.000	0.000	0.000	-0.002	G	Passa
N311/N333	1.68	0.000	0.329	-0.007	-0.001	0.000	0.000	-0.002	G	Passa
N312/N333	5.23	0.000	-1.042	-0.001	0.000	0.000	0.000	-0.002	G	Passa
N312/N334	3.04	0.378	0.712	-0.002	0.000	0.000	0.000	0.000	G	Passa
N313/N334	6.45	0.000	-1.304	-0.001	0.000	0.000	0.000	-0.002	G	Passa
N313/N335	3.58	0.332	0.838	0.002	-0.002	0.000	0.000	0.000	G	Passa
N314/N335	11.04	0.000	-2.263	-0.007	0.002	0.000	0.000	-0.004	G	Passa
N314/N336	10.46	0.000	1.176	0.084	0.000	0.000	0.000	0.013	G	Passa
N315/N336	29.88	0.000	-2.594	0.104	0.001	0.000	0.001	0.039	G	Passa
N127/N128	44.80	0.000	-3.690	-0.166	0.064	0.000	0.032	-0.054	G	Passa
N128/N131	7.06	0.000	-1.513	-0.004	0.048	0.000	0.009	0.002	G	Passa
N131/N132	3.30	0.463	-0.366	-0.004	0.008	0.000	-0.007	0.003	G	Passa
N132/N133	3.34	0.463	0.506	-0.002	0.009	0.000	-0.004	0.003	G	Passa
N133/N134	3.70	0.000	0.865	-0.001	0.002	0.000	-0.001	0.002	G	Passa
N134/N135	4.83	0.000	1.131	-0.002	0.002	0.000	0.000	0.002	G	Passa
N135/N136	4.55	0.000	1.064	0.003	0.000	0.000	0.000	0.003	G	Passa
N136/N137	4.19	0.000	0.981	0.003	0.002	0.000	0.000	0.003	G	Passa
N137/N138	3.67	0.000	0.657	0.005	0.002	0.000	-0.002	0.003	G	Passa
N138/N129	2.93	0.000	0.366	0.009	-0.001	0.000	-0.003	0.003	G	Passa
N129/N130	2.93	0.463	0.366	-0.009	0.001	0.000	-0.003	0.003	G	Passa
N130/N139	3.67	0.463	0.657	-0.005	-0.002	0.000	-0.002	0.003	G	Passa
N139/N140	4.19	0.000	0.981	-0.008	-0.002	0.000	-0.001	0.000	G	Passa
N140/N141	4.55	0.000	1.064	-0.008	0.000	0.000	0.000	0.001	G	Passa
N141/N142	4.83	0.000	1.131	-0.004	-0.002	0.000	-0.001	0.002	G	Passa
N142/N143	3.70	0.000	0.865	-0.004	-0.002	0.000	-0.001	0.002	G	Passa
N143/N144	3.34	0.000	0.506	0.002	-0.009	0.000	-0.004	0.003	G	Passa
N144/N145	3.30	0.000	-0.366	0.004	-0.008	0.000	-0.007	0.003	G	Passa
N145/N146	7.06	0.000	-1.513	-0.001	-0.048	0.000	-0.013	0.002	G	Passa
N146/N147	44.80	0.463	-3.690	0.166	-0.064	0.000	0.032	-0.054	G	Passa

Verificação de resistência										
Barra	η (%)	Posição (m)	Esforços desfavoráveis						Origem	Estado
			N (t)	Vy (t)	Vz (t)	Mt (t·m)	My (t·m)	Mz (t·m)		
N129/N148	0.13	0.700	0.045	0.000	0.002	0.000	-0.001	0.000	G	Passa
N147/N149	43.06	0.000	-0.104	0.332	0.034	0.000	-0.004	0.071	G	Passa
N127/N150	43.06	0.000	-0.104	0.332	-0.034	0.000	0.004	0.071	G	Passa
N150/N151	6.29	0.465	0.338	-0.036	0.022	0.000	-0.011	0.007	G	Passa
N151/N152	10.27	0.000	-2.200	0.014	-0.007	0.000	-0.002	0.002	G	Passa
N152/N153	22.04	0.000	-4.294	0.004	0.029	0.000	0.014	-0.001	G	Passa
N153/N154	27.14	0.465	-5.441	-0.002	0.032	0.000	-0.006	-0.002	G	Passa
N154/N155	31.44	0.000	-6.312	-0.004	0.002	0.000	0.000	-0.004	G	Passa
N155/N156	32.72	0.000	-6.671	-0.001	0.005	0.000	0.001	-0.003	G	Passa
N156/N157	34.66	0.000	-6.937	-0.008	0.003	0.000	0.000	-0.004	G	Passa
N157/N158	33.89	0.000	-6.870	-0.004	0.005	0.000	-0.001	-0.003	G	Passa
N158/N159	34.36	0.000	-6.787	-0.008	-0.017	0.000	-0.004	-0.004	G	Passa
N159/N148	33.55	0.465	-6.459	-0.021	-0.018	0.000	0.011	0.004	G	Passa
N149/N168	6.29	0.465	0.338	-0.036	-0.022	0.000	0.011	0.007	G	Passa
N168/N167	10.27	0.000	-2.200	0.014	0.007	0.000	0.002	0.002	G	Passa
N167/N166	22.04	0.000	-4.294	0.004	-0.029	0.000	-0.014	-0.001	G	Passa
N166/N165	27.14	0.465	-5.441	-0.002	-0.032	0.000	0.006	-0.002	G	Passa
N165/N164	31.44	0.000	-6.312	-0.004	-0.002	0.000	0.000	-0.004	G	Passa
N164/N163	32.72	0.000	-6.671	-0.001	-0.005	0.000	-0.001	-0.003	G	Passa
N163/N162	34.66	0.000	-6.937	-0.008	-0.003	0.000	0.000	-0.004	G	Passa
N162/N161	33.89	0.000	-6.870	-0.004	-0.005	0.000	0.001	-0.003	G	Passa
N161/N160	34.36	0.000	-6.787	-0.008	0.017	0.000	0.004	-0.004	G	Passa
N160/N148	33.55	0.465	-6.459	-0.021	0.018	0.000	-0.011	0.004	G	Passa
N127/N151	34.17	0.000	-2.924	0.117	-0.028	0.000	-0.005	0.045	G	Passa
N128/N151	12.38	0.000	1.327	0.095	0.001	0.000	0.005	0.015	G	Passa
N128/N152	12.47	0.000	-2.556	-0.009	-0.015	0.000	0.008	-0.005	G	Passa
N131/N152	4.05	0.332	0.948	0.002	0.045	0.000	-0.007	0.000	G	Passa
N131/N153	7.30	0.000	-1.477	-0.002	0.005	0.000	0.013	-0.002	G	Passa
N132/N153	3.45	0.378	0.808	-0.003	0.002	0.000	0.006	0.000	G	Passa
N132/N154	5.95	0.000	-1.185	-0.001	0.003	0.000	0.009	-0.002	G	Passa
N133/N154	2.30	0.000	0.372	-0.008	0.011	0.000	0.003	-0.002	G	Passa
N133/N155	3.38	0.000	-0.523	-0.001	0.003	0.000	0.005	-0.002	G	Passa
N134/N155	2.29	0.000	0.314	-0.010	0.000	0.000	0.001	-0.002	G	Passa
N134/N156	2.41	0.000	-0.414	0.001	0.000	0.000	0.002	-0.002	G	Passa
N135/N156	1.99	0.000	-0.065	-0.011	0.003	0.000	0.001	-0.003	G	Passa
N135/N157	1.35	0.000	-0.113	0.004	-0.001	0.000	-0.001	0.002	GV	Passa
N136/N157	2.09	0.562	-0.077	-0.011	0.000	0.000	0.000	0.003	G	Passa
N136/N158	1.06	0.382	0.118	0.000	0.001	0.000	0.000	-0.001	G	Passa
N137/N158	3.21	0.000	-0.433	-0.011	0.000	0.000	-0.001	-0.003	G	Passa
N137/N159	2.32	0.801	0.544	-0.002	0.000	0.000	-0.001	-0.001	G	Passa
N138/N159	3.64	0.654	-0.411	-0.012	0.000	0.000	-0.001	0.004	G	Passa
N138/N148	2.19	0.839	0.513	-0.005	-0.003	0.000	0.001	0.001	G	Passa

Verificação de resistência										
Barra	η (%)	Posição (m)	Esforços desfavoráveis						Origem	Estado
			N (t)	Vy (t)	Vz (t)	Mt (t·m)	My (t·m)	Mz (t·m)		
N130/N148	2.19	0.839	0.513	-0.005	0.003	0.000	-0.001	0.001	G	Passa
N130/N160	3.64	0.654	-0.411	-0.012	0.000	0.000	0.001	0.004	G	Passa
N139/N160	2.32	0.801	0.544	-0.002	0.000	0.000	0.001	-0.001	G	Passa
N139/N161	3.21	0.000	-0.433	-0.011	0.000	0.000	0.001	-0.003	G	Passa
N140/N161	1.06	0.382	0.118	0.000	-0.001	0.000	0.000	-0.001	G	Passa
N140/N162	2.09	0.562	-0.077	-0.011	0.000	0.000	0.000	0.003	G	Passa
N141/N162	1.35	0.000	-0.113	0.004	0.001	0.000	0.001	0.002	GV	Passa
N141/N163	1.99	0.000	-0.065	-0.011	-0.003	0.000	-0.001	-0.003	G	Passa
N142/N163	2.41	0.000	-0.414	0.001	0.000	0.000	-0.002	-0.002	G	Passa
N142/N164	2.29	0.000	0.314	-0.010	0.000	0.000	-0.001	-0.002	G	Passa
N143/N164	3.38	0.000	-0.523	-0.001	-0.003	0.000	-0.005	-0.002	G	Passa
N143/N165	2.30	0.000	0.372	-0.008	-0.011	0.000	-0.003	-0.002	G	Passa
N144/N165	5.95	0.000	-1.185	-0.001	-0.003	0.000	-0.009	-0.002	G	Passa
N144/N166	3.45	0.378	0.808	-0.003	-0.002	0.000	-0.006	0.000	G	Passa
N145/N166	7.30	0.000	-1.477	-0.002	-0.005	0.000	-0.013	-0.002	G	Passa
N145/N167	4.05	0.332	0.948	0.002	-0.045	0.000	0.007	0.000	G	Passa
N146/N167	12.47	0.000	-2.556	-0.009	0.015	0.000	-0.008	-0.005	G	Passa
N146/N168	12.38	0.000	1.327	0.095	-0.001	0.000	-0.005	0.015	G	Passa
N147/N168	34.17	0.000	-2.924	0.117	0.028	0.000	0.005	0.045	G	Passa
N43/N49	35.28	0.000	-1.802	-0.084	-0.197	0.000	-0.102	-0.027	G	Passa
N49/N50	7.64	0.000	-0.742	-0.003	-0.155	0.000	-0.046	0.001	G	Passa
N50/N51	3.09	0.463	-0.177	0.000	-0.053	0.000	0.017	0.001	G	Passa
N51/N52	3.17	0.463	0.240	0.001	-0.047	0.000	0.016	0.001	G	Passa
N52/N53	2.43	0.463	0.422	0.003	-0.019	0.000	0.010	0.001	G	Passa
N53/N54	2.67	0.463	0.547	0.003	-0.018	0.000	0.009	0.001	G	Passa
N54/N55	2.49	0.231	0.522	0.003	-0.011	0.000	0.006	0.001	G	Passa
N55/N56	2.74	0.231	0.479	0.003	-0.013	0.000	0.009	0.001	G	Passa
N56/N57	3.19	0.000	0.328	0.001	-0.007	0.000	0.013	0.002	G	Passa
N57/N45	3.24	0.000	0.184	0.003	0.003	0.000	0.017	0.001	G	Passa
N45/N58	3.24	0.463	0.184	-0.003	-0.003	0.000	0.017	0.001	G	Passa
N58/N59	3.19	0.463	0.328	-0.001	0.007	0.000	0.013	0.002	G	Passa
N59/N60	2.74	0.231	0.479	-0.003	0.013	0.000	0.009	0.001	G	Passa
N60/N61	2.49	0.231	0.522	-0.003	0.011	0.000	0.006	0.001	G	Passa
N61/N62	2.67	0.000	0.547	-0.003	0.018	0.000	0.009	0.001	G	Passa
N62/N63	2.43	0.000	0.422	-0.003	0.019	0.000	0.010	0.001	G	Passa
N63/N64	3.17	0.000	0.240	-0.001	0.047	0.000	0.016	0.001	G	Passa
N64/N65	3.09	0.000	-0.177	0.000	0.053	0.000	0.017	0.001	G	Passa
N65/N66	7.64	0.463	-0.742	0.003	0.155	0.000	-0.046	0.001	G	Passa
N66/N44	35.28	0.463	-1.802	0.084	0.197	0.000	-0.102	-0.027	G	Passa
N45/N46	0.26	0.700	0.034	0.000	-0.005	0.000	0.004	0.000	G	Passa
N44/N47	26.45	0.000	-0.053	0.166	-0.005	0.000	0.044	0.036	G	Passa
N43/N48	26.45	0.000	-0.053	0.166	0.005	0.000	-0.044	0.036	G	Passa

Verificação de resistência										
Barra	η (%)	Posição (m)	Esforços desfavoráveis						Origem	Estado
			N (t)	Vy (t)	Vz (t)	Mt (t·m)	My (t·m)	Mz (t·m)		
N48/N76	7.48	0.465	0.168	-0.020	-0.095	0.000	0.042	0.004	G	Passa
N76/N77	6.43	0.465	-1.081	0.002	-0.044	0.000	0.025	-0.002	G	Passa
N77/N78	9.80	0.000	-2.100	0.004	-0.055	0.000	-0.018	0.000	G	Passa
N78/N79	12.44	0.000	-2.665	0.003	-0.066	0.000	-0.018	-0.001	G	Passa
N79/N80	14.38	0.000	-3.081	0.000	-0.023	0.000	-0.008	-0.002	G	Passa
N80/N81	15.23	0.000	-3.264	0.001	-0.032	0.000	-0.009	-0.001	G	Passa
N81/N82	15.81	0.000	-3.387	-0.002	-0.005	0.000	-0.002	-0.002	G	Passa
N82/N83	15.70	0.000	-3.363	0.000	-0.013	0.000	-0.002	-0.001	G	Passa
N83/N84	15.49	0.000	-3.319	-0.002	0.046	0.000	0.004	-0.002	G	Passa
N84/N46	14.78	0.000	-3.166	-0.006	0.045	0.000	-0.016	-0.002	G	Passa
N47/N75	7.48	0.465	0.168	-0.020	0.095	0.000	-0.042	0.004	G	Passa
N75/N74	6.43	0.465	-1.081	0.002	0.044	0.000	-0.025	-0.002	G	Passa
N74/N73	9.80	0.000	-2.100	0.004	0.055	0.000	0.018	0.000	G	Passa
N73/N72	12.44	0.000	-2.665	0.003	0.066	0.000	0.018	-0.001	G	Passa
N72/N71	14.38	0.000	-3.081	0.000	0.023	0.000	0.008	-0.002	G	Passa
N71/N70	15.23	0.000	-3.264	0.001	0.032	0.000	0.009	-0.001	G	Passa
N70/N69	15.81	0.000	-3.387	-0.002	0.005	0.000	0.002	-0.002	G	Passa
N69/N68	15.70	0.000	-3.363	0.000	0.013	0.000	0.002	-0.001	G	Passa
N68/N67	15.49	0.000	-3.319	-0.002	-0.046	0.000	-0.004	-0.002	G	Passa
N67/N46	14.78	0.000	-3.166	-0.006	-0.045	0.000	0.016	-0.002	G	Passa
N43/N76	19.98	0.000	-1.441	0.060	0.029	0.000	-0.027	0.022	G	Passa
N49/N76	8.78	0.000	0.648	0.047	-0.022	0.000	-0.025	0.007	G	Passa
N49/N77	9.95	0.569	-1.241	-0.009	0.020	0.000	-0.055	0.001	G	Passa
N50/N77	4.28	0.000	-0.183	0.000	0.110	0.000	0.024	0.000	GV	Passa
N50/N78	7.24	0.000	-0.729	0.001	-0.016	0.000	-0.042	-0.001	G	Passa
N51/N78	3.78	0.000	-0.174	0.001	0.005	0.000	0.019	0.000	GV	Passa
N51/N79	5.58	0.157	-0.568	-0.001	0.000	0.000	-0.030	-0.001	G	Passa
N52/N79	2.76	0.000	0.194	-0.004	-0.038	0.000	-0.015	-0.001	G	Passa
N52/N80	3.86	0.000	-0.267	0.001	-0.009	0.000	-0.022	-0.001	G	Passa
N53/N80	2.22	0.470	0.158	-0.005	0.000	0.000	-0.010	0.001	G	Passa
N53/N81	2.66	0.173	-0.194	0.000	0.001	0.000	-0.014	-0.001	G	Passa
N54/N81	1.68	0.000	-0.017	-0.005	-0.013	0.000	-0.007	-0.001	G	Passa
N54/N82	1.47	0.000	0.028	0.002	-0.006	0.000	-0.009	-0.001	G	Passa
N55/N82	1.43	0.562	-0.033	-0.006	0.002	0.000	-0.003	0.002	G	Passa
N55/N83	0.83	0.382	0.063	0.000	0.000	0.000	-0.003	-0.001	G	Passa
N56/N83	2.02	0.608	-0.188	-0.005	-0.006	0.000	0.005	0.002	G	Passa
N56/N84	1.09	0.801	0.254	-0.003	-0.001	0.000	0.002	0.000	G	Passa
N57/N84	1.85	0.654	-0.195	-0.006	0.000	0.000	0.001	0.002	G	Passa
N57/N46	1.61	0.839	0.257	-0.004	0.010	0.000	-0.006	0.001	G	Passa
N58/N46	1.61	0.839	0.257	-0.004	-0.010	0.000	0.006	0.001	G	Passa
N58/N67	1.85	0.654	-0.195	-0.006	0.000	0.000	-0.001	0.002	G	Passa
N59/N67	1.09	0.801	0.254	-0.003	0.001	0.000	-0.002	0.000	G	Passa

Verificação de resistência										
Barra	η (%)	Posição (m)	Esforços desfavoráveis						Origem	Estado
			N (t)	Vy (t)	Vz (t)	Mt (t·m)	My (t·m)	Mz (t·m)		
N59/N68	2.02	0.608	-0.188	-0.005	0.006	0.000	-0.005	0.002	G	Passa
N60/N68	0.83	0.382	0.063	0.000	0.000	0.000	0.003	-0.001	G	Passa
N60/N69	1.43	0.562	-0.033	-0.006	-0.002	0.000	0.003	0.002	G	Passa
N61/N69	1.47	0.000	0.028	0.002	0.006	0.000	0.009	-0.001	G	Passa
N61/N70	1.68	0.000	-0.017	-0.005	0.013	0.000	0.007	-0.001	G	Passa
N62/N70	2.66	0.173	-0.194	0.000	-0.001	0.000	0.014	-0.001	G	Passa
N62/N71	2.22	0.470	0.158	-0.005	0.000	0.000	0.010	0.001	G	Passa
N63/N71	3.86	0.000	-0.267	0.001	0.009	0.000	0.022	-0.001	G	Passa
N63/N72	2.76	0.000	0.194	-0.004	0.038	0.000	0.015	-0.001	G	Passa
N64/N72	5.58	0.157	-0.568	-0.001	0.000	0.000	0.030	-0.001	G	Passa
N64/N73	3.78	0.000	-0.174	0.001	-0.005	0.000	-0.019	0.000	GV	Passa
N65/N73	7.24	0.000	-0.729	0.001	0.016	0.000	0.042	-0.001	G	Passa
N65/N74	4.28	0.000	-0.183	0.000	-0.110	0.000	-0.024	0.000	GV	Passa
N66/N74	9.95	0.569	-1.241	-0.009	-0.020	0.000	0.055	0.001	G	Passa
N66/N75	8.78	0.000	0.648	0.047	0.022	0.000	0.025	0.007	G	Passa
N44/N75	19.98	0.000	-1.441	0.060	-0.029	0.000	0.027	0.022	G	Passa
N5/N107	16.91	3.875	-0.113	0.001	0.083	0.000	-0.055	-0.001	G	Passa
N107/N191	10.84	0.000	0.015	-0.008	0.061	0.000	0.037	-0.004	GV	Passa
N191/N233	11.25	0.000	-0.012	-0.008	0.061	0.000	0.035	-0.005	GV	Passa
N233/N275	10.72	0.000	0.014	-0.008	0.061	0.000	0.035	-0.005	GV	Passa
N275/N317	11.18	3.500	-0.013	0.008	-0.061	0.000	0.036	-0.005	GV	Passa
N317/N359	10.83	3.500	0.015	0.008	-0.061	0.000	0.035	-0.005	GV	Passa
N359/N149	11.27	3.500	-0.012	0.008	-0.061	0.000	0.037	-0.004	GV	Passa
N149/N47	15.91	0.000	-0.094	-0.001	-0.083	0.000	-0.055	-0.001	G	Passa
N32/N125	29.62	3.875	0.134	0.018	-0.158	0.000	0.100	-0.011	GV	Passa
N125/N209	25.12	0.000	0.048	-0.016	0.132	0.000	0.086	-0.010	GV	Passa
N209/N251	22.31	3.500	0.036	0.016	-0.129	0.000	0.075	-0.009	GV	Passa
N251/N293	22.20	0.000	0.028	-0.016	0.128	0.000	0.075	-0.009	GV	Passa
N293/N335	22.19	0.000	0.028	-0.016	0.128	0.000	0.075	-0.009	GV	Passa
N335/N377	22.33	0.000	0.036	-0.016	0.129	0.000	0.075	-0.009	GV	Passa
N377/N167	25.12	3.500	0.048	0.016	-0.132	0.000	0.086	-0.010	GV	Passa
N167/N74	29.67	0.000	0.134	-0.018	0.158	0.000	0.100	-0.011	GV	Passa
N30/N123	28.38	3.875	-0.005	0.018	-0.163	0.000	0.097	-0.012	GV	Passa
N123/N207	25.41	0.000	0.015	-0.016	0.133	0.000	0.092	-0.009	GV	Passa
N207/N249	22.21	3.500	0.016	0.016	-0.129	0.000	0.075	-0.009	GV	Passa
N249/N291	22.07	3.500	0.017	0.016	-0.128	0.000	0.075	-0.009	GV	Passa
N291/N333	22.13	0.000	0.017	-0.016	0.128	0.000	0.075	-0.009	GV	Passa
N333/N375	22.26	0.000	0.016	-0.016	0.129	0.000	0.075	-0.009	GV	Passa
N375/N165	25.39	3.500	0.015	0.016	-0.134	0.000	0.092	-0.009	GV	Passa
N165/N72	28.47	0.000	-0.005	-0.018	0.163	0.000	0.097	-0.012	GV	Passa
N28/N121	28.22	3.875	-0.010	0.018	-0.164	0.000	0.094	-0.012	GV	Passa
N121/N205	26.18	0.000	-0.014	-0.016	0.134	0.000	0.093	-0.009	GV	Passa

Verificação de resistência										
Barra	η (%)	Posição (m)	Esforços desfavoráveis						Origem	Estado
			N (t)	Vy (t)	Vz (t)	Mt (t·m)	My (t·m)	Mz (t·m)		
N205/N247	22.38	3.500	-0.011	0.016	-0.128	0.000	0.075	-0.009	GV	Passa
N247/N289	22.33	3.500	-0.011	0.016	-0.128	0.000	0.075	-0.009	GV	Passa
N289/N331	22.36	0.000	-0.010	-0.016	0.128	0.000	0.075	-0.009	GV	Passa
N331/N373	22.46	0.000	-0.012	-0.016	0.128	0.000	0.074	-0.009	GV	Passa
N373/N163	26.13	3.500	-0.013	0.016	-0.134	0.000	0.093	-0.009	GV	Passa
N163/N70	28.33	0.000	-0.011	-0.018	0.164	0.000	0.095	-0.012	GV	Passa
N26/N119	29.96	3.875	-0.055	0.018	-0.164	0.000	0.093	-0.012	GV	Passa
N119/N203	26.88	0.000	-0.023	-0.016	0.133	0.000	0.093	-0.010	GV	Passa
N203/N245	22.64	3.500	-0.022	0.016	-0.128	0.000	0.074	-0.009	GV	Passa
N245/N287	22.61	3.500	-0.017	0.016	-0.128	0.000	0.075	-0.009	GV	Passa
N287/N329	22.72	0.000	-0.020	-0.016	0.128	0.000	0.075	-0.009	GV	Passa
N329/N371	22.63	0.000	-0.020	-0.016	0.128	0.000	0.074	-0.009	GV	Passa
N371/N161	27.07	3.500	-0.027	0.016	-0.134	0.000	0.093	-0.010	GV	Passa
N161/N68	29.98	0.000	-0.052	-0.018	0.164	0.000	0.093	-0.012	GV	Passa
N4/N106	24.35	3.875	-0.108	0.000	0.172	0.000	-0.098	0.000	G	Passa
N106/N190	20.91	0.000	-0.059	0.000	-0.140	0.000	-0.094	0.000	G	Passa
N190/N232	17.87	3.500	-0.057	0.000	0.136	0.000	-0.079	0.000	G	Passa
N232/N274	17.50	3.500	-0.047	0.000	0.136	0.000	-0.079	0.000	G	Passa
N274/N316	17.76	0.000	-0.052	0.000	-0.136	0.000	-0.080	0.000	G	Passa
N316/N358	17.47	0.000	-0.048	0.000	-0.136	0.000	-0.079	0.000	G	Passa
N358/N148	21.14	3.500	-0.061	0.000	0.140	0.000	-0.095	0.000	G	Passa
N148/N46	23.85	0.000	-0.098	0.000	-0.172	0.000	-0.098	0.000	G	Passa
N6/N108	16.91	3.875	-0.113	0.001	-0.083	0.000	0.055	-0.001	G	Passa
N108/N192	10.84	0.000	0.015	-0.008	-0.061	0.000	-0.037	-0.004	GV	Passa
N192/N234	11.25	0.000	-0.012	-0.008	-0.061	0.000	-0.035	-0.005	GV	Passa
N234/N276	10.72	0.000	0.014	-0.008	-0.061	0.000	-0.035	-0.005	GV	Passa
N276/N318	11.18	3.500	-0.013	0.008	0.061	0.000	-0.036	-0.005	GV	Passa
N318/N360	10.83	3.500	0.015	0.008	0.061	0.000	-0.035	-0.005	GV	Passa
N360/N150	11.27	3.500	-0.012	0.008	0.061	0.000	-0.037	-0.004	GV	Passa
N150/N48	15.91	0.000	-0.094	-0.001	0.083	0.000	0.055	-0.001	G	Passa
N35/N110	29.62	3.875	0.134	0.018	0.158	0.000	-0.100	-0.011	GV	Passa
N110/N194	25.12	0.000	0.048	-0.016	-0.132	0.000	-0.086	-0.010	GV	Passa
N194/N236	22.31	3.500	0.036	0.016	0.129	0.000	-0.075	-0.009	GV	Passa
N236/N278	22.20	0.000	0.028	-0.016	-0.128	0.000	-0.075	-0.009	GV	Passa
N278/N320	22.19	0.000	0.028	-0.016	-0.128	0.000	-0.075	-0.009	GV	Passa
N320/N362	22.33	0.000	0.036	-0.016	-0.129	0.000	-0.075	-0.009	GV	Passa
N362/N152	25.12	3.500	0.048	0.016	0.132	0.000	-0.086	-0.010	GV	Passa
N152/N77	29.67	0.000	0.134	-0.018	-0.158	0.000	-0.100	-0.011	GV	Passa
N37/N112	28.38	3.875	-0.005	0.018	0.163	0.000	-0.097	-0.012	GV	Passa
N112/N196	25.41	0.000	0.015	-0.016	-0.133	0.000	-0.092	-0.009	GV	Passa
N196/N238	22.21	3.500	0.016	0.016	0.129	0.000	-0.075	-0.009	GV	Passa
N238/N280	22.07	3.500	0.017	0.016	0.128	0.000	-0.075	-0.009	GV	Passa

Verificação de resistência										
Barra	η (%)	Posição (m)	Esforços desfavoráveis						Origem	Estado
			N (t)	Vy (t)	Vz (t)	Mt (t·m)	My (t·m)	Mz (t·m)		
N280/N322	22.13	0.000	0.017	-0.016	-0.128	0.000	-0.075	-0.009	GV	Passa
N322/N364	22.26	0.000	0.016	-0.016	-0.129	0.000	-0.075	-0.009	GV	Passa
N364/N154	25.39	3.500	0.015	0.016	0.134	0.000	-0.092	-0.009	GV	Passa
N154/N79	28.47	0.000	-0.005	-0.018	-0.163	0.000	-0.097	-0.012	GV	Passa
N39/N114	28.22	3.875	-0.010	0.018	0.164	0.000	-0.094	-0.012	GV	Passa
N114/N198	26.18	0.000	-0.014	-0.016	-0.134	0.000	-0.093	-0.009	GV	Passa
N198/N240	22.38	3.500	-0.011	0.016	0.128	0.000	-0.075	-0.009	GV	Passa
N240/N282	22.33	3.500	-0.011	0.016	0.128	0.000	-0.075	-0.009	GV	Passa
N282/N324	22.36	0.000	-0.010	-0.016	-0.128	0.000	-0.075	-0.009	GV	Passa
N324/N366	22.46	0.000	-0.012	-0.016	-0.128	0.000	-0.074	-0.009	GV	Passa
N366/N156	26.13	3.500	-0.013	0.016	0.134	0.000	-0.093	-0.009	GV	Passa
N156/N81	28.33	0.000	-0.011	-0.018	-0.164	0.000	-0.095	-0.012	GV	Passa
N41/N116	29.96	3.875	-0.055	0.018	0.164	0.000	-0.093	-0.012	GV	Passa
N116/N200	26.88	0.000	-0.023	-0.016	-0.133	0.000	-0.093	-0.010	GV	Passa
N200/N242	22.64	3.500	-0.022	0.016	0.128	0.000	-0.074	-0.009	GV	Passa
N242/N284	22.61	3.500	-0.017	0.016	0.128	0.000	-0.075	-0.009	GV	Passa
N284/N326	22.72	0.000	-0.020	-0.016	-0.128	0.000	-0.075	-0.009	GV	Passa
N326/N368	22.63	0.000	-0.020	-0.016	-0.128	0.000	-0.074	-0.009	GV	Passa
N368/N158	27.07	3.500	-0.027	0.016	0.134	0.000	-0.093	-0.010	GV	Passa
N158/N83	29.98	0.000	-0.052	-0.018	-0.164	0.000	-0.093	-0.012	GV	Passa
N5/N106	3.17	0.000	0.052	0.000	0.000	0.000	0.000	0.000	GV	Passa
N107/N4	2.85	0.000	0.047	0.000	0.000	0.000	0.000	0.000	GV	Passa
N108/N4	2.85	0.000	0.047	0.000	0.000	0.000	0.000	0.000	GV	Passa
N6/N106	3.17	0.000	0.052	0.000	0.000	0.000	0.000	0.000	GV	Passa
N169/N170	35.77	0.000	-3.199	-0.145	-0.002	0.000	-0.001	-0.047	G	Passa
N170/N173	6.10	0.000	-1.308	-0.004	0.000	0.000	0.001	0.001	G	Passa
N173/N174	2.21	0.463	-0.314	-0.003	0.001	0.000	0.001	0.002	G	Passa
N174/N175	2.43	0.463	0.437	-0.001	0.001	0.000	0.000	0.003	G	Passa
N175/N176	3.20	0.000	0.749	-0.001	0.001	0.000	0.000	0.002	G	Passa
N176/N177	4.17	0.000	0.977	-0.002	0.000	0.000	0.000	0.002	G	Passa
N177/N178	3.94	0.000	0.921	0.002	0.000	0.000	-0.001	0.003	G	Passa
N178/N179	3.63	0.000	0.848	0.002	0.000	0.000	0.000	0.003	G	Passa
N179/N180	3.01	0.000	0.571	0.004	-0.001	0.000	0.000	0.003	G	Passa
N180/N171	2.19	0.000	0.318	0.007	0.000	0.000	0.000	0.003	G	Passa
N171/N172	2.19	0.463	0.318	-0.007	0.000	0.000	0.000	0.003	G	Passa
N172/N181	3.01	0.463	0.571	-0.004	0.001	0.000	0.000	0.003	G	Passa
N181/N182	3.63	0.000	0.848	-0.007	0.000	0.000	0.000	0.000	G	Passa
N182/N183	3.94	0.000	0.921	-0.007	0.000	0.000	0.000	0.001	G	Passa
N183/N184	4.17	0.000	0.977	-0.004	0.000	0.000	-0.001	0.001	G	Passa
N184/N185	3.20	0.000	0.749	-0.004	-0.001	0.000	0.000	0.001	G	Passa
N185/N186	2.43	0.000	0.437	0.001	-0.001	0.000	0.000	0.003	G	Passa
N186/N187	2.21	0.000	-0.314	0.003	-0.001	0.000	0.001	0.002	G	Passa

Verificação de resistência										
Barra	η (%)	Posição (m)	Esforços desfavoráveis						Origem	Estado
			N (t)	Vy (t)	Vz (t)	Mt (t·m)	My (t·m)	Mz (t·m)		
N187/N188	6.10	0.000	-1.308	-0.002	0.000	0.000	0.001	0.002	G	Passa
N188/N189	35.77	0.463	-3.199	0.145	0.002	0.000	-0.001	-0.047	G	Passa
N171/N190	0.09	0.700	0.042	0.000	0.001	0.000	-0.001	0.000	G	Passa
N189/N191	37.35	0.000	-0.100	0.287	0.017	0.000	0.003	0.062	G	Passa
N169/N192	37.35	0.000	-0.100	0.287	-0.017	0.000	-0.003	0.062	G	Passa
N192/N193	4.92	0.000	0.291	-0.026	0.003	0.000	0.000	-0.007	G	Passa
N193/N194	8.95	0.000	-1.918	0.012	0.006	0.000	0.000	0.001	G	Passa
N194/N195	17.44	0.000	-3.736	0.004	-0.003	0.000	-0.003	-0.001	G	Passa
N195/N196	23.15	0.232	-4.729	0.000	-0.003	0.000	-0.001	-0.002	G	Passa
N196/N197	27.28	0.000	-5.479	-0.003	-0.002	0.000	0.000	-0.003	G	Passa
N197/N198	28.33	0.000	-5.791	-0.001	-0.001	0.000	0.000	-0.002	G	Passa
N198/N199	30.12	0.000	-6.019	-0.006	0.001	0.000	0.001	-0.004	G	Passa
N199/N200	29.29	0.000	-5.963	-0.003	0.001	0.000	0.000	-0.003	G	Passa
N200/N201	29.40	0.000	-5.890	-0.007	0.000	0.000	0.000	-0.004	G	Passa
N201/N190	28.19	0.000	-5.609	-0.013	0.000	0.000	0.000	-0.004	G	Passa
N191/N210	4.92	0.000	0.291	-0.026	-0.003	0.000	0.000	-0.007	G	Passa
N210/N209	8.95	0.000	-1.918	0.012	-0.006	0.000	0.000	0.001	G	Passa
N209/N208	17.44	0.000	-3.736	0.004	0.003	0.000	0.003	-0.001	G	Passa
N208/N207	23.15	0.232	-4.729	0.000	0.003	0.000	0.001	-0.002	G	Passa
N207/N206	27.28	0.000	-5.479	-0.003	0.002	0.000	0.000	-0.003	G	Passa
N206/N205	28.33	0.000	-5.791	-0.001	0.001	0.000	0.000	-0.002	G	Passa
N205/N204	30.12	0.000	-6.019	-0.006	-0.001	0.000	-0.001	-0.004	G	Passa
N204/N203	29.29	0.000	-5.963	-0.003	-0.001	0.000	0.000	-0.003	G	Passa
N203/N202	29.40	0.000	-5.890	-0.007	0.000	0.000	0.000	-0.004	G	Passa
N202/N190	28.19	0.000	-5.609	-0.013	0.000	0.000	0.000	-0.004	G	Passa
N169/N193	29.66	0.000	-2.545	0.102	0.004	0.000	0.004	0.039	G	Passa
N170/N193	10.36	0.000	1.153	0.083	0.001	0.000	0.001	0.013	G	Passa
N170/N194	10.83	0.000	-2.220	-0.007	0.003	0.000	0.001	-0.004	G	Passa
N173/N194	3.51	0.332	0.822	0.002	-0.001	0.000	0.000	0.000	G	Passa
N173/N195	6.33	0.000	-1.279	-0.001	0.000	0.000	0.000	-0.002	G	Passa
N174/N195	2.98	0.378	0.698	-0.002	0.000	0.000	0.000	0.000	G	Passa
N174/N196	5.13	0.000	-1.022	-0.001	0.000	0.000	0.000	-0.002	G	Passa
N175/N196	1.65	0.000	0.324	-0.007	0.000	0.000	0.000	-0.002	G	Passa
N175/N197	2.42	0.000	-0.455	-0.001	0.000	0.000	0.000	-0.002	G	Passa
N176/N197	1.83	0.470	0.277	-0.009	0.000	0.000	0.000	0.002	G	Passa
N176/N198	1.88	0.173	-0.354	0.000	0.000	0.000	0.000	-0.002	G	Passa
N177/N198	1.61	0.000	-0.052	-0.010	0.001	0.000	0.000	-0.002	G	Passa
N177/N199	1.02	0.000	-0.098	0.003	0.000	0.000	0.000	0.001	GV	Passa
N178/N199	1.81	0.562	-0.066	-0.010	0.000	0.000	0.000	0.003	G	Passa
N178/N200	0.92	0.382	0.104	0.000	0.000	0.000	0.000	-0.001	G	Passa
N179/N200	2.64	0.608	-0.363	-0.010	0.000	0.000	0.000	0.003	G	Passa
N179/N201	2.00	0.801	0.467	-0.002	0.000	0.000	0.000	-0.001	G	Passa

Verificação de resistência										
Barra	η (%)	Posição (m)	Esforços desfavoráveis						Origem	Estado
			N (t)	Vy (t)	Vz (t)	Mt (t·m)	My (t·m)	Mz (t·m)		
N180/N201	3.05	0.654	-0.354	-0.011	0.000	0.000	0.000	0.004	G	Passa
N180/N190	1.90	0.839	0.445	-0.005	0.000	0.000	0.000	0.001	G	Passa
N172/N190	1.90	0.839	0.445	-0.005	0.000	0.000	0.000	0.001	G	Passa
N172/N202	3.05	0.654	-0.354	-0.011	0.000	0.000	0.000	0.004	G	Passa
N181/N202	2.00	0.801	0.467	-0.002	0.000	0.000	0.000	-0.001	G	Passa
N181/N203	2.64	0.608	-0.363	-0.010	0.000	0.000	0.000	0.003	G	Passa
N182/N203	0.92	0.382	0.104	0.000	0.000	0.000	0.000	-0.001	G	Passa
N182/N204	1.81	0.562	-0.066	-0.010	0.000	0.000	0.000	0.003	G	Passa
N183/N204	1.02	0.000	-0.098	0.003	0.000	0.000	0.000	0.001	GV	Passa
N183/N205	1.61	0.000	-0.052	-0.010	-0.001	0.000	0.000	-0.002	G	Passa
N184/N205	1.88	0.173	-0.354	0.000	0.000	0.000	0.000	-0.002	G	Passa
N184/N206	1.83	0.470	0.277	-0.009	0.000	0.000	0.000	0.002	G	Passa
N185/N206	2.42	0.000	-0.455	-0.001	0.000	0.000	0.000	-0.002	G	Passa
N185/N207	1.65	0.000	0.324	-0.007	0.000	0.000	0.000	-0.002	G	Passa
N186/N207	5.13	0.000	-1.022	-0.001	0.000	0.000	0.000	-0.002	G	Passa
N186/N208	2.98	0.378	0.698	-0.002	0.000	0.000	0.000	0.000	G	Passa
N187/N208	6.33	0.000	-1.279	-0.001	0.000	0.000	0.000	-0.002	G	Passa
N187/N209	3.51	0.332	0.822	0.002	0.001	0.000	0.000	0.000	G	Passa
N188/N209	10.83	0.000	-2.220	-0.007	-0.003	0.000	-0.001	-0.004	G	Passa
N188/N210	10.36	0.000	1.153	0.083	-0.001	0.000	-0.001	0.013	G	Passa
N189/N210	29.66	0.000	-2.545	0.102	-0.004	0.000	-0.004	0.039	G	Passa
N211/N212	36.51	0.000	-3.259	-0.148	-0.003	0.000	-0.002	-0.048	G	Passa
N212/N215	6.21	0.000	-1.332	-0.004	-0.003	0.000	0.000	0.001	G	Passa
N215/N216	2.24	0.463	-0.319	-0.003	0.000	0.000	0.001	0.002	G	Passa
N216/N217	2.50	0.463	0.447	-0.001	0.000	0.000	0.000	0.003	G	Passa
N217/N218	3.27	0.000	0.764	-0.001	0.001	0.000	0.000	0.002	G	Passa
N218/N219	4.26	0.000	0.996	-0.002	0.000	0.000	0.000	0.002	G	Passa
N219/N220	4.01	0.000	0.938	0.002	0.000	0.000	0.000	0.003	G	Passa
N220/N221	3.69	0.000	0.863	0.002	0.000	0.000	0.000	0.003	G	Passa
N221/N222	3.04	0.000	0.580	0.004	0.000	0.000	0.000	0.003	G	Passa
N222/N213	2.23	0.000	0.322	0.008	0.000	0.000	0.000	0.003	G	Passa
N213/N214	2.23	0.463	0.322	-0.008	0.000	0.000	0.000	0.003	G	Passa
N214/N223	3.04	0.463	0.580	-0.004	0.000	0.000	0.000	0.003	G	Passa
N223/N224	3.69	0.000	0.863	-0.008	0.000	0.000	0.000	0.000	G	Passa
N224/N225	4.01	0.000	0.938	-0.008	0.000	0.000	0.000	0.001	G	Passa
N225/N226	4.26	0.000	0.996	-0.004	0.000	0.000	0.000	0.001	G	Passa
N226/N227	3.27	0.000	0.764	-0.004	-0.001	0.000	0.000	0.001	G	Passa
N227/N228	2.50	0.000	0.447	0.001	0.000	0.000	0.000	0.003	G	Passa
N228/N229	2.24	0.000	-0.319	0.003	0.000	0.000	0.001	0.002	G	Passa
N229/N230	6.21	0.000	-1.332	-0.001	0.003	0.000	0.001	0.002	G	Passa
N230/N231	36.51	0.463	-3.259	0.148	0.003	0.000	-0.002	-0.048	G	Passa
N213/N232	0.09	0.700	0.043	0.000	0.000	0.000	0.000	0.000	G	Passa

Verificação de resistência										
Barra	η (%)	Posição (m)	Esforços desfavoráveis						Origem	Estado
			N (t)	Vy (t)	Vz (t)	Mt (t·m)	My (t·m)	Mz (t·m)		
N231/N233	38.19	0.000	-0.100	0.293	-0.020	0.000	-0.004	0.063	G	Passa
N211/N234	38.19	0.000	-0.100	0.293	0.020	0.000	0.004	0.063	G	Passa
N234/N235	5.02	0.000	0.297	-0.027	-0.002	0.000	0.000	-0.007	G	Passa
N235/N236	9.12	0.000	-1.953	0.012	0.003	0.000	0.000	0.001	G	Passa
N236/N237	17.77	0.000	-3.806	0.004	-0.002	0.000	-0.001	-0.001	G	Passa
N237/N238	23.53	0.232	-4.819	0.001	-0.002	0.000	0.000	-0.002	G	Passa
N238/N239	27.79	0.000	-5.584	-0.003	0.000	0.000	0.000	-0.003	G	Passa
N239/N240	28.86	0.000	-5.901	-0.001	-0.001	0.000	0.000	-0.002	G	Passa
N240/N241	30.61	0.000	-6.132	-0.006	0.000	0.000	0.000	-0.004	G	Passa
N241/N242	29.89	0.000	-6.074	-0.003	-0.001	0.000	0.001	-0.003	G	Passa
N242/N243	30.11	0.000	-5.999	-0.007	0.004	0.000	0.001	-0.004	G	Passa
N243/N232	28.86	0.465	-5.712	-0.019	0.004	0.000	-0.002	0.004	G	Passa
N233/N252	5.02	0.000	0.297	-0.027	0.002	0.000	0.000	-0.007	G	Passa
N252/N251	9.12	0.000	-1.953	0.012	-0.003	0.000	0.000	0.001	G	Passa
N251/N250	17.77	0.000	-3.806	0.004	0.002	0.000	0.001	-0.001	G	Passa
N250/N249	23.53	0.232	-4.819	0.001	0.002	0.000	0.000	-0.002	G	Passa
N249/N248	27.79	0.000	-5.584	-0.003	0.000	0.000	0.000	-0.003	G	Passa
N248/N247	28.86	0.000	-5.901	-0.001	0.001	0.000	0.000	-0.002	G	Passa
N247/N246	30.61	0.000	-6.132	-0.006	0.000	0.000	0.000	-0.004	G	Passa
N246/N245	29.89	0.000	-6.074	-0.003	0.001	0.000	-0.001	-0.003	G	Passa
N245/N244	30.11	0.000	-5.999	-0.007	-0.004	0.000	-0.001	-0.004	G	Passa
N244/N232	28.86	0.465	-5.712	-0.019	-0.004	0.000	0.002	0.004	G	Passa
N211/N235	30.03	0.000	-2.594	0.104	0.005	0.000	0.002	0.039	G	Passa
N212/N235	10.46	0.000	1.176	0.084	0.001	0.000	0.000	0.013	G	Passa
N212/N236	11.04	0.000	-2.263	-0.007	0.001	0.000	0.000	-0.004	G	Passa
N215/N236	3.58	0.332	0.838	0.002	-0.003	0.000	0.001	0.000	G	Passa
N215/N237	6.45	0.000	-1.304	-0.001	0.000	0.000	0.000	-0.002	G	Passa
N216/N237	3.04	0.378	0.712	-0.002	0.000	0.000	0.000	0.000	G	Passa
N216/N238	5.23	0.000	-1.042	-0.001	0.000	0.000	0.000	-0.002	G	Passa
N217/N238	1.68	0.000	0.329	-0.007	-0.001	0.000	0.000	-0.002	G	Passa
N217/N239	2.47	0.000	-0.462	-0.001	0.000	0.000	0.000	-0.002	G	Passa
N218/N239	1.87	0.470	0.281	-0.009	0.000	0.000	0.000	0.002	G	Passa
N218/N240	1.91	0.173	-0.360	0.000	0.000	0.000	0.000	-0.002	G	Passa
N219/N240	1.65	0.000	-0.055	-0.010	0.000	0.000	0.000	-0.003	G	Passa
N219/N241	1.04	0.000	-0.101	0.004	0.000	0.000	0.000	0.001	GV	Passa
N220/N241	1.85	0.562	-0.068	-0.010	0.000	0.000	0.000	0.003	G	Passa
N220/N242	0.94	0.382	0.106	0.000	0.000	0.000	0.000	-0.001	G	Passa
N221/N242	2.71	0.000	-0.378	-0.010	0.000	0.000	0.000	-0.003	G	Passa
N221/N243	2.04	0.801	0.477	-0.002	0.000	0.000	0.000	-0.001	G	Passa
N222/N243	3.11	0.654	-0.361	-0.011	0.000	0.000	0.000	0.004	G	Passa
N222/N232	1.94	0.839	0.454	-0.005	0.001	0.000	0.000	0.001	G	Passa
N214/N232	1.94	0.839	0.454	-0.005	-0.001	0.000	0.000	0.001	G	Passa

Verificação de resistência										
Barra	η (%)	Posição (m)	Esforços desfavoráveis						Origem	Estado
			N (t)	Vy (t)	Vz (t)	Mt (t·m)	My (t·m)	Mz (t·m)		
N214/N244	3.11	0.654	-0.361	-0.011	0.000	0.000	0.000	0.004	G	Passa
N223/N244	2.04	0.801	0.477	-0.002	0.000	0.000	0.000	-0.001	G	Passa
N223/N245	2.71	0.000	-0.378	-0.010	0.000	0.000	0.000	-0.003	G	Passa
N224/N245	0.94	0.382	0.106	0.000	0.000	0.000	0.000	-0.001	G	Passa
N224/N246	1.85	0.562	-0.068	-0.010	0.000	0.000	0.000	0.003	G	Passa
N225/N246	1.04	0.000	-0.101	0.004	0.000	0.000	0.000	0.001	GV	Passa
N225/N247	1.65	0.000	-0.055	-0.010	0.000	0.000	0.000	-0.003	G	Passa
N226/N247	1.91	0.173	-0.360	0.000	0.000	0.000	0.000	-0.002	G	Passa
N226/N248	1.87	0.470	0.281	-0.009	0.000	0.000	0.000	0.002	G	Passa
N227/N248	2.47	0.000	-0.462	-0.001	0.000	0.000	0.000	-0.002	G	Passa
N227/N249	1.68	0.000	0.329	-0.007	0.001	0.000	0.000	-0.002	G	Passa
N228/N249	5.23	0.000	-1.042	-0.001	0.000	0.000	0.000	-0.002	G	Passa
N228/N250	3.04	0.378	0.712	-0.002	0.000	0.000	0.000	0.000	G	Passa
N229/N250	6.45	0.000	-1.304	-0.001	0.000	0.000	0.000	-0.002	G	Passa
N229/N251	3.58	0.332	0.838	0.002	0.003	0.000	-0.001	0.000	G	Passa
N230/N251	11.04	0.000	-2.263	-0.007	-0.001	0.000	0.000	-0.004	G	Passa
N230/N252	10.46	0.000	1.176	0.084	-0.001	0.000	0.000	0.013	G	Passa
N231/N252	30.03	0.000	-2.594	0.104	-0.005	0.000	-0.002	0.039	G	Passa
N337/N338	35.63	0.000	-3.197	-0.145	0.001	0.000	0.000	-0.047	G	Passa
N338/N341	6.10	0.000	-1.307	-0.004	0.001	0.000	-0.001	0.001	G	Passa
N341/N342	2.21	0.463	-0.314	-0.003	-0.001	0.000	-0.001	0.002	G	Passa
N342/N343	2.43	0.463	0.437	-0.001	-0.001	0.000	0.000	0.003	G	Passa
N343/N344	3.20	0.000	0.749	-0.001	-0.001	0.000	0.000	0.002	G	Passa
N344/N345	4.17	0.000	0.976	-0.002	-0.001	0.000	0.000	0.002	G	Passa
N345/N346	3.93	0.000	0.920	0.002	0.000	0.000	0.001	0.003	G	Passa
N346/N347	3.62	0.000	0.848	0.002	0.000	0.000	0.001	0.003	G	Passa
N347/N348	3.01	0.000	0.570	0.004	0.001	0.000	0.000	0.003	G	Passa
N348/N339	2.21	0.000	0.318	0.007	0.000	0.000	0.000	0.003	G	Passa
N339/N340	2.21	0.463	0.318	-0.007	0.000	0.000	0.000	0.003	G	Passa
N340/N349	3.01	0.463	0.570	-0.004	-0.001	0.000	0.000	0.003	G	Passa
N349/N350	3.62	0.000	0.848	-0.007	0.000	0.000	0.001	0.000	G	Passa
N350/N351	3.93	0.000	0.920	-0.007	0.000	0.000	0.001	0.001	G	Passa
N351/N352	4.17	0.000	0.976	-0.004	0.001	0.000	0.001	0.001	G	Passa
N352/N353	3.20	0.000	0.749	-0.004	0.001	0.000	0.000	0.001	G	Passa
N353/N354	2.43	0.000	0.437	0.001	0.001	0.000	0.000	0.003	G	Passa
N354/N355	2.21	0.000	-0.314	0.003	0.001	0.000	-0.001	0.002	G	Passa
N355/N356	6.10	0.000	-1.307	-0.001	-0.001	0.000	-0.001	0.002	G	Passa
N356/N357	35.63	0.463	-3.197	0.145	-0.001	0.000	0.000	-0.047	G	Passa
N339/N358	0.09	0.700	0.042	0.000	-0.001	0.000	0.000	0.000	G	Passa
N357/N359	37.52	0.000	-0.100	0.287	0.021	0.000	0.005	0.062	G	Passa
N337/N360	37.52	0.000	-0.100	0.287	-0.021	0.000	-0.005	0.062	G	Passa
N360/N361	4.90	0.000	0.290	-0.026	-0.001	0.000	0.000	-0.007	G	Passa

Verificação de resistência										
Barra	η (%)	Posição (m)	Esforços desfavoráveis						Origem	Estado
			N (t)	Vy (t)	Vz (t)	Mt (t·m)	My (t·m)	Mz (t·m)		
N361/N362	8.95	0.000	-1.918	0.012	-0.006	0.000	0.000	0.001	G	Passa
N362/N363	17.44	0.000	-3.735	0.004	0.003	0.000	0.002	-0.001	G	Passa
N363/N364	23.11	0.232	-4.728	0.000	0.003	0.000	0.000	-0.002	G	Passa
N364/N365	27.27	0.000	-5.478	-0.003	0.001	0.000	0.000	-0.003	G	Passa
N365/N366	28.32	0.000	-5.790	-0.001	0.001	0.000	0.000	-0.002	G	Passa
N366/N367	30.05	0.000	-6.017	-0.006	0.001	0.000	0.000	-0.004	G	Passa
N367/N368	29.37	0.000	-5.961	-0.003	0.001	0.000	-0.001	-0.003	G	Passa
N368/N369	29.63	0.000	-5.888	-0.007	-0.005	0.000	-0.002	-0.004	G	Passa
N369/N358	28.36	0.465	-5.606	-0.019	-0.005	0.000	0.002	0.004	G	Passa
N359/N378	4.90	0.000	0.290	-0.026	0.001	0.000	0.000	-0.007	G	Passa
N378/N377	8.95	0.000	-1.918	0.012	0.006	0.000	0.000	0.001	G	Passa
N377/N376	17.44	0.000	-3.735	0.004	-0.003	0.000	-0.002	-0.001	G	Passa
N376/N375	23.11	0.232	-4.728	0.000	-0.003	0.000	0.000	-0.002	G	Passa
N375/N374	27.27	0.000	-5.478	-0.003	-0.001	0.000	0.000	-0.003	G	Passa
N374/N373	28.32	0.000	-5.790	-0.001	-0.001	0.000	0.000	-0.002	G	Passa
N373/N372	30.05	0.000	-6.017	-0.006	-0.001	0.000	0.000	-0.004	G	Passa
N372/N371	29.37	0.000	-5.961	-0.003	-0.001	0.000	0.001	-0.003	G	Passa
N371/N370	29.63	0.000	-5.888	-0.007	0.005	0.000	0.002	-0.004	G	Passa
N370/N358	28.36	0.465	-5.606	-0.019	0.005	0.000	-0.002	0.004	G	Passa
N337/N361	29.69	0.000	-2.545	0.102	-0.007	0.000	-0.004	0.039	G	Passa
N338/N361	10.34	0.000	1.153	0.083	-0.002	0.000	-0.001	0.013	G	Passa
N338/N362	10.83	0.000	-2.219	-0.007	-0.002	0.000	-0.001	-0.004	G	Passa
N341/N362	3.51	0.332	0.822	0.002	0.002	0.000	0.000	0.000	G	Passa
N341/N363	6.32	0.000	-1.279	-0.001	0.000	0.000	0.000	-0.002	G	Passa
N342/N363	2.98	0.378	0.698	-0.002	0.000	0.000	0.000	0.000	G	Passa
N342/N364	5.13	0.000	-1.021	-0.001	0.000	0.000	0.000	-0.002	G	Passa
N343/N364	1.65	0.000	0.324	-0.007	0.000	0.000	0.000	-0.002	G	Passa
N343/N365	2.42	0.000	-0.454	-0.001	0.000	0.000	0.000	-0.002	G	Passa
N344/N365	1.83	0.470	0.277	-0.009	0.000	0.000	0.000	0.002	G	Passa
N344/N366	1.88	0.173	-0.354	0.000	0.000	0.000	0.000	-0.002	G	Passa
N345/N366	1.61	0.000	-0.052	-0.010	0.000	0.000	0.000	-0.002	G	Passa
N345/N367	1.04	0.000	-0.099	0.003	0.000	0.000	0.000	0.001	GV	Passa
N346/N367	1.81	0.562	-0.066	-0.010	0.000	0.000	0.000	0.003	G	Passa
N346/N368	0.92	0.382	0.104	0.000	0.001	0.000	0.000	-0.001	G	Passa
N347/N368	2.66	0.000	-0.370	-0.010	-0.001	0.000	0.000	-0.003	G	Passa
N347/N369	2.00	0.801	0.467	-0.002	0.000	0.000	0.000	-0.001	G	Passa
N348/N369	3.05	0.654	-0.354	-0.011	0.000	0.000	0.000	0.004	G	Passa
N348/N358	1.90	0.839	0.445	-0.005	-0.001	0.000	0.001	0.001	G	Passa
N340/N358	1.90	0.839	0.445	-0.005	0.001	0.000	-0.001	0.001	G	Passa
N340/N370	3.05	0.654	-0.354	-0.011	0.000	0.000	0.000	0.004	G	Passa
N349/N370	2.00	0.801	0.467	-0.002	0.000	0.000	0.000	-0.001	G	Passa
N349/N371	2.66	0.000	-0.370	-0.010	0.001	0.000	0.000	-0.003	G	Passa

Verificação de resistência										
Barra	η (%)	Posição (m)	Esforços desfavoráveis						Origem	Estado
			N (t)	Vy (t)	Vz (t)	Mt (t·m)	My (t·m)	Mz (t·m)		
N350/N371	0.92	0.382	0.104	0.000	-0.001	0.000	0.000	-0.001	G	Passa
N350/N372	1.81	0.562	-0.066	-0.010	0.000	0.000	0.000	0.003	G	Passa
N351/N372	1.04	0.000	-0.099	0.003	0.000	0.000	0.000	0.001	GV	Passa
N351/N373	1.61	0.000	-0.052	-0.010	0.000	0.000	0.000	-0.002	G	Passa
N352/N373	1.88	0.173	-0.354	0.000	0.000	0.000	0.000	-0.002	G	Passa
N352/N374	1.83	0.470	0.277	-0.009	0.000	0.000	0.000	0.002	G	Passa
N353/N374	2.42	0.000	-0.454	-0.001	0.000	0.000	0.000	-0.002	G	Passa
N353/N375	1.65	0.000	0.324	-0.007	0.000	0.000	0.000	-0.002	G	Passa
N354/N375	5.13	0.000	-1.021	-0.001	0.000	0.000	0.000	-0.002	G	Passa
N354/N376	2.98	0.378	0.698	-0.002	0.000	0.000	0.000	0.000	G	Passa
N355/N376	6.32	0.000	-1.279	-0.001	0.000	0.000	0.000	-0.002	G	Passa
N355/N377	3.51	0.332	0.822	0.002	-0.002	0.000	0.000	0.000	G	Passa
N356/N377	10.83	0.000	-2.219	-0.007	0.002	0.000	0.001	-0.004	G	Passa
N356/N378	10.34	0.000	1.153	0.083	0.002	0.000	0.001	0.013	G	Passa
N357/N378	29.69	0.000	-2.545	0.102	0.007	0.000	0.004	0.039	G	Passa
N192/N232	3.91	0.000	0.065	0.000	0.000	0.000	0.000	0.000	GV	Passa
N191/N232	3.91	0.000	0.065	0.000	0.000	0.000	0.000	0.000	GV	Passa
N233/N190	3.97	0.000	0.066	0.000	0.000	0.000	0.000	0.000	GV	Passa
N234/N190	3.97	0.000	0.066	0.000	0.000	0.000	0.000	0.000	GV	Passa
N275/N316	3.93	0.000	0.065	0.000	0.000	0.000	0.000	0.000	GV	Passa
N276/N316	3.93	0.000	0.065	0.000	0.000	0.000	0.000	0.000	GV	Passa
N318/N274	4.04	0.000	0.067	0.000	0.000	0.000	0.000	0.000	GV	Passa
N317/N274	4.04	0.000	0.067	0.000	0.000	0.000	0.000	0.000	GV	Passa
N359/N148	4.27	0.000	0.071	0.000	0.000	0.000	0.000	0.000	GV	Passa
N360/N148	4.27	0.000	0.071	0.000	0.000	0.000	0.000	0.000	GV	Passa
N150/N358	4.33	0.000	0.072	0.000	0.000	0.000	0.000	0.000	GV	Passa
N149/N358	4.33	0.000	0.072	0.000	0.000	0.000	0.000	0.000	GV	Passa

1.1.1.2.- Flechas

Referências:

Pos.: Valor da coordenada sobre o eixo 'X' local do grupo de flecha no ponto onde se produz o valor péssimo da flecha.

L.: Distância entre dois pontos de corte consecutivos da deformada com a reta que une os nós extremos do grupo de flecha.

Flechas								
Grupo	Flecha máxima absoluta xy		Flecha máxima absoluta xz		Flecha ativa absoluta xy		Flecha ativa absoluta xz	
	Flecha máxima relativa xy		Flecha máxima relativa xz		Flecha ativa relativa xy		Flecha ativa relativa xz	
	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)
N1/N2	4.163	2.12	4.625	2.02	4.163	2.84	4.625	3.78

Flechas								
Grupo	Flecha máxima absoluta xy Flecha máxima relativa xy		Flecha máxima absoluta xz Flecha máxima relativa xz		Flecha ativa absoluta xy Flecha ativa relativa xy		Flecha ativa absoluta xz Flecha ativa relativa xz	
	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)
	4.163	L/(>1000)	4.625	L/(>1000)	4.163	L/(>1000)	4.625	L/(>1000)
N3/N4	0.175	0.00	0.350	0.00	0.175	0.00	0.350	0.00
	-	L/(>1000)	0.350	L/(>1000)	-	L/(>1000)	0.350	L/(>1000)
N2/N5	0.120	0.03	0.120	0.01	0.120	0.04	0.120	0.01
	0.120	L/(>1000)	0.120	L/(>1000)	0.120	L/(>1000)	0.120	L/(>1000)
N1/N6	0.120	0.03	0.120	0.01	0.120	0.04	0.120	0.01
	0.120	L/(>1000)	0.120	L/(>1000)	0.120	L/(>1000)	0.120	L/(>1000)
N6/N4	2.324	0.65	0.465	0.07	2.324	0.87	0.465	0.14
	2.324	L/(>1000)	0.465	L/(>1000)	2.324	L/(>1000)	0.465	L/(>1000)
N5/N4	2.324	0.65	0.465	0.07	2.324	0.87	0.465	0.14
	2.324	L/(>1000)	0.465	L/(>1000)	2.324	L/(>1000)	0.465	L/(>1000)
N1/N34	0.272	0.06	0.272	0.03	0.272	0.08	0.272	0.05
	0.272	L/(>1000)	0.272	L/(>1000)	0.272	L/(>1000)	0.272	L/(>1000)
N7/N34	0.143	0.00	0.143	0.00	0.143	0.00	0.143	0.01
	0.143	L/(>1000)	0.143	L/(>1000)	0.143	L/(>1000)	0.143	L/(>1000)
N7/N35	0.285	0.01	0.285	0.04	0.285	0.01	0.285	0.08
	0.285	L/(>1000)	0.285	L/(>1000)	0.285	L/(>1000)	0.285	L/(>1000)
N8/N35	0.166	0.00	0.166	0.00	0.166	0.00	0.166	0.00
	0.166	L/(>1000)	0.166	L/(>1000)	0.166	L/(>1000)	0.166	L/(>1000)
N8/N36	0.299	0.01	0.299	0.03	0.299	0.01	0.299	0.06
	0.299	L/(>1000)	0.299	L/(>1000)	0.299	L/(>1000)	0.299	L/(>1000)
N9/N36	0.189	0.00	0.189	0.01	0.189	0.00	0.189	0.01
	0.189	L/(>1000)	0.189	L/(>1000)	0.189	L/(>1000)	0.189	L/(>1000)
N9/N37	0.314	0.01	0.314	0.03	0.314	0.01	0.314	0.06
	0.314	L/(>1000)	0.314	L/(>1000)	0.314	L/(>1000)	0.314	L/(>1000)
N10/N37	0.212	0.00	0.212	0.00	0.212	0.00	0.212	0.01
	0.212	L/(>1000)	0.212	L/(>1000)	0.212	L/(>1000)	0.212	L/(>1000)
N10/N38	0.330	0.01	0.330	0.02	0.330	0.01	0.330	0.04
	0.330	L/(>1000)	0.330	L/(>1000)	0.330	L/(>1000)	0.330	L/(>1000)
N11/N38	0.235	0.00	0.235	0.01	0.235	0.00	0.235	0.01
	0.235	L/(>1000)	0.235	L/(>1000)	0.235	L/(>1000)	0.235	L/(>1000)
N11/N39	0.346	0.01	0.346	0.02	0.346	0.01	0.346	0.03
	0.346	L/(>1000)	0.346	L/(>1000)	0.346	L/(>1000)	0.346	L/(>1000)
N12/N39	0.258	0.00	0.258	0.00	0.258	0.00	0.258	0.00
	0.258	L/(>1000)	0.258	L/(>1000)	0.258	L/(>1000)	0.258	L/(>1000)
N12/N40	0.364	0.01	0.364	0.01	0.364	0.01	0.364	0.02
	0.364	L/(>1000)	0.364	L/(>1000)	0.364	L/(>1000)	0.364	L/(>1000)
N13/N40	0.281	0.00	0.281	0.00	0.281	0.00	0.281	0.00
	0.281	L/(>1000)	0.281	L/(>1000)	0.281	L/(>1000)	0.281	L/(>1000)
N13/N41	0.382	0.01	0.382	0.00	0.382	0.01	0.382	0.01
	0.382	L/(>1000)	0.382	L/(>1000)	0.382	L/(>1000)	0.382	L/(>1000)
N14/N41	0.456	0.00	0.304	0.00	0.152	0.00	0.304	0.01
	0.456	L/(>1000)	0.304	L/(>1000)	0.456	L/(>1000)	0.304	L/(>1000)
N14/N42	0.401	0.01	0.401	0.00	0.401	0.01	0.401	0.00

Flechas								
Grupo	Flecha máxima absoluta xy Flecha máxima relativa xy		Flecha máxima absoluta xz Flecha máxima relativa xz		Flecha ativa absoluta xy Flecha ativa relativa xy		Flecha ativa absoluta xz Flecha ativa relativa xz	
	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)
	0.401	L/(>1000)	0.401	L/(>1000)	0.401	L/(>1000)	0.401	L/(>1000)
N15/N42	0.491	0.00	0.327	0.00	0.491	0.00	0.327	0.00
	0.491	L/(>1000)	0.327	L/(>1000)	0.491	L/(>1000)	0.327	L/(>1000)
N15/N4	0.419	0.01	0.419	0.00	0.210	0.00	0.419	0.01
	0.419	L/(>1000)	0.419	L/(>1000)	0.210	L/(>1000)	0.629	L/(>1000)
N16/N4	0.419	0.01	0.419	0.00	0.210	0.00	0.419	0.01
	0.419	L/(>1000)	0.419	L/(>1000)	0.210	L/(>1000)	0.629	L/(>1000)
N16/N25	0.491	0.00	0.327	0.00	0.491	0.00	0.327	0.00
	0.491	L/(>1000)	0.327	L/(>1000)	0.491	L/(>1000)	0.327	L/(>1000)
N17/N25	0.401	0.01	0.401	0.00	0.401	0.01	0.401	0.00
	0.401	L/(>1000)	0.401	L/(>1000)	0.401	L/(>1000)	0.401	L/(>1000)
N17/N26	0.456	0.00	0.304	0.00	0.152	0.00	0.304	0.01
	0.456	L/(>1000)	0.304	L/(>1000)	0.456	L/(>1000)	0.304	L/(>1000)
N18/N26	0.382	0.01	0.382	0.00	0.382	0.01	0.382	0.01
	0.382	L/(>1000)	0.382	L/(>1000)	0.382	L/(>1000)	0.382	L/(>1000)
N18/N27	0.281	0.00	0.281	0.00	0.281	0.00	0.281	0.00
	0.281	L/(>1000)	0.281	L/(>1000)	0.281	L/(>1000)	0.281	L/(>1000)
N19/N27	0.364	0.01	0.364	0.01	0.364	0.01	0.364	0.02
	0.364	L/(>1000)	0.364	L/(>1000)	0.364	L/(>1000)	0.364	L/(>1000)
N19/N28	0.258	0.00	0.258	0.00	0.258	0.00	0.258	0.00
	0.258	L/(>1000)	0.258	L/(>1000)	0.258	L/(>1000)	0.258	L/(>1000)
N20/N28	0.346	0.01	0.346	0.02	0.346	0.01	0.346	0.03
	0.346	L/(>1000)	0.346	L/(>1000)	0.346	L/(>1000)	0.346	L/(>1000)
N20/N29	0.235	0.00	0.235	0.01	0.235	0.00	0.235	0.01
	0.235	L/(>1000)	0.235	L/(>1000)	0.235	L/(>1000)	0.235	L/(>1000)
N21/N29	0.330	0.01	0.330	0.02	0.330	0.01	0.330	0.04
	0.330	L/(>1000)	0.330	L/(>1000)	0.330	L/(>1000)	0.330	L/(>1000)
N21/N30	0.212	0.00	0.212	0.00	0.212	0.00	0.212	0.01
	0.212	L/(>1000)	0.212	L/(>1000)	0.212	L/(>1000)	0.212	L/(>1000)
N22/N30	0.314	0.01	0.314	0.03	0.314	0.01	0.314	0.06
	0.314	L/(>1000)	0.314	L/(>1000)	0.314	L/(>1000)	0.314	L/(>1000)
N22/N31	0.189	0.00	0.189	0.01	0.189	0.00	0.189	0.01
	0.189	L/(>1000)	0.189	L/(>1000)	0.189	L/(>1000)	0.189	L/(>1000)
N23/N31	0.299	0.01	0.299	0.03	0.299	0.01	0.299	0.06
	0.299	L/(>1000)	0.299	L/(>1000)	0.299	L/(>1000)	0.299	L/(>1000)
N23/N32	0.166	0.00	0.166	0.00	0.166	0.00	0.166	0.00
	0.166	L/(>1000)	0.166	L/(>1000)	0.166	L/(>1000)	0.166	L/(>1000)
N24/N32	0.285	0.01	0.285	0.04	0.285	0.01	0.285	0.08
	0.285	L/(>1000)	0.285	L/(>1000)	0.285	L/(>1000)	0.285	L/(>1000)
N24/N33	0.143	0.00	0.143	0.00	0.143	0.00	0.143	0.01
	0.143	L/(>1000)	0.143	L/(>1000)	0.143	L/(>1000)	0.143	L/(>1000)
N2/N33	0.272	0.06	0.272	0.03	0.272	0.08	0.272	0.05
	0.272	L/(>1000)	0.272	L/(>1000)	0.272	L/(>1000)	0.272	L/(>1000)
N85/N105	4.163	4.37	4.625	0.40	4.163	7.05	4.625	0.76

Flechas								
Grupo	Flecha máxima absoluta xy Flecha máxima relativa xy		Flecha máxima absoluta xz Flecha máxima relativa xz		Flecha ativa absoluta xy Flecha ativa relativa xy		Flecha ativa absoluta xz Flecha ativa relativa xz	
	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)
	4.163	L/(>1000)	4.625	L/(>1000)	4.163	L/(>1000)	4.625	L/(>1000)
N87/N106	0.525	0.00	0.350	0.00	0.525	0.00	0.350	0.00
	-	L/(>1000)	0.350	L/(>1000)	-	L/(>1000)	0.350	L/(>1000)
N105/N107	0.120	0.06	0.120	0.00	0.120	0.09	0.120	0.00
	0.120	L/(>1000)	0.120	L/(>1000)	0.120	L/(>1000)	0.120	L/(>1000)
N85/N108	0.120	0.06	0.120	0.00	0.120	0.09	0.120	0.00
	0.120	L/(>1000)	0.120	L/(>1000)	0.120	L/(>1000)	0.120	L/(>1000)
N108/N106	2.324	1.33	1.162	0.03	2.324	2.16	1.162	0.06
	2.324	L/(>1000)	1.162	L/(>1000)	2.324	L/(>1000)	1.162	L/(>1000)
N107/N106	2.324	1.33	1.162	0.03	2.324	2.16	1.162	0.06
	2.324	L/(>1000)	1.162	L/(>1000)	2.324	L/(>1000)	1.162	L/(>1000)
N85/N109	0.272	0.12	0.272	0.00	0.272	0.20	0.272	0.00
	0.272	L/(>1000)	0.272	L/(>1000)	0.272	L/(>1000)	0.272	L/(>1000)
N86/N109	0.143	0.00	0.143	0.00	0.143	0.01	0.143	0.00
	0.143	L/(>1000)	0.143	L/(>1000)	0.143	L/(>1000)	0.143	L/(>1000)
N86/N110	0.285	0.02	0.285	0.01	0.285	0.03	0.285	0.02
	0.285	L/(>1000)	0.285	L/(>1000)	0.285	L/(>1000)	0.285	L/(>1000)
N89/N110	0.166	0.00	0.166	0.00	0.166	0.00	0.166	0.00
	0.166	L/(>1000)	0.166	L/(>1000)	0.166	L/(>1000)	0.166	L/(>1000)
N89/N111	0.299	0.01	0.299	0.01	0.299	0.02	0.299	0.02
	0.299	L/(>1000)	0.299	L/(>1000)	0.299	L/(>1000)	0.299	L/(>1000)
N90/N111	0.189	0.00	0.189	0.00	0.189	0.00	0.189	0.00
	0.189	L/(>1000)	0.189	L/(>1000)	0.189	L/(>1000)	0.189	L/(>1000)
N90/N112	0.314	0.02	0.314	0.01	0.314	0.03	0.314	0.02
	0.314	L/(>1000)	0.314	L/(>1000)	0.314	L/(>1000)	0.314	L/(>1000)
N91/N112	0.212	0.00	0.212	0.00	0.212	0.00	0.212	0.00
	0.212	L/(>1000)	0.212	L/(>1000)	0.212	L/(>1000)	0.212	L/(>1000)
N91/N113	0.330	0.02	0.330	0.00	0.330	0.03	0.330	0.01
	0.330	L/(>1000)	0.330	L/(>1000)	0.330	L/(>1000)	0.330	L/(>1000)
N92/N113	0.235	0.00	0.235	0.00	0.235	0.00	0.235	0.00
	0.235	L/(>1000)	0.235	L/(>1000)	0.235	L/(>1000)	0.235	L/(>1000)
N92/N114	0.346	0.02	0.346	0.00	0.346	0.03	0.346	0.00
	0.346	L/(>1000)	0.346	L/(>1000)	0.346	L/(>1000)	0.346	L/(>1000)
N93/N114	0.258	0.00	0.258	0.00	0.258	0.00	0.258	0.00
	0.258	L/(>1000)	0.258	L/(>1000)	0.258	L/(>1000)	0.258	L/(>1000)
N93/N115	0.364	0.02	0.364	0.00	0.364	0.03	0.364	0.00
	0.364	L/(>1000)	0.364	L/(>1000)	0.364	L/(>1000)	0.364	L/(>1000)
N94/N115	0.281	0.00	0.281	0.00	0.281	0.00	0.281	0.00
	0.281	L/(>1000)	0.281	L/(>1000)	0.281	L/(>1000)	0.281	L/(>1000)
N94/N116	0.382	0.02	0.382	0.00	0.382	0.03	0.382	0.00
	0.382	L/(>1000)	0.382	L/(>1000)	0.382	L/(>1000)	0.382	L/(>1000)
N95/N116	0.152	0.00	0.304	0.00	0.152	0.01	0.304	0.00
	0.152	L/(>1000)	0.304	L/(>1000)	0.456	L/(>1000)	0.304	L/(>1000)
N95/N117	0.401	0.02	0.401	0.00	0.401	0.03	0.401	0.01

Flechas								
Grupo	Flecha máxima absoluta xy Flecha máxima relativa xy		Flecha máxima absoluta xz Flecha máxima relativa xz		Flecha ativa absoluta xy Flecha ativa relativa xy		Flecha ativa absoluta xz Flecha ativa relativa xz	
	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)
	0.401	L/(>1000)	0.401	L/(>1000)	0.401	L/(>1000)	0.401	L/(>1000)
N96/N117	0.491	0.01	0.327	0.00	0.491	0.01	0.327	0.00
	0.491	L/(>1000)	0.327	L/(>1000)	0.491	L/(>1000)	0.327	L/(>1000)
N96/N106	0.419	0.01	0.629	0.00	0.210	0.01	0.629	0.00
	0.419	L/(>1000)	0.629	L/(>1000)	0.210	L/(>1000)	0.629	L/(>1000)
N88/N106	0.419	0.01	0.629	0.00	0.210	0.01	0.629	0.00
	0.419	L/(>1000)	0.629	L/(>1000)	0.210	L/(>1000)	0.629	L/(>1000)
N88/N118	0.491	0.01	0.327	0.00	0.491	0.01	0.327	0.00
	0.491	L/(>1000)	0.327	L/(>1000)	0.491	L/(>1000)	0.327	L/(>1000)
N97/N118	0.401	0.02	0.401	0.00	0.401	0.03	0.401	0.01
	0.401	L/(>1000)	0.401	L/(>1000)	0.401	L/(>1000)	0.401	L/(>1000)
N97/N119	0.152	0.00	0.304	0.00	0.152	0.01	0.304	0.00
	0.152	L/(>1000)	0.304	L/(>1000)	0.456	L/(>1000)	0.304	L/(>1000)
N98/N119	0.382	0.02	0.382	0.00	0.382	0.03	0.382	0.00
	0.382	L/(>1000)	0.382	L/(>1000)	0.382	L/(>1000)	0.382	L/(>1000)
N98/N120	0.281	0.00	0.281	0.00	0.281	0.00	0.281	0.00
	0.281	L/(>1000)	0.281	L/(>1000)	0.281	L/(>1000)	0.281	L/(>1000)
N99/N120	0.364	0.02	0.364	0.00	0.364	0.03	0.364	0.00
	0.364	L/(>1000)	0.364	L/(>1000)	0.364	L/(>1000)	0.364	L/(>1000)
N99/N121	0.258	0.00	0.258	0.00	0.258	0.00	0.258	0.00
	0.258	L/(>1000)	0.258	L/(>1000)	0.258	L/(>1000)	0.258	L/(>1000)
N100/N12 1	0.346	0.02	0.346	0.00	0.346	0.03	0.346	0.00
	0.346	L/(>1000)	0.346	L/(>1000)	0.346	L/(>1000)	0.346	L/(>1000)
N100/N12 2	0.235	0.00	0.235	0.00	0.235	0.00	0.235	0.00
	0.235	L/(>1000)	0.235	L/(>1000)	0.235	L/(>1000)	0.235	L/(>1000)
N101/N12 2	0.330	0.02	0.330	0.00	0.330	0.03	0.330	0.01
	0.330	L/(>1000)	0.330	L/(>1000)	0.330	L/(>1000)	0.330	L/(>1000)
N101/N12 3	0.212	0.00	0.212	0.00	0.212	0.00	0.212	0.00
	0.212	L/(>1000)	0.212	L/(>1000)	0.212	L/(>1000)	0.212	L/(>1000)
N102/N12 3	0.314	0.02	0.314	0.01	0.314	0.03	0.314	0.02
	0.314	L/(>1000)	0.314	L/(>1000)	0.314	L/(>1000)	0.314	L/(>1000)
N102/N12 4	0.189	0.00	0.189	0.00	0.189	0.00	0.189	0.00
	0.189	L/(>1000)	0.189	L/(>1000)	0.189	L/(>1000)	0.189	L/(>1000)
N103/N12 4	0.299	0.01	0.299	0.01	0.299	0.02	0.299	0.02
	0.299	L/(>1000)	0.299	L/(>1000)	0.299	L/(>1000)	0.299	L/(>1000)
N103/N12 5	0.166	0.00	0.166	0.00	0.166	0.00	0.166	0.00
	0.166	L/(>1000)	0.166	L/(>1000)	0.166	L/(>1000)	0.166	L/(>1000)
N104/N12 5	0.285	0.02	0.285	0.01	0.285	0.03	0.285	0.02
	0.285	L/(>1000)	0.285	L/(>1000)	0.285	L/(>1000)	0.285	L/(>1000)
N104/N12 6	0.143	0.00	0.143	0.00	0.143	0.01	0.143	0.00
	0.143	L/(>1000)	0.143	L/(>1000)	0.143	L/(>1000)	0.143	L/(>1000)
N105/N12 6	0.272	0.12	0.272	0.00	0.272	0.20	0.272	0.00
	0.272	L/(>1000)	0.272	L/(>1000)	0.272	L/(>1000)	0.272	L/(>1000)
N253/N27	4.163	3.85	6.013	0.01	4.163	6.08	5.781	0.01

Flechas								
Grupo	Flecha máxima absoluta xy Flecha máxima relativa xy		Flecha máxima absoluta xz Flecha máxima relativa xz		Flecha ativa absoluta xy Flecha ativa relativa xy		Flecha ativa absoluta xz Flecha ativa relativa xz	
	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)
3	4.163	L/(>1000)	6.013	L/(>1000)	4.163	L/(>1000)	6.013	L/(>1000)
N255/N27	0.350	0.00	0.350	0.00	0.350	0.00	0.350	0.00
4	-	L/(>1000)	0.350	L/(>1000)	-	L/(>1000)	0.350	L/(>1000)
N273/N27	0.120	0.05	0.120	0.00	0.120	0.08	0.120	0.00
5	0.120	L/(>1000)	0.120	L/(>1000)	0.120	L/(>1000)	0.120	L/(>1000)
N253/N27	0.120	0.05	0.120	0.00	0.120	0.08	0.120	0.00
6	0.120	L/(>1000)	0.120	L/(>1000)	0.120	L/(>1000)	0.120	L/(>1000)
N276/N27	2.324	1.18	3.486	0.01	2.324	1.87	3.486	0.01
4	2.324	L/(>1000)	3.486	L/(>1000)	2.324	L/(>1000)	3.486	L/(>1000)
N275/N27	2.324	1.18	3.486	0.01	2.324	1.87	3.486	0.01
4	2.324	L/(>1000)	3.486	L/(>1000)	2.324	L/(>1000)	3.486	L/(>1000)
N253/N27	0.272	0.11	0.272	0.00	0.272	0.17	0.272	0.00
7	0.272	L/(>1000)	0.272	L/(>1000)	0.272	L/(>1000)	0.272	L/(>1000)
N254/N27	0.143	0.00	0.143	0.00	0.143	0.01	0.143	0.00
7	0.143	L/(>1000)	0.143	L/(>1000)	0.143	L/(>1000)	0.143	L/(>1000)
N254/N27	0.285	0.02	0.285	0.00	0.285	0.02	0.285	0.00
8	0.285	L/(>1000)	0.285	L/(>1000)	0.285	L/(>1000)	0.285	L/(>1000)
N257/N27	0.166	0.00	0.166	0.00	0.166	0.00	0.166	0.00
8	0.166	L/(>1000)	-	L/(>1000)	0.166	L/(>1000)	-	L/(>1000)
N257/N27	0.299	0.01	0.299	0.00	0.299	0.02	0.299	0.00
9	0.299	L/(>1000)	0.299	L/(>1000)	0.299	L/(>1000)	0.299	L/(>1000)
N258/N27	0.189	0.00	0.189	0.00	0.189	0.00	0.189	0.00
9	0.189	L/(>1000)	-	L/(>1000)	0.189	L/(>1000)	-	L/(>1000)
N258/N28	0.314	0.02	0.314	0.00	0.314	0.03	0.314	0.00
0	0.314	L/(>1000)	-	L/(>1000)	0.314	L/(>1000)	-	L/(>1000)
N259/N28	0.212	0.00	0.212	0.00	0.212	0.00	0.212	0.00
0	0.212	L/(>1000)	0.212	L/(>1000)	0.212	L/(>1000)	0.212	L/(>1000)
N259/N28	0.330	0.02	0.330	0.00	0.330	0.03	0.495	0.00
1	0.330	L/(>1000)	-	L/(>1000)	0.330	L/(>1000)	-	L/(>1000)
N260/N28	0.235	0.00	0.235	0.00	0.235	0.00	0.235	0.00
1	0.235	L/(>1000)	-	L/(>1000)	0.235	L/(>1000)	-	L/(>1000)
N260/N28	0.346	0.02	0.346	0.00	0.346	0.03	0.346	0.00
2	0.346	L/(>1000)	0.346	L/(>1000)	0.346	L/(>1000)	0.346	L/(>1000)
N261/N28	0.258	0.00	0.258	0.00	0.258	0.00	0.258	0.00
2	0.258	L/(>1000)	0.258	L/(>1000)	0.258	L/(>1000)	0.258	L/(>1000)
N261/N28	0.364	0.02	0.364	0.00	0.364	0.03	0.364	0.00
3	0.364	L/(>1000)	0.364	L/(>1000)	0.364	L/(>1000)	0.364	L/(>1000)
N262/N28	0.281	0.00	0.281	0.00	0.281	0.00	0.281	0.00
3	0.281	L/(>1000)	0.281	L/(>1000)	0.281	L/(>1000)	0.281	L/(>1000)
N262/N28	0.382	0.02	0.382	0.00	0.382	0.03	0.382	0.00
4	0.382	L/(>1000)	0.382	L/(>1000)	0.382	L/(>1000)	0.382	L/(>1000)
N263/N28	0.456	0.00	0.304	0.00	0.152	0.01	0.304	0.00
4	0.456	L/(>1000)	0.304	L/(>1000)	0.456	L/(>1000)	0.304	L/(>1000)
N263/N28	0.401	0.02	0.401	0.00	0.401	0.03	0.401	0.00

Flechas								
Grupo	Flecha máxima absoluta xy Flecha máxima relativa xy		Flecha máxima absoluta xz Flecha máxima relativa xz		Flecha ativa absoluta xy Flecha ativa relativa xy		Flecha ativa absoluta xz Flecha ativa relativa xz	
	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)
5	0.401	L/(>1000)	0.401	L/(>1000)	0.401	L/(>1000)	0.401	L/(>1000)
N264/N28	0.491	0.01	0.327	0.00	0.491	0.01	0.327	0.00
5	0.491	L/(>1000)	0.327	L/(>1000)	0.491	L/(>1000)	0.327	L/(>1000)
N264/N27	0.419	0.01	0.210	0.00	0.210	0.01	0.210	0.00
4	0.419	L/(>1000)	0.210	L/(>1000)	0.419	L/(>1000)	0.210	L/(>1000)
N256/N27	0.419	0.01	0.210	0.00	0.210	0.01	0.210	0.00
4	0.419	L/(>1000)	0.210	L/(>1000)	0.419	L/(>1000)	0.210	L/(>1000)
N256/N28	0.491	0.01	0.327	0.00	0.491	0.01	0.327	0.00
6	0.491	L/(>1000)	0.327	L/(>1000)	0.491	L/(>1000)	0.327	L/(>1000)
N265/N28	0.401	0.02	0.401	0.00	0.401	0.03	0.401	0.00
6	0.401	L/(>1000)	0.401	L/(>1000)	0.401	L/(>1000)	0.401	L/(>1000)
N265/N28	0.456	0.00	0.304	0.00	0.152	0.01	0.304	0.00
7	0.456	L/(>1000)	0.304	L/(>1000)	0.456	L/(>1000)	0.304	L/(>1000)
N266/N28	0.382	0.02	0.382	0.00	0.382	0.03	0.382	0.00
7	0.382	L/(>1000)	0.382	L/(>1000)	0.382	L/(>1000)	0.382	L/(>1000)
N266/N28	0.281	0.00	0.281	0.00	0.281	0.00	0.281	0.00
8	0.281	L/(>1000)	0.281	L/(>1000)	0.281	L/(>1000)	0.281	L/(>1000)
N267/N28	0.364	0.02	0.364	0.00	0.364	0.03	0.364	0.00
8	0.364	L/(>1000)	0.364	L/(>1000)	0.364	L/(>1000)	0.364	L/(>1000)
N267/N28	0.258	0.00	0.258	0.00	0.258	0.00	0.258	0.00
9	0.258	L/(>1000)	0.258	L/(>1000)	0.258	L/(>1000)	0.258	L/(>1000)
N268/N28	0.346	0.02	0.346	0.00	0.346	0.03	0.346	0.00
9	0.346	L/(>1000)	0.346	L/(>1000)	0.346	L/(>1000)	0.346	L/(>1000)
N268/N29	0.235	0.00	0.235	0.00	0.235	0.00	0.235	0.00
0	0.235	L/(>1000)	-	L/(>1000)	0.235	L/(>1000)	-	L/(>1000)
N269/N29	0.330	0.02	0.330	0.00	0.330	0.03	0.495	0.00
0	0.330	L/(>1000)	-	L/(>1000)	0.330	L/(>1000)	-	L/(>1000)
N269/N29	0.212	0.00	0.212	0.00	0.212	0.00	0.212	0.00
1	0.212	L/(>1000)	0.212	L/(>1000)	0.212	L/(>1000)	0.212	L/(>1000)
N270/N29	0.314	0.02	0.314	0.00	0.314	0.03	0.314	0.00
1	0.314	L/(>1000)	-	L/(>1000)	0.314	L/(>1000)	-	L/(>1000)
N270/N29	0.189	0.00	0.189	0.00	0.189	0.00	0.189	0.00
2	0.189	L/(>1000)	-	L/(>1000)	0.189	L/(>1000)	-	L/(>1000)
N271/N29	0.299	0.01	0.299	0.00	0.299	0.02	0.299	0.00
2	0.299	L/(>1000)	0.299	L/(>1000)	0.299	L/(>1000)	0.299	L/(>1000)
N271/N29	0.166	0.00	0.166	0.00	0.166	0.00	0.166	0.00
3	0.166	L/(>1000)	-	L/(>1000)	0.166	L/(>1000)	-	L/(>1000)
N272/N29	0.285	0.02	0.285	0.00	0.285	0.02	0.285	0.00
3	0.285	L/(>1000)	0.285	L/(>1000)	0.285	L/(>1000)	0.285	L/(>1000)
N272/N29	0.143	0.00	0.143	0.00	0.143	0.01	0.143	0.00
4	0.143	L/(>1000)	0.143	L/(>1000)	0.143	L/(>1000)	0.143	L/(>1000)
N273/N29	0.272	0.11	0.272	0.00	0.272	0.17	0.272	0.00
4	0.272	L/(>1000)	0.272	L/(>1000)	0.272	L/(>1000)	0.272	L/(>1000)
N295/N31	4.163	3.85	4.625	0.02	4.163	6.08	4.625	0.03

Flechas								
Grupo	Flecha máxima absoluta xy Flecha máxima relativa xy		Flecha máxima absoluta xz Flecha máxima relativa xz		Flecha ativa absoluta xy Flecha ativa relativa xy		Flecha ativa absoluta xz Flecha ativa relativa xz	
	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)
5	4.163	L/(>1000)	4.625	L/(>1000)	5.088	L/(>1000)	4.625	L/(>1000)
N297/N316	0.350 -	0.00 L/(>1000)	0.350 0.350	0.00 L/(>1000)	0.350 -	0.00 L/(>1000)	0.350 0.350	0.00 L/(>1000)
N315/N317	0.120 0.120	0.05 L/(>1000)	0.120 0.120	0.00 L/(>1000)	0.120 0.120	0.08 L/(>1000)	0.120 0.120	0.00 L/(>1000)
N295/N318	0.120 0.120	0.05 L/(>1000)	0.120 0.120	0.00 L/(>1000)	0.120 0.120	0.08 L/(>1000)	0.120 0.120	0.00 L/(>1000)
N318/N316	2.324 2.324	1.18 L/(>1000)	1.162 1.162	0.01 L/(>1000)	2.324 2.324	1.87 L/(>1000)	1.162 1.162	0.02 L/(>1000)
N317/N316	2.324 2.324	1.18 L/(>1000)	1.162 1.162	0.01 L/(>1000)	2.324 2.324	1.87 L/(>1000)	1.162 1.162	0.02 L/(>1000)
N295/N319	0.272 0.272	0.11 L/(>1000)	0.272 0.272	0.00 L/(>1000)	0.272 0.272	0.17 L/(>1000)	0.272 0.272	0.00 L/(>1000)
N296/N319	0.143 0.143	0.00 L/(>1000)	0.143 0.143	0.00 L/(>1000)	0.143 0.143	0.01 L/(>1000)	0.143 0.143	0.00 L/(>1000)
N296/N320	0.285 0.285	0.02 L/(>1000)	0.285 0.285	0.00 L/(>1000)	0.285 0.285	0.02 L/(>1000)	0.285 0.285	0.00 L/(>1000)
N299/N320	0.166 0.166	0.00 L/(>1000)	0.166 0.166	0.00 L/(>1000)	0.166 0.166	0.00 L/(>1000)	0.166 0.166	0.00 L/(>1000)
N299/N321	0.299 0.299	0.01 L/(>1000)	0.299 0.299	0.00 L/(>1000)	0.299 0.299	0.02 L/(>1000)	0.299 0.299	0.00 L/(>1000)
N300/N321	0.189 0.189	0.00 L/(>1000)	0.189 0.189	0.00 L/(>1000)	0.189 0.189	0.00 L/(>1000)	0.189 0.189	0.00 L/(>1000)
N300/N322	0.314 0.314	0.02 L/(>1000)	0.314 0.314	0.00 L/(>1000)	0.314 0.314	0.03 L/(>1000)	0.314 0.314	0.00 L/(>1000)
N301/N322	0.212 0.212	0.00 L/(>1000)	0.212 0.212	0.00 L/(>1000)	0.212 0.212	0.00 L/(>1000)	0.212 0.212	0.00 L/(>1000)
N301/N323	0.330 0.330	0.02 L/(>1000)	0.330 0.330	0.00 L/(>1000)	0.330 0.330	0.03 L/(>1000)	0.330 0.330	0.00 L/(>1000)
N302/N323	0.235 0.235	0.00 L/(>1000)	0.235 -	0.00 L/(>1000)	0.235 0.235	0.00 L/(>1000)	0.235 -	0.00 L/(>1000)
N302/N324	0.346 0.346	0.02 L/(>1000)	0.346 0.346	0.00 L/(>1000)	0.346 0.346	0.03 L/(>1000)	0.346 0.346	0.00 L/(>1000)
N303/N324	0.258 0.258	0.00 L/(>1000)	0.258 0.258	0.00 L/(>1000)	0.258 0.258	0.00 L/(>1000)	0.258 0.258	0.00 L/(>1000)
N303/N325	0.364 0.364	0.02 L/(>1000)	0.364 0.364	0.00 L/(>1000)	0.364 0.364	0.03 L/(>1000)	0.364 0.364	0.00 L/(>1000)
N304/N325	0.281 0.281	0.00 L/(>1000)	0.281 0.281	0.00 L/(>1000)	0.281 0.281	0.00 L/(>1000)	0.281 0.281	0.00 L/(>1000)
N304/N326	0.382 0.382	0.02 L/(>1000)	0.382 0.382	0.00 L/(>1000)	0.382 0.382	0.03 L/(>1000)	0.382 0.382	0.00 L/(>1000)
N305/N326	0.456 0.456	0.00 L/(>1000)	0.304 0.304	0.00 L/(>1000)	0.152 0.456	0.01 L/(>1000)	0.304 0.304	0.00 L/(>1000)
N305/N32	0.401	0.02	0.401	0.00	0.401	0.03	0.601	0.00

Flechas								
Grupo	Flecha máxima absoluta xy Flecha máxima relativa xy		Flecha máxima absoluta xz Flecha máxima relativa xz		Flecha ativa absoluta xy Flecha ativa relativa xy		Flecha ativa absoluta xz Flecha ativa relativa xz	
	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)
7	0.401	L/(>1000)	0.401	L/(>1000)	0.401	L/(>1000)	0.601	L/(>1000)
N306/N32	0.491	0.01	0.327	0.00	0.491	0.01	0.327	0.00
7	0.491	L/(>1000)	0.327	L/(>1000)	0.491	L/(>1000)	0.327	L/(>1000)
N306/N31	0.419	0.01	0.419	0.00	0.210	0.01	0.419	0.00
6	0.419	L/(>1000)	0.419	L/(>1000)	0.419	L/(>1000)	0.210	L/(>1000)
N298/N31	0.419	0.01	0.419	0.00	0.210	0.01	0.419	0.00
6	0.419	L/(>1000)	0.419	L/(>1000)	0.419	L/(>1000)	0.210	L/(>1000)
N298/N32	0.491	0.01	0.327	0.00	0.491	0.01	0.327	0.00
8	0.491	L/(>1000)	0.327	L/(>1000)	0.491	L/(>1000)	0.327	L/(>1000)
N307/N32	0.401	0.02	0.401	0.00	0.401	0.03	0.601	0.00
8	0.401	L/(>1000)	0.401	L/(>1000)	0.401	L/(>1000)	0.601	L/(>1000)
N307/N32	0.456	0.00	0.304	0.00	0.152	0.01	0.304	0.00
9	0.456	L/(>1000)	0.304	L/(>1000)	0.456	L/(>1000)	0.304	L/(>1000)
N308/N32	0.382	0.02	0.382	0.00	0.382	0.03	0.382	0.00
9	0.382	L/(>1000)	0.382	L/(>1000)	0.382	L/(>1000)	0.382	L/(>1000)
N308/N33	0.281	0.00	0.281	0.00	0.281	0.00	0.281	0.00
0	0.281	L/(>1000)	0.281	L/(>1000)	0.281	L/(>1000)	0.281	L/(>1000)
N309/N33	0.364	0.02	0.364	0.00	0.364	0.03	0.364	0.00
0	0.364	L/(>1000)	0.364	L/(>1000)	0.364	L/(>1000)	0.364	L/(>1000)
N309/N33	0.258	0.00	0.258	0.00	0.258	0.00	0.258	0.00
1	0.258	L/(>1000)	0.258	L/(>1000)	0.258	L/(>1000)	0.258	L/(>1000)
N310/N33	0.346	0.02	0.346	0.00	0.346	0.03	0.346	0.00
1	0.346	L/(>1000)	0.346	L/(>1000)	0.346	L/(>1000)	0.346	L/(>1000)
N310/N33	0.235	0.00	0.235	0.00	0.235	0.00	0.235	0.00
2	0.235	L/(>1000)	-	L/(>1000)	0.235	L/(>1000)	-	L/(>1000)
N311/N33	0.330	0.02	0.330	0.00	0.330	0.03	0.330	0.00
2	0.330	L/(>1000)	0.330	L/(>1000)	0.330	L/(>1000)	0.330	L/(>1000)
N311/N33	0.212	0.00	0.212	0.00	0.212	0.00	0.212	0.00
3	0.212	L/(>1000)	0.212	L/(>1000)	0.212	L/(>1000)	0.212	L/(>1000)
N312/N33	0.314	0.02	0.314	0.00	0.314	0.03	0.314	0.00
3	0.314	L/(>1000)	0.314	L/(>1000)	0.314	L/(>1000)	0.314	L/(>1000)
N312/N33	0.189	0.00	0.189	0.00	0.189	0.00	0.189	0.00
4	0.189	L/(>1000)	0.189	L/(>1000)	0.189	L/(>1000)	0.189	L/(>1000)
N313/N33	0.299	0.01	0.299	0.00	0.299	0.02	0.299	0.00
4	0.299	L/(>1000)	0.299	L/(>1000)	0.299	L/(>1000)	0.299	L/(>1000)
N313/N33	0.166	0.00	0.166	0.00	0.166	0.00	0.166	0.00
5	0.166	L/(>1000)	0.166	L/(>1000)	0.166	L/(>1000)	0.166	L/(>1000)
N314/N33	0.285	0.02	0.285	0.00	0.285	0.02	0.285	0.00
5	0.285	L/(>1000)	0.285	L/(>1000)	0.285	L/(>1000)	0.285	L/(>1000)
N314/N33	0.143	0.00	0.143	0.00	0.143	0.01	0.143	0.00
6	0.143	L/(>1000)	0.143	L/(>1000)	0.143	L/(>1000)	0.143	L/(>1000)
N315/N33	0.272	0.11	0.272	0.00	0.272	0.17	0.272	0.00
6	0.272	L/(>1000)	0.272	L/(>1000)	0.272	L/(>1000)	0.272	L/(>1000)
N127/N14	5.088	4.36	4.625	0.38	5.088	7.03	4.625	0.72

Flechas								
Grupo	Flecha máxima absoluta xy Flecha máxima relativa xy		Flecha máxima absoluta xz Flecha máxima relativa xz		Flecha ativa absoluta xy Flecha ativa relativa xy		Flecha ativa absoluta xz Flecha ativa relativa xz	
	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)
7	5.088	L/(>1000)	4.625	L/(>1000)	5.088	L/(>1000)	4.625	L/(>1000)
N129/N148	0.350 -	0.00 L/(>1000)	0.350 0.350	0.00 L/(>1000)	0.350 -	0.00 L/(>1000)	0.350 0.350	0.00 L/(>1000)
N147/N149	0.120 0.120	0.06 L/(>1000)	0.120 0.120	0.00 L/(>1000)	0.120 0.120	0.09 L/(>1000)	0.120 0.120	0.00 L/(>1000)
N127/N150	0.120 0.120	0.06 L/(>1000)	0.120 0.120	0.00 L/(>1000)	0.120 0.120	0.09 L/(>1000)	0.120 0.120	0.00 L/(>1000)
N150/N148	2.324 2.324	1.33 L/(>1000)	1.162 1.162	0.04 L/(>1000)	2.324 2.324	2.16 L/(>1000)	1.162 1.162	0.08 L/(>1000)
N149/N148	2.324 2.324	1.33 L/(>1000)	1.162 1.162	0.04 L/(>1000)	2.324 2.324	2.16 L/(>1000)	1.162 1.162	0.08 L/(>1000)
N127/N151	0.272 0.272	0.12 L/(>1000)	0.272 0.272	0.00 L/(>1000)	0.272 0.272	0.20 L/(>1000)	0.272 0.272	0.00 L/(>1000)
N128/N151	0.143 0.143	0.00 L/(>1000)	0.143 0.143	0.00 L/(>1000)	0.143 0.143	0.01 L/(>1000)	0.143 0.143	0.00 L/(>1000)
N128/N152	0.285 0.285	0.02 L/(>1000)	0.285 0.285	0.01 L/(>1000)	0.285 0.285	0.03 L/(>1000)	0.285 0.285	0.02 L/(>1000)
N131/N152	0.166 0.166	0.00 L/(>1000)	0.166 0.166	0.00 L/(>1000)	0.166 0.166	0.00 L/(>1000)	0.166 0.166	0.00 L/(>1000)
N131/N153	0.299 0.299	0.01 L/(>1000)	0.299 0.299	0.01 L/(>1000)	0.299 0.299	0.02 L/(>1000)	0.299 0.299	0.02 L/(>1000)
N132/N153	0.189 0.189	0.00 L/(>1000)	0.189 0.189	0.00 L/(>1000)	0.189 0.189	0.00 L/(>1000)	0.189 0.189	0.00 L/(>1000)
N132/N154	0.314 0.314	0.02 L/(>1000)	0.314 0.314	0.01 L/(>1000)	0.314 0.314	0.03 L/(>1000)	0.314 0.314	0.02 L/(>1000)
N133/N154	0.212 0.212	0.00 L/(>1000)	0.212 0.212	0.00 L/(>1000)	0.212 0.212	0.00 L/(>1000)	0.212 0.212	0.00 L/(>1000)
N133/N155	0.330 0.330	0.02 L/(>1000)	0.330 0.330	0.00 L/(>1000)	0.330 0.330	0.03 L/(>1000)	0.330 0.330	0.01 L/(>1000)
N134/N155	0.235 0.235	0.00 L/(>1000)	0.235 0.235	0.00 L/(>1000)	0.235 0.235	0.00 L/(>1000)	0.235 0.235	0.00 L/(>1000)
N134/N156	0.346 0.346	0.02 L/(>1000)	0.346 0.346	0.00 L/(>1000)	0.346 0.346	0.03 L/(>1000)	0.346 0.346	0.00 L/(>1000)
N135/N156	0.258 0.258	0.00 L/(>1000)	0.258 0.258	0.00 L/(>1000)	0.258 0.258	0.00 L/(>1000)	0.258 0.258	0.00 L/(>1000)
N135/N157	0.364 0.364	0.02 L/(>1000)	0.364 0.364	0.00 L/(>1000)	0.364 0.364	0.03 L/(>1000)	0.364 0.364	0.00 L/(>1000)
N136/N157	0.281 0.281	0.00 L/(>1000)	0.281 0.281	0.00 L/(>1000)	0.281 0.281	0.00 L/(>1000)	0.281 0.281	0.00 L/(>1000)
N136/N158	0.382 0.382	0.02 L/(>1000)	0.382 0.382	0.00 L/(>1000)	0.382 0.382	0.03 L/(>1000)	0.382 0.382	0.00 L/(>1000)
N137/N158	0.152 0.152	0.00 L/(>1000)	0.304 0.304	0.00 L/(>1000)	0.152 0.456	0.01 L/(>1000)	0.304 0.304	0.00 L/(>1000)
N137/N15	0.401	0.02	0.401	0.00	0.401	0.03	0.401	0.00

Flechas								
Grupo	Flecha máxima absoluta xy Flecha máxima relativa xy		Flecha máxima absoluta xz Flecha máxima relativa xz		Flecha ativa absoluta xy Flecha ativa relativa xy		Flecha ativa absoluta xz Flecha ativa relativa xz	
	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)
9	0.401	L/(>1000)	0.401	L/(>1000)	0.401	L/(>1000)	0.401	L/(>1000)
N138/N15	0.491	0.01	0.327	0.00	0.491	0.01	0.327	0.00
9	0.491	L/(>1000)	0.327	L/(>1000)	0.491	L/(>1000)	0.327	L/(>1000)
N138/N14	0.419	0.01	0.629	0.00	0.210	0.01	0.629	0.00
8	0.419	L/(>1000)	0.629	L/(>1000)	0.210	L/(>1000)	0.629	L/(>1000)
N130/N14	0.419	0.01	0.629	0.00	0.210	0.01	0.629	0.00
8	0.419	L/(>1000)	0.629	L/(>1000)	0.210	L/(>1000)	0.629	L/(>1000)
N130/N16	0.491	0.01	0.327	0.00	0.491	0.01	0.327	0.00
0	0.491	L/(>1000)	0.327	L/(>1000)	0.491	L/(>1000)	0.327	L/(>1000)
N139/N16	0.401	0.02	0.401	0.00	0.401	0.03	0.401	0.00
0	0.401	L/(>1000)	0.401	L/(>1000)	0.401	L/(>1000)	0.401	L/(>1000)
N139/N16	0.152	0.00	0.304	0.00	0.152	0.01	0.304	0.00
1	0.152	L/(>1000)	0.304	L/(>1000)	0.456	L/(>1000)	0.304	L/(>1000)
N140/N16	0.382	0.02	0.382	0.00	0.382	0.03	0.382	0.00
1	0.382	L/(>1000)	0.382	L/(>1000)	0.382	L/(>1000)	0.382	L/(>1000)
N140/N16	0.281	0.00	0.281	0.00	0.281	0.00	0.281	0.00
2	0.281	L/(>1000)	0.281	L/(>1000)	0.281	L/(>1000)	0.281	L/(>1000)
N141/N16	0.364	0.02	0.364	0.00	0.364	0.03	0.364	0.00
2	0.364	L/(>1000)	0.364	L/(>1000)	0.364	L/(>1000)	0.364	L/(>1000)
N141/N16	0.258	0.00	0.258	0.00	0.258	0.00	0.258	0.00
3	0.258	L/(>1000)	0.258	L/(>1000)	0.258	L/(>1000)	0.258	L/(>1000)
N142/N16	0.346	0.02	0.346	0.00	0.346	0.03	0.346	0.00
3	0.346	L/(>1000)	0.346	L/(>1000)	0.346	L/(>1000)	0.346	L/(>1000)
N142/N16	0.235	0.00	0.235	0.00	0.235	0.00	0.235	0.00
4	0.235	L/(>1000)	0.235	L/(>1000)	0.235	L/(>1000)	0.235	L/(>1000)
N143/N16	0.330	0.02	0.330	0.00	0.330	0.03	0.330	0.01
4	0.330	L/(>1000)	0.330	L/(>1000)	0.330	L/(>1000)	0.330	L/(>1000)
N143/N16	0.212	0.00	0.212	0.00	0.212	0.00	0.212	0.00
5	0.212	L/(>1000)	0.212	L/(>1000)	0.212	L/(>1000)	0.212	L/(>1000)
N144/N16	0.314	0.02	0.314	0.01	0.314	0.03	0.314	0.02
5	0.314	L/(>1000)	0.314	L/(>1000)	0.314	L/(>1000)	0.314	L/(>1000)
N144/N16	0.189	0.00	0.189	0.00	0.189	0.00	0.189	0.00
6	0.189	L/(>1000)	0.189	L/(>1000)	0.189	L/(>1000)	0.189	L/(>1000)
N145/N16	0.299	0.01	0.299	0.01	0.299	0.02	0.299	0.02
6	0.299	L/(>1000)	0.299	L/(>1000)	0.299	L/(>1000)	0.299	L/(>1000)
N145/N16	0.166	0.00	0.166	0.00	0.166	0.00	0.166	0.00
7	0.166	L/(>1000)	0.166	L/(>1000)	0.166	L/(>1000)	0.166	L/(>1000)
N146/N16	0.285	0.02	0.285	0.01	0.285	0.03	0.285	0.02
7	0.285	L/(>1000)	0.285	L/(>1000)	0.285	L/(>1000)	0.285	L/(>1000)
N146/N16	0.143	0.00	0.143	0.00	0.143	0.01	0.143	0.00
8	0.143	L/(>1000)	0.143	L/(>1000)	0.143	L/(>1000)	0.143	L/(>1000)
N147/N16	0.272	0.12	0.272	0.00	0.272	0.20	0.272	0.00
8	0.272	L/(>1000)	0.272	L/(>1000)	0.272	L/(>1000)	0.272	L/(>1000)
N43/N44	4.163	2.16	4.625	2.02	4.163	2.90	4.625	3.79

Flechas								
Grupo	Flecha máxima absoluta xy Flecha máxima relativa xy		Flecha máxima absoluta xz Flecha máxima relativa xz		Flecha ativa absoluta xy Flecha ativa relativa xy		Flecha ativa absoluta xz Flecha ativa relativa xz	
	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)
	4.163	L/(>1000)	4.625	L/(>1000)	4.163	L/(>1000)	4.625	L/(>1000)
N45/N46	0.350	0.00	0.350	0.00	0.350	0.00	0.350	0.00
	-	L/(>1000)	0.350	L/(>1000)	-	L/(>1000)	0.350	L/(>1000)
N44/N47	0.120	0.03	0.120	0.01	0.120	0.04	0.120	0.01
	0.120	L/(>1000)	0.120	L/(>1000)	0.120	L/(>1000)	0.120	L/(>1000)
N43/N48	0.120	0.03	0.120	0.01	0.120	0.04	0.120	0.01
	0.120	L/(>1000)	0.120	L/(>1000)	0.120	L/(>1000)	0.120	L/(>1000)
N48/N46	2.324	0.66	0.465	0.07	2.324	0.89	0.465	0.13
	2.324	L/(>1000)	0.465	L/(>1000)	2.324	L/(>1000)	0.465	L/(>1000)
N47/N46	2.324	0.66	0.465	0.07	2.324	0.89	0.465	0.13
	2.324	L/(>1000)	0.465	L/(>1000)	2.324	L/(>1000)	0.465	L/(>1000)
N43/N76	0.272	0.06	0.272	0.03	0.272	0.08	0.272	0.05
	0.272	L/(>1000)	0.272	L/(>1000)	0.272	L/(>1000)	0.272	L/(>1000)
N49/N76	0.143	0.00	0.143	0.00	0.143	0.00	0.143	0.01
	0.143	L/(>1000)	0.143	L/(>1000)	0.143	L/(>1000)	0.143	L/(>1000)
N49/N77	0.285	0.01	0.285	0.04	0.285	0.01	0.285	0.08
	0.285	L/(>1000)	0.285	L/(>1000)	0.285	L/(>1000)	0.285	L/(>1000)
N50/N77	0.166	0.00	0.166	0.00	0.166	0.00	0.166	0.00
	0.166	L/(>1000)	0.166	L/(>1000)	0.166	L/(>1000)	0.166	L/(>1000)
N50/N78	0.299	0.01	0.299	0.03	0.299	0.01	0.299	0.06
	0.299	L/(>1000)	0.299	L/(>1000)	0.299	L/(>1000)	0.299	L/(>1000)
N51/N78	0.189	0.00	0.189	0.01	0.189	0.00	0.189	0.01
	0.189	L/(>1000)	0.189	L/(>1000)	0.189	L/(>1000)	0.189	L/(>1000)
N51/N79	0.314	0.01	0.314	0.03	0.314	0.01	0.314	0.06
	0.314	L/(>1000)	0.314	L/(>1000)	0.314	L/(>1000)	0.314	L/(>1000)
N52/N79	0.212	0.00	0.212	0.00	0.212	0.00	0.212	0.01
	0.212	L/(>1000)	0.212	L/(>1000)	0.212	L/(>1000)	0.212	L/(>1000)
N52/N80	0.330	0.01	0.330	0.02	0.330	0.01	0.330	0.04
	0.330	L/(>1000)	0.330	L/(>1000)	0.330	L/(>1000)	0.330	L/(>1000)
N53/N80	0.235	0.00	0.235	0.01	0.235	0.00	0.235	0.01
	0.235	L/(>1000)	0.235	L/(>1000)	0.235	L/(>1000)	0.235	L/(>1000)
N53/N81	0.346	0.01	0.346	0.02	0.346	0.01	0.346	0.03
	0.346	L/(>1000)	0.346	L/(>1000)	0.346	L/(>1000)	0.346	L/(>1000)
N54/N81	0.258	0.00	0.258	0.00	0.258	0.00	0.258	0.00
	0.258	L/(>1000)	0.258	L/(>1000)	0.258	L/(>1000)	0.258	L/(>1000)
N54/N82	0.364	0.01	0.364	0.01	0.364	0.01	0.364	0.02
	0.364	L/(>1000)	0.364	L/(>1000)	0.364	L/(>1000)	0.364	L/(>1000)
N55/N82	0.281	0.00	0.281	0.00	0.281	0.00	0.281	0.00
	0.281	L/(>1000)	0.281	L/(>1000)	0.281	L/(>1000)	0.281	L/(>1000)
N55/N83	0.382	0.01	0.382	0.00	0.382	0.01	0.382	0.01
	0.382	L/(>1000)	0.382	L/(>1000)	0.382	L/(>1000)	0.382	L/(>1000)
N56/N83	0.456	0.00	0.304	0.00	0.152	0.00	0.304	0.01
	0.456	L/(>1000)	0.304	L/(>1000)	0.456	L/(>1000)	0.304	L/(>1000)
N56/N84	0.401	0.01	0.401	0.00	0.401	0.01	0.401	0.00

Flechas								
Grupo	Flecha máxima absoluta xy Flecha máxima relativa xy		Flecha máxima absoluta xz Flecha máxima relativa xz		Flecha ativa absoluta xy Flecha ativa relativa xy		Flecha ativa absoluta xz Flecha ativa relativa xz	
	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)
	0.401	L/(>1000)	0.401	L/(>1000)	0.401	L/(>1000)	0.401	L/(>1000)
N57/N84	0.491	0.00	0.327	0.00	0.491	0.00	0.327	0.00
	0.491	L/(>1000)	0.327	L/(>1000)	0.491	L/(>1000)	0.327	L/(>1000)
N57/N46	0.419	0.01	0.419	0.00	0.210	0.00	0.419	0.01
	0.419	L/(>1000)	0.419	L/(>1000)	0.210	L/(>1000)	0.629	L/(>1000)
N58/N46	0.419	0.01	0.419	0.00	0.210	0.00	0.419	0.01
	0.419	L/(>1000)	0.419	L/(>1000)	0.210	L/(>1000)	0.629	L/(>1000)
N58/N67	0.491	0.00	0.327	0.00	0.491	0.00	0.327	0.00
	0.491	L/(>1000)	0.327	L/(>1000)	0.491	L/(>1000)	0.327	L/(>1000)
N59/N67	0.401	0.01	0.401	0.00	0.401	0.01	0.401	0.00
	0.401	L/(>1000)	0.401	L/(>1000)	0.401	L/(>1000)	0.401	L/(>1000)
N59/N68	0.456	0.00	0.304	0.00	0.152	0.00	0.304	0.01
	0.456	L/(>1000)	0.304	L/(>1000)	0.456	L/(>1000)	0.304	L/(>1000)
N60/N68	0.382	0.01	0.382	0.00	0.382	0.01	0.382	0.01
	0.382	L/(>1000)	0.382	L/(>1000)	0.382	L/(>1000)	0.382	L/(>1000)
N60/N69	0.281	0.00	0.281	0.00	0.281	0.00	0.281	0.00
	0.281	L/(>1000)	0.281	L/(>1000)	0.281	L/(>1000)	0.281	L/(>1000)
N61/N69	0.364	0.01	0.364	0.01	0.364	0.01	0.364	0.02
	0.364	L/(>1000)	0.364	L/(>1000)	0.364	L/(>1000)	0.364	L/(>1000)
N61/N70	0.258	0.00	0.258	0.00	0.258	0.00	0.258	0.00
	0.258	L/(>1000)	0.258	L/(>1000)	0.258	L/(>1000)	0.258	L/(>1000)
N62/N70	0.346	0.01	0.346	0.02	0.346	0.01	0.346	0.03
	0.346	L/(>1000)	0.346	L/(>1000)	0.346	L/(>1000)	0.346	L/(>1000)
N62/N71	0.235	0.00	0.235	0.01	0.235	0.00	0.235	0.01
	0.235	L/(>1000)	0.235	L/(>1000)	0.235	L/(>1000)	0.235	L/(>1000)
N63/N71	0.330	0.01	0.330	0.02	0.330	0.01	0.330	0.04
	0.330	L/(>1000)	0.330	L/(>1000)	0.330	L/(>1000)	0.330	L/(>1000)
N63/N72	0.212	0.00	0.212	0.00	0.212	0.00	0.212	0.01
	0.212	L/(>1000)	0.212	L/(>1000)	0.212	L/(>1000)	0.212	L/(>1000)
N64/N72	0.314	0.01	0.314	0.03	0.314	0.01	0.314	0.06
	0.314	L/(>1000)	0.314	L/(>1000)	0.314	L/(>1000)	0.314	L/(>1000)
N64/N73	0.189	0.00	0.189	0.01	0.189	0.00	0.189	0.01
	0.189	L/(>1000)	0.189	L/(>1000)	0.189	L/(>1000)	0.189	L/(>1000)
N65/N73	0.299	0.01	0.299	0.03	0.299	0.01	0.299	0.06
	0.299	L/(>1000)	0.299	L/(>1000)	0.299	L/(>1000)	0.299	L/(>1000)
N65/N74	0.166	0.00	0.166	0.00	0.166	0.00	0.166	0.00
	0.166	L/(>1000)	0.166	L/(>1000)	0.166	L/(>1000)	0.166	L/(>1000)
N66/N74	0.285	0.01	0.285	0.04	0.285	0.01	0.285	0.08
	0.285	L/(>1000)	0.285	L/(>1000)	0.285	L/(>1000)	0.285	L/(>1000)
N66/N75	0.143	0.00	0.143	0.00	0.143	0.00	0.143	0.01
	0.143	L/(>1000)	0.143	L/(>1000)	0.143	L/(>1000)	0.143	L/(>1000)
N44/N75	0.272	0.06	0.272	0.03	0.272	0.08	0.272	0.05
	0.272	L/(>1000)	0.272	L/(>1000)	0.272	L/(>1000)	0.272	L/(>1000)
N5/N47	26.570	0.42	26.813	0.68	5.625	0.58	26.813	1.19

Flechas								
Grupo	Flecha máxima absoluta xy Flecha máxima relativa xy		Flecha máxima absoluta xz Flecha máxima relativa xz		Flecha ativa absoluta xy Flecha ativa relativa xy		Flecha ativa absoluta xz Flecha ativa relativa xz	
	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)
	0.969	L/(>1000)	26.813	L/(>1000)	0.727	L/(>1000)	26.813	L/(>1000)
N32/N74	1.938	1.09	1.938	2.45	1.938	1.41	1.938	4.59
	1.938	L/(>1000)	1.938	L/(>1000)	1.938	L/(>1000)	1.938	L/(>1000)
N30/N72	1.938	1.06	1.938	3.29	1.938	1.35	1.938	6.16
	1.938	L/(>1000)	1.938	L/(>1000)	1.938	L/(>1000)	1.938	L/(>1000)
N28/N70	1.938	1.04	1.938	3.75	1.938	1.31	1.938	7.02
	1.938	L/(>1000)	1.938	L/(>1000)	1.938	L/(>1000)	1.938	L/(>1000)
N26/N68	1.938	1.04	2.180	3.94	1.938	1.30	2.180	7.38
	1.938	L/(>1000)	2.180	L/(>1000)	1.938	L/(>1000)	2.180	L/(>1000)
N4/N46	4.094	0.00	2.180	3.84	4.094	0.00	2.180	7.18
	-	L/(>1000)	2.180	L/(>1000)	-	L/(>1000)	2.180	L/(>1000)
N6/N48	26.570	0.42	26.813	0.68	5.625	0.58	26.813	1.19
	0.969	L/(>1000)	26.813	L/(>1000)	0.727	L/(>1000)	26.813	L/(>1000)
N35/N77	1.938	1.09	1.938	2.45	1.938	1.41	1.938	4.59
	1.938	L/(>1000)	1.938	L/(>1000)	1.938	L/(>1000)	1.938	L/(>1000)
N37/N79	1.938	1.06	1.938	3.29	1.938	1.35	1.938	6.16
	1.938	L/(>1000)	1.938	L/(>1000)	1.938	L/(>1000)	1.938	L/(>1000)
N39/N81	1.938	1.04	1.938	3.75	1.938	1.31	1.938	7.02
	1.938	L/(>1000)	1.938	L/(>1000)	1.938	L/(>1000)	1.938	L/(>1000)
N41/N83	1.938	1.04	2.180	3.94	1.938	1.30	2.180	7.38
	1.938	L/(>1000)	2.180	L/(>1000)	1.938	L/(>1000)	2.180	L/(>1000)
N5/N106	4.917	0.00	4.917	0.00	4.917	0.00	4.917	0.00
	-	L/(>1000)	-	L/(>1000)	-	L/(>1000)	-	L/(>1000)
N107/N4	1.135	0.00	3.782	0.00	2.269	0.00	5.295	0.00
	-	L/(>1000)	-	L/(>1000)	-	L/(>1000)	-	L/(>1000)
N108/N4	4.538	0.00	4.538	0.00	4.538	0.00	4.160	0.00
	-	L/(>1000)	-	L/(>1000)	-	L/(>1000)	-	L/(>1000)
N6/N106	1.513	0.00	5.673	0.00	2.647	0.00	5.673	0.00
	-	L/(>1000)	-	L/(>1000)	-	L/(>1000)	-	L/(>1000)
N169/N18 9	5.088	3.78	5.550	0.03	5.088	5.95	5.550	0.05
	5.088	L/(>1000)	5.550	L/(>1000)	5.088	L/(>1000)	5.550	L/(>1000)
N171/N19 0	0.525	0.00	0.350	0.00	0.525	0.00	0.350	0.00
	-	L/(>1000)	0.350	L/(>1000)	-	L/(>1000)	0.350	L/(>1000)
N189/N19 1	0.120	0.05	0.120	0.00	0.120	0.08	0.120	0.00
	0.120	L/(>1000)	0.120	L/(>1000)	0.120	L/(>1000)	0.120	L/(>1000)
N169/N19 2	0.120	0.05	0.120	0.00	0.120	0.08	0.120	0.00
	0.120	L/(>1000)	0.120	L/(>1000)	0.120	L/(>1000)	0.120	L/(>1000)
N192/N19 0	2.324	1.15	1.162	0.02	2.324	1.83	1.162	0.04
	2.324	L/(>1000)	1.162	L/(>1000)	2.324	L/(>1000)	1.162	L/(>1000)
N191/N19 0	2.324	1.15	1.162	0.02	2.324	1.83	1.162	0.04
	2.324	L/(>1000)	1.162	L/(>1000)	2.324	L/(>1000)	1.162	L/(>1000)
N169/N19 3	0.272	0.10	0.272	0.00	0.272	0.17	0.272	0.00
	0.272	L/(>1000)	0.272	L/(>1000)	0.272	L/(>1000)	0.272	L/(>1000)
N170/N19	0.143	0.00	0.143	0.00	0.143	0.00	0.143	0.00

Flechas								
Grupo	Flecha máxima absoluta xy Flecha máxima relativa xy		Flecha máxima absoluta xz Flecha máxima relativa xz		Flecha ativa absoluta xy Flecha ativa relativa xy		Flecha ativa absoluta xz Flecha ativa relativa xz	
	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)
3	0.143	L/(>1000)	0.143	L/(>1000)	0.143	L/(>1000)	0.143	L/(>1000)
N170/N19	0.285	0.02	0.285	0.00	0.285	0.02	0.285	0.00
4	0.285	L/(>1000)	0.285	L/(>1000)	0.285	L/(>1000)	0.285	L/(>1000)
N173/N19	0.166	0.00	0.166	0.00	0.166	0.00	0.166	0.00
4	0.166	L/(>1000)	0.166	L/(>1000)	0.166	L/(>1000)	0.166	L/(>1000)
N173/N19	0.299	0.01	0.299	0.00	0.299	0.02	0.299	0.00
5	0.299	L/(>1000)	0.299	L/(>1000)	0.299	L/(>1000)	0.299	L/(>1000)
N174/N19	0.189	0.00	0.189	0.00	0.189	0.00	0.189	0.00
5	0.189	L/(>1000)	0.189	L/(>1000)	0.189	L/(>1000)	0.189	L/(>1000)
N174/N19	0.314	0.02	0.314	0.00	0.314	0.02	0.314	0.00
6	0.314	L/(>1000)	0.314	L/(>1000)	0.314	L/(>1000)	0.314	L/(>1000)
N175/N19	0.212	0.00	0.212	0.00	0.212	0.00	0.212	0.00
6	0.212	L/(>1000)	0.212	L/(>1000)	0.212	L/(>1000)	0.212	L/(>1000)
N175/N19	0.330	0.02	0.330	0.00	0.330	0.03	0.330	0.00
7	0.330	L/(>1000)	0.330	L/(>1000)	0.330	L/(>1000)	0.330	L/(>1000)
N176/N19	0.235	0.00	0.235	0.00	0.235	0.00	0.235	0.00
7	0.235	L/(>1000)	0.235	L/(>1000)	0.235	L/(>1000)	0.235	L/(>1000)
N176/N19	0.346	0.02	0.173	0.00	0.346	0.03	0.173	0.00
8	0.346	L/(>1000)	0.173	L/(>1000)	0.346	L/(>1000)	0.173	L/(>1000)
N177/N19	0.258	0.00	0.258	0.00	0.258	0.00	0.258	0.00
8	0.258	L/(>1000)	0.258	L/(>1000)	0.258	L/(>1000)	0.258	L/(>1000)
N177/N19	0.364	0.02	0.364	0.00	0.364	0.03	0.364	0.00
9	0.364	L/(>1000)	0.364	L/(>1000)	0.364	L/(>1000)	0.364	L/(>1000)
N178/N19	0.281	0.00	0.281	0.00	0.281	0.00	0.281	0.00
9	0.281	L/(>1000)	0.281	L/(>1000)	0.281	L/(>1000)	0.281	L/(>1000)
N178/N20	0.382	0.02	0.382	0.00	0.382	0.03	0.191	0.00
0	0.382	L/(>1000)	0.382	L/(>1000)	0.382	L/(>1000)	0.382	L/(>1000)
N179/N20	0.456	0.00	0.304	0.00	0.152	0.01	0.304	0.00
0	0.456	L/(>1000)	0.304	L/(>1000)	0.456	L/(>1000)	0.304	L/(>1000)
N179/N20	0.401	0.02	0.401	0.00	0.401	0.03	0.401	0.00
1	0.401	L/(>1000)	0.401	L/(>1000)	0.401	L/(>1000)	0.401	L/(>1000)
N180/N20	0.491	0.01	0.327	0.00	0.491	0.01	0.327	0.00
1	0.491	L/(>1000)	0.327	L/(>1000)	0.491	L/(>1000)	0.327	L/(>1000)
N180/N19	0.419	0.01	0.419	0.00	0.210	0.01	0.419	0.00
0	0.419	L/(>1000)	0.419	L/(>1000)	0.210	L/(>1000)	0.419	L/(>1000)
N172/N19	0.419	0.01	0.419	0.00	0.210	0.01	0.419	0.00
0	0.419	L/(>1000)	0.419	L/(>1000)	0.210	L/(>1000)	0.419	L/(>1000)
N172/N20	0.491	0.01	0.327	0.00	0.491	0.01	0.327	0.00
2	0.491	L/(>1000)	0.327	L/(>1000)	0.491	L/(>1000)	0.327	L/(>1000)
N181/N20	0.401	0.02	0.401	0.00	0.401	0.03	0.401	0.00
2	0.401	L/(>1000)	0.401	L/(>1000)	0.401	L/(>1000)	0.401	L/(>1000)
N181/N20	0.456	0.00	0.304	0.00	0.152	0.01	0.304	0.00
3	0.456	L/(>1000)	0.304	L/(>1000)	0.456	L/(>1000)	0.304	L/(>1000)
N182/N20	0.382	0.02	0.382	0.00	0.382	0.03	0.191	0.00

Flechas								
Grupo	Flecha máxima absoluta xy Flecha máxima relativa xy		Flecha máxima absoluta xz Flecha máxima relativa xz		Flecha ativa absoluta xy Flecha ativa relativa xy		Flecha ativa absoluta xz Flecha ativa relativa xz	
	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)
3	0.382	L/(>1000)	0.382	L/(>1000)	0.382	L/(>1000)	0.382	L/(>1000)
N182/N20	0.281	0.00	0.281	0.00	0.281	0.00	0.281	0.00
4	0.281	L/(>1000)	0.281	L/(>1000)	0.281	L/(>1000)	0.281	L/(>1000)
N183/N20	0.364	0.02	0.364	0.00	0.364	0.03	0.364	0.00
4	0.364	L/(>1000)	0.364	L/(>1000)	0.364	L/(>1000)	0.364	L/(>1000)
N183/N20	0.258	0.00	0.258	0.00	0.258	0.00	0.258	0.00
5	0.258	L/(>1000)	0.258	L/(>1000)	0.258	L/(>1000)	0.258	L/(>1000)
N184/N20	0.346	0.02	0.173	0.00	0.346	0.03	0.173	0.00
5	0.346	L/(>1000)	0.173	L/(>1000)	0.346	L/(>1000)	0.173	L/(>1000)
N184/N20	0.235	0.00	0.235	0.00	0.235	0.00	0.235	0.00
6	0.235	L/(>1000)	0.235	L/(>1000)	0.235	L/(>1000)	0.235	L/(>1000)
N185/N20	0.330	0.02	0.330	0.00	0.330	0.03	0.330	0.00
6	0.330	L/(>1000)	0.330	L/(>1000)	0.330	L/(>1000)	0.330	L/(>1000)
N185/N20	0.212	0.00	0.212	0.00	0.212	0.00	0.212	0.00
7	0.212	L/(>1000)	0.212	L/(>1000)	0.212	L/(>1000)	0.212	L/(>1000)
N186/N20	0.314	0.02	0.314	0.00	0.314	0.02	0.314	0.00
7	0.314	L/(>1000)	0.314	L/(>1000)	0.314	L/(>1000)	0.314	L/(>1000)
N186/N20	0.189	0.00	0.189	0.00	0.189	0.00	0.189	0.00
8	0.189	L/(>1000)	0.189	L/(>1000)	0.189	L/(>1000)	0.189	L/(>1000)
N187/N20	0.299	0.01	0.299	0.00	0.299	0.02	0.299	0.00
8	0.299	L/(>1000)	0.299	L/(>1000)	0.299	L/(>1000)	0.299	L/(>1000)
N187/N20	0.166	0.00	0.166	0.00	0.166	0.00	0.166	0.00
9	0.166	L/(>1000)	0.166	L/(>1000)	0.166	L/(>1000)	0.166	L/(>1000)
N188/N20	0.285	0.02	0.285	0.00	0.285	0.02	0.285	0.00
9	0.285	L/(>1000)	0.285	L/(>1000)	0.285	L/(>1000)	0.285	L/(>1000)
N188/N21	0.143	0.00	0.143	0.00	0.143	0.00	0.143	0.00
0	0.143	L/(>1000)	0.143	L/(>1000)	0.143	L/(>1000)	0.143	L/(>1000)
N189/N21	0.272	0.10	0.272	0.00	0.272	0.17	0.272	0.00
0	0.272	L/(>1000)	0.272	L/(>1000)	0.272	L/(>1000)	0.272	L/(>1000)
N211/N23	5.088	3.85	7.863	0.01	5.088	6.08	7.863	0.02
1	5.088	L/(>1000)	7.863	L/(>1000)	5.088	L/(>1000)	7.863	L/(>1000)
N213/N23	0.525	0.00	0.350	0.00	0.525	0.00	0.350	0.00
2	-	L/(>1000)	0.350	L/(>1000)	-	L/(>1000)	0.350	L/(>1000)
N231/N23	0.120	0.05	0.120	0.00	0.120	0.08	0.120	0.00
3	0.120	L/(>1000)	0.120	L/(>1000)	0.120	L/(>1000)	0.120	L/(>1000)
N211/N23	0.120	0.05	0.120	0.00	0.120	0.08	0.120	0.00
4	0.120	L/(>1000)	0.120	L/(>1000)	0.120	L/(>1000)	0.120	L/(>1000)
N234/N23	2.324	1.18	3.486	0.01	2.324	1.87	3.486	0.02
2	2.324	L/(>1000)	3.486	L/(>1000)	2.324	L/(>1000)	3.486	L/(>1000)
N233/N23	2.324	1.18	3.486	0.01	2.324	1.87	3.486	0.02
2	2.324	L/(>1000)	3.486	L/(>1000)	2.324	L/(>1000)	3.486	L/(>1000)
N211/N23	0.272	0.11	0.272	0.00	0.272	0.17	0.272	0.00
5	0.272	L/(>1000)	0.272	L/(>1000)	0.272	L/(>1000)	0.272	L/(>1000)
N212/N23	0.143	0.00	0.143	0.00	0.143	0.01	0.143	0.00

Flechas								
Grupo	Flecha máxima absoluta xy Flecha máxima relativa xy		Flecha máxima absoluta xz Flecha máxima relativa xz		Flecha ativa absoluta xy Flecha ativa relativa xy		Flecha ativa absoluta xz Flecha ativa relativa xz	
	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)
5	0.143	L/(>1000)	0.143	L/(>1000)	0.143	L/(>1000)	0.143	L/(>1000)
N212/N23	0.285	0.02	0.285	0.00	0.285	0.02	0.285	0.00
6	0.285	L/(>1000)	0.285	L/(>1000)	0.285	L/(>1000)	0.285	L/(>1000)
N215/N23	0.166	0.00	0.166	0.00	0.166	0.00	0.166	0.00
6	0.166	L/(>1000)	0.166	L/(>1000)	0.166	L/(>1000)	0.166	L/(>1000)
N215/N23	0.299	0.01	0.299	0.00	0.299	0.02	0.299	0.00
7	0.299	L/(>1000)	0.299	L/(>1000)	0.299	L/(>1000)	0.299	L/(>1000)
N216/N23	0.189	0.00	0.189	0.00	0.189	0.00	0.189	0.00
7	0.189	L/(>1000)	0.189	L/(>1000)	0.189	L/(>1000)	0.189	L/(>1000)
N216/N23	0.314	0.02	0.314	0.00	0.314	0.03	0.314	0.00
8	0.314	L/(>1000)	0.314	L/(>1000)	0.314	L/(>1000)	0.314	L/(>1000)
N217/N23	0.212	0.00	0.212	0.00	0.212	0.00	0.212	0.00
8	0.212	L/(>1000)	0.212	L/(>1000)	0.212	L/(>1000)	0.212	L/(>1000)
N217/N23	0.330	0.02	0.330	0.00	0.330	0.03	0.330	0.00
9	0.330	L/(>1000)	0.330	L/(>1000)	0.330	L/(>1000)	0.330	L/(>1000)
N218/N23	0.235	0.00	0.235	0.00	0.235	0.00	0.235	0.00
9	0.235	L/(>1000)	-	L/(>1000)	0.235	L/(>1000)	-	L/(>1000)
N218/N24	0.346	0.02	0.346	0.00	0.346	0.03	0.346	0.00
0	0.346	L/(>1000)	0.346	L/(>1000)	0.346	L/(>1000)	0.346	L/(>1000)
N219/N24	0.258	0.00	0.258	0.00	0.258	0.00	0.258	0.00
0	0.258	L/(>1000)	0.258	L/(>1000)	0.258	L/(>1000)	0.258	L/(>1000)
N219/N24	0.364	0.02	0.364	0.00	0.364	0.03	0.364	0.00
1	0.364	L/(>1000)	0.364	L/(>1000)	0.364	L/(>1000)	0.364	L/(>1000)
N220/N24	0.281	0.00	0.281	0.00	0.281	0.00	0.281	0.00
1	0.281	L/(>1000)	0.281	L/(>1000)	0.281	L/(>1000)	0.281	L/(>1000)
N220/N24	0.382	0.02	0.382	0.00	0.382	0.03	0.382	0.00
2	0.382	L/(>1000)	0.382	L/(>1000)	0.382	L/(>1000)	0.382	L/(>1000)
N221/N24	0.456	0.00	0.304	0.00	0.152	0.01	0.304	0.00
2	0.456	L/(>1000)	0.304	L/(>1000)	0.456	L/(>1000)	0.304	L/(>1000)
N221/N24	0.401	0.02	0.401	0.00	0.401	0.03	0.401	0.00
3	0.401	L/(>1000)	0.401	L/(>1000)	0.401	L/(>1000)	0.401	L/(>1000)
N222/N24	0.491	0.01	0.327	0.00	0.491	0.01	0.327	0.00
3	0.491	L/(>1000)	0.327	L/(>1000)	0.491	L/(>1000)	0.327	L/(>1000)
N222/N23	0.419	0.01	0.210	0.00	0.210	0.01	0.210	0.00
2	0.419	L/(>1000)	0.210	L/(>1000)	0.419	L/(>1000)	0.210	L/(>1000)
N214/N23	0.419	0.01	0.210	0.00	0.210	0.01	0.210	0.00
2	0.419	L/(>1000)	0.210	L/(>1000)	0.419	L/(>1000)	0.210	L/(>1000)
N214/N24	0.491	0.01	0.327	0.00	0.491	0.01	0.327	0.00
4	0.491	L/(>1000)	0.327	L/(>1000)	0.491	L/(>1000)	0.327	L/(>1000)
N223/N24	0.401	0.02	0.401	0.00	0.401	0.03	0.401	0.00
4	0.401	L/(>1000)	0.401	L/(>1000)	0.401	L/(>1000)	0.401	L/(>1000)
N223/N24	0.456	0.00	0.304	0.00	0.152	0.01	0.304	0.00
5	0.456	L/(>1000)	0.304	L/(>1000)	0.456	L/(>1000)	0.304	L/(>1000)
N224/N24	0.382	0.02	0.382	0.00	0.382	0.03	0.382	0.00

Flechas								
Grupo	Flecha máxima absoluta xy Flecha máxima relativa xy		Flecha máxima absoluta xz Flecha máxima relativa xz		Flecha ativa absoluta xy Flecha ativa relativa xy		Flecha ativa absoluta xz Flecha ativa relativa xz	
	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)
5	0.382	L/(>1000)	0.382	L/(>1000)	0.382	L/(>1000)	0.382	L/(>1000)
N224/N24	0.281	0.00	0.281	0.00	0.281	0.00	0.281	0.00
6	0.281	L/(>1000)	0.281	L/(>1000)	0.281	L/(>1000)	0.281	L/(>1000)
N225/N24	0.364	0.02	0.364	0.00	0.364	0.03	0.364	0.00
6	0.364	L/(>1000)	0.364	L/(>1000)	0.364	L/(>1000)	0.364	L/(>1000)
N225/N24	0.258	0.00	0.258	0.00	0.258	0.00	0.258	0.00
7	0.258	L/(>1000)	0.258	L/(>1000)	0.258	L/(>1000)	0.258	L/(>1000)
N226/N24	0.346	0.02	0.346	0.00	0.346	0.03	0.346	0.00
7	0.346	L/(>1000)	0.346	L/(>1000)	0.346	L/(>1000)	0.346	L/(>1000)
N226/N24	0.235	0.00	0.235	0.00	0.235	0.00	0.235	0.00
8	0.235	L/(>1000)	-	L/(>1000)	0.235	L/(>1000)	-	L/(>1000)
N227/N24	0.330	0.02	0.330	0.00	0.330	0.03	0.330	0.00
8	0.330	L/(>1000)	0.330	L/(>1000)	0.330	L/(>1000)	0.330	L/(>1000)
N227/N24	0.212	0.00	0.212	0.00	0.212	0.00	0.212	0.00
9	0.212	L/(>1000)	0.212	L/(>1000)	0.212	L/(>1000)	0.212	L/(>1000)
N228/N24	0.314	0.02	0.314	0.00	0.314	0.03	0.314	0.00
9	0.314	L/(>1000)	0.314	L/(>1000)	0.314	L/(>1000)	0.314	L/(>1000)
N228/N25	0.189	0.00	0.189	0.00	0.189	0.00	0.189	0.00
0	0.189	L/(>1000)	0.189	L/(>1000)	0.189	L/(>1000)	0.189	L/(>1000)
N229/N25	0.299	0.01	0.299	0.00	0.299	0.02	0.299	0.00
0	0.299	L/(>1000)	0.299	L/(>1000)	0.299	L/(>1000)	0.299	L/(>1000)
N229/N25	0.166	0.00	0.166	0.00	0.166	0.00	0.166	0.00
1	0.166	L/(>1000)	0.166	L/(>1000)	0.166	L/(>1000)	0.166	L/(>1000)
N230/N25	0.285	0.02	0.285	0.00	0.285	0.02	0.285	0.00
1	0.285	L/(>1000)	0.285	L/(>1000)	0.285	L/(>1000)	0.285	L/(>1000)
N230/N25	0.143	0.00	0.143	0.00	0.143	0.01	0.143	0.00
2	0.143	L/(>1000)	0.143	L/(>1000)	0.143	L/(>1000)	0.143	L/(>1000)
N231/N25	0.272	0.11	0.272	0.00	0.272	0.17	0.272	0.00
2	0.272	L/(>1000)	0.272	L/(>1000)	0.272	L/(>1000)	0.272	L/(>1000)
N337/N35	4.163	3.77	3.469	0.04	4.163	5.94	5.781	0.08
7	4.163	L/(>1000)	3.469	L/(>1000)	4.163	L/(>1000)	3.469	L/(>1000)
N339/N35	0.350	0.00	0.350	0.00	0.350	0.00	0.350	0.00
8	-	L/(>1000)	0.350	L/(>1000)	-	L/(>1000)	0.350	L/(>1000)
N357/N35	0.120	0.05	0.120	0.00	0.120	0.08	0.120	0.00
9	0.120	L/(>1000)	0.120	L/(>1000)	0.120	L/(>1000)	0.120	L/(>1000)
N337/N36	0.120	0.05	0.120	0.00	0.120	0.08	0.120	0.00
0	0.120	L/(>1000)	0.120	L/(>1000)	0.120	L/(>1000)	0.120	L/(>1000)
N360/N35	2.324	1.15	3.486	0.02	2.324	1.82	1.162	0.03
8	2.324	L/(>1000)	0.930	L/(>1000)	2.324	L/(>1000)	3.486	L/(>1000)
N359/N35	2.324	1.15	3.486	0.02	2.324	1.82	1.162	0.03
8	2.324	L/(>1000)	0.930	L/(>1000)	2.324	L/(>1000)	3.486	L/(>1000)
N337/N36	0.272	0.10	0.272	0.00	0.272	0.17	0.272	0.00
1	0.272	L/(>1000)	0.272	L/(>1000)	0.272	L/(>1000)	0.272	L/(>1000)
N338/N36	0.143	0.00	0.143	0.00	0.143	0.00	0.143	0.00

Flechas								
Grupo	Flecha máxima absoluta xy Flecha máxima relativa xy		Flecha máxima absoluta xz Flecha máxima relativa xz		Flecha ativa absoluta xy Flecha ativa relativa xy		Flecha ativa absoluta xz Flecha ativa relativa xz	
	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)
1	0.143	L/(>1000)	0.143	L/(>1000)	0.143	L/(>1000)	0.143	L/(>1000)
N338/N36	0.285	0.02	0.285	0.00	0.285	0.02	0.285	0.00
2	0.285	L/(>1000)	0.285	L/(>1000)	0.285	L/(>1000)	0.285	L/(>1000)
N341/N36	0.166	0.00	0.166	0.00	0.166	0.00	0.166	0.00
2	0.166	L/(>1000)	0.166	L/(>1000)	0.166	L/(>1000)	0.166	L/(>1000)
N341/N36	0.299	0.01	0.299	0.00	0.299	0.02	0.299	0.00
3	0.299	L/(>1000)	0.299	L/(>1000)	0.299	L/(>1000)	0.299	L/(>1000)
N342/N36	0.189	0.00	0.189	0.00	0.189	0.00	0.189	0.00
3	0.189	L/(>1000)	0.189	L/(>1000)	0.189	L/(>1000)	0.189	L/(>1000)
N342/N36	0.314	0.02	0.314	0.00	0.314	0.02	0.314	0.00
4	0.314	L/(>1000)	0.314	L/(>1000)	0.314	L/(>1000)	0.314	L/(>1000)
N343/N36	0.212	0.00	0.212	0.00	0.212	0.00	0.212	0.00
4	0.212	L/(>1000)	0.212	L/(>1000)	0.212	L/(>1000)	0.212	L/(>1000)
N343/N36	0.330	0.02	0.330	0.00	0.330	0.03	0.330	0.00
5	0.330	L/(>1000)	0.330	L/(>1000)	0.330	L/(>1000)	0.330	L/(>1000)
N344/N36	0.235	0.00	0.235	0.00	0.235	0.00	0.235	0.00
5	0.235	L/(>1000)	0.235	L/(>1000)	0.235	L/(>1000)	0.235	L/(>1000)
N344/N36	0.346	0.02	0.346	0.00	0.346	0.03	0.346	0.00
6	0.346	L/(>1000)	0.346	L/(>1000)	0.346	L/(>1000)	0.346	L/(>1000)
N345/N36	0.258	0.00	0.258	0.00	0.258	0.00	0.258	0.00
6	0.258	L/(>1000)	0.258	L/(>1000)	0.258	L/(>1000)	0.258	L/(>1000)
N345/N36	0.364	0.02	0.364	0.00	0.364	0.03	0.364	0.00
7	0.364	L/(>1000)	0.364	L/(>1000)	0.364	L/(>1000)	0.364	L/(>1000)
N346/N36	0.281	0.00	0.281	0.00	0.281	0.00	0.281	0.00
7	0.281	L/(>1000)	0.281	L/(>1000)	0.281	L/(>1000)	0.281	L/(>1000)
N346/N36	0.382	0.02	0.382	0.00	0.382	0.03	0.382	0.00
8	0.382	L/(>1000)	0.382	L/(>1000)	0.382	L/(>1000)	0.382	L/(>1000)
N347/N36	0.456	0.00	0.152	0.00	0.152	0.01	0.152	0.00
8	0.456	L/(>1000)	0.152	L/(>1000)	0.456	L/(>1000)	0.152	L/(>1000)
N347/N36	0.401	0.02	0.401	0.00	0.401	0.03	0.401	0.00
9	0.401	L/(>1000)	0.401	L/(>1000)	0.401	L/(>1000)	0.401	L/(>1000)
N348/N36	0.491	0.01	0.327	0.00	0.491	0.01	0.327	0.00
9	0.491	L/(>1000)	0.327	L/(>1000)	0.491	L/(>1000)	0.327	L/(>1000)
N348/N35	0.419	0.01	0.629	0.00	0.210	0.01	0.629	0.00
8	0.419	L/(>1000)	0.629	L/(>1000)	0.210	L/(>1000)	0.629	L/(>1000)
N340/N35	0.419	0.01	0.629	0.00	0.210	0.01	0.629	0.00
8	0.419	L/(>1000)	0.629	L/(>1000)	0.210	L/(>1000)	0.629	L/(>1000)
N340/N37	0.491	0.01	0.327	0.00	0.491	0.01	0.327	0.00
0	0.491	L/(>1000)	0.327	L/(>1000)	0.491	L/(>1000)	0.327	L/(>1000)
N349/N37	0.401	0.02	0.401	0.00	0.401	0.03	0.401	0.00
0	0.401	L/(>1000)	0.401	L/(>1000)	0.401	L/(>1000)	0.401	L/(>1000)
N349/N37	0.456	0.00	0.152	0.00	0.152	0.01	0.152	0.00
1	0.456	L/(>1000)	0.152	L/(>1000)	0.456	L/(>1000)	0.152	L/(>1000)
N350/N37	0.382	0.02	0.382	0.00	0.382	0.03	0.382	0.00

Flechas								
Grupo	Flecha máxima absoluta xy Flecha máxima relativa xy		Flecha máxima absoluta xz Flecha máxima relativa xz		Flecha ativa absoluta xy Flecha ativa relativa xy		Flecha ativa absoluta xz Flecha ativa relativa xz	
	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)
1	0.382	L/(>1000)	0.382	L/(>1000)	0.382	L/(>1000)	0.382	L/(>1000)
N350/N37	0.281	0.00	0.281	0.00	0.281	0.00	0.281	0.00
2	0.281	L/(>1000)	0.281	L/(>1000)	0.281	L/(>1000)	0.281	L/(>1000)
N351/N37	0.364	0.02	0.364	0.00	0.364	0.03	0.364	0.00
2	0.364	L/(>1000)	0.364	L/(>1000)	0.364	L/(>1000)	0.364	L/(>1000)
N351/N37	0.258	0.00	0.258	0.00	0.258	0.00	0.258	0.00
3	0.258	L/(>1000)	0.258	L/(>1000)	0.258	L/(>1000)	0.258	L/(>1000)
N352/N37	0.346	0.02	0.346	0.00	0.346	0.03	0.346	0.00
3	0.346	L/(>1000)	0.346	L/(>1000)	0.346	L/(>1000)	0.346	L/(>1000)
N352/N37	0.235	0.00	0.235	0.00	0.235	0.00	0.235	0.00
4	0.235	L/(>1000)	0.235	L/(>1000)	0.235	L/(>1000)	0.235	L/(>1000)
N353/N37	0.330	0.02	0.330	0.00	0.330	0.03	0.330	0.00
4	0.330	L/(>1000)	0.330	L/(>1000)	0.330	L/(>1000)	0.330	L/(>1000)
N353/N37	0.212	0.00	0.212	0.00	0.212	0.00	0.212	0.00
5	0.212	L/(>1000)	0.212	L/(>1000)	0.212	L/(>1000)	0.212	L/(>1000)
N354/N37	0.314	0.02	0.314	0.00	0.314	0.02	0.314	0.00
5	0.314	L/(>1000)	0.314	L/(>1000)	0.314	L/(>1000)	0.314	L/(>1000)
N354/N37	0.189	0.00	0.189	0.00	0.189	0.00	0.189	0.00
6	0.189	L/(>1000)	0.189	L/(>1000)	0.189	L/(>1000)	0.189	L/(>1000)
N355/N37	0.299	0.01	0.299	0.00	0.299	0.02	0.299	0.00
6	0.299	L/(>1000)	0.299	L/(>1000)	0.299	L/(>1000)	0.299	L/(>1000)
N355/N37	0.166	0.00	0.166	0.00	0.166	0.00	0.166	0.00
7	0.166	L/(>1000)	0.166	L/(>1000)	0.166	L/(>1000)	0.166	L/(>1000)
N356/N37	0.285	0.02	0.285	0.00	0.285	0.02	0.285	0.00
7	0.285	L/(>1000)	0.285	L/(>1000)	0.285	L/(>1000)	0.285	L/(>1000)
N356/N37	0.143	0.00	0.143	0.00	0.143	0.00	0.143	0.00
8	0.143	L/(>1000)	0.143	L/(>1000)	0.143	L/(>1000)	0.143	L/(>1000)
N357/N37	0.272	0.10	0.272	0.00	0.272	0.17	0.272	0.00
8	0.272	L/(>1000)	0.272	L/(>1000)	0.272	L/(>1000)	0.272	L/(>1000)
N192/N23	5.455	0.00	4.364	0.00	4.000	0.00	3.636	0.00
2	-	L/(>1000)	-	L/(>1000)	-	L/(>1000)	-	L/(>1000)
N191/N23	5.455	0.00	4.000	0.00	5.455	0.00	4.727	0.00
2	-	L/(>1000)	-	L/(>1000)	-	L/(>1000)	-	L/(>1000)
N233/N19	1.091	0.00	4.727	0.00	1.091	0.00	5.455	0.00
0	-	L/(>1000)	-	L/(>1000)	-	L/(>1000)	-	L/(>1000)
N234/N19	1.818	0.00	4.000	0.00	1.818	0.00	4.000	0.00
0	-	L/(>1000)	-	L/(>1000)	-	L/(>1000)	-	L/(>1000)
N275/N31	4.727	0.00	3.636	0.00	4.727	0.00	3.636	0.00
6	-	L/(>1000)	-	L/(>1000)	-	L/(>1000)	-	L/(>1000)
N276/N31	5.455	0.00	5.091	0.00	5.455	0.00	3.636	0.00
6	-	L/(>1000)	-	L/(>1000)	-	L/(>1000)	-	L/(>1000)
N318/N27	5.455	0.00	3.273	0.00	1.818	0.00	3.273	0.00
4	-	L/(>1000)	-	L/(>1000)	-	L/(>1000)	-	L/(>1000)
N317/N27	1.455	0.00	4.000	0.00	1.455	0.00	4.000	0.00

Flechas								
Grupo	Flecha máxima absoluta xy Flecha máxima relativa xy		Flecha máxima absoluta xz Flecha máxima relativa xz		Flecha ativa absoluta xy Flecha ativa relativa xy		Flecha ativa absoluta xz Flecha ativa relativa xz	
	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)	Pos. (m)	Flecha (mm)
	-	L/(>1000)	-	L/(>1000)	-	L/(>1000)	-	L/(>1000)
4	-	L/(>1000)	-	L/(>1000)	-	L/(>1000)	-	L/(>1000)
N359/N148	2.909	0.00	3.636	0.00	4.000	0.00	4.000	0.00
	-	L/(>1000)	-	L/(>1000)	-	L/(>1000)	-	L/(>1000)
N360/N148	0.727	0.00	2.545	0.00	0.727	0.00	4.727	0.00
	-	L/(>1000)	-	L/(>1000)	-	L/(>1000)	-	L/(>1000)
N150/N358	1.818	0.00	4.364	0.00	1.818	0.00	4.364	0.00
	-	L/(>1000)	-	L/(>1000)	-	L/(>1000)	-	L/(>1000)
N149/N358	3.636	0.00	4.364	0.00	3.636	0.00	4.364	0.00
	-	L/(>1000)	-	L/(>1000)	-	L/(>1000)	-	L/(>1000)

1.1.1.3.- Verificações E.L.U. (Resumido)

Barras	VERIFICAÇÕES (ABNT NBR 8800:2008)												Estado
	λ	N_t	N_c	M_x	M_y	V_x	V_y	NM_xM_y	T	NMVT	$\sigma \tau f$		
N1/N7	$\lambda \leq 200.0$ Passa	$\eta = 3.4$	$\eta = 8.4$	x: 0 m $\eta = 11.9$	x: 0 m $\eta = 15.9$	x: 0 m $\eta = 1.0$	$\eta = 3.0$	x: 0 m $\eta = 31.9$	$\eta = 1.6$	N.A. ⁽¹⁾	x: 0 m $\eta = 35.0$	PASSA $\eta = 35.0$	
N7/N8	$\lambda \leq 200.0$ Passa	$\eta = 1.2$	$\eta = 3.5$	x: 0 m $\eta = 5.4$	x: 0.231 m $\eta = 0.7$	x: 0.463 m $\eta < 0.1$	$\eta = 2.4$	x: 0 m $\eta = 7.4$	$\eta = 1.1$	N.A. ⁽¹⁾	x: 0 m $\eta = 7.5$	PASSA $\eta = 7.5$	
N8/N9	$\lambda \leq 200.0$ Passa	$\eta = 0.3$	$\eta = 0.8$	x: 0.463 m $\eta = 2.0$	x: 0.463 m $\eta = 0.7$	x: 0 m $\eta = 0.1$	$\eta = 0.8$	x: 0.463 m $\eta = 3.1$	$\eta = 0.7$	N.A. ⁽¹⁾	x: 0.463 m $\eta = 3.0$	PASSA $\eta = 3.1$	
N9/N10	$\lambda \leq 200.0$ Passa	$\eta = 1.0$	$\eta = 0.6$	x: 0.463 m $\eta = 1.9$	x: 0.463 m $\eta = 0.7$	x: 0 m $\eta = 0.1$	$\eta = 0.7$	x: 0.463 m $\eta = 3.2$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.9$	PASSA $\eta = 3.2$	
N10/N11	$\lambda \leq 200.0$ Passa	$\eta = 1.8$	$\eta = 0.9$	x: 0.463 m $\eta = 1.2$	x: 0.231 m $\eta = 0.7$	x: 0.463 m $\eta < 0.1$	$\eta = 0.3$	x: 0.463 m $\eta = 2.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.463 m $\eta = 0.4$	PASSA $\eta = 2.4$	
N11/N12	$\lambda \leq 200.0$ Passa	$\eta = 2.3$	$\eta = 1.2$	x: 0.463 m $\eta = 1.1$	x: 0.231 m $\eta = 0.7$	x: 0.463 m $\eta < 0.1$	$\eta = 0.3$	x: 0.463 m $\eta = 2.7$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.463 m $\eta = 0.4$	PASSA $\eta = 2.7$	
N12/N13	$\lambda \leq 200.0$ Passa	$\eta = 2.2$	$\eta = 1.0$	x: 0.463 m $\eta = 1.0$	x: 0 m $\eta = 0.9$	x: 0.463 m $\eta = 0.1$	$\eta = 0.2$	x: 0.231 m $\eta = 2.5$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.463 m $\eta = 0.3$	PASSA $\eta = 2.5$	
N13/N14	$\lambda \leq 200.0$ Passa	$\eta = 2.0$	$\eta = 0.9$	x: 0.463 m $\eta = 1.4$	x: 0 m $\eta = 0.8$	x: 0.463 m $\eta = 0.1$	$\eta = 0.2$	x: 0.231 m $\eta = 2.7$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.463 m $\eta = 0.3$	PASSA $\eta = 2.7$	
N14/N15	$\lambda \leq 200.0$ Passa	$\eta = 1.4$	$\eta = 0.5$	x: 0.463 m $\eta = 1.9$	x: 0 m $\eta = 1.0$	x: 0.463 m $\eta = 0.1$	$\eta = 0.1$	x: 0 m $\eta = 3.2$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.463 m $\eta = 0.3$	PASSA $\eta = 3.2$	
N15/N3	$\lambda \leq 200.0$ Passa	$\eta = 0.8$	$\eta = 0.2$	x: 0 m $\eta = 2.0$	x: 0 m $\eta = 0.8$	x: 0.463 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 3.3$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.463 m $\eta = 0.3$	PASSA $\eta = 3.3$	
N3/N16	$\lambda \leq 200.0$ Passa	$\eta = 0.8$	$\eta = 0.2$	x: 0.463 m $\eta = 2.0$	x: 0.463 m $\eta = 0.8$	x: 0 m $\eta = 0.1$	$\eta < 0.1$	x: 0.463 m $\eta = 3.3$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.3$	PASSA $\eta = 3.3$	
N16/N17	$\lambda \leq 200.0$ Passa	$\eta = 1.4$	$\eta = 0.5$	x: 0 m $\eta = 1.9$	x: 0.463 m $\eta = 1.0$	x: 0 m $\eta = 0.1$	$\eta = 0.1$	x: 0.463 m $\eta = 3.2$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.3$	PASSA $\eta = 3.2$	
N17/N18	$\lambda \leq 200.0$ Passa	$\eta = 2.0$	$\eta = 0.9$	x: 0 m $\eta = 1.4$	x: 0.463 m $\eta = 0.8$	x: 0 m $\eta = 0.1$	$\eta = 0.2$	x: 0.231 m $\eta = 2.7$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.3$	PASSA $\eta = 2.7$	
N18/N19	$\lambda \leq 200.0$ Passa	$\eta = 2.2$	$\eta = 1.0$	x: 0 m $\eta = 1.0$	x: 0.463 m $\eta = 0.9$	x: 0 m $\eta = 0.1$	$\eta = 0.2$	x: 0.231 m $\eta = 2.5$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.3$	PASSA $\eta = 2.5$	
N19/N20	$\lambda \leq 200.0$ Passa	$\eta = 2.3$	$\eta = 1.2$	x: 0 m $\eta = 1.1$	x: 0.231 m $\eta = 0.7$	x: 0 m $\eta < 0.1$	$\eta = 0.3$	x: 0 m $\eta = 2.7$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.4$	PASSA $\eta = 2.7$	
N20/N21	$\lambda \leq 200.0$ Passa	$\eta = 1.8$	$\eta = 0.9$	x: 0 m $\eta = 1.2$	x: 0.231 m $\eta = 0.7$	x: 0 m $\eta < 0.1$	$\eta = 0.3$	x: 0 m $\eta = 2.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.4$	PASSA $\eta = 2.4$	
N21/N22	$\lambda \leq 200.0$ Passa	$\eta = 1.0$	$\eta = 0.6$	x: 0 m $\eta = 1.9$	x: 0 m $\eta = 0.7$	x: 0.463 m $\eta = 0.1$	$\eta = 0.7$	x: 0 m $\eta = 3.2$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.463 m $\eta = 0.9$	PASSA $\eta = 3.2$	
N22/N23	$\lambda \leq 200.0$ Passa	$\eta = 0.3$	$\eta = 0.8$	x: 0 m $\eta = 2.0$	x: 0 m $\eta = 0.7$	x: 0.463 m $\eta = 0.1$	$\eta = 0.8$	x: 0 m $\eta = 3.1$	$\eta = 0.7$	N.A. ⁽¹⁾	x: 0 m $\eta = 3.0$	PASSA $\eta = 3.1$	
N23/N24	$\lambda \leq 200.0$ Passa	$\eta = 1.2$	$\eta = 3.5$	x: 0.463 m $\eta = 5.4$	x: 0.231 m $\eta = 0.7$	x: 0 m $\eta < 0.1$	$\eta = 2.4$	x: 0.463 m $\eta = 7.4$	$\eta = 1.1$	N.A. ⁽¹⁾	x: 0.463 m $\eta = 7.5$	PASSA $\eta = 7.5$	

Barras	VERIFICAÇÕES (ABNT NBR 8800:2008)											Estado
	λ	N_t	N_c	M_x	M_y	V_x	V_y	NM_xM_y	T	$NMVT$	$\sigma_{\tau f}$	
N24/N2	$\lambda \leq 200.0$ Passa	$\eta = 3.4$	$\eta = 8.4$	x: 0.463 m $\eta = 11.9$	x: 0.463 m $\eta = 15.9$	x: 0.463 m $\eta = 1.0$	$\eta = 3.0$	x: 0.463 m $\eta = 31.9$	$\eta = 1.6$	N.A. ⁽¹⁾	x: 0.463 m $\eta = 35.0$	PASSA $\eta = 35.0$
N3/N4	x: 0 m $\lambda \leq 200.0$ Passa	x: 0.7 m $\eta = 0.1$	x: 0 m $\eta < 0.1$	x: 0.7 m $\eta = 0.2$	N.A. ⁽⁴⁾	N.A. ⁽⁵⁾	$\eta = 0.1$	x: 0.7 m $\eta = 0.3$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁶⁾	PASSA $\eta = 0.3$
N2/N5	$\lambda \leq 200.0$ Passa	x: 0.24 m $\eta = 0.2$	x: 0 m $\eta = 0.2$	x: 0.24 m $\eta = 5.3$	x: 0 m $\eta = 20.5$	$\eta = 1.9$	$\eta = 0.4$	x: 0 m $\eta = 25.2$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 4.9$	PASSA $\eta = 25.2$
N1/N6	$\lambda \leq 200.0$ Passa	x: 0.24 m $\eta = 0.2$	x: 0 m $\eta = 0.2$	x: 0.24 m $\eta = 5.3$	x: 0 m $\eta = 20.5$	$\eta = 1.9$	$\eta = 0.4$	x: 0 m $\eta = 25.2$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 4.9$	PASSA $\eta = 25.2$
N6/N34	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 0.7$	x: 0 m $\eta = 0.5$	x: 0.465 m $\eta = 5.0$	x: 0 m $\eta = 2.3$	x: 0.465 m $\eta = 0.2$	$\eta = 1.5$	x: 0.465 m $\eta = 7.5$	$\eta = 1.1$	N.A. ⁽¹⁾	x: 0.465 m $\eta = 6.9$	PASSA $\eta = 7.5$
N34/N35	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 1.9$	x: 0 m $\eta = 5.1$	x: 0.465 m $\eta = 3.2$	x: 0.465 m $\eta = 0.9$	x: 0 m $\eta = 0.1$	$\eta = 0.8$	x: 0.465 m $\eta = 6.5$	$\eta = 1.3$	N.A. ⁽¹⁾	x: 0.465 m $\eta = 6.1$	PASSA $\eta = 6.5$
N35/N36	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 4.1$	x: 0 m $\eta = 9.8$	x: 0 m $\eta = 2.5$	x: 0 m $\eta = 0.5$	x: 0 m $\eta < 0.1$	$\eta = 0.9$	x: 0 m $\eta = 7.1$	$\eta = 0.6$	N.A. ⁽¹⁾	x: 0 m $\eta = 7.3$	PASSA $\eta = 9.8$
N36/N37	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 5.1$	x: 0 m $\eta = 12.5$	x: 0 m $\eta = 2.1$	x: 0.232 m $\eta = 0.7$	x: 0 m $\eta < 0.1$	$\eta = 1.1$	x: 0 m $\eta = 8.7$	$\eta = 0.7$	N.A. ⁽¹⁾	x: 0 m $\eta = 7.6$	PASSA $\eta = 12.5$
N37/N38	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 6.0$	x: 0 m $\eta = 14.4$	x: 0 m $\eta = 1.5$	x: 0 m $\eta = 0.9$	x: 0.465 m $\eta = 0.1$	$\eta = 0.5$	x: 0 m $\eta = 9.1$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.6$	PASSA $\eta = 14.4$
N38/N39	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 6.2$	x: 0 m $\eta = 15.3$	x: 0.465 m $\eta = 1.2$	x: 0 m $\eta = 0.7$	x: 0.465 m $\eta = 0.1$	$\eta = 0.6$	x: 0 m $\eta = 9.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.7$	PASSA $\eta = 15.3$
N39/N40	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 6.6$	x: 0 m $\eta = 15.8$	x: 0 m $\eta = 0.8$	x: 0 m $\eta = 1.1$	x: 0.465 m $\eta = 0.1$	$\eta = 0.3$	x: 0 m $\eta = 9.2$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.4$	PASSA $\eta = 15.8$
N40/N41	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 6.4$	x: 0 m $\eta = 15.7$	x: 0.465 m $\eta = 1.1$	x: 0 m $\eta = 0.8$	x: 0.465 m $\eta = 0.1$	$\eta = 0.4$	x: 0 m $\eta = 8.9$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.5$	PASSA $\eta = 15.7$
N41/N42	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 6.4$	x: 0 m $\eta = 15.5$	x: 0.465 m $\eta = 2.1$	x: 0 m $\eta = 1.1$	x: 0.465 m $\eta = 0.1$	$\eta = 0.8$	x: 0.465 m $\eta = 9.8$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 1.0$	PASSA $\eta = 15.5$
N42/N4	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 6.0$	x: 0 m $\eta = 14.8$	x: 0.465 m $\eta = 4.5$	x: 0.465 m $\eta = 1.3$	x: 0.465 m $\eta = 0.1$	$\eta = 0.7$	x: 0.465 m $\eta = 13.2$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 1.0$	PASSA $\eta = 14.8$
N5/N33	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 0.7$	x: 0 m $\eta = 0.5$	x: 0.465 m $\eta = 5.0$	x: 0 m $\eta = 2.3$	x: 0.465 m $\eta = 0.2$	$\eta = 1.5$	x: 0.465 m $\eta = 7.5$	$\eta = 1.1$	N.A. ⁽¹⁾	x: 0.465 m $\eta = 6.9$	PASSA $\eta = 7.5$
N33/N32	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 1.9$	x: 0 m $\eta = 5.1$	x: 0.465 m $\eta = 3.2$	x: 0.465 m $\eta = 0.9$	x: 0 m $\eta = 0.1$	$\eta = 0.8$	x: 0.465 m $\eta = 6.5$	$\eta = 1.3$	N.A. ⁽¹⁾	x: 0.465 m $\eta = 6.1$	PASSA $\eta = 6.5$
N32/N31	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 4.1$	x: 0 m $\eta = 9.8$	x: 0 m $\eta = 2.5$	x: 0 m $\eta = 0.5$	x: 0 m $\eta < 0.1$	$\eta = 0.9$	x: 0 m $\eta = 7.1$	$\eta = 0.6$	N.A. ⁽¹⁾	x: 0 m $\eta = 7.3$	PASSA $\eta = 9.8$
N31/N30	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 5.1$	x: 0 m $\eta = 12.5$	x: 0 m $\eta = 2.1$	x: 0.232 m $\eta = 0.7$	x: 0 m $\eta < 0.1$	$\eta = 1.1$	x: 0 m $\eta = 8.7$	$\eta = 0.7$	N.A. ⁽¹⁾	x: 0 m $\eta = 7.6$	PASSA $\eta = 12.5$
N30/N29	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 6.0$	x: 0 m $\eta = 14.4$	x: 0 m $\eta = 1.5$	x: 0 m $\eta = 0.9$	x: 0.465 m $\eta = 0.1$	$\eta = 0.5$	x: 0 m $\eta = 9.1$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.6$	PASSA $\eta = 14.4$
N29/N28	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 6.2$	x: 0 m $\eta = 15.3$	x: 0.465 m $\eta = 1.2$	x: 0 m $\eta = 0.7$	x: 0.465 m $\eta = 0.1$	$\eta = 0.6$	x: 0 m $\eta = 9.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.7$	PASSA $\eta = 15.3$
N28/N27	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 6.6$	x: 0 m $\eta = 15.8$	x: 0 m $\eta = 0.8$	x: 0 m $\eta = 1.1$	x: 0.465 m $\eta = 0.1$	$\eta = 0.3$	x: 0 m $\eta = 9.2$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.4$	PASSA $\eta = 15.8$
N27/N26	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 6.4$	x: 0 m $\eta = 15.7$	x: 0.465 m $\eta = 1.1$	x: 0 m $\eta = 0.8$	x: 0.465 m $\eta = 0.1$	$\eta = 0.4$	x: 0 m $\eta = 8.9$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.5$	PASSA $\eta = 15.7$
N26/N25	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 6.4$	x: 0 m $\eta = 15.5$	x: 0.465 m $\eta = 2.1$	x: 0 m $\eta = 1.1$	x: 0.465 m $\eta = 0.1$	$\eta = 0.8$	x: 0.465 m $\eta = 9.8$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 1.0$	PASSA $\eta = 15.5$
N25/N4	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 6.0$	x: 0 m $\eta = 14.8$	x: 0.465 m $\eta = 4.5$	x: 0.465 m $\eta = 1.3$	x: 0.465 m $\eta = 0.1$	$\eta = 0.7$	x: 0.465 m $\eta = 13.2$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 1.0$	PASSA $\eta = 14.8$
N1/N34	$\lambda \leq 200.0$ Passa	x: 0.544 m $\eta = 2.8$	x: 0 m $\eta = 7.0$	x: 0.544 m $\eta = 5.1$	x: 0 m $\eta = 13.0$	x: 0 m $\eta = 0.7$	$\eta = 0.5$	x: 0 m $\eta = 19.7$	$\eta = 1.0$	N.A. ⁽¹⁾	x: 0 m $\eta = 16.6$	PASSA $\eta = 19.7$
N7/N34	$\lambda \leq 200.0$ Passa	x: 0.286 m $\eta = 2.8$	x: 0 m $\eta = 1.3$	x: 0 m $\eta = 3.0$	x: 0 m $\eta = 4.4$	$\eta = 0.6$	$\eta = 0.3$	x: 0 m $\eta = 8.8$	$\eta = 1.1$	N.A. ⁽¹⁾	x: 0.286 m $\eta = 6.5$	PASSA $\eta = 8.8$
N7/N35	$\lambda \leq 200.0$ Passa	x: 0.569 m $\eta = 2.6$	x: 0 m $\eta = 6.1$	x: 0.569 m $\eta = 6.5$	x: 0 m $\eta = 1.3$	x: 0.569 m $\eta = 0.1$	$\eta = 0.3$	x: 0.569 m $\eta = 10.0$	$\eta = 0.6$	N.A. ⁽¹⁾	x: 0.569 m $\eta = 9.3$	PASSA $\eta = 10.0$
N8/N35	$\lambda \leq 200.0$ Passa	x: 0.332 m $\eta = 2.0$	x: 0 m $\eta = 0.8$	x: 0 m $\eta = 3.1$	x: 0.332 m $\eta = 0.1$	$\eta < 0.1$	$\eta = 1.8$	x: 0 m $\eta = 4.1$	$\eta = 0.6$	N.A. ⁽¹⁾	x: 0 m $\eta = 4.3$	PASSA $\eta = 4.3$
N8/N36	$\lambda \leq 200.0$ Passa	x: 0.597 m $\eta = 1.3$	x: 0 m $\eta = 3.6$	x: 0 m $\eta = 5.0$	x: 0 m $\eta = 0.5$	x: 0.597 m $\eta = 0.1$	$\eta = 0.2$	x: 0 m $\eta = 7.2$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.597 m $\eta = 0.4$	PASSA $\eta = 7.2$
N9/N36	$\lambda \leq 200.0$ Passa	x: 0.378 m $\eta = 1.7$	x: 0 m $\eta = 0.8$	x: 0 m $\eta = 2.4$	x: 0 m $\eta = 0.2$	$\eta < 0.1$	$\eta = 0.1$	x: 0 m $\eta = 3.2$	$\eta = 0.5$	N.A. ⁽¹⁾	x: 0 m $\eta = 3.8$	PASSA $\eta = 3.8$

Barras	VERIFICAÇÕES (ABNT NBR 8800:2008)											Estado
	λ	N_t	N_c	M_x	M_y	V_x	V_y	NM_xM_y	T	NMVT	$\sigma_{\tau f}$	
N9/N37	$\lambda \leq 200.0$ Passa	x: 0.627 m $\eta = 1.1$	x: 0 m $\eta = 2.9$	x: 0.627 m $\eta = 3.5$	x: 0.157 m $\eta = 0.6$	x: 0.627 m $\eta = 0.1$	$\eta = 0.1$	x: 0.157 m $\eta = 5.6$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.1$	PASSA $\eta = 5.6$
N10/N37	$\lambda \leq 200.0$ Passa	x: 0.424 m $\eta = 0.8$	x: 0 m $\eta = 0.2$	x: 0 m $\eta = 1.8$	x: 0 m $\eta = 0.5$	$\eta < 0.1$	$\eta = 0.6$	x: 0 m $\eta = 2.7$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.7$	PASSA $\eta = 2.7$
N10/N38	$\lambda \leq 200.0$ Passa	x: 0.659 m $\eta = 0.4$	x: 0 m $\eta = 1.4$	x: 0 m $\eta = 2.6$	x: 0.165 m $\eta = 0.7$	x: 0.659 m $\eta = 0.1$	$\eta = 0.1$	x: 0 m $\eta = 3.9$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.659 m $\eta = 0.3$	PASSA $\eta = 3.9$
N11/N38	$\lambda \leq 200.0$ Passa	x: 0.47 m $\eta = 0.7$	x: 0 m $\eta = 0.3$	x: 0 m $\eta = 1.2$	x: 0.47 m $\eta = 0.7$	$\eta = 0.1$	$\eta < 0.1$	x: 0.47 m $\eta = 2.2$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.1$	PASSA $\eta = 2.2$
N11/N39	$\lambda \leq 200.0$ Passa	x: 0.693 m $\eta = 0.4$	x: 0 m $\eta = 1.0$	x: 0.693 m $\eta = 1.6$	x: 0.173 m $\eta = 0.6$	x: 0.693 m $\eta < 0.1$	$\eta < 0.1$	x: 0.173 m $\eta = 2.7$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.693 m $\eta = 0.1$	PASSA $\eta = 2.7$
N12/N39	$\lambda \leq 200.0$ Passa	x: 0.516 m $\eta = 0.2$	x: 0 m $\eta = 0.1$	x: 0 m $\eta = 0.8$	x: 0 m $\eta = 0.8$	$\eta = 0.1$	$\eta = 0.2$	x: 0 m $\eta = 1.7$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.3$	PASSA $\eta = 1.7$
N12/N40	$\lambda \leq 200.0$ Passa	x: 0.728 m $\eta = 0.2$	x: 0 m $\eta = 0.3$	x: 0 m $\eta = 1.1$	x: 0 m $\eta = 0.4$	x: 0.728 m $\eta < 0.1$	$\eta = 0.1$	x: 0 m $\eta = 1.5$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.728 m $\eta = 0.2$	PASSA $\eta = 1.5$
N13/N40	$\lambda \leq 200.0$ Passa	x: 0.562 m $\eta = 0.1$	x: 0 m $\eta = 0.2$	x: 0.562 m $\eta = 0.4$	x: 0.562 m $\eta = 0.9$	$\eta = 0.1$	$\eta < 0.1$	x: 0.562 m $\eta = 1.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.2$	PASSA $\eta = 1.4$
N13/N41	$\lambda \leq 200.0$ Passa	x: 0.764 m $\eta = 0.3$	x: 0 m $\eta = 0.1$	x: 0 m $\eta = 0.4$	x: 0.764 m $\eta = 0.4$	x: 0.764 m $\eta < 0.1$	$\eta < 0.1$	x: 0.382 m $\eta = 0.8$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.764 m $\eta = 0.1$	PASSA $\eta = 0.8$
N14/N41	$\lambda \leq 200.0$ Passa	x: 0.608 m $\eta = 0.6$	x: 0 m $\eta = 1.0$	x: 0.608 m $\eta = 0.7$	x: 0.608 m $\eta = 1.0$	$\eta = 0.1$	$\eta = 0.1$	x: 0.608 m $\eta = 2.0$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.2$	PASSA $\eta = 2.0$
N14/N42	$\lambda \leq 200.0$ Passa	x: 0.801 m $\eta = 1.1$	x: 0 m $\eta = 0.8$	x: 0.801 m $\eta = 0.2$	x: 0.801 m $\eta = 0.3$	x: 0.801 m $\eta < 0.1$	$\eta < 0.1$	x: 0.401 m $\eta = 1.1$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.1$	PASSA $\eta = 1.1$
N15/N42	$\lambda \leq 200.0$ Passa	x: 0.654 m $\eta = 0.4$	x: 0 m $\eta = 1.0$	x: 0 m $\eta = 0.2$	x: 0.654 m $\eta = 1.2$	$\eta = 0.1$	$\eta < 0.1$	x: 0.654 m $\eta = 1.9$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.2$	PASSA $\eta = 1.9$
N15/N4	$\lambda \leq 200.0$ Passa	x: 0.839 m $\eta = 1.1$	x: 0 m $\eta = 0.6$	x: 0.839 m $\eta = 0.8$	x: 0.839 m $\eta = 0.3$	x: 0.839 m $\eta < 0.1$	$\eta = 0.2$	x: 0.839 m $\eta = 1.6$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.839 m $\eta = 0.2$	PASSA $\eta = 1.6$
N16/N4	$\lambda \leq 200.0$ Passa	x: 0.839 m $\eta = 1.1$	x: 0 m $\eta = 0.6$	x: 0.839 m $\eta = 0.8$	x: 0.839 m $\eta = 0.3$	x: 0.839 m $\eta < 0.1$	$\eta = 0.2$	x: 0.839 m $\eta = 1.6$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.839 m $\eta = 0.2$	PASSA $\eta = 1.6$
N16/N25	$\lambda \leq 200.0$ Passa	x: 0.654 m $\eta = 0.4$	x: 0 m $\eta = 1.0$	x: 0 m $\eta = 0.2$	x: 0.654 m $\eta = 1.2$	$\eta = 0.1$	$\eta < 0.1$	x: 0.654 m $\eta = 1.9$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.2$	PASSA $\eta = 1.9$
N17/N25	$\lambda \leq 200.0$ Passa	x: 0.801 m $\eta = 1.1$	x: 0 m $\eta = 0.8$	x: 0.801 m $\eta = 0.2$	x: 0.801 m $\eta = 0.3$	x: 0.801 m $\eta < 0.1$	$\eta < 0.1$	x: 0.401 m $\eta = 1.1$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.1$	PASSA $\eta = 1.1$
N17/N26	$\lambda \leq 200.0$ Passa	x: 0.608 m $\eta = 0.6$	x: 0 m $\eta = 1.0$	x: 0.608 m $\eta = 0.7$	x: 0.608 m $\eta = 1.0$	$\eta = 0.1$	$\eta = 0.1$	x: 0.608 m $\eta = 2.0$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.2$	PASSA $\eta = 2.0$
N18/N26	$\lambda \leq 200.0$ Passa	x: 0.764 m $\eta = 0.3$	x: 0 m $\eta = 0.1$	x: 0 m $\eta = 0.4$	x: 0.764 m $\eta = 0.4$	x: 0.764 m $\eta < 0.1$	$\eta < 0.1$	x: 0.382 m $\eta = 0.8$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.764 m $\eta = 0.1$	PASSA $\eta = 0.8$
N18/N27	$\lambda \leq 200.0$ Passa	x: 0.562 m $\eta = 0.1$	x: 0 m $\eta = 0.2$	x: 0.562 m $\eta = 0.4$	x: 0.562 m $\eta = 0.9$	$\eta = 0.1$	$\eta < 0.1$	x: 0.562 m $\eta = 1.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.2$	PASSA $\eta = 1.4$
N19/N27	$\lambda \leq 200.0$ Passa	x: 0.728 m $\eta = 0.2$	x: 0 m $\eta = 0.3$	x: 0 m $\eta = 1.1$	x: 0 m $\eta = 0.4$	x: 0.728 m $\eta < 0.1$	$\eta = 0.1$	x: 0 m $\eta = 1.5$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.728 m $\eta = 0.2$	PASSA $\eta = 1.5$
N19/N28	$\lambda \leq 200.0$ Passa	x: 0.516 m $\eta = 0.2$	x: 0 m $\eta = 0.1$	x: 0 m $\eta = 0.8$	x: 0 m $\eta = 0.8$	$\eta = 0.1$	$\eta = 0.2$	x: 0 m $\eta = 1.7$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.3$	PASSA $\eta = 1.7$
N20/N28	$\lambda \leq 200.0$ Passa	x: 0.693 m $\eta = 0.4$	x: 0 m $\eta = 1.0$	x: 0.693 m $\eta = 1.6$	x: 0.173 m $\eta = 0.6$	x: 0.693 m $\eta < 0.1$	$\eta < 0.1$	x: 0.173 m $\eta = 2.7$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.693 m $\eta = 0.1$	PASSA $\eta = 2.7$
N20/N29	$\lambda \leq 200.0$ Passa	x: 0.47 m $\eta = 0.7$	x: 0 m $\eta = 0.3$	x: 0 m $\eta = 1.2$	x: 0.47 m $\eta = 0.7$	$\eta = 0.1$	$\eta < 0.1$	x: 0.47 m $\eta = 2.2$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.1$	PASSA $\eta = 2.2$
N21/N29	$\lambda \leq 200.0$ Passa	x: 0.659 m $\eta = 0.4$	x: 0 m $\eta = 1.4$	x: 0 m $\eta = 2.6$	x: 0.165 m $\eta = 0.7$	x: 0.659 m $\eta = 0.1$	$\eta = 0.1$	x: 0 m $\eta = 3.9$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.659 m $\eta = 0.3$	PASSA $\eta = 3.9$
N21/N30	$\lambda \leq 200.0$ Passa	x: 0.424 m $\eta = 0.8$	x: 0 m $\eta = 0.2$	x: 0 m $\eta = 1.8$	x: 0 m $\eta = 0.5$	$\eta < 0.1$	$\eta = 0.6$	x: 0 m $\eta = 2.7$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.7$	PASSA $\eta = 2.7$
N22/N30	$\lambda \leq 200.0$ Passa	x: 0.627 m $\eta = 1.1$	x: 0 m $\eta = 2.9$	x: 0.627 m $\eta = 3.5$	x: 0.157 m $\eta = 0.6$	x: 0.627 m $\eta = 0.1$	$\eta = 0.1$	x: 0.157 m $\eta = 5.6$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.1$	PASSA $\eta = 5.6$
N22/N31	$\lambda \leq 200.0$ Passa	x: 0.378 m $\eta = 1.7$	x: 0 m $\eta = 0.8$	x: 0 m $\eta = 2.4$	x: 0 m $\eta = 0.2$	$\eta < 0.1$	$\eta = 0.1$	x: 0 m $\eta = 3.2$	$\eta = 0.5$	N.A. ⁽¹⁾	x: 0 m $\eta = 3.8$	PASSA $\eta = 3.8$
N23/N31	$\lambda \leq 200.0$ Passa	x: 0.597 m $\eta = 1.3$	x: 0 m $\eta = 3.6$	x: 0 m $\eta = 5.0$	x: 0 m $\eta = 0.5$	x: 0.597 m $\eta = 0.1$	$\eta = 0.2$	x: 0 m $\eta = 7.2$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.597 m $\eta = 0.4$	PASSA $\eta = 7.2$
N23/N32	$\lambda \leq 200.0$ Passa	x: 0.332 m $\eta = 2.0$	x: 0 m $\eta = 0.8$	x: 0 m $\eta = 3.1$	x: 0.332 m $\eta = 0.1$	$\eta < 0.1$	$\eta = 1.8$	x: 0 m $\eta = 4.1$	$\eta = 0.6$	N.A. ⁽¹⁾	x: 0 m $\eta = 4.3$	PASSA $\eta = 4.3$
N24/N32	$\lambda \leq 200.0$ Passa	x: 0.569 m $\eta = 2.6$	x: 0 m $\eta = 6.1$	x: 0.569 m $\eta = 6.5$	x: 0 m $\eta = 1.3$	x: 0.569 m $\eta = 0.1$	$\eta = 0.3$	x: 0.569 m $\eta = 10.0$	$\eta = 0.6$	N.A. ⁽¹⁾	x: 0.569 m $\eta = 9.3$	PASSA $\eta = 10.0$

Barras	VERIFICAÇÕES (ABNT NBR 8800:2008)											Estado
	λ	N_t	N_c	M_x	M_y	V_x	V_y	NM_xM_y	T	NMVT	$\sigma_{\tau f}$	
N24/N33	$\lambda \leq 200.0$ Passa	x: 0.286 m $\eta = 2.8$	x: 0 m $\eta = 1.3$	x: 0 m $\eta = 3.0$	x: 0 m $\eta = 4.4$	$\eta = 0.6$	$\eta = 0.3$	x: 0 m $\eta = 8.8$	$\eta = 1.1$	N.A. ⁽¹⁾	x: 0.286 m $\eta = 6.5$	PASSA $\eta = 8.8$
N2/N33	$\lambda \leq 200.0$ Passa	x: 0.544 m $\eta = 2.8$	x: 0 m $\eta = 7.0$	x: 0.544 m $\eta = 5.1$	x: 0 m $\eta = 13.0$	x: 0 m $\eta = 0.7$	$\eta = 0.5$	x: 0 m $\eta = 19.7$	$\eta = 1.0$	N.A. ⁽¹⁾	x: 0 m $\eta = 16.6$	PASSA $\eta = 19.7$
N85/N86	$\lambda \leq 200.0$ Passa	$\eta = 10.6$	$\eta = 17.2$	x: 0 m $\eta = 3.7$	x: 0 m $\eta = 32.6$	x: 0 m $\eta = 2.0$	$\eta = 1.0$	x: 0 m $\eta = 44.9$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 5.6$	PASSA $\eta = 44.9$
N86/N89	$\lambda \leq 200.0$ Passa	$\eta = 4.2$	$\eta = 7.1$	x: 0.463 m $\eta = 1.5$	x: 0.231 m $\eta = 1.3$	x: 0.463 m $\eta = 0.1$	$\eta = 0.7$	x: 0.463 m $\eta = 6.3$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.9$	PASSA $\eta = 7.1$
N89/N90	$\lambda \leq 200.0$ Passa	$\eta = 0.9$	$\eta = 1.7$	x: 0.463 m $\eta = 0.8$	x: 0.463 m $\eta = 1.6$	x: 0 m $\eta = 0.1$	$\eta = 0.1$	x: 0.463 m $\eta = 3.3$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.4$	PASSA $\eta = 3.3$
N90/N91	$\lambda \leq 200.0$ Passa	$\eta = 2.2$	$\eta = 1.8$	x: 0.463 m $\eta = 0.5$	x: 0.463 m $\eta = 1.8$	x: 0 m $\eta = 0.1$	$\eta = 0.1$	x: 0.463 m $\eta = 3.3$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.3$	PASSA $\eta = 3.3$
N91/N92	$\lambda \leq 200.0$ Passa	$\eta = 3.7$	$\eta = 2.8$	x: 0.463 m $\eta = 0.2$	x: 0 m $\eta = 1.4$	x: 0.463 m $\eta < 0.1$	$\eta < 0.1$	x: 0.231 m $\eta = 3.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.463 m $\eta = 0.1$	PASSA $\eta = 3.7$
N92/N93	$\lambda \leq 200.0$ Passa	$\eta = 4.8$	$\eta = 3.6$	x: 0.463 m $\eta = 0.1$	x: 0.231 m $\eta = 1.4$	x: 0.463 m $\eta < 0.1$	$\eta < 0.1$	x: 0.231 m $\eta = 3.8$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.463 m $\eta = 0.1$	PASSA $\eta = 4.8$
N93/N94	$\lambda \leq 200.0$ Passa	$\eta = 4.5$	$\eta = 3.2$	x: 0.463 m $\eta < 0.1$	x: 0 m $\eta = 1.9$	x: 0.463 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 4.1$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.2$	PASSA $\eta = 4.5$
N94/N95	$\lambda \leq 200.0$ Passa	$\eta = 4.2$	$\eta = 3.0$	x: 0.463 m $\eta = 0.1$	x: 0 m $\eta = 1.7$	x: 0.463 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 3.8$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.463 m $\eta = 0.3$	PASSA $\eta = 4.2$
N95/N96	$\lambda \leq 200.0$ Passa	$\eta = 2.8$	$\eta = 1.8$	x: 0.463 m $\eta = 0.4$	x: 0 m $\eta = 2.1$	x: 0.463 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 3.7$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.463 m $\eta = 0.3$	PASSA $\eta = 3.7$
N96/N87	$\lambda \leq 200.0$ Passa	$\eta = 1.6$	$\eta = 0.9$	x: 0 m $\eta = 0.5$	x: 0 m $\eta = 1.8$	x: 0.463 m $\eta = 0.2$	$\eta < 0.1$	x: 0 m $\eta = 3.0$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.463 m $\eta = 0.4$	PASSA $\eta = 3.0$
N87/N88	$\lambda \leq 200.0$ Passa	$\eta = 1.6$	$\eta = 0.9$	x: 0.463 m $\eta = 0.5$	x: 0.463 m $\eta = 1.8$	x: 0 m $\eta = 0.2$	$\eta < 0.1$	x: 0.463 m $\eta = 3.0$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.4$	PASSA $\eta = 3.0$
N88/N97	$\lambda \leq 200.0$ Passa	$\eta = 2.8$	$\eta = 1.8$	x: 0 m $\eta = 0.4$	x: 0.463 m $\eta = 2.1$	x: 0 m $\eta = 0.1$	$\eta < 0.1$	x: 0.463 m $\eta = 3.7$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.3$	PASSA $\eta = 3.7$
N97/N98	$\lambda \leq 200.0$ Passa	$\eta = 4.2$	$\eta = 3.0$	x: 0 m $\eta = 0.1$	x: 0.463 m $\eta = 1.7$	x: 0 m $\eta = 0.1$	$\eta < 0.1$	x: 0.463 m $\eta = 3.8$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.3$	PASSA $\eta = 4.2$
N98/N99	$\lambda \leq 200.0$ Passa	$\eta = 4.5$	$\eta = 3.2$	x: 0 m $\eta < 0.1$	x: 0.463 m $\eta = 1.9$	x: 0 m $\eta = 0.1$	$\eta < 0.1$	x: 0.463 m $\eta = 4.1$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.463 m $\eta = 0.2$	PASSA $\eta = 4.5$
N99/N100	$\lambda \leq 200.0$ Passa	$\eta = 4.8$	$\eta = 3.6$	x: 0 m $\eta = 0.1$	x: 0.231 m $\eta = 1.4$	x: 0 m $\eta < 0.1$	$\eta < 0.1$	x: 0.231 m $\eta = 3.8$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.1$	PASSA $\eta = 4.8$
N100/N101	$\lambda \leq 200.0$ Passa	$\eta = 3.7$	$\eta = 2.8$	x: 0 m $\eta = 0.2$	x: 0.463 m $\eta = 1.4$	x: 0 m $\eta < 0.1$	$\eta < 0.1$	x: 0.231 m $\eta = 3.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.1$	PASSA $\eta = 3.7$
N101/N102	$\lambda \leq 200.0$ Passa	$\eta = 2.2$	$\eta = 1.8$	x: 0 m $\eta = 0.5$	x: 0 m $\eta = 1.8$	x: 0.463 m $\eta = 0.1$	$\eta = 0.1$	x: 0 m $\eta = 3.3$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.463 m $\eta = 0.3$	PASSA $\eta = 3.3$
N102/N103	$\lambda \leq 200.0$ Passa	$\eta = 0.9$	$\eta = 1.7$	x: 0 m $\eta = 0.8$	x: 0 m $\eta = 1.6$	x: 0.463 m $\eta = 0.1$	$\eta = 0.1$	x: 0 m $\eta = 3.3$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.463 m $\eta = 0.4$	PASSA $\eta = 3.3$
N103/N104	$\lambda \leq 200.0$ Passa	$\eta = 4.2$	$\eta = 7.1$	x: 0 m $\eta = 1.5$	x: 0.231 m $\eta = 1.3$	x: 0 m $\eta = 0.1$	$\eta = 0.7$	x: 0 m $\eta = 6.3$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.9$	PASSA $\eta = 7.1$
N104/N105	$\lambda \leq 200.0$ Passa	$\eta = 10.6$	$\eta = 17.2$	x: 0.463 m $\eta = 3.7$	x: 0.463 m $\eta = 32.6$	x: 0.463 m $\eta = 2.0$	$\eta = 1.0$	x: 0.463 m $\eta = 44.9$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.463 m $\eta = 5.6$	PASSA $\eta = 44.9$
N87/N106	$\lambda \leq 200.0$ Passa	x: 0.7 m $\eta = 0.1$	x: 0 m $\eta < 0.1$	x: 0.7 m $\eta = 0.1$	N.A. ⁽⁴⁾	N.A. ⁽⁵⁾	$\eta < 0.1$	x: 0.7 m $\eta = 0.2$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁶⁾	PASSA $\eta = 0.2$
N105/N107	$\lambda \leq 200.0$ Passa	x: 0.24 m $\eta = 0.4$	x: 0 m $\eta = 0.5$	x: 0.24 m $\eta = 1.5$	x: 0 m $\eta = 42.7$	$\eta = 4.0$	$\eta = 1.1$	x: 0 m $\eta = 43.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 10.5$	PASSA $\eta = 43.4$
N85/N108	$\lambda \leq 200.0$ Passa	x: 0.24 m $\eta = 0.4$	x: 0 m $\eta = 0.5$	x: 0.24 m $\eta = 1.5$	x: 0 m $\eta = 42.7$	$\eta = 4.0$	$\eta = 1.1$	x: 0 m $\eta = 43.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 10.5$	PASSA $\eta = 43.4$
N108/N109	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 1.4$	x: 0 m $\eta = 1.2$	x: 0.465 m $\eta = 1.4$	x: 0 m $\eta = 5.1$	x: 0.465 m $\eta = 0.4$	$\eta = 0.4$	x: 0.465 m $\eta = 6.5$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 1.4$	PASSA $\eta = 6.5$
N109/N110	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 6.2$	x: 0 m $\eta = 10.3$	x: 0 m $\eta = 0.3$	x: 0.465 m $\eta = 2.0$	x: 0 m $\eta = 0.2$	$\eta = 0.1$	x: 0.465 m $\eta = 7.3$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.5$	PASSA $\eta = 10.3$
N110/N111	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 12.5$	x: 0 m $\eta = 20.0$	x: 0 m $\eta = 1.6$	x: 0.465 m $\eta = 1.0$	x: 0 m $\eta < 0.1$	$\eta = 0.4$	x: 0 m $\eta = 22.0$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.6$	PASSA $\eta = 22.0$
N111/N112	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 15.7$	x: 0 m $\eta = 25.4$	x: 0 m $\eta = 1.0$	x: 0.232 m $\eta = 1.3$	x: 0 m $\eta < 0.1$	$\eta = 0.5$	x: 0.465 m $\eta = 27.1$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.6$	PASSA $\eta = 27.1$
N112/N113	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 18.4$	x: 0 m $\eta = 29.4$	x: 0.465 m $\eta = 0.1$	x: 0 m $\eta = 2.2$	x: 0.465 m $\eta = 0.1$	$\eta = 0.1$	x: 0 m $\eta = 31.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.3$	PASSA $\eta = 31.4$

Barras	VERIFICAÇÕES (ABNT NBR 8800:2008)											Estado
	λ	N_t	N_c	M_x	M_y	V_x	V_y	NM_xM_y	T	NMVT	$\sigma \tau f$	
N113/N114	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 19.3$	x: 0 m $\eta = 31.1$	x: 0.465 m $\eta = 0.2$	x: 0 m $\eta = 1.7$	x: 0.465 m $\eta = 0.1$	$\eta = 0.1$	x: 0 m $\eta = 32.7$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.3$	PASSA $\eta = 32.7$
N114/N115	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 20.3$	x: 0 m $\eta = 32.4$	x: 0.465 m $\eta = 0.2$	x: 0 m $\eta = 2.6$	x: 0.465 m $\eta = 0.2$	$\eta = 0.1$	x: 0 m $\eta = 34.6$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.4$	PASSA $\eta = 34.6$
N115/N116	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 19.9$	x: 0 m $\eta = 32.0$	x: 0.465 m $\eta = 0.7$	x: 0 m $\eta = 1.9$	x: 0.465 m $\eta = 0.1$	$\eta = 0.1$	x: 0 m $\eta = 33.9$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.4$	PASSA $\eta = 33.9$
N116/N117	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 19.8$	x: 0 m $\eta = 31.7$	x: 0 m $\eta = 0.8$	x: 0 m $\eta = 2.5$	x: 0.465 m $\eta = 0.2$	$\eta = 0.4$	x: 0 m $\eta = 34.6$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.7$	PASSA $\eta = 34.6$
N117/N106	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 18.8$	x: 0 m $\eta = 30.1$	x: 0.465 m $\eta = 1.8$	x: 0 m $\eta = 2.6$	x: 0.465 m $\eta = 0.3$	$\eta = 0.4$	x: 0.465 m $\eta = 33.9$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.9$	PASSA $\eta = 33.9$
N107/N126	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 1.4$	x: 0 m $\eta = 1.2$	x: 0.465 m $\eta = 1.4$	x: 0 m $\eta = 5.1$	x: 0.465 m $\eta = 0.4$	$\eta = 0.4$	x: 0.465 m $\eta = 6.5$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 1.4$	PASSA $\eta = 6.5$
N126/N125	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 6.2$	x: 0 m $\eta = 10.3$	x: 0 m $\eta = 0.3$	x: 0.465 m $\eta = 2.0$	x: 0 m $\eta = 0.2$	$\eta = 0.1$	x: 0.465 m $\eta = 7.3$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.5$	PASSA $\eta = 10.3$
N125/N124	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 12.5$	x: 0 m $\eta = 20.0$	x: 0 m $\eta = 1.6$	x: 0.465 m $\eta = 1.0$	x: 0 m $\eta < 0.1$	$\eta = 0.4$	x: 0 m $\eta = 22.0$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.6$	PASSA $\eta = 22.0$
N124/N123	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 15.7$	x: 0 m $\eta = 25.4$	x: 0 m $\eta = 1.0$	x: 0.232 m $\eta = 1.3$	x: 0 m $\eta < 0.1$	$\eta = 0.5$	x: 0.465 m $\eta = 27.1$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.6$	PASSA $\eta = 27.1$
N123/N122	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 18.4$	x: 0 m $\eta = 29.4$	x: 0.465 m $\eta = 0.1$	x: 0 m $\eta = 2.2$	x: 0.465 m $\eta = 0.1$	$\eta = 0.1$	x: 0 m $\eta = 31.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.3$	PASSA $\eta = 31.4$
N122/N121	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 19.3$	x: 0 m $\eta = 31.1$	x: 0.465 m $\eta = 0.2$	x: 0 m $\eta = 1.7$	x: 0.465 m $\eta = 0.1$	$\eta = 0.1$	x: 0 m $\eta = 32.7$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.3$	PASSA $\eta = 32.7$
N121/N120	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 20.3$	x: 0 m $\eta = 32.4$	x: 0.465 m $\eta = 0.2$	x: 0 m $\eta = 2.6$	x: 0.465 m $\eta = 0.2$	$\eta = 0.1$	x: 0 m $\eta = 34.6$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.4$	PASSA $\eta = 34.6$
N120/N119	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 19.9$	x: 0 m $\eta = 32.0$	x: 0.465 m $\eta = 0.7$	x: 0 m $\eta = 1.9$	x: 0.465 m $\eta = 0.1$	$\eta = 0.1$	x: 0 m $\eta = 33.9$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.4$	PASSA $\eta = 33.9$
N119/N118	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 19.8$	x: 0 m $\eta = 31.7$	x: 0 m $\eta = 0.8$	x: 0 m $\eta = 2.5$	x: 0.465 m $\eta = 0.2$	$\eta = 0.4$	x: 0 m $\eta = 34.6$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.7$	PASSA $\eta = 34.6$
N118/N106	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 18.8$	x: 0 m $\eta = 30.1$	x: 0.465 m $\eta = 1.8$	x: 0 m $\eta = 2.6$	x: 0.465 m $\eta = 0.3$	$\eta = 0.4$	x: 0.465 m $\eta = 33.9$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.9$	PASSA $\eta = 33.9$
N85/N109	$\lambda \leq 200.0$ Passa	x: 0.544 m $\eta = 8.4$	x: 0 m $\eta = 14.1$	x: 0.544 m $\eta = 1.3$	x: 0 m $\eta = 26.6$	x: 0 m $\eta = 1.4$	$\eta = 0.5$	x: 0 m $\eta = 34.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 3.8$	PASSA $\eta = 34.4$
N86/N109	$\lambda \leq 200.0$ Passa	x: 0.286 m $\eta = 5.7$	x: 0 m $\eta = 4.0$	x: 0.286 m $\eta = 0.6$	x: 0 m $\eta = 9.0$	$\eta = 1.1$	N.A. ⁽⁵⁾	x: 0 m $\eta = 12.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 12.4$
N86/N110	$\lambda \leq 200.0$ Passa	x: 0.569 m $\eta = 7.6$	x: 0 m $\eta = 12.5$	x: 0.569 m $\eta = 2.0$	x: 0 m $\eta = 2.8$	x: 0.569 m $\eta = 0.2$	$\eta = 0.2$	x: 0 m $\eta = 10.0$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.569 m $\eta = 0.6$	PASSA $\eta = 12.5$
N89/N110	$\lambda \leq 200.0$ Passa	x: 0.332 m $\eta = 4.0$	x: 0 m $\eta = 2.7$	x: 0 m $\eta = 0.9$	x: 0.332 m $\eta = 0.3$	$\eta < 0.1$	$\eta = 0.7$	x: 0.332 m $\eta = 3.0$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.8$	PASSA $\eta = 4.0$
N89/N111	$\lambda \leq 200.0$ Passa	x: 0.597 m $\eta = 4.1$	x: 0 m $\eta = 7.3$	x: 0 m $\eta = 1.5$	x: 0 m $\eta = 1.3$	x: 0.597 m $\eta = 0.1$	$\eta = 0.1$	x: 0 m $\eta = 6.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.597 m $\eta = 0.3$	PASSA $\eta = 7.3$
N90/N111	$\lambda \leq 200.0$ Passa	x: 0.378 m $\eta = 3.5$	x: 0 m $\eta = 2.5$	x: 0 m $\eta = 0.7$	x: 0 m $\eta = 0.4$	$\eta < 0.1$	$\eta < 0.1$	x: 0 m $\eta = 2.6$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.1$	PASSA $\eta = 3.5$
N90/N112	$\lambda \leq 200.0$ Passa	x: 0.627 m $\eta = 3.5$	x: 0 m $\eta = 5.9$	x: 0 m $\eta = 1.1$	x: 0 m $\eta = 1.4$	x: 0.627 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 5.5$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.627 m $\eta = 0.2$	PASSA $\eta = 5.9$
N91/N112	$\lambda \leq 200.0$ Passa	x: 0.424 m $\eta = 1.6$	x: 0 m $\eta = 1.0$	x: 0 m $\eta = 0.4$	x: 0 m $\eta = 1.1$	$\eta = 0.1$	$\eta = 0.2$	x: 0 m $\eta = 2.3$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.4$	PASSA $\eta = 2.3$
N91/N113	$\lambda \leq 200.0$ Passa	x: 0.659 m $\eta = 1.3$	x: 0 m $\eta = 2.7$	x: 0 m $\eta = 0.6$	x: 0 m $\eta = 1.5$	x: 0.659 m $\eta = 0.1$	$\eta = 0.1$	x: 0 m $\eta = 3.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.659 m $\eta = 0.2$	PASSA $\eta = 3.4$
N92/N113	$\lambda \leq 200.0$ Passa	x: 0.47 m $\eta = 1.4$	x: 0 m $\eta = 1.0$	x: 0 m $\eta = 0.2$	x: 0 m $\eta = 1.5$	$\eta = 0.1$	N.A. ⁽⁵⁾	x: 0 m $\eta = 2.3$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 2.3$
N92/N114	$\lambda \leq 200.0$ Passa	x: 0.693 m $\eta = 1.2$	x: 0 m $\eta = 2.2$	x: 0.693 m $\eta = 0.3$	x: 0.173 m $\eta = 1.1$	x: 0.693 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 2.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.1$	PASSA $\eta = 2.4$
N93/N114	$\lambda \leq 200.0$ Passa	x: 0.516 m $\eta = 0.4$	x: 0 m $\eta = 0.3$	x: 0 m $\eta = 0.1$	x: 0 m $\eta = 1.7$	$\eta = 0.1$	$\eta = 0.1$	x: 0 m $\eta = 2.0$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.4$	PASSA $\eta = 2.0$
N93/N115	$\lambda \leq 200.0$ Passa	x: 0.728 m $\eta = 0.4$	x: 0 m $\eta = 0.6$	x: 0 m $\eta = 0.2$	x: 0.182 m $\eta = 1.0$	x: 0.728 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 1.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.728 m $\eta = 0.1$	PASSA $\eta = 1.4$
N94/N115	$\lambda \leq 200.0$ Passa	x: 0.562 m $\eta = 0.3$	x: 0 m $\eta = 0.4$	x: 0.562 m $\eta < 0.1$	x: 0.562 m $\eta = 1.9$	$\eta = 0.1$	$\eta < 0.1$	x: 0.562 m $\eta = 2.1$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.2$	PASSA $\eta = 2.1$
N94/N116	$\lambda \leq 200.0$ Passa	x: 0.764 m $\eta = 0.5$	x: 0 m $\eta = 0.4$	x: 0.764 m $\eta = 0.2$	x: 0.382 m $\eta = 0.8$	x: 0.764 m $\eta < 0.1$	$\eta < 0.1$	x: 0.382 m $\eta = 1.1$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.764 m $\eta = 0.1$	PASSA $\eta = 1.1$

Barras	VERIFICAÇÕES (ABNT NBR 8800:2008)											Estado
	λ	N_t	N_c	M_x	M_y	V_x	V_y	NM_xM_y	T	NMVT	$\sigma_{\tau f}$	
N95/N116	$\lambda \leq 200.0$ Passa	x: 0.608 m $\eta = 1.5$	x: 0 m $\eta = 2.1$	x: 0 m $\eta = 0.2$	x: 0 m $\eta = 2.0$	$\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 3.3$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.3$	PASSA $\eta = 3.3$
N95/N117	$\lambda \leq 200.0$ Passa	x: 0.801 m $\eta = 2.3$	x: 0 m $\eta = 2.3$	x: 0 m $\eta = 0.2$	x: 0.601 m $\eta = 0.8$	x: 0 m $\eta < 0.1$	$\eta < 0.1$	x: 0.601 m $\eta = 2.2$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.1$	PASSA $\eta = 2.3$
N96/N117	$\lambda \leq 200.0$ Passa	x: 0.654 m $\eta = 1.3$	x: 0 m $\eta = 2.1$	x: 0 m $\eta = 0.2$	x: 0.654 m $\eta = 2.5$	$\eta = 0.1$	N.A. ⁽⁵⁾	x: 0.654 m $\eta = 3.7$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 3.7$
N96/N106	$\lambda \leq 200.0$ Passa	x: 0.839 m $\eta = 2.2$	x: 0 m $\eta = 2.0$	x: 0.839 m $\eta = 0.2$	x: 0 m $\eta = 0.5$	x: 0.839 m $\eta = 0.1$	$\eta = 0.1$	x: 0 m $\eta = 1.8$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.839 m $\eta = 0.2$	PASSA $\eta = 2.2$
N88/N106	$\lambda \leq 200.0$ Passa	x: 0.839 m $\eta = 2.2$	x: 0 m $\eta = 2.0$	x: 0.839 m $\eta = 0.2$	x: 0 m $\eta = 0.5$	x: 0.839 m $\eta = 0.1$	$\eta = 0.1$	x: 0 m $\eta = 1.8$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.839 m $\eta = 0.2$	PASSA $\eta = 2.2$
N88/N118	$\lambda \leq 200.0$ Passa	x: 0.654 m $\eta = 1.3$	x: 0 m $\eta = 2.1$	x: 0 m $\eta = 0.2$	x: 0.654 m $\eta = 2.5$	$\eta = 0.1$	N.A. ⁽⁵⁾	x: 0.654 m $\eta = 3.7$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 3.7$
N97/N118	$\lambda \leq 200.0$ Passa	x: 0.801 m $\eta = 2.3$	x: 0 m $\eta = 2.3$	x: 0 m $\eta = 0.2$	x: 0.601 m $\eta = 0.8$	x: 0 m $\eta < 0.1$	$\eta < 0.1$	x: 0.601 m $\eta = 2.2$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.1$	PASSA $\eta = 2.3$
N97/N119	$\lambda \leq 200.0$ Passa	x: 0.608 m $\eta = 1.5$	x: 0 m $\eta = 2.1$	x: 0 m $\eta = 0.2$	x: 0 m $\eta = 2.0$	$\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 3.3$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.3$	PASSA $\eta = 3.3$
N98/N119	$\lambda \leq 200.0$ Passa	x: 0.764 m $\eta = 0.5$	x: 0 m $\eta = 0.4$	x: 0.764 m $\eta = 0.2$	x: 0.382 m $\eta = 0.8$	x: 0.764 m $\eta < 0.1$	$\eta < 0.1$	x: 0.382 m $\eta = 1.1$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.764 m $\eta = 0.1$	PASSA $\eta = 1.1$
N98/N120	$\lambda \leq 200.0$ Passa	x: 0.562 m $\eta = 0.3$	x: 0 m $\eta = 0.4$	x: 0.562 m $\eta < 0.1$	x: 0.562 m $\eta = 1.9$	$\eta = 0.1$	$\eta < 0.1$	x: 0.562 m $\eta = 2.1$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.2$	PASSA $\eta = 2.1$
N99/N120	$\lambda \leq 200.0$ Passa	x: 0.728 m $\eta = 0.4$	x: 0 m $\eta = 0.6$	x: 0 m $\eta = 0.2$	x: 0.182 m $\eta = 1.0$	x: 0.728 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 1.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.728 m $\eta = 0.1$	PASSA $\eta = 1.4$
N99/N121	$\lambda \leq 200.0$ Passa	x: 0.516 m $\eta = 0.4$	x: 0 m $\eta = 0.3$	x: 0 m $\eta = 0.1$	x: 0 m $\eta = 1.7$	$\eta = 0.1$	$\eta = 0.1$	x: 0 m $\eta = 2.0$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.4$	PASSA $\eta = 2.0$
N100/N121	$\lambda \leq 200.0$ Passa	x: 0.693 m $\eta = 1.2$	x: 0 m $\eta = 2.2$	x: 0.693 m $\eta = 0.3$	x: 0.173 m $\eta = 1.1$	x: 0.693 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 2.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.1$	PASSA $\eta = 2.4$
N100/N122	$\lambda \leq 200.0$ Passa	x: 0.47 m $\eta = 1.4$	x: 0 m $\eta = 1.0$	x: 0 m $\eta = 0.2$	x: 0 m $\eta = 1.5$	$\eta = 0.1$	N.A. ⁽⁵⁾	x: 0 m $\eta = 2.3$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 2.3$
N101/N122	$\lambda \leq 200.0$ Passa	x: 0.659 m $\eta = 1.3$	x: 0 m $\eta = 2.7$	x: 0 m $\eta = 0.6$	x: 0 m $\eta = 1.5$	x: 0.659 m $\eta = 0.1$	$\eta = 0.1$	x: 0 m $\eta = 3.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.659 m $\eta = 0.2$	PASSA $\eta = 3.4$
N101/N123	$\lambda \leq 200.0$ Passa	x: 0.424 m $\eta = 1.6$	x: 0 m $\eta = 1.0$	x: 0 m $\eta = 0.4$	x: 0 m $\eta = 1.1$	$\eta = 0.1$	$\eta = 0.2$	x: 0 m $\eta = 2.3$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.4$	PASSA $\eta = 2.3$
N102/N123	$\lambda \leq 200.0$ Passa	x: 0.627 m $\eta = 3.5$	x: 0 m $\eta = 5.9$	x: 0 m $\eta = 1.1$	x: 0 m $\eta = 1.4$	x: 0.627 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 5.5$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.627 m $\eta = 0.2$	PASSA $\eta = 5.9$
N102/N124	$\lambda \leq 200.0$ Passa	x: 0.378 m $\eta = 3.5$	x: 0 m $\eta = 2.5$	x: 0 m $\eta = 0.7$	x: 0 m $\eta = 0.4$	$\eta < 0.1$	$\eta < 0.1$	x: 0 m $\eta = 2.6$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.1$	PASSA $\eta = 3.5$
N103/N124	$\lambda \leq 200.0$ Passa	x: 0.597 m $\eta = 4.1$	x: 0 m $\eta = 7.3$	x: 0 m $\eta = 1.5$	x: 0 m $\eta = 1.3$	x: 0.597 m $\eta = 0.1$	$\eta = 0.1$	x: 0 m $\eta = 6.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.597 m $\eta = 0.3$	PASSA $\eta = 7.3$
N103/N125	$\lambda \leq 200.0$ Passa	x: 0.332 m $\eta = 4.0$	x: 0 m $\eta = 2.7$	x: 0 m $\eta = 0.9$	x: 0.332 m $\eta = 0.3$	$\eta < 0.1$	$\eta = 0.7$	x: 0.332 m $\eta = 3.0$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.8$	PASSA $\eta = 4.0$
N104/N125	$\lambda \leq 200.0$ Passa	x: 0.569 m $\eta = 7.6$	x: 0 m $\eta = 12.5$	x: 0.569 m $\eta = 2.0$	x: 0 m $\eta = 2.8$	x: 0.569 m $\eta = 0.2$	$\eta = 0.2$	x: 0 m $\eta = 10.0$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.569 m $\eta = 0.6$	PASSA $\eta = 12.5$
N104/N126	$\lambda \leq 200.0$ Passa	x: 0.286 m $\eta = 5.7$	x: 0 m $\eta = 4.0$	x: 0.286 m $\eta = 0.6$	x: 0 m $\eta = 9.0$	$\eta = 1.1$	N.A. ⁽⁵⁾	x: 0 m $\eta = 12.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 12.4$
N105/N126	$\lambda \leq 200.0$ Passa	x: 0.544 m $\eta = 8.4$	x: 0 m $\eta = 14.1$	x: 0.544 m $\eta = 1.3$	x: 0 m $\eta = 26.6$	x: 0 m $\eta = 1.4$	$\eta = 0.5$	x: 0 m $\eta = 34.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 3.8$	PASSA $\eta = 34.4$
N253/N254	$\lambda \leq 200.0$ Passa	$\eta = 8.9$	$\eta = 15.2$	x: 0 m $\eta < 0.1$	x: 0 m $\eta = 28.7$	x: 0 m $\eta = 1.8$	$\eta < 0.1$	x: 0 m $\eta = 36.3$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 4.2$	PASSA $\eta = 36.3$
N254/N257	$\lambda \leq 200.0$ Passa	$\eta = 3.5$	$\eta = 6.2$	N.A. ⁽⁴⁾	x: 0.231 m $\eta = 1.2$	x: 0.463 m $\eta = 0.1$	$\eta < 0.1$	x: 0.231 m $\eta = 4.3$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.463 m $\eta = 0.1$	PASSA $\eta = 6.2$
N257/N258	$\lambda \leq 200.0$ Passa	$\eta = 0.8$	$\eta = 1.5$	N.A. ⁽⁴⁾	x: 0.463 m $\eta = 1.4$	x: 0 m $\eta = 0.1$	N.A. ⁽⁵⁾	x: 0.463 m $\eta = 2.2$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 2.2$
N258/N259	$\lambda \leq 200.0$ Passa	$\eta = 1.9$	$\eta = 1.5$	N.A. ⁽⁴⁾	x: 0.463 m $\eta = 1.5$	x: 0 m $\eta = 0.1$	N.A. ⁽⁵⁾	x: 0.463 m $\eta = 2.5$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 2.5$
N259/N260	$\lambda \leq 200.0$ Passa	$\eta = 3.3$	$\eta = 2.3$	N.A. ⁽⁴⁾	x: 0.231 m $\eta = 1.2$	x: 0.463 m $\eta < 0.1$	N.A. ⁽⁵⁾	x: 0.231 m $\eta = 2.9$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 3.3$
N260/N261	$\lambda \leq 200.0$ Passa	$\eta = 4.3$	$\eta = 3.0$	N.A. ⁽⁴⁾	x: 0.231 m $\eta = 1.2$	x: 0.463 m $\eta < 0.1$	$\eta < 0.1$	x: 0.231 m $\eta = 3.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.463 m $\eta = 0.1$	PASSA $\eta = 4.3$
N261/N262	$\lambda \leq 200.0$ Passa	$\eta = 4.0$	$\eta = 2.7$	x: 0.463 m $\eta < 0.1$	x: 0 m $\eta = 1.6$	x: 0.463 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 3.6$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.2$	PASSA $\eta = 4.0$

Barras	VERIFICAÇÕES (ABNT NBR 8800:2008)											Estado
	λ	N_t	N_c	M_x	M_y	V_x	V_y	NM_xM_y	T	NMVT	$\sigma \tau f$	
N262/N263	$\lambda \leq 200.0$ Passa	$\eta = 3.7$	$\eta = 2.5$	x: 0 m $\eta < 0.1$	x: 0 m $\eta = 1.5$	x: 0.463 m $\eta = 0.1$	N.A. ⁽⁵⁾	x: 0 m $\eta = 3.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 3.7$
N263/N264	$\lambda \leq 200.0$ Passa	$\eta = 2.5$	$\eta = 1.5$	N.A. ⁽⁴⁾	x: 0 m $\eta = 1.8$	x: 0.463 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 3.0$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.2$	PASSA $\eta = 3.0$
N264/N255	$\lambda \leq 200.0$ Passa	$\eta = 1.4$	$\eta = 0.8$	x: 0 m $\eta < 0.1$	x: 0 m $\eta = 1.5$	x: 0.463 m $\eta = 0.2$	N.A. ⁽⁵⁾	x: 0 m $\eta = 2.2$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 2.2$
N255/N256	$\lambda \leq 200.0$ Passa	$\eta = 1.4$	$\eta = 0.8$	x: 0.463 m $\eta < 0.1$	x: 0.463 m $\eta = 1.5$	x: 0 m $\eta = 0.2$	N.A. ⁽⁵⁾	x: 0.463 m $\eta = 2.2$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 2.2$
N256/N265	$\lambda \leq 200.0$ Passa	$\eta = 2.5$	$\eta = 1.5$	N.A. ⁽⁴⁾	x: 0.463 m $\eta = 1.8$	x: 0 m $\eta = 0.1$	$\eta < 0.1$	x: 0.463 m $\eta = 3.0$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.463 m $\eta = 0.2$	PASSA $\eta = 3.0$
N265/N266	$\lambda \leq 200.0$ Passa	$\eta = 3.7$	$\eta = 2.5$	x: 0.463 m $\eta < 0.1$	x: 0.463 m $\eta = 1.5$	x: 0 m $\eta = 0.1$	N.A. ⁽⁵⁾	x: 0.463 m $\eta = 3.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 3.7$
N266/N267	$\lambda \leq 200.0$ Passa	$\eta = 4.0$	$\eta = 2.7$	x: 0 m $\eta < 0.1$	x: 0.463 m $\eta = 1.6$	x: 0 m $\eta = 0.1$	$\eta < 0.1$	x: 0.463 m $\eta = 3.6$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.463 m $\eta = 0.2$	PASSA $\eta = 4.0$
N267/N268	$\lambda \leq 200.0$ Passa	$\eta = 4.3$	$\eta = 3.0$	N.A. ⁽⁴⁾	x: 0.231 m $\eta = 1.2$	x: 0 m $\eta < 0.1$	$\eta < 0.1$	x: 0.231 m $\eta = 3.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.1$	PASSA $\eta = 4.3$
N268/N269	$\lambda \leq 200.0$ Passa	$\eta = 3.3$	$\eta = 2.3$	N.A. ⁽⁴⁾	x: 0.231 m $\eta = 1.2$	x: 0 m $\eta < 0.1$	N.A. ⁽⁵⁾	x: 0.231 m $\eta = 2.9$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 3.3$
N269/N270	$\lambda \leq 200.0$ Passa	$\eta = 1.9$	$\eta = 1.5$	N.A. ⁽⁴⁾	x: 0 m $\eta = 1.5$	x: 0.463 m $\eta = 0.1$	N.A. ⁽⁵⁾	x: 0 m $\eta = 2.5$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 2.5$
N270/N271	$\lambda \leq 200.0$ Passa	$\eta = 0.8$	$\eta = 1.5$	N.A. ⁽⁴⁾	x: 0 m $\eta = 1.4$	x: 0.463 m $\eta = 0.1$	N.A. ⁽⁵⁾	x: 0 m $\eta = 2.2$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 2.2$
N271/N272	$\lambda \leq 200.0$ Passa	$\eta = 3.5$	$\eta = 6.2$	N.A. ⁽⁴⁾	x: 0.231 m $\eta = 1.2$	x: 0 m $\eta = 0.1$	$\eta < 0.1$	x: 0.231 m $\eta = 4.3$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.1$	PASSA $\eta = 6.2$
N272/N273	$\lambda \leq 200.0$ Passa	$\eta = 8.9$	$\eta = 15.2$	x: 0.463 m $\eta < 0.1$	x: 0.463 m $\eta = 28.7$	x: 0.463 m $\eta = 1.8$	$\eta < 0.1$	x: 0.463 m $\eta = 36.3$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.463 m $\eta = 4.2$	PASSA $\eta = 36.3$
N255/N274	x: 0 m $\lambda \leq 200.0$ Passa	x: 0.7 m $\eta = 0.1$	x: 0 m $\eta < 0.1$	N.A. ⁽⁴⁾	N.A. ⁽⁴⁾	N.A. ⁽⁵⁾	$\eta < 0.1$	N.A. ⁽⁸⁾	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁶⁾	PASSA $\eta = 0.1$
N273/N275	$\lambda \leq 200.0$ Passa	x: 0.24 m $\eta = 0.3$	x: 0 m $\eta = 0.4$	x: 0 m $\eta = 0.5$	x: 0 m $\eta = 37.5$	$\eta = 3.5$	$\eta = 0.3$	x: 0 m $\eta = 38.1$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 8.6$	PASSA $\eta = 38.1$
N253/N276	$\lambda \leq 200.0$ Passa	x: 0.24 m $\eta = 0.3$	x: 0 m $\eta = 0.4$	x: 0 m $\eta = 0.5$	x: 0 m $\eta = 37.5$	$\eta = 3.5$	$\eta = 0.3$	x: 0 m $\eta = 38.1$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 8.6$	PASSA $\eta = 38.1$
N276/N277	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 1.3$	x: 0 m $\eta = 1.1$	x: 0.465 m $\eta < 0.1$	x: 0 m $\eta = 4.4$	x: 0.465 m $\eta = 0.4$	$\eta < 0.1$	x: 0 m $\eta = 5.0$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.9$	PASSA $\eta = 5.0$
N277/N278	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 5.2$	x: 0 m $\eta = 9.1$	N.A. ⁽⁴⁾	x: 0.465 m $\eta = 1.8$	x: 0 m $\eta = 0.1$	$\eta < 0.1$	x: 0.465 m $\eta = 6.3$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.2$	PASSA $\eta = 9.1$
N278/N279	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 10.6$	x: 0 m $\eta = 17.8$	N.A. ⁽⁴⁾	x: 0.465 m $\eta = 0.9$	x: 0 m $\eta < 0.1$	N.A. ⁽⁵⁾	x: 0.465 m $\eta = 9.8$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 17.8$
N279/N280	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 13.3$	x: 0 m $\eta = 22.5$	N.A. ⁽⁴⁾	x: 0.232 m $\eta = 1.2$	x: 0 m $\eta < 0.1$	N.A. ⁽⁵⁾	x: 0.232 m $\eta = 23.5$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 23.5$
N280/N281	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 15.6$	x: 0 m $\eta = 26.1$	N.A. ⁽⁴⁾	x: 0 m $\eta = 1.9$	x: 0.465 m $\eta = 0.1$	N.A. ⁽⁵⁾	x: 0 m $\eta = 27.8$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 27.8$
N281/N282	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 16.3$	x: 0 m $\eta = 27.5$	N.A. ⁽⁴⁾	x: 0 m $\eta = 1.5$	x: 0.465 m $\eta = 0.1$	N.A. ⁽⁵⁾	x: 0 m $\eta = 28.8$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 28.8$
N282/N283	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 17.1$	x: 0 m $\eta = 28.6$	x: 0.465 m $\eta < 0.1$	x: 0 m $\eta = 2.2$	x: 0.465 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 30.6$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.3$	PASSA $\eta = 30.6$
N283/N284	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 16.8$	x: 0 m $\eta = 28.3$	x: 0.465 m $\eta = 0.1$	x: 0 m $\eta = 1.6$	x: 0.465 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 29.8$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.3$	PASSA $\eta = 29.8$
N284/N285	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 16.7$	x: 0 m $\eta = 28.0$	x: 0 m $\eta = 0.1$	x: 0 m $\eta = 2.2$	x: 0.465 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 30.1$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.4$	PASSA $\eta = 30.1$
N285/N274	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 15.8$	x: 0 m $\eta = 26.7$	x: 0.465 m $\eta = 0.2$	x: 0 m $\eta = 2.3$	x: 0.465 m $\eta = 0.2$	$\eta < 0.1$	x: 0.465 m $\eta = 28.8$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.6$	PASSA $\eta = 28.8$
N275/N294	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 1.3$	x: 0 m $\eta = 1.1$	x: 0.465 m $\eta < 0.1$	x: 0 m $\eta = 4.4$	x: 0.465 m $\eta = 0.4$	$\eta < 0.1$	x: 0 m $\eta = 5.0$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.9$	PASSA $\eta = 5.0$
N294/N293	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 5.2$	x: 0 m $\eta = 9.1$	N.A. ⁽⁴⁾	x: 0.465 m $\eta = 1.8$	x: 0 m $\eta = 0.1$	$\eta < 0.1$	x: 0.465 m $\eta = 6.3$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.2$	PASSA $\eta = 9.1$
N293/N292	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 10.6$	x: 0 m $\eta = 17.8$	N.A. ⁽⁴⁾	x: 0.465 m $\eta = 0.9$	x: 0 m $\eta < 0.1$	N.A. ⁽⁵⁾	x: 0.465 m $\eta = 9.8$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 17.8$
N292/N291	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 13.3$	x: 0 m $\eta = 22.5$	N.A. ⁽⁴⁾	x: 0.232 m $\eta = 1.2$	x: 0 m $\eta < 0.1$	N.A. ⁽⁵⁾	x: 0.232 m $\eta = 23.5$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 23.5$

Barras	VERIFICAÇÕES (ABNT NBR 8800:2008)											Estado
	λ	N_t	N_c	M_x	M_y	V_x	V_y	NM_xM_y	T	NMVT	$\sigma \tau f$	
N291/N290	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 15.6$	x: 0 m $\eta = 26.1$	N.A. ⁽⁴⁾	x: 0 m $\eta = 1.9$	x: 0.465 m $\eta = 0.1$	N.A. ⁽⁵⁾	x: 0 m $\eta = 27.8$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 27.8$
N290/N289	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 16.3$	x: 0 m $\eta = 27.5$	N.A. ⁽⁴⁾	x: 0 m $\eta = 1.5$	x: 0.465 m $\eta = 0.1$	N.A. ⁽⁵⁾	x: 0 m $\eta = 28.8$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 28.8$
N289/N288	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 17.1$	x: 0 m $\eta = 28.6$	x: 0.465 m $\eta < 0.1$	x: 0 m $\eta = 2.2$	x: 0.465 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 30.6$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.3$	PASSA $\eta = 30.6$
N288/N287	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 16.8$	x: 0 m $\eta = 28.3$	x: 0.465 m $\eta = 0.1$	x: 0 m $\eta = 1.6$	x: 0.465 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 29.8$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.3$	PASSA $\eta = 29.8$
N287/N286	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 16.7$	x: 0 m $\eta = 28.0$	x: 0 m $\eta = 0.1$	x: 0 m $\eta = 2.2$	x: 0.465 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 30.1$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.4$	PASSA $\eta = 30.1$
N286/N274	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 15.8$	x: 0 m $\eta = 26.7$	x: 0.465 m $\eta = 0.2$	x: 0 m $\eta = 2.3$	x: 0.465 m $\eta = 0.2$	$\eta < 0.1$	x: 0.465 m $\eta = 28.8$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.6$	PASSA $\eta = 28.8$
N253/N277	$\lambda \leq 200.0$ Passa	x: 0.544 m $\eta = 7.1$	x: 0 m $\eta = 12.5$	x: 0.544 m $\eta = 0.1$	x: 0 m $\eta = 23.5$	x: 0 m $\eta = 1.2$	$\eta < 0.1$	x: 0 m $\eta = 29.7$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 3.0$	PASSA $\eta = 29.7$
N254/N277	$\lambda \leq 200.0$ Passa	x: 0.286 m $\eta = 5.0$	x: 0 m $\eta = 3.4$	x: 0.286 m $\eta < 0.1$	x: 0 m $\eta = 7.9$	$\eta = 1.0$	$\eta < 0.1$	x: 0 m $\eta = 10.5$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 1.6$	PASSA $\eta = 10.5$
N254/N278	$\lambda \leq 200.0$ Passa	x: 0.569 m $\eta = 6.4$	x: 0 m $\eta = 11.0$	x: 0 m $\eta < 0.1$	x: 0 m $\eta = 2.4$	x: 0.569 m $\eta = 0.2$	$\eta < 0.1$	x: 0 m $\eta = 8.0$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.2$	PASSA $\eta = 11.0$
N257/N278	$\lambda \leq 200.0$ Passa	x: 0.332 m $\eta = 3.6$	x: 0 m $\eta = 2.3$	N.A. ⁽⁴⁾	x: 0.332 m $\eta = 0.3$	$\eta < 0.1$	$\eta < 0.1$	x: 0.332 m $\eta = 1.9$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta < 0.1$	PASSA $\eta = 3.6$
N257/N279	$\lambda \leq 200.0$ Passa	x: 0.597 m $\eta = 3.5$	x: 0 m $\eta = 6.4$	N.A. ⁽⁴⁾	x: 0 m $\eta = 1.1$	x: 0.597 m $\eta = 0.1$	N.A. ⁽⁵⁾	x: 0 m $\eta = 4.3$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 6.4$
N258/N279	$\lambda \leq 200.0$ Passa	x: 0.378 m $\eta = 3.0$	x: 0 m $\eta = 2.1$	N.A. ⁽⁴⁾	x: 0 m $\eta = 0.3$	$\eta < 0.1$	N.A. ⁽⁵⁾	x: 0 m $\eta = 1.6$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 3.0$
N258/N280	$\lambda \leq 200.0$ Passa	x: 0.627 m $\eta = 2.9$	x: 0 m $\eta = 5.2$	N.A. ⁽⁴⁾	x: 0 m $\eta = 1.2$	x: 0.627 m $\eta = 0.1$	N.A. ⁽⁵⁾	x: 0 m $\eta = 3.9$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 5.2$
N259/N280	$\lambda \leq 200.0$ Passa	x: 0.424 m $\eta = 1.4$	x: 0 m $\eta = 0.8$	N.A. ⁽⁴⁾	x: 0 m $\eta = 1.0$	$\eta = 0.1$	N.A. ⁽⁵⁾	x: 0 m $\eta = 1.7$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 1.7$
N259/N281	$\lambda \leq 200.0$ Passa	x: 0.659 m $\eta = 1.1$	x: 0 m $\eta = 2.4$	N.A. ⁽⁴⁾	x: 0 m $\eta = 1.3$	x: 0.659 m $\eta = 0.1$	N.A. ⁽⁵⁾	x: 0 m $\eta = 2.5$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 2.5$
N260/N281	$\lambda \leq 200.0$ Passa	x: 0.47 m $\eta = 1.2$	x: 0 m $\eta = 0.8$	N.A. ⁽⁴⁾	x: 0 m $\eta = 1.3$	$\eta = 0.1$	N.A. ⁽⁵⁾	x: 0.47 m $\eta = 1.9$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 1.9$
N260/N282	$\lambda \leq 200.0$ Passa	x: 0.693 m $\eta = 1.0$	x: 0 m $\eta = 1.9$	N.A. ⁽⁴⁾	x: 0.173 m $\eta = 1.0$	x: 0.693 m $\eta = 0.1$	N.A. ⁽⁵⁾	x: 0.173 m $\eta = 1.9$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 1.9$
N261/N282	$\lambda \leq 200.0$ Passa	x: 0.516 m $\eta = 0.4$	x: 0 m $\eta = 0.3$	N.A. ⁽⁴⁾	x: 0 m $\eta = 1.5$	$\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 1.6$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.2$	PASSA $\eta = 1.6$
N261/N283	$\lambda \leq 200.0$ Passa	x: 0.728 m $\eta = 0.3$	x: 0 m $\eta = 0.5$	N.A. ⁽⁴⁾	x: 0.182 m $\eta = 0.9$	x: 0.728 m $\eta < 0.1$	N.A. ⁽⁵⁾	x: 0 m $\eta = 1.0$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 1.0$
N262/N283	$\lambda \leq 200.0$ Passa	x: 0.562 m $\eta = 0.3$	x: 0 m $\eta = 0.4$	N.A. ⁽⁴⁾	x: 0.562 m $\eta = 1.7$	$\eta = 0.1$	N.A. ⁽⁵⁾	x: 0.562 m $\eta = 1.8$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 1.8$
N262/N284	$\lambda \leq 200.0$ Passa	x: 0.764 m $\eta = 0.5$	x: 0 m $\eta = 0.4$	x: 0.764 m $\eta < 0.1$	x: 0.382 m $\eta = 0.7$	x: 0.764 m $\eta < 0.1$	$\eta < 0.1$	x: 0.382 m $\eta = 0.9$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.764 m $\eta = 0.1$	PASSA $\eta = 0.9$
N263/N284	$\lambda \leq 200.0$ Passa	x: 0.608 m $\eta = 1.3$	x: 0 m $\eta = 1.9$	x: 0 m $\eta < 0.1$	x: 0.608 m $\eta = 1.8$	$\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 2.7$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.2$	PASSA $\eta = 2.7$
N263/N285	$\lambda \leq 200.0$ Passa	x: 0.801 m $\eta = 2.0$	x: 0 m $\eta = 2.0$	x: 0 m $\eta < 0.1$	x: 0.601 m $\eta = 0.7$	x: 0 m $\eta < 0.1$	N.A. ⁽⁵⁾	x: 0.601 m $\eta = 1.7$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 2.0$
N264/N285	$\lambda \leq 200.0$ Passa	x: 0.654 m $\eta = 1.1$	x: 0 m $\eta = 1.9$	$\eta < 0.1$	x: 0.654 m $\eta = 2.2$	$\eta = 0.1$	N.A. ⁽⁵⁾	x: 0.654 m $\eta = 3.1$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 3.1$
N264/N274	$\lambda \leq 200.0$ Passa	x: 0.839 m $\eta = 1.9$	x: 0 m $\eta = 1.6$	x: 0 m $\eta < 0.1$	x: 0 m $\eta = 0.4$	x: 0.839 m $\eta = 0.1$	$\eta < 0.1$	x: 0.839 m $\eta = 1.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.839 m $\eta = 0.1$	PASSA $\eta = 1.9$
N256/N274	$\lambda \leq 200.0$ Passa	x: 0.839 m $\eta = 1.9$	x: 0 m $\eta = 1.6$	x: 0 m $\eta < 0.1$	x: 0 m $\eta = 0.4$	x: 0.839 m $\eta = 0.1$	$\eta < 0.1$	x: 0.839 m $\eta = 1.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.839 m $\eta = 0.1$	PASSA $\eta = 1.9$
N256/N286	$\lambda \leq 200.0$ Passa	x: 0.654 m $\eta = 1.1$	x: 0 m $\eta = 1.9$	$\eta < 0.1$	x: 0.654 m $\eta = 2.2$	$\eta = 0.1$	N.A. ⁽⁵⁾	x: 0.654 m $\eta = 3.1$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 3.1$
N265/N286	$\lambda \leq 200.0$ Passa	x: 0.801 m $\eta = 2.0$	x: 0 m $\eta = 2.0$	x: 0 m $\eta < 0.1$	x: 0.601 m $\eta = 0.7$	x: 0 m $\eta < 0.1$	N.A. ⁽⁵⁾	x: 0.601 m $\eta = 1.7$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 2.0$
N265/N287	$\lambda \leq 200.0$ Passa	x: 0.608 m $\eta = 1.3$	x: 0 m $\eta = 1.9$	x: 0 m $\eta < 0.1$	x: 0.608 m $\eta = 1.8$	$\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 2.7$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.2$	PASSA $\eta = 2.7$
N266/N287	$\lambda \leq 200.0$ Passa	x: 0.764 m $\eta = 0.5$	x: 0 m $\eta = 0.4$	x: 0.764 m $\eta < 0.1$	x: 0.382 m $\eta = 0.7$	x: 0.764 m $\eta < 0.1$	$\eta < 0.1$	x: 0.382 m $\eta = 0.9$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.764 m $\eta = 0.1$	PASSA $\eta = 0.9$

Barras	VERIFICAÇÕES (ABNT NBR 8800:2008)											Estado
	λ	N_t	N_c	M_x	M_y	V_x	V_y	NM_xM_y	T	$NMVT$	$\sigma \tau f$	
N266/N288	$\lambda \leq 200.0$ Passa	x: 0.562 m $\eta = 0.3$	x: 0 m $\eta = 0.4$	N.A. ⁽⁴⁾	x: 0.562 m $\eta = 1.7$	$\eta = 0.1$	N.A. ⁽⁵⁾	x: 0.562 m $\eta = 1.8$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 1.8$
N267/N288	$\lambda \leq 200.0$ Passa	x: 0.728 m $\eta = 0.3$	x: 0 m $\eta = 0.5$	N.A. ⁽⁴⁾	x: 0.182 m $\eta = 0.9$	x: 0.728 m $\eta < 0.1$	N.A. ⁽⁵⁾	x: 0 m $\eta = 1.0$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 1.0$
N267/N289	$\lambda \leq 200.0$ Passa	x: 0.516 m $\eta = 0.4$	x: 0 m $\eta = 0.3$	N.A. ⁽⁴⁾	x: 0 m $\eta = 1.5$	$\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 1.6$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.2$	PASSA $\eta = 1.6$
N268/N289	$\lambda \leq 200.0$ Passa	x: 0.693 m $\eta = 1.0$	x: 0 m $\eta = 1.9$	N.A. ⁽⁴⁾	x: 0.173 m $\eta = 1.0$	x: 0.693 m $\eta = 0.1$	N.A. ⁽⁵⁾	x: 0.173 m $\eta = 1.9$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 1.9$
N268/N290	$\lambda \leq 200.0$ Passa	x: 0.47 m $\eta = 1.2$	x: 0 m $\eta = 0.8$	N.A. ⁽⁴⁾	x: 0 m $\eta = 1.3$	$\eta = 0.1$	N.A. ⁽⁵⁾	x: 0.47 m $\eta = 1.9$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 1.9$
N269/N290	$\lambda \leq 200.0$ Passa	x: 0.659 m $\eta = 1.1$	x: 0 m $\eta = 2.4$	N.A. ⁽⁴⁾	x: 0 m $\eta = 1.3$	x: 0.659 m $\eta = 0.1$	N.A. ⁽⁵⁾	x: 0 m $\eta = 2.5$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 2.5$
N269/N291	$\lambda \leq 200.0$ Passa	x: 0.424 m $\eta = 1.4$	x: 0 m $\eta = 0.8$	N.A. ⁽⁴⁾	x: 0 m $\eta = 1.0$	$\eta = 0.1$	N.A. ⁽⁵⁾	x: 0 m $\eta = 1.7$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 1.7$
N270/N291	$\lambda \leq 200.0$ Passa	x: 0.627 m $\eta = 2.9$	x: 0 m $\eta = 5.2$	N.A. ⁽⁴⁾	x: 0 m $\eta = 1.2$	x: 0.627 m $\eta = 0.1$	N.A. ⁽⁵⁾	x: 0 m $\eta = 3.9$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 5.2$
N270/N292	$\lambda \leq 200.0$ Passa	x: 0.378 m $\eta = 3.0$	x: 0 m $\eta = 2.1$	N.A. ⁽⁴⁾	x: 0 m $\eta = 0.3$	$\eta < 0.1$	N.A. ⁽⁵⁾	x: 0 m $\eta = 1.6$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 3.0$
N271/N292	$\lambda \leq 200.0$ Passa	x: 0.597 m $\eta = 3.5$	x: 0 m $\eta = 6.4$	N.A. ⁽⁴⁾	x: 0 m $\eta = 1.1$	x: 0.597 m $\eta = 0.1$	N.A. ⁽⁵⁾	x: 0 m $\eta = 4.3$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 6.4$
N271/N293	$\lambda \leq 200.0$ Passa	x: 0.332 m $\eta = 3.6$	x: 0 m $\eta = 2.3$	N.A. ⁽⁴⁾	x: 0.332 m $\eta = 0.3$	$\eta < 0.1$	$\eta < 0.1$	x: 0.332 m $\eta = 1.9$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta < 0.1$	PASSA $\eta = 3.6$
N272/N293	$\lambda \leq 200.0$ Passa	x: 0.569 m $\eta = 6.4$	x: 0 m $\eta = 11.0$	x: 0 m $\eta < 0.1$	x: 0 m $\eta = 2.4$	x: 0.569 m $\eta = 0.2$	$\eta < 0.1$	x: 0 m $\eta = 8.0$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.2$	PASSA $\eta = 11.0$
N272/N294	$\lambda \leq 200.0$ Passa	x: 0.286 m $\eta = 5.0$	x: 0 m $\eta = 3.4$	x: 0.286 m $\eta < 0.1$	x: 0 m $\eta = 7.9$	$\eta = 1.0$	$\eta < 0.1$	x: 0 m $\eta = 10.5$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 1.6$	PASSA $\eta = 10.5$
N273/N294	$\lambda \leq 200.0$ Passa	x: 0.544 m $\eta = 7.1$	x: 0 m $\eta = 12.5$	x: 0.544 m $\eta = 0.1$	x: 0 m $\eta = 23.5$	x: 0 m $\eta = 1.2$	$\eta < 0.1$	x: 0 m $\eta = 29.7$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 3.0$	PASSA $\eta = 29.7$
N295/N296	$\lambda \leq 200.0$ Passa	$\eta = 9.0$	$\eta = 15.2$	x: 0 m $\eta = 0.2$	x: 0 m $\eta = 28.7$	x: 0 m $\eta = 1.8$	$\eta = 0.1$	x: 0 m $\eta = 36.5$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 4.3$	PASSA $\eta = 36.5$
N296/N299	$\lambda \leq 200.0$ Passa	$\eta = 3.5$	$\eta = 6.2$	x: 0.463 m $\eta = 0.1$	x: 0.231 m $\eta = 1.2$	x: 0.463 m $\eta = 0.1$	$\eta < 0.1$	x: 0.463 m $\eta = 4.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.463 m $\eta = 0.2$	PASSA $\eta = 6.2$
N299/N300	$\lambda \leq 200.0$ Passa	$\eta = 0.8$	$\eta = 1.5$	x: 0 m $\eta = 0.1$	x: 0.463 m $\eta = 1.4$	x: 0 m $\eta = 0.1$	$\eta < 0.1$	x: 0.463 m $\eta = 2.3$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.463 m $\eta = 0.2$	PASSA $\eta = 2.3$
N300/N301	$\lambda \leq 200.0$ Passa	$\eta = 1.9$	$\eta = 1.5$	x: 0 m $\eta = 0.1$	x: 0.463 m $\eta = 1.5$	x: 0 m $\eta = 0.1$	$\eta < 0.1$	x: 0.463 m $\eta = 2.5$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.463 m $\eta = 0.2$	PASSA $\eta = 2.5$
N301/N302	$\lambda \leq 200.0$ Passa	$\eta = 3.3$	$\eta = 2.3$	x: 0 m $\eta < 0.1$	x: 0.231 m $\eta = 1.2$	x: 0.463 m $\eta < 0.1$	$\eta < 0.1$	x: 0.231 m $\eta = 2.9$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.463 m $\eta = 0.1$	PASSA $\eta = 3.3$
N302/N303	$\lambda \leq 200.0$ Passa	$\eta = 4.3$	$\eta = 3.0$	x: 0.463 m $\eta < 0.1$	x: 0.231 m $\eta = 1.2$	x: 0.463 m $\eta < 0.1$	$\eta < 0.1$	x: 0.231 m $\eta = 3.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.463 m $\eta = 0.1$	PASSA $\eta = 4.3$
N303/N304	$\lambda \leq 200.0$ Passa	$\eta = 4.0$	$\eta = 2.7$	x: 0.463 m $\eta < 0.1$	x: 0 m $\eta = 1.6$	x: 0.463 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 3.6$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.2$	PASSA $\eta = 4.0$
N304/N305	$\lambda \leq 200.0$ Passa	$\eta = 3.7$	$\eta = 2.5$	x: 0.463 m $\eta < 0.1$	x: 0 m $\eta = 1.5$	x: 0.463 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 3.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.463 m $\eta = 0.1$	PASSA $\eta = 3.7$
N305/N306	$\lambda \leq 200.0$ Passa	$\eta = 2.5$	$\eta = 1.5$	x: 0.463 m $\eta < 0.1$	x: 0 m $\eta = 1.8$	x: 0.463 m $\eta = 0.1$	N.A. ⁽⁵⁾	x: 0 m $\eta = 3.0$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 3.0$
N306/N297	$\lambda \leq 200.0$ Passa	$\eta = 1.4$	$\eta = 0.8$	x: 0 m $\eta < 0.1$	x: 0 m $\eta = 1.5$	x: 0.463 m $\eta = 0.2$	N.A. ⁽⁵⁾	x: 0 m $\eta = 2.2$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 2.2$
N297/N298	$\lambda \leq 200.0$ Passa	$\eta = 1.4$	$\eta = 0.8$	x: 0.463 m $\eta < 0.1$	x: 0.463 m $\eta = 1.5$	x: 0 m $\eta = 0.2$	N.A. ⁽⁵⁾	x: 0.463 m $\eta = 2.2$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 2.2$
N298/N307	$\lambda \leq 200.0$ Passa	$\eta = 2.5$	$\eta = 1.5$	x: 0 m $\eta < 0.1$	x: 0.463 m $\eta = 1.8$	x: 0 m $\eta = 0.1$	N.A. ⁽⁵⁾	x: 0.463 m $\eta = 3.0$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 3.0$
N307/N308	$\lambda \leq 200.0$ Passa	$\eta = 3.7$	$\eta = 2.5$	x: 0 m $\eta < 0.1$	x: 0.463 m $\eta = 1.5$	x: 0 m $\eta = 0.1$	$\eta < 0.1$	x: 0.463 m $\eta = 3.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.1$	PASSA $\eta = 3.7$
N308/N309	$\lambda \leq 200.0$ Passa	$\eta = 4.0$	$\eta = 2.7$	x: 0 m $\eta < 0.1$	x: 0.463 m $\eta = 1.6$	x: 0 m $\eta = 0.1$	$\eta < 0.1$	x: 0.463 m $\eta = 3.6$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.463 m $\eta = 0.2$	PASSA $\eta = 4.0$
N309/N310	$\lambda \leq 200.0$ Passa	$\eta = 4.3$	$\eta = 3.0$	x: 0 m $\eta < 0.1$	x: 0.231 m $\eta = 1.2$	x: 0 m $\eta < 0.1$	$\eta < 0.1$	x: 0.231 m $\eta = 3.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.1$	PASSA $\eta = 4.3$
N310/N311	$\lambda \leq 200.0$ Passa	$\eta = 3.3$	$\eta = 2.3$	x: 0.463 m $\eta < 0.1$	x: 0.231 m $\eta = 1.2$	x: 0 m $\eta < 0.1$	$\eta < 0.1$	x: 0.231 m $\eta = 2.9$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.1$	PASSA $\eta = 3.3$

Barras	VERIFICAÇÕES (ABNT NBR 8800:2008)											Estado
	λ	N_t	N_c	M_x	M_y	V_x	V_y	NM_xM_y	T	NMVT	$\sigma_{\tau f}$	
N311/N312	$\lambda \leq 200.0$ Passa	$\eta = 1.9$	$\eta = 1.5$	x: 0.463 m $\eta = 0.1$	x: 0 m $\eta = 1.5$	x: 0.463 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 2.5$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.2$	PASSA $\eta = 2.5$
N312/N313	$\lambda \leq 200.0$ Passa	$\eta = 0.8$	$\eta = 1.5$	x: 0.463 m $\eta = 0.1$	x: 0 m $\eta = 1.4$	x: 0.463 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 2.3$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.2$	PASSA $\eta = 2.3$
N313/N314	$\lambda \leq 200.0$ Passa	$\eta = 3.5$	$\eta = 6.2$	x: 0 m $\eta = 0.1$	x: 0.231 m $\eta = 1.2$	x: 0 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 4.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.2$	PASSA $\eta = 6.2$
N314/N315	$\lambda \leq 200.0$ Passa	$\eta = 9.0$	$\eta = 15.2$	x: 0.463 m $\eta = 0.2$	x: 0.463 m $\eta = 28.7$	x: 0.463 m $\eta = 1.8$	$\eta = 0.1$	x: 0.463 m $\eta = 36.5$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.463 m $\eta = 4.3$	PASSA $\eta = 36.5$
N297/N316	x: 0 m $\lambda \leq 200.0$ Passa	x: 0.7 m $\eta = 0.1$	x: 0 m $\eta < 0.1$	N.A. ⁽⁴⁾	N.A. ⁽⁴⁾	N.A. ⁽⁵⁾	$\eta < 0.1$	N.A. ⁽⁸⁾	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁶⁾	PASSA $\eta = 0.1$
N315/N317	$\lambda \leq 200.0$ Passa	x: 0.24 m $\eta = 0.3$	x: 0 m $\eta = 0.4$	x: 0 m $\eta = 0.4$	x: 0 m $\eta = 37.5$	$\eta = 3.5$	$\eta = 0.3$	x: 0 m $\eta = 38.1$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 8.6$	PASSA $\eta = 38.1$
N295/N318	$\lambda \leq 200.0$ Passa	x: 0.24 m $\eta = 0.3$	x: 0 m $\eta = 0.4$	x: 0 m $\eta = 0.4$	x: 0 m $\eta = 37.5$	$\eta = 3.5$	$\eta = 0.3$	x: 0 m $\eta = 38.1$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 8.6$	PASSA $\eta = 38.1$
N318/N319	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 1.3$	x: 0 m $\eta = 1.1$	x: 0 m $\eta < 0.1$	x: 0 m $\eta = 4.4$	x: 0.465 m $\eta = 0.4$	$\eta < 0.1$	x: 0 m $\eta = 5.0$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.9$	PASSA $\eta = 5.0$
N319/N320	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 5.2$	x: 0 m $\eta = 9.1$	x: 0.465 m $\eta = 0.1$	x: 0.465 m $\eta = 1.8$	x: 0 m $\eta = 0.1$	$\eta < 0.1$	x: 0.465 m $\eta = 6.5$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.4$	PASSA $\eta = 9.1$
N320/N321	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 10.6$	x: 0 m $\eta = 17.8$	x: 0 m $\eta = 0.2$	x: 0.465 m $\eta = 0.9$	x: 0 m $\eta < 0.1$	$\eta < 0.1$	x: 0.232 m $\eta = 9.9$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.1$	PASSA $\eta = 17.8$
N321/N322	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 13.3$	x: 0 m $\eta = 22.5$	x: 0 m $\eta = 0.1$	x: 0.232 m $\eta = 1.2$	x: 0 m $\eta < 0.1$	$\eta < 0.1$	x: 0.232 m $\eta = 23.5$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.1$	PASSA $\eta = 23.5$
N322/N323	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 15.6$	x: 0 m $\eta = 26.1$	x: 0 m $\eta < 0.1$	x: 0 m $\eta = 1.9$	x: 0.465 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 27.8$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.3$	PASSA $\eta = 27.8$
N323/N324	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 16.3$	x: 0 m $\eta = 27.5$	x: 0.465 m $\eta = 0.1$	x: 0 m $\eta = 1.5$	x: 0.465 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 28.9$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.2$	PASSA $\eta = 28.9$
N324/N325	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 17.1$	x: 0 m $\eta = 28.6$	x: 0 m $\eta = 0.1$	x: 0 m $\eta = 2.2$	x: 0.465 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 30.6$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.3$	PASSA $\eta = 30.6$
N325/N326	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 16.8$	x: 0 m $\eta = 28.4$	x: 0 m $\eta < 0.1$	x: 0 m $\eta = 1.7$	x: 0.465 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 29.8$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.3$	PASSA $\eta = 29.8$
N326/N327	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 16.8$	x: 0 m $\eta = 28.0$	x: 0.465 m $\eta < 0.1$	x: 0 m $\eta = 2.2$	x: 0.465 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 30.0$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.4$	PASSA $\eta = 30.0$
N327/N316	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 15.9$	x: 0 m $\eta = 26.7$	x: 0.465 m $\eta = 0.1$	x: 0 m $\eta = 2.3$	x: 0.465 m $\eta = 0.2$	$\eta < 0.1$	x: 0 m $\eta = 28.7$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.6$	PASSA $\eta = 28.7$
N317/N336	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 1.3$	x: 0 m $\eta = 1.1$	x: 0 m $\eta < 0.1$	x: 0 m $\eta = 4.4$	x: 0.465 m $\eta = 0.4$	$\eta < 0.1$	x: 0 m $\eta = 5.0$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.9$	PASSA $\eta = 5.0$
N336/N335	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 5.2$	x: 0 m $\eta = 9.1$	x: 0.465 m $\eta = 0.1$	x: 0.465 m $\eta = 1.8$	x: 0 m $\eta = 0.1$	$\eta < 0.1$	x: 0.465 m $\eta = 6.5$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.4$	PASSA $\eta = 9.1$
N335/N334	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 10.6$	x: 0 m $\eta = 17.8$	x: 0 m $\eta = 0.2$	x: 0.465 m $\eta = 0.9$	x: 0 m $\eta < 0.1$	$\eta < 0.1$	x: 0.232 m $\eta = 9.9$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.1$	PASSA $\eta = 17.8$
N334/N333	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 13.3$	x: 0 m $\eta = 22.5$	x: 0 m $\eta = 0.1$	x: 0.232 m $\eta = 1.2$	x: 0 m $\eta < 0.1$	$\eta < 0.1$	x: 0.232 m $\eta = 23.5$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.1$	PASSA $\eta = 23.5$
N333/N332	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 15.6$	x: 0 m $\eta = 26.1$	x: 0 m $\eta < 0.1$	x: 0 m $\eta = 1.9$	x: 0.465 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 27.8$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.3$	PASSA $\eta = 27.8$
N332/N331	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 16.3$	x: 0 m $\eta = 27.5$	x: 0.465 m $\eta = 0.1$	x: 0 m $\eta = 1.5$	x: 0.465 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 28.9$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.2$	PASSA $\eta = 28.9$
N331/N330	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 17.1$	x: 0 m $\eta = 28.6$	x: 0 m $\eta = 0.1$	x: 0 m $\eta = 2.2$	x: 0.465 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 30.6$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.3$	PASSA $\eta = 30.6$
N330/N329	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 16.8$	x: 0 m $\eta = 28.4$	x: 0 m $\eta < 0.1$	x: 0 m $\eta = 1.7$	x: 0.465 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 29.8$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.3$	PASSA $\eta = 29.8$
N329/N328	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 16.8$	x: 0 m $\eta = 28.0$	x: 0.465 m $\eta < 0.1$	x: 0 m $\eta = 2.2$	x: 0.465 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 30.0$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.4$	PASSA $\eta = 30.0$
N328/N316	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 15.9$	x: 0 m $\eta = 26.7$	x: 0.465 m $\eta = 0.1$	x: 0 m $\eta = 2.3$	x: 0.465 m $\eta = 0.2$	$\eta < 0.1$	x: 0 m $\eta = 28.7$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.6$	PASSA $\eta = 28.7$
N295/N319	$\lambda \leq 200.0$ Passa	x: 0.544 m $\eta = 7.1$	x: 0 m $\eta = 12.5$	x: 0 m $\eta = 0.1$	x: 0 m $\eta = 23.5$	x: 0 m $\eta = 1.2$	$\eta < 0.1$	x: 0 m $\eta = 29.9$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 3.0$	PASSA $\eta = 29.9$
N296/N319	$\lambda \leq 200.0$ Passa	x: 0.286 m $\eta = 5.0$	x: 0 m $\eta = 3.4$	x: 0 m $\eta < 0.1$	x: 0 m $\eta = 7.9$	$\eta = 1.0$	N.A. ⁽⁵⁾	x: 0 m $\eta = 10.5$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 10.5$
N296/N320	$\lambda \leq 200.0$ Passa	x: 0.569 m $\eta = 6.4$	x: 0 m $\eta = 11.0$	x: 0.569 m $\eta = 0.1$	x: 0 m $\eta = 2.4$	x: 0.569 m $\eta = 0.2$	$\eta < 0.1$	x: 0 m $\eta = 8.0$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.569 m $\eta = 0.4$	PASSA $\eta = 11.0$

Barras	VERIFICAÇÕES (ABNT NBR 8800:2008)												Estado
	λ	N_t	N_c	M_x	M_y	V_x	V_y	NM_xM_y	T	NMVT	$\sigma \tau f$		
N299/N320	$\lambda \leq 200.0$ Passa	x: 0.332 m $\eta = 3.6$	x: 0 m $\eta = 2.3$	x: 0.332 m $\eta = 0.1$	x: 0.332 m $\eta = 0.3$	$\eta < 0.1$	$\eta < 0.1$	x: 0.332 m $\eta = 1.9$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.1$	PASSA $\eta = 3.6$	
N299/N321	$\lambda \leq 200.0$ Passa	x: 0.597 m $\eta = 3.5$	x: 0 m $\eta = 6.4$	x: 0 m $\eta = 0.1$	x: 0 m $\eta = 1.1$	x: 0.597 m $\eta = 0.1$	N.A. ⁽⁵⁾	x: 0 m $\eta = 4.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 6.4$	
N300/N321	$\lambda \leq 200.0$ Passa	x: 0.378 m $\eta = 3.0$	x: 0 m $\eta = 2.1$	x: 0 m $\eta < 0.1$	x: 0 m $\eta = 0.3$	$\eta < 0.1$	N.A. ⁽⁵⁾	x: 0 m $\eta = 1.6$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 3.0$	
N300/N322	$\lambda \leq 200.0$ Passa	x: 0.627 m $\eta = 2.9$	x: 0 m $\eta = 5.2$	x: 0 m $\eta < 0.1$	x: 0 m $\eta = 1.3$	x: 0.627 m $\eta = 0.1$	N.A. ⁽⁵⁾	x: 0 m $\eta = 3.9$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 5.2$	
N301/N322	$\lambda \leq 200.0$ Passa	x: 0.424 m $\eta = 1.4$	x: 0 m $\eta = 0.8$	x: 0.424 m $\eta < 0.1$	x: 0 m $\eta = 1.0$	$\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 1.7$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.2$	PASSA $\eta = 1.7$	
N301/N323	$\lambda \leq 200.0$ Passa	x: 0.659 m $\eta = 1.1$	x: 0 m $\eta = 2.4$	x: 0 m $\eta < 0.1$	x: 0 m $\eta = 1.3$	x: 0.659 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 2.5$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.1$	PASSA $\eta = 2.5$	
N302/N323	$\lambda \leq 200.0$ Passa	x: 0.47 m $\eta = 1.2$	x: 0 m $\eta = 0.8$	N.A. ⁽⁴⁾	x: 0 m $\eta = 1.3$	$\eta = 0.1$	N.A. ⁽⁵⁾	x: 0.47 m $\eta = 1.9$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 1.9$	
N302/N324	$\lambda \leq 200.0$ Passa	x: 0.693 m $\eta = 1.0$	x: 0 m $\eta = 1.9$	x: 0.693 m $\eta < 0.1$	x: 0.173 m $\eta = 1.0$	x: 0.693 m $\eta = 0.1$	$\eta < 0.1$	x: 0.173 m $\eta = 1.9$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.693 m $\eta = 0.1$	PASSA $\eta = 1.9$	
N303/N324	$\lambda \leq 200.0$ Passa	x: 0.516 m $\eta = 0.4$	x: 0 m $\eta = 0.3$	x: 0 m $\eta < 0.1$	x: 0 m $\eta = 1.5$	$\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 1.6$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.2$	PASSA $\eta = 1.6$	
N303/N325	$\lambda \leq 200.0$ Passa	x: 0.728 m $\eta = 0.3$	x: 0 m $\eta = 0.5$	x: 0 m $\eta < 0.1$	x: 0.182 m $\eta = 0.9$	x: 0.728 m $\eta < 0.1$	N.A. ⁽⁵⁾	x: 0 m $\eta = 1.1$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 1.1$	
N304/N325	$\lambda \leq 200.0$ Passa	x: 0.562 m $\eta = 0.3$	x: 0 m $\eta = 0.4$	x: 0.562 m $\eta < 0.1$	x: 0.562 m $\eta = 1.7$	$\eta = 0.1$	N.A. ⁽⁵⁾	x: 0.562 m $\eta = 1.8$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 1.8$	
N304/N326	$\lambda \leq 200.0$ Passa	x: 0.764 m $\eta = 0.5$	x: 0 m $\eta = 0.4$	x: 0.764 m $\eta < 0.1$	x: 0.382 m $\eta = 0.7$	x: 0.764 m $\eta < 0.1$	N.A. ⁽⁵⁾	x: 0.382 m $\eta = 0.9$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 0.9$	
N305/N326	$\lambda \leq 200.0$ Passa	x: 0.608 m $\eta = 1.3$	x: 0 m $\eta = 1.9$	N.A. ⁽⁴⁾	x: 0.608 m $\eta = 1.8$	$\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 2.7$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.2$	PASSA $\eta = 2.7$	
N305/N327	$\lambda \leq 200.0$ Passa	x: 0.801 m $\eta = 2.0$	x: 0 m $\eta = 2.0$	N.A. ⁽⁴⁾	x: 0.601 m $\eta = 0.7$	x: 0 m $\eta < 0.1$	N.A. ⁽⁵⁾	x: 0.601 m $\eta = 1.7$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 2.0$	
N306/N327	$\lambda \leq 200.0$ Passa	x: 0.654 m $\eta = 1.1$	x: 0 m $\eta = 1.9$	N.A. ⁽⁴⁾	x: 0.654 m $\eta = 2.2$	$\eta = 0.1$	N.A. ⁽⁵⁾	x: 0.654 m $\eta = 3.1$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 3.1$	
N306/N316	$\lambda \leq 200.0$ Passa	x: 0.839 m $\eta = 1.9$	x: 0 m $\eta = 1.6$	N.A. ⁽⁴⁾	x: 0 m $\eta = 0.4$	x: 0.839 m $\eta = 0.1$	$\eta < 0.1$	x: 0.839 m $\eta = 1.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.1$	PASSA $\eta = 1.9$	
N298/N316	$\lambda \leq 200.0$ Passa	x: 0.839 m $\eta = 1.9$	x: 0 m $\eta = 1.6$	N.A. ⁽⁴⁾	x: 0 m $\eta = 0.4$	x: 0.839 m $\eta = 0.1$	$\eta < 0.1$	x: 0.839 m $\eta = 1.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.1$	PASSA $\eta = 1.9$	
N298/N328	$\lambda \leq 200.0$ Passa	x: 0.654 m $\eta = 1.1$	x: 0 m $\eta = 1.9$	N.A. ⁽⁴⁾	x: 0.654 m $\eta = 2.2$	$\eta = 0.1$	N.A. ⁽⁵⁾	x: 0.654 m $\eta = 3.1$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 3.1$	
N307/N328	$\lambda \leq 200.0$ Passa	x: 0.801 m $\eta = 2.0$	x: 0 m $\eta = 2.0$	N.A. ⁽⁴⁾	x: 0.601 m $\eta = 0.7$	x: 0 m $\eta < 0.1$	N.A. ⁽⁵⁾	x: 0.601 m $\eta = 1.7$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 2.0$	
N307/N329	$\lambda \leq 200.0$ Passa	x: 0.608 m $\eta = 1.3$	x: 0 m $\eta = 1.9$	N.A. ⁽⁴⁾	x: 0.608 m $\eta = 1.8$	$\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 2.7$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.2$	PASSA $\eta = 2.7$	
N308/N329	$\lambda \leq 200.0$ Passa	x: 0.764 m $\eta = 0.5$	x: 0 m $\eta = 0.4$	x: 0.764 m $\eta < 0.1$	x: 0.382 m $\eta = 0.7$	x: 0.764 m $\eta < 0.1$	N.A. ⁽⁵⁾	x: 0.382 m $\eta = 0.9$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 0.9$	
N308/N330	$\lambda \leq 200.0$ Passa	x: 0.562 m $\eta = 0.3$	x: 0 m $\eta = 0.4$	x: 0.562 m $\eta < 0.1$	x: 0.562 m $\eta = 1.7$	$\eta = 0.1$	N.A. ⁽⁵⁾	x: 0.562 m $\eta = 1.8$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 1.8$	
N309/N330	$\lambda \leq 200.0$ Passa	x: 0.728 m $\eta = 0.3$	x: 0 m $\eta = 0.5$	x: 0 m $\eta < 0.1$	x: 0.182 m $\eta = 0.9$	x: 0.728 m $\eta < 0.1$	N.A. ⁽⁵⁾	x: 0 m $\eta = 1.1$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 1.1$	
N309/N331	$\lambda \leq 200.0$ Passa	x: 0.516 m $\eta = 0.4$	x: 0 m $\eta = 0.3$	x: 0 m $\eta < 0.1$	x: 0 m $\eta = 1.5$	$\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 1.6$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.2$	PASSA $\eta = 1.6$	
N310/N331	$\lambda \leq 200.0$ Passa	x: 0.693 m $\eta = 1.0$	x: 0 m $\eta = 1.9$	x: 0.693 m $\eta < 0.1$	x: 0.173 m $\eta = 1.0$	x: 0.693 m $\eta = 0.1$	$\eta < 0.1$	x: 0.173 m $\eta = 1.9$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.693 m $\eta = 0.1$	PASSA $\eta = 1.9$	
N310/N332	$\lambda \leq 200.0$ Passa	x: 0.47 m $\eta = 1.2$	x: 0 m $\eta = 0.8$	N.A. ⁽⁴⁾	x: 0 m $\eta = 1.3$	$\eta = 0.1$	N.A. ⁽⁵⁾	x: 0.47 m $\eta = 1.9$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 1.9$	
N311/N332	$\lambda \leq 200.0$ Passa	x: 0.659 m $\eta = 1.1$	x: 0 m $\eta = 2.4$	x: 0 m $\eta < 0.1$	x: 0 m $\eta = 1.3$	x: 0.659 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 2.5$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.1$	PASSA $\eta = 2.5$	
N311/N333	$\lambda \leq 200.0$ Passa	x: 0.424 m $\eta = 1.4$	x: 0 m $\eta = 0.8$	x: 0.424 m $\eta < 0.1$	x: 0 m $\eta = 1.0$	$\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 1.7$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.2$	PASSA $\eta = 1.7$	
N312/N333	$\lambda \leq 200.0$ Passa	x: 0.627 m $\eta = 2.9$	x: 0 m $\eta = 5.2$	x: 0 m $\eta < 0.1$	x: 0 m $\eta = 1.3$	x: 0.627 m $\eta = 0.1$	N.A. ⁽⁵⁾	x: 0 m $\eta = 3.9$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 5.2$	
N312/N334	$\lambda \leq 200.0$ Passa	x: 0.378 m $\eta = 3.0$	x: 0 m $\eta = 2.1$	x: 0 m $\eta < 0.1$	x: 0 m $\eta = 0.3$	$\eta < 0.1$	N.A. ⁽⁵⁾	x: 0 m $\eta = 1.6$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 3.0$	

Barras	VERIFICAÇÕES (ABNT NBR 8800:2008)											Estado
	λ	N_t	N_c	M_x	M_y	V_x	V_y	NM_xM_y	T	NMVT	$\sigma \tau f$	
N313/N334	$\lambda \leq 200.0$ Passa	x: 0.597 m $\eta = 3.5$	x: 0 m $\eta = 6.4$	x: 0 m $\eta = 0.1$	x: 0 m $\eta = 1.1$	x: 0.597 m $\eta = 0.1$	N.A. ⁽⁵⁾	x: 0 m $\eta = 4.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 6.4$
N313/N335	$\lambda \leq 200.0$ Passa	x: 0.332 m $\eta = 3.6$	x: 0 m $\eta = 2.3$	x: 0.332 m $\eta = 0.1$	x: 0.332 m $\eta = 0.3$	$\eta < 0.1$	$\eta < 0.1$	x: 0.332 m $\eta = 1.9$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.1$	PASSA $\eta = 3.6$
N314/N335	$\lambda \leq 200.0$ Passa	x: 0.569 m $\eta = 6.4$	x: 0 m $\eta = 11.0$	x: 0.569 m $\eta = 0.1$	x: 0 m $\eta = 2.4$	x: 0.569 m $\eta = 0.2$	$\eta < 0.1$	x: 0 m $\eta = 8.0$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.569 m $\eta = 0.4$	PASSA $\eta = 11.0$
N314/N336	$\lambda \leq 200.0$ Passa	x: 0.286 m $\eta = 5.0$	x: 0 m $\eta = 3.4$	x: 0 m $\eta < 0.1$	x: 0 m $\eta = 7.9$	$\eta = 1.0$	N.A. ⁽⁵⁾	x: 0 m $\eta = 10.5$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 10.5$
N315/N336	$\lambda \leq 200.0$ Passa	x: 0.544 m $\eta = 7.1$	x: 0 m $\eta = 12.5$	x: 0 m $\eta = 0.1$	x: 0 m $\eta = 23.5$	x: 0 m $\eta = 1.2$	$\eta < 0.1$	x: 0 m $\eta = 29.9$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 3.0$	PASSA $\eta = 29.9$
N127/N128	$\lambda \leq 200.0$ Passa	$\eta = 10.6$	$\eta = 17.2$	x: 0 m $\eta = 3.8$	x: 0 m $\eta = 32.4$	x: 0 m $\eta = 2.0$	$\eta = 1.0$	x: 0 m $\eta = 44.8$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 5.6$	PASSA $\eta = 44.8$
N128/N131	$\lambda \leq 200.0$ Passa	$\eta = 4.2$	$\eta = 7.1$	x: 0.463 m $\eta = 1.5$	x: 0.231 m $\eta = 1.3$	x: 0.463 m $\eta = 0.1$	$\eta = 0.7$	x: 0.463 m $\eta = 6.3$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.9$	PASSA $\eta = 7.1$
N131/N132	$\lambda \leq 200.0$ Passa	$\eta = 0.9$	$\eta = 1.7$	x: 0.463 m $\eta = 0.8$	x: 0.463 m $\eta = 1.6$	x: 0 m $\eta = 0.1$	$\eta = 0.1$	x: 0.463 m $\eta = 3.3$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.4$	PASSA $\eta = 3.3$
N132/N133	$\lambda \leq 200.0$ Passa	$\eta = 2.2$	$\eta = 1.8$	x: 0.463 m $\eta = 0.5$	x: 0.463 m $\eta = 1.8$	x: 0 m $\eta = 0.1$	$\eta = 0.1$	x: 0.463 m $\eta = 3.3$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.3$	PASSA $\eta = 3.3$
N133/N134	$\lambda \leq 200.0$ Passa	$\eta = 3.7$	$\eta = 2.8$	x: 0.463 m $\eta = 0.2$	x: 0 m $\eta = 1.4$	x: 0.463 m $\eta < 0.1$	$\eta < 0.1$	x: 0.231 m $\eta = 3.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.463 m $\eta = 0.1$	PASSA $\eta = 3.7$
N134/N135	$\lambda \leq 200.0$ Passa	$\eta = 4.8$	$\eta = 3.6$	x: 0.463 m $\eta = 0.1$	x: 0.231 m $\eta = 1.4$	x: 0.463 m $\eta < 0.1$	$\eta < 0.1$	x: 0.231 m $\eta = 3.8$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.463 m $\eta = 0.1$	PASSA $\eta = 4.8$
N135/N136	$\lambda \leq 200.0$ Passa	$\eta = 4.5$	$\eta = 3.2$	x: 0 m $\eta < 0.1$	x: 0 m $\eta = 1.8$	x: 0.463 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 4.1$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.2$	PASSA $\eta = 4.5$
N136/N137	$\lambda \leq 200.0$ Passa	$\eta = 4.2$	$\eta = 3.0$	x: 0.463 m $\eta = 0.1$	x: 0 m $\eta = 1.7$	x: 0.463 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 3.8$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.463 m $\eta = 0.3$	PASSA $\eta = 4.2$
N137/N138	$\lambda \leq 200.0$ Passa	$\eta = 2.8$	$\eta = 1.8$	x: 0.463 m $\eta = 0.3$	x: 0 m $\eta = 2.1$	x: 0.463 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 3.7$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.463 m $\eta = 0.3$	PASSA $\eta = 3.7$
N138/N129	$\lambda \leq 200.0$ Passa	$\eta = 1.6$	$\eta = 0.9$	x: 0 m $\eta = 0.4$	x: 0 m $\eta = 1.7$	x: 0.463 m $\eta = 0.2$	$\eta < 0.1$	x: 0 m $\eta = 2.9$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.463 m $\eta = 0.4$	PASSA $\eta = 2.9$
N129/N130	$\lambda \leq 200.0$ Passa	$\eta = 1.6$	$\eta = 0.9$	x: 0.463 m $\eta = 0.4$	x: 0.463 m $\eta = 1.7$	x: 0 m $\eta = 0.2$	$\eta < 0.1$	x: 0.463 m $\eta = 2.9$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.4$	PASSA $\eta = 2.9$
N130/N139	$\lambda \leq 200.0$ Passa	$\eta = 2.8$	$\eta = 1.8$	x: 0 m $\eta = 0.3$	x: 0.463 m $\eta = 2.1$	x: 0 m $\eta = 0.1$	$\eta < 0.1$	x: 0.463 m $\eta = 3.7$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.3$	PASSA $\eta = 3.7$
N139/N140	$\lambda \leq 200.0$ Passa	$\eta = 4.2$	$\eta = 3.0$	x: 0 m $\eta = 0.1$	x: 0.463 m $\eta = 1.7$	x: 0 m $\eta = 0.1$	$\eta < 0.1$	x: 0.463 m $\eta = 3.8$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.3$	PASSA $\eta = 4.2$
N140/N141	$\lambda \leq 200.0$ Passa	$\eta = 4.5$	$\eta = 3.2$	x: 0.463 m $\eta < 0.1$	x: 0.463 m $\eta = 1.8$	x: 0 m $\eta = 0.1$	$\eta < 0.1$	x: 0.463 m $\eta = 4.1$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.463 m $\eta = 0.2$	PASSA $\eta = 4.5$
N141/N142	$\lambda \leq 200.0$ Passa	$\eta = 4.8$	$\eta = 3.6$	x: 0 m $\eta = 0.1$	x: 0.231 m $\eta = 1.4$	x: 0 m $\eta < 0.1$	$\eta < 0.1$	x: 0.231 m $\eta = 3.8$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.1$	PASSA $\eta = 4.8$
N142/N143	$\lambda \leq 200.0$ Passa	$\eta = 3.7$	$\eta = 2.8$	x: 0 m $\eta = 0.2$	x: 0.463 m $\eta = 1.4$	x: 0 m $\eta < 0.1$	$\eta < 0.1$	x: 0.231 m $\eta = 3.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.1$	PASSA $\eta = 3.7$
N143/N144	$\lambda \leq 200.0$ Passa	$\eta = 2.2$	$\eta = 1.8$	x: 0 m $\eta = 0.5$	x: 0 m $\eta = 1.8$	x: 0.463 m $\eta = 0.1$	$\eta = 0.1$	x: 0 m $\eta = 3.3$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.463 m $\eta = 0.3$	PASSA $\eta = 3.3$
N144/N145	$\lambda \leq 200.0$ Passa	$\eta = 0.9$	$\eta = 1.7$	x: 0 m $\eta = 0.8$	x: 0 m $\eta = 1.6$	x: 0.463 m $\eta = 0.1$	$\eta = 0.1$	x: 0 m $\eta = 3.3$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.463 m $\eta = 0.4$	PASSA $\eta = 3.3$
N145/N146	$\lambda \leq 200.0$ Passa	$\eta = 4.2$	$\eta = 7.1$	x: 0 m $\eta = 1.5$	x: 0.231 m $\eta = 1.3$	x: 0 m $\eta = 0.1$	$\eta = 0.7$	x: 0 m $\eta = 6.3$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.9$	PASSA $\eta = 7.1$
N146/N147	$\lambda \leq 200.0$ Passa	$\eta = 10.6$	$\eta = 17.2$	x: 0.463 m $\eta = 3.8$	x: 0.463 m $\eta = 32.4$	x: 0.463 m $\eta = 2.0$	$\eta = 1.0$	x: 0.463 m $\eta = 44.8$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.463 m $\eta = 5.6$	PASSA $\eta = 44.8$
N129/N148	$\lambda \leq 200.0$ Passa	x: 0.7 m $\eta = 0.1$	x: 0 m $\eta < 0.1$	x: 0.7 m $\eta = 0.1$	N.A. ⁽⁴⁾	N.A. ⁽⁵⁾	$\eta < 0.1$	x: 0.7 m $\eta = 0.1$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁶⁾	PASSA $\eta = 0.1$
N147/N149	$\lambda \leq 200.0$ Passa	x: 0.24 m $\eta = 0.4$	x: 0 m $\eta = 0.5$	x: 0.24 m $\eta = 1.4$	x: 0 m $\eta = 42.4$	$\eta = 4.0$	$\eta = 0.5$	x: 0 m $\eta = 43.1$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 9.9$	PASSA $\eta = 43.1$
N127/N150	$\lambda \leq 200.0$ Passa	x: 0.24 m $\eta = 0.4$	x: 0 m $\eta = 0.5$	x: 0.24 m $\eta = 1.4$	x: 0 m $\eta = 42.4$	$\eta = 4.0$	$\eta = 0.5$	x: 0 m $\eta = 43.1$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 9.9$	PASSA $\eta = 43.1$
N150/N151	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 1.4$	x: 0 m $\eta = 1.3$	x: 0.465 m $\eta = 1.3$	x: 0 m $\eta = 5.0$	x: 0.465 m $\eta = 0.4$	$\eta = 0.3$	x: 0.465 m $\eta = 6.3$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 1.3$	PASSA $\eta = 6.3$
N151/N152	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 6.1$	x: 0 m $\eta = 10.3$	x: 0 m $\eta = 0.2$	x: 0.465 m $\eta = 2.0$	x: 0 m $\eta = 0.2$	$\eta = 0.1$	x: 0.465 m $\eta = 7.3$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.5$	PASSA $\eta = 10.3$

Barras	VERIFICAÇÕES (ABNT NBR 8800:2008)											Estado
	λ	N_t	N_c	M_x	M_y	V_x	V_y	NM_xM_y	T	NMVT	$\sigma_{\tau f}$	
N152/N153	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 12.5$	x: 0 m $\eta = 20.0$	x: 0 m $\eta = 1.7$	x: 0.465 m $\eta = 1.0$	x: 0 m $\eta = 0.1$	$\eta = 0.4$	x: 0 m $\eta = 22.0$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.6$	PASSA $\eta = 22.0$
N153/N154	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 15.7$	x: 0 m $\eta = 25.4$	x: 0 m $\eta = 1.0$	x: 0.232 m $\eta = 1.3$	x: 0 m $\eta < 0.1$	$\eta = 0.5$	x: 0.465 m $\eta = 27.1$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.6$	PASSA $\eta = 27.1$
N154/N155	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 18.4$	x: 0 m $\eta = 29.5$	x: 0.465 m $\eta = 0.1$	x: 0 m $\eta = 2.2$	x: 0.465 m $\eta = 0.1$	$\eta = 0.1$	x: 0 m $\eta = 31.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.3$	PASSA $\eta = 31.4$
N155/N156	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 19.3$	x: 0 m $\eta = 31.1$	x: 0.465 m $\eta = 0.3$	x: 0 m $\eta = 1.7$	x: 0.465 m $\eta = 0.1$	$\eta = 0.1$	x: 0 m $\eta = 32.7$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.3$	PASSA $\eta = 32.7$
N156/N157	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 20.2$	x: 0 m $\eta = 32.4$	x: 0.465 m $\eta = 0.2$	x: 0 m $\eta = 2.6$	x: 0.465 m $\eta = 0.2$	$\eta = 0.1$	x: 0 m $\eta = 34.7$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.4$	PASSA $\eta = 34.7$
N157/N158	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 19.9$	x: 0 m $\eta = 32.1$	x: 0.465 m $\eta = 0.5$	x: 0 m $\eta = 1.9$	x: 0.465 m $\eta = 0.1$	$\eta = 0.1$	x: 0 m $\eta = 33.9$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.3$	PASSA $\eta = 33.9$
N158/N159	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 19.8$	x: 0 m $\eta = 31.7$	x: 0 m $\eta = 0.5$	x: 0 m $\eta = 2.5$	x: 0.465 m $\eta = 0.2$	$\eta = 0.3$	x: 0 m $\eta = 34.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.6$	PASSA $\eta = 34.4$
N159/N148	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 18.7$	x: 0 m $\eta = 30.2$	x: 0.465 m $\eta = 1.3$	x: 0 m $\eta = 2.6$	x: 0.465 m $\eta = 0.3$	$\eta = 0.3$	x: 0.465 m $\eta = 33.5$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.8$	PASSA $\eta = 33.5$
N149/N168	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 1.4$	x: 0 m $\eta = 1.3$	x: 0.465 m $\eta = 1.3$	x: 0 m $\eta = 5.0$	x: 0.465 m $\eta = 0.4$	$\eta = 0.3$	x: 0.465 m $\eta = 6.3$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 1.3$	PASSA $\eta = 6.3$
N168/N167	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 6.1$	x: 0 m $\eta = 10.3$	x: 0 m $\eta = 0.2$	x: 0.465 m $\eta = 2.0$	x: 0 m $\eta = 0.2$	$\eta = 0.1$	x: 0.465 m $\eta = 7.3$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.5$	PASSA $\eta = 10.3$
N167/N166	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 12.5$	x: 0 m $\eta = 20.0$	x: 0 m $\eta = 1.7$	x: 0.465 m $\eta = 1.0$	x: 0 m $\eta = 0.1$	$\eta = 0.4$	x: 0 m $\eta = 22.0$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.6$	PASSA $\eta = 22.0$
N166/N165	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 15.7$	x: 0 m $\eta = 25.4$	x: 0 m $\eta = 1.0$	x: 0.232 m $\eta = 1.3$	x: 0 m $\eta < 0.1$	$\eta = 0.5$	x: 0.465 m $\eta = 27.1$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.6$	PASSA $\eta = 27.1$
N165/N164	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 18.4$	x: 0 m $\eta = 29.5$	x: 0.465 m $\eta = 0.1$	x: 0 m $\eta = 2.2$	x: 0.465 m $\eta = 0.1$	$\eta = 0.1$	x: 0 m $\eta = 31.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.3$	PASSA $\eta = 31.4$
N164/N163	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 19.3$	x: 0 m $\eta = 31.1$	x: 0.465 m $\eta = 0.3$	x: 0 m $\eta = 1.7$	x: 0.465 m $\eta = 0.1$	$\eta = 0.1$	x: 0 m $\eta = 32.7$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.3$	PASSA $\eta = 32.7$
N163/N162	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 20.2$	x: 0 m $\eta = 32.4$	x: 0.465 m $\eta = 0.2$	x: 0 m $\eta = 2.6$	x: 0.465 m $\eta = 0.2$	$\eta = 0.1$	x: 0 m $\eta = 34.7$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.4$	PASSA $\eta = 34.7$
N162/N161	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 19.9$	x: 0 m $\eta = 32.1$	x: 0.465 m $\eta = 0.5$	x: 0 m $\eta = 1.9$	x: 0.465 m $\eta = 0.1$	$\eta = 0.1$	x: 0 m $\eta = 33.9$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.3$	PASSA $\eta = 33.9$
N161/N160	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 19.8$	x: 0 m $\eta = 31.7$	x: 0 m $\eta = 0.5$	x: 0 m $\eta = 2.5$	x: 0.465 m $\eta = 0.2$	$\eta = 0.3$	x: 0 m $\eta = 34.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.6$	PASSA $\eta = 34.4$
N160/N148	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 18.7$	x: 0 m $\eta = 30.2$	x: 0.465 m $\eta = 1.3$	x: 0 m $\eta = 2.6$	x: 0.465 m $\eta = 0.3$	$\eta = 0.3$	x: 0.465 m $\eta = 33.5$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.8$	PASSA $\eta = 33.5$
N127/N151	$\lambda \leq 200.0$ Passa	x: 0.544 m $\eta = 8.4$	x: 0 m $\eta = 14.1$	x: 0.544 m $\eta = 1.2$	x: 0 m $\eta = 26.6$	x: 0 m $\eta = 1.4$	$\eta = 0.4$	x: 0 m $\eta = 34.2$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 3.7$	PASSA $\eta = 34.2$
N128/N151	$\lambda \leq 200.0$ Passa	x: 0.286 m $\eta = 5.7$	x: 0 m $\eta = 4.0$	x: 0 m $\eta = 0.6$	x: 0 m $\eta = 9.0$	$\eta = 1.1$	$\eta < 0.1$	x: 0 m $\eta = 12.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 2.7$	PASSA $\eta = 12.4$
N128/N152	$\lambda \leq 200.0$ Passa	x: 0.569 m $\eta = 7.6$	x: 0 m $\eta = 12.5$	x: 0.569 m $\eta = 2.0$	x: 0 m $\eta = 2.8$	x: 0.569 m $\eta = 0.2$	$\eta = 0.2$	x: 0 m $\eta = 10.0$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.569 m $\eta = 0.6$	PASSA $\eta = 12.5$
N131/N152	$\lambda \leq 200.0$ Passa	x: 0.332 m $\eta = 4.1$	x: 0 m $\eta = 2.7$	x: 0 m $\eta = 0.9$	x: 0.332 m $\eta = 0.3$	$\eta < 0.1$	$\eta = 0.7$	x: 0.332 m $\eta = 3.0$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.8$	PASSA $\eta = 4.1$
N131/N153	$\lambda \leq 200.0$ Passa	x: 0.597 m $\eta = 4.1$	x: 0 m $\eta = 7.3$	x: 0 m $\eta = 1.5$	x: 0 m $\eta = 1.3$	x: 0.597 m $\eta = 0.1$	$\eta = 0.1$	x: 0 m $\eta = 6.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.597 m $\eta = 0.3$	PASSA $\eta = 7.3$
N132/N153	$\lambda \leq 200.0$ Passa	x: 0.378 m $\eta = 3.5$	x: 0 m $\eta = 2.5$	x: 0 m $\eta = 0.7$	x: 0 m $\eta = 0.4$	$\eta < 0.1$	$\eta < 0.1$	x: 0 m $\eta = 2.6$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.1$	PASSA $\eta = 3.5$
N132/N154	$\lambda \leq 200.0$ Passa	x: 0.627 m $\eta = 3.5$	x: 0 m $\eta = 5.9$	x: 0 m $\eta = 1.1$	x: 0 m $\eta = 1.4$	x: 0.627 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 5.5$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.627 m $\eta = 0.2$	PASSA $\eta = 5.9$
N133/N154	$\lambda \leq 200.0$ Passa	x: 0.424 m $\eta = 1.6$	x: 0 m $\eta = 1.0$	x: 0 m $\eta = 0.4$	x: 0 m $\eta = 1.1$	$\eta = 0.1$	$\eta = 0.2$	x: 0 m $\eta = 2.3$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.4$	PASSA $\eta = 2.3$
N133/N155	$\lambda \leq 200.0$ Passa	x: 0.659 m $\eta = 1.3$	x: 0 m $\eta = 2.7$	x: 0 m $\eta = 0.6$	x: 0 m $\eta = 1.5$	x: 0.659 m $\eta = 0.1$	$\eta = 0.1$	x: 0 m $\eta = 3.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.659 m $\eta = 0.2$	PASSA $\eta = 3.4$
N134/N155	$\lambda \leq 200.0$ Passa	x: 0.47 m $\eta = 1.4$	x: 0 m $\eta = 1.0$	x: 0 m $\eta = 0.2$	x: 0 m $\eta = 1.4$	$\eta = 0.1$	N.A. ⁽⁵⁾	x: 0 m $\eta = 2.3$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 2.3$
N134/N156	$\lambda \leq 200.0$ Passa	x: 0.693 m $\eta = 1.2$	x: 0 m $\eta = 2.2$	x: 0 m $\eta = 0.2$	x: 0.173 m $\eta = 1.1$	x: 0.693 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 2.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.1$	PASSA $\eta = 2.4$
N135/N156	$\lambda \leq 200.0$ Passa	x: 0.516 m $\eta = 0.4$	x: 0 m $\eta = 0.3$	x: 0 m $\eta = 0.1$	x: 0 m $\eta = 1.7$	$\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 2.0$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.4$	PASSA $\eta = 2.0$

Barras	VERIFICAÇÕES (ABNT NBR 8800:2008)											Estado
	λ	N_t	N_c	M_x	M_y	V_x	V_y	NM_xM_y	T	NMVT	$\sigma_{\tau f}$	
N135/N157	$\lambda \leq 200.0$ Passa	x: 0.728 m $\eta = 0.4$	x: 0 m $\eta = 0.6$	x: 0 m $\eta = 0.2$	x: 0.182 m $\eta = 1.0$	x: 0.728 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 1.3$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.728 m $\eta = 0.1$	PASSA $\eta = 1.3$
N136/N157	$\lambda \leq 200.0$ Passa	x: 0.562 m $\eta = 0.3$	x: 0 m $\eta = 0.4$	x: 0.562 m $\eta < 0.1$	x: 0.562 m $\eta = 1.9$	$\eta = 0.1$	$\eta < 0.1$	x: 0.562 m $\eta = 2.1$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.2$	PASSA $\eta = 2.1$
N136/N158	$\lambda \leq 200.0$ Passa	x: 0.764 m $\eta = 0.5$	x: 0 m $\eta = 0.4$	x: 0.764 m $\eta = 0.2$	x: 0.382 m $\eta = 0.8$	x: 0.764 m $\eta < 0.1$	$\eta < 0.1$	x: 0.382 m $\eta = 1.1$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.764 m $\eta = 0.1$	PASSA $\eta = 1.1$
N137/N158	$\lambda \leq 200.0$ Passa	x: 0.608 m $\eta = 1.5$	x: 0 m $\eta = 2.2$	x: 0 m $\eta = 0.1$	x: 0 m $\eta = 2.0$	$\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 3.2$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.3$	PASSA $\eta = 3.2$
N137/N159	$\lambda \leq 200.0$ Passa	x: 0.801 m $\eta = 2.3$	x: 0 m $\eta = 2.3$	x: 0 m $\eta = 0.2$	x: 0.601 m $\eta = 0.8$	x: 0 m $\eta < 0.1$	$\eta < 0.1$	x: 0.601 m $\eta = 2.1$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.801 m $\eta = 0.1$	PASSA $\eta = 2.3$
N138/N159	$\lambda \leq 200.0$ Passa	x: 0.654 m $\eta = 1.3$	x: 0 m $\eta = 2.1$	x: 0 m $\eta = 0.1$	x: 0.654 m $\eta = 2.5$	$\eta = 0.1$	N.A. ⁽⁵⁾	x: 0.654 m $\eta = 3.6$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 3.6$
N138/N148	$\lambda \leq 200.0$ Passa	x: 0.839 m $\eta = 2.2$	x: 0 m $\eta = 2.0$	x: 0.839 m $\eta = 0.2$	x: 0 m $\eta = 0.5$	x: 0.839 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 1.7$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.839 m $\eta = 0.2$	PASSA $\eta = 2.2$
N130/N148	$\lambda \leq 200.0$ Passa	x: 0.839 m $\eta = 2.2$	x: 0 m $\eta = 2.0$	x: 0.839 m $\eta = 0.2$	x: 0 m $\eta = 0.5$	x: 0.839 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 1.7$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.839 m $\eta = 0.2$	PASSA $\eta = 2.2$
N130/N160	$\lambda \leq 200.0$ Passa	x: 0.654 m $\eta = 1.3$	x: 0 m $\eta = 2.1$	x: 0 m $\eta = 0.1$	x: 0.654 m $\eta = 2.5$	$\eta = 0.1$	N.A. ⁽⁵⁾	x: 0.654 m $\eta = 3.6$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 3.6$
N139/N160	$\lambda \leq 200.0$ Passa	x: 0.801 m $\eta = 2.3$	x: 0 m $\eta = 2.3$	x: 0 m $\eta = 0.2$	x: 0.601 m $\eta = 0.8$	x: 0 m $\eta < 0.1$	$\eta < 0.1$	x: 0.601 m $\eta = 2.1$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.801 m $\eta = 0.1$	PASSA $\eta = 2.3$
N139/N161	$\lambda \leq 200.0$ Passa	x: 0.608 m $\eta = 1.5$	x: 0 m $\eta = 2.2$	x: 0 m $\eta = 0.1$	x: 0 m $\eta = 2.0$	$\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 3.2$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.3$	PASSA $\eta = 3.2$
N140/N161	$\lambda \leq 200.0$ Passa	x: 0.764 m $\eta = 0.5$	x: 0 m $\eta = 0.4$	x: 0.764 m $\eta = 0.2$	x: 0.382 m $\eta = 0.8$	x: 0.764 m $\eta < 0.1$	$\eta < 0.1$	x: 0.382 m $\eta = 1.1$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.764 m $\eta = 0.1$	PASSA $\eta = 1.1$
N140/N162	$\lambda \leq 200.0$ Passa	x: 0.562 m $\eta = 0.3$	x: 0 m $\eta = 0.4$	x: 0.562 m $\eta < 0.1$	x: 0.562 m $\eta = 1.9$	$\eta = 0.1$	$\eta < 0.1$	x: 0.562 m $\eta = 2.1$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.2$	PASSA $\eta = 2.1$
N141/N162	$\lambda \leq 200.0$ Passa	x: 0.728 m $\eta = 0.4$	x: 0 m $\eta = 0.6$	x: 0 m $\eta = 0.2$	x: 0.182 m $\eta = 1.0$	x: 0.728 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 1.3$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.728 m $\eta = 0.1$	PASSA $\eta = 1.3$
N141/N163	$\lambda \leq 200.0$ Passa	x: 0.516 m $\eta = 0.4$	x: 0 m $\eta = 0.3$	x: 0 m $\eta = 0.1$	x: 0 m $\eta = 1.7$	$\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 2.0$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.4$	PASSA $\eta = 2.0$
N142/N163	$\lambda \leq 200.0$ Passa	x: 0.693 m $\eta = 1.2$	x: 0 m $\eta = 2.2$	x: 0 m $\eta = 0.2$	x: 0.173 m $\eta = 1.1$	x: 0.693 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 2.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.1$	PASSA $\eta = 2.4$
N142/N164	$\lambda \leq 200.0$ Passa	x: 0.47 m $\eta = 1.4$	x: 0 m $\eta = 1.0$	x: 0 m $\eta = 0.2$	x: 0 m $\eta = 1.4$	$\eta = 0.1$	N.A. ⁽⁵⁾	x: 0 m $\eta = 2.3$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 2.3$
N143/N164	$\lambda \leq 200.0$ Passa	x: 0.659 m $\eta = 1.3$	x: 0 m $\eta = 2.7$	x: 0 m $\eta = 0.6$	x: 0 m $\eta = 1.5$	x: 0.659 m $\eta = 0.1$	$\eta = 0.1$	x: 0 m $\eta = 3.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.659 m $\eta = 0.2$	PASSA $\eta = 3.4$
N143/N165	$\lambda \leq 200.0$ Passa	x: 0.424 m $\eta = 1.6$	x: 0 m $\eta = 1.0$	x: 0 m $\eta = 0.4$	x: 0 m $\eta = 1.1$	$\eta = 0.1$	$\eta = 0.2$	x: 0 m $\eta = 2.3$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.4$	PASSA $\eta = 2.3$
N144/N165	$\lambda \leq 200.0$ Passa	x: 0.627 m $\eta = 3.5$	x: 0 m $\eta = 5.9$	x: 0 m $\eta = 1.1$	x: 0 m $\eta = 1.4$	x: 0.627 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 5.5$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.627 m $\eta = 0.2$	PASSA $\eta = 5.9$
N144/N166	$\lambda \leq 200.0$ Passa	x: 0.378 m $\eta = 3.5$	x: 0 m $\eta = 2.5$	x: 0 m $\eta = 0.7$	x: 0 m $\eta = 0.4$	$\eta < 0.1$	$\eta < 0.1$	x: 0 m $\eta = 2.6$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.1$	PASSA $\eta = 3.5$
N145/N166	$\lambda \leq 200.0$ Passa	x: 0.597 m $\eta = 4.1$	x: 0 m $\eta = 7.3$	x: 0 m $\eta = 1.5$	x: 0 m $\eta = 1.3$	x: 0.597 m $\eta = 0.1$	$\eta = 0.1$	x: 0 m $\eta = 6.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.597 m $\eta = 0.3$	PASSA $\eta = 7.3$
N145/N167	$\lambda \leq 200.0$ Passa	x: 0.332 m $\eta = 4.1$	x: 0 m $\eta = 2.7$	x: 0 m $\eta = 0.9$	x: 0.332 m $\eta = 0.3$	$\eta < 0.1$	$\eta = 0.7$	x: 0.332 m $\eta = 3.0$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.8$	PASSA $\eta = 4.1$
N146/N167	$\lambda \leq 200.0$ Passa	x: 0.569 m $\eta = 7.6$	x: 0 m $\eta = 12.5$	x: 0.569 m $\eta = 2.0$	x: 0 m $\eta = 2.8$	x: 0.569 m $\eta = 0.2$	$\eta = 0.2$	x: 0 m $\eta = 10.0$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.569 m $\eta = 0.6$	PASSA $\eta = 12.5$
N146/N168	$\lambda \leq 200.0$ Passa	x: 0.286 m $\eta = 5.7$	x: 0 m $\eta = 4.0$	x: 0 m $\eta = 0.6$	x: 0 m $\eta = 9.0$	$\eta = 1.1$	$\eta < 0.1$	x: 0 m $\eta = 12.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 2.7$	PASSA $\eta = 12.4$
N147/N168	$\lambda \leq 200.0$ Passa	x: 0.544 m $\eta = 8.4$	x: 0 m $\eta = 14.1$	x: 0.544 m $\eta = 1.2$	x: 0 m $\eta = 26.6$	x: 0 m $\eta = 1.4$	$\eta = 0.4$	x: 0 m $\eta = 34.2$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 3.7$	PASSA $\eta = 34.2$
N43/N49	$\lambda \leq 200.0$ Passa	$\eta = 3.4$	$\eta = 8.4$	x: 0 m $\eta = 11.9$	x: 0 m $\eta = 16.2$	x: 0 m $\eta = 1.0$	$\eta = 3.0$	x: 0 m $\eta = 32.3$	$\eta = 1.6$	N.A. ⁽¹⁾	x: 0 m $\eta = 35.3$	PASSA $\eta = 35.3$
N49/N50	$\lambda \leq 200.0$ Passa	$\eta = 1.2$	$\eta = 3.5$	x: 0 m $\eta = 5.4$	x: 0.231 m $\eta = 0.7$	x: 0.463 m $\eta < 0.1$	$\eta = 2.4$	x: 0 m $\eta = 7.6$	$\eta = 1.1$	N.A. ⁽¹⁾	x: 0 m $\eta = 7.5$	PASSA $\eta = 7.6$
N50/N51	$\lambda \leq 200.0$ Passa	$\eta = 0.3$	$\eta = 0.8$	x: 0.463 m $\eta = 2.0$	x: 0.463 m $\eta = 0.7$	x: 0 m $\eta = 0.1$	$\eta = 0.8$	x: 0.463 m $\eta = 3.1$	$\eta = 0.7$	N.A. ⁽¹⁾	x: 0.463 m $\eta = 3.0$	PASSA $\eta = 3.1$
N51/N52	$\lambda \leq 200.0$ Passa	$\eta = 1.0$	$\eta = 0.6$	x: 0.463 m $\eta = 1.9$	x: 0.463 m $\eta = 0.7$	x: 0 m $\eta = 0.1$	$\eta = 0.7$	x: 0.463 m $\eta = 3.2$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.9$	PASSA $\eta = 3.2$

Barras	VERIFICAÇÕES (ABNT NBR 8800:2008)											Estado
	λ	N_t	N_c	M_x	M_y	V_x	V_y	NM_xM_y	T	NMVT	$\sigma_{\tau f}$	
N52/N53	$\lambda \leq 200.0$ Passa	$\eta = 1.8$	$\eta = 0.9$	x: 0.463 m $\eta = 1.2$	x: 0.231 m $\eta = 0.7$	x: 0.463 m $\eta < 0.1$	$\eta = 0.3$	x: 0.463 m $\eta = 2.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.463 m $\eta = 0.4$	PASSA $\eta = 2.4$
N53/N54	$\lambda \leq 200.0$ Passa	$\eta = 2.3$	$\eta = 1.2$	x: 0.463 m $\eta = 1.1$	x: 0.231 m $\eta = 0.7$	x: 0.463 m $\eta < 0.1$	$\eta = 0.3$	x: 0.463 m $\eta = 2.7$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.463 m $\eta = 0.4$	PASSA $\eta = 2.7$
N54/N55	$\lambda \leq 200.0$ Passa	$\eta = 2.2$	$\eta = 1.0$	x: 0.463 m $\eta = 1.0$	x: 0 m $\eta = 0.9$	x: 0.463 m $\eta = 0.1$	$\eta = 0.2$	x: 0.231 m $\eta = 2.5$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.463 m $\eta = 0.3$	PASSA $\eta = 2.5$
N55/N56	$\lambda \leq 200.0$ Passa	$\eta = 2.0$	$\eta = 0.9$	x: 0.463 m $\eta = 1.4$	x: 0 m $\eta = 0.8$	x: 0.463 m $\eta = 0.1$	$\eta = 0.2$	x: 0.231 m $\eta = 2.7$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.463 m $\eta = 0.3$	PASSA $\eta = 2.7$
N56/N57	$\lambda \leq 200.0$ Passa	$\eta = 1.4$	$\eta = 0.5$	x: 0.463 m $\eta = 1.9$	x: 0 m $\eta = 1.0$	x: 0.463 m $\eta = 0.1$	$\eta = 0.1$	x: 0 m $\eta = 3.2$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.463 m $\eta = 0.3$	PASSA $\eta = 3.2$
N57/N45	$\lambda \leq 200.0$ Passa	$\eta = 0.8$	$\eta = 0.2$	x: 0 m $\eta = 2.0$	x: 0 m $\eta = 0.8$	x: 0.463 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 3.2$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.463 m $\eta = 0.3$	PASSA $\eta = 3.2$
N45/N58	$\lambda \leq 200.0$ Passa	$\eta = 0.8$	$\eta = 0.2$	x: 0.463 m $\eta = 2.0$	x: 0.463 m $\eta = 0.8$	x: 0 m $\eta = 0.1$	$\eta < 0.1$	x: 0.463 m $\eta = 3.2$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.3$	PASSA $\eta = 3.2$
N58/N59	$\lambda \leq 200.0$ Passa	$\eta = 1.4$	$\eta = 0.5$	x: 0 m $\eta = 1.9$	x: 0.463 m $\eta = 1.0$	x: 0 m $\eta = 0.1$	$\eta = 0.1$	x: 0.463 m $\eta = 3.2$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.3$	PASSA $\eta = 3.2$
N59/N60	$\lambda \leq 200.0$ Passa	$\eta = 2.0$	$\eta = 0.9$	x: 0 m $\eta = 1.4$	x: 0.463 m $\eta = 0.8$	x: 0 m $\eta = 0.1$	$\eta = 0.2$	x: 0.231 m $\eta = 2.7$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.3$	PASSA $\eta = 2.7$
N60/N61	$\lambda \leq 200.0$ Passa	$\eta = 2.2$	$\eta = 1.0$	x: 0 m $\eta = 1.0$	x: 0.463 m $\eta = 0.9$	x: 0 m $\eta = 0.1$	$\eta = 0.2$	x: 0.231 m $\eta = 2.5$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.3$	PASSA $\eta = 2.5$
N61/N62	$\lambda \leq 200.0$ Passa	$\eta = 2.3$	$\eta = 1.2$	x: 0 m $\eta = 1.1$	x: 0.231 m $\eta = 0.7$	x: 0 m $\eta < 0.1$	$\eta = 0.3$	x: 0 m $\eta = 2.7$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.4$	PASSA $\eta = 2.7$
N62/N63	$\lambda \leq 200.0$ Passa	$\eta = 1.8$	$\eta = 0.9$	x: 0 m $\eta = 1.2$	x: 0.231 m $\eta = 0.7$	x: 0 m $\eta < 0.1$	$\eta = 0.3$	x: 0 m $\eta = 2.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.4$	PASSA $\eta = 2.4$
N63/N64	$\lambda \leq 200.0$ Passa	$\eta = 1.0$	$\eta = 0.6$	x: 0 m $\eta = 1.9$	x: 0 m $\eta = 0.7$	x: 0.463 m $\eta = 0.1$	$\eta = 0.7$	x: 0 m $\eta = 3.2$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.463 m $\eta = 0.9$	PASSA $\eta = 3.2$
N64/N65	$\lambda \leq 200.0$ Passa	$\eta = 0.3$	$\eta = 0.8$	x: 0 m $\eta = 2.0$	x: 0 m $\eta = 0.7$	x: 0.463 m $\eta = 0.1$	$\eta = 0.8$	x: 0 m $\eta = 3.1$	$\eta = 0.7$	N.A. ⁽¹⁾	x: 0 m $\eta = 3.0$	PASSA $\eta = 3.1$
N65/N66	$\lambda \leq 200.0$ Passa	$\eta = 1.2$	$\eta = 3.5$	x: 0.463 m $\eta = 5.4$	x: 0.231 m $\eta = 0.7$	x: 0 m $\eta < 0.1$	$\eta = 2.4$	x: 0.463 m $\eta = 7.6$	$\eta = 1.1$	N.A. ⁽¹⁾	x: 0.463 m $\eta = 7.5$	PASSA $\eta = 7.6$
N66/N44	$\lambda \leq 200.0$ Passa	$\eta = 3.4$	$\eta = 8.4$	x: 0.463 m $\eta = 11.9$	x: 0.463 m $\eta = 16.2$	x: 0.463 m $\eta = 1.0$	$\eta = 3.0$	x: 0.463 m $\eta = 32.3$	$\eta = 1.6$	N.A. ⁽¹⁾	x: 0.463 m $\eta = 35.3$	PASSA $\eta = 35.3$
N45/N46	x: 0 m $\lambda \leq 200.0$ Passa	x: 0.7 m $\eta = 0.1$	x: 0 m $\eta < 0.1$	x: 0.7 m $\eta = 0.2$	N.A. ⁽⁴⁾	N.A. ⁽⁵⁾	$\eta < 0.1$	x: 0.7 m $\eta = 0.3$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁶⁾	PASSA $\eta = 0.3$
N44/N47	$\lambda \leq 200.0$ Passa	x: 0.24 m $\eta = 0.2$	x: 0 m $\eta = 0.2$	x: 0.24 m $\eta = 5.3$	x: 0 m $\eta = 21.2$	$\eta = 2.0$	$\eta = 0.2$	x: 0 m $\eta = 26.5$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 4.8$	PASSA $\eta = 26.5$
N43/N48	$\lambda \leq 200.0$ Passa	x: 0.24 m $\eta = 0.2$	x: 0 m $\eta = 0.2$	x: 0.24 m $\eta = 5.3$	x: 0 m $\eta = 21.2$	$\eta = 2.0$	$\eta = 0.2$	x: 0 m $\eta = 26.5$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 4.8$	PASSA $\eta = 26.5$
N48/N76	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 0.7$	x: 0 m $\eta = 0.3$	x: 0.465 m $\eta = 4.9$	x: 0 m $\eta = 2.5$	x: 0.465 m $\eta = 0.2$	$\eta = 1.5$	x: 0.465 m $\eta = 7.5$	$\eta = 1.1$	N.A. ⁽¹⁾	x: 0.465 m $\eta = 6.9$	PASSA $\eta = 7.5$
N76/N77	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 2.1$	x: 0 m $\eta = 5.0$	x: 0.465 m $\eta = 3.2$	x: 0.465 m $\eta = 0.9$	x: 0 m $\eta = 0.1$	$\eta = 0.8$	x: 0.465 m $\eta = 6.4$	$\eta = 1.3$	N.A. ⁽¹⁾	x: 0.465 m $\eta = 6.2$	PASSA $\eta = 6.4$
N77/N78	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 4.2$	x: 0 m $\eta = 9.8$	x: 0 m $\eta = 2.5$	x: 0 m $\eta = 0.5$	x: 0 m $\eta < 0.1$	$\eta = 0.9$	x: 0 m $\eta = 7.0$	$\eta = 0.6$	N.A. ⁽¹⁾	x: 0 m $\eta = 7.4$	PASSA $\eta = 9.8$
N78/N79	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 5.2$	x: 0 m $\eta = 12.4$	x: 0 m $\eta = 2.1$	x: 0.232 m $\eta = 0.7$	x: 0 m $\eta < 0.1$	$\eta = 1.1$	x: 0 m $\eta = 8.7$	$\eta = 0.7$	N.A. ⁽¹⁾	x: 0 m $\eta = 7.7$	PASSA $\eta = 12.4$
N79/N80	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 6.2$	x: 0 m $\eta = 14.4$	x: 0 m $\eta = 1.5$	x: 0 m $\eta = 1.0$	x: 0.465 m $\eta = 0.1$	$\eta = 0.5$	x: 0 m $\eta = 9.1$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.6$	PASSA $\eta = 14.4$
N80/N81	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 6.4$	x: 0 m $\eta = 15.2$	x: 0.465 m $\eta = 1.2$	x: 0 m $\eta = 0.8$	x: 0.465 m $\eta = 0.1$	$\eta = 0.6$	x: 0 m $\eta = 9.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.7$	PASSA $\eta = 15.2$
N81/N82	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 6.7$	x: 0 m $\eta = 15.8$	x: 0 m $\eta = 0.8$	x: 0 m $\eta = 1.1$	x: 0.465 m $\eta = 0.1$	$\eta = 0.3$	x: 0 m $\eta = 9.2$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.4$	PASSA $\eta = 15.8$
N82/N83	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 6.6$	x: 0 m $\eta = 15.7$	x: 0.465 m $\eta = 1.0$	x: 0 m $\eta = 0.9$	x: 0.465 m $\eta = 0.1$	$\eta = 0.4$	x: 0 m $\eta = 9.0$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.5$	PASSA $\eta = 15.7$
N83/N84	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 6.6$	x: 0 m $\eta = 15.5$	x: 0.465 m $\eta = 2.0$	x: 0 m $\eta = 1.1$	x: 0.465 m $\eta = 0.1$	$\eta = 0.7$	x: 0.465 m $\eta = 9.8$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.9$	PASSA $\eta = 15.5$
N84/N46	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 6.2$	x: 0 m $\eta = 14.8$	x: 0.465 m $\eta = 4.3$	x: 0.465 m $\eta = 1.3$	x: 0.465 m $\eta = 0.1$	$\eta = 0.7$	x: 0.465 m $\eta = 13.0$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.9$	PASSA $\eta = 14.8$
N47/N75	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 0.7$	x: 0 m $\eta = 0.3$	x: 0.465 m $\eta = 4.9$	x: 0 m $\eta = 2.5$	x: 0.465 m $\eta = 0.2$	$\eta = 1.5$	x: 0.465 m $\eta = 7.5$	$\eta = 1.1$	N.A. ⁽¹⁾	x: 0.465 m $\eta = 6.9$	PASSA $\eta = 7.5$

Barras	VERIFICAÇÕES (ABNT NBR 8800:2008)											Estado
	λ	N_t	N_c	M_x	M_y	V_x	V_y	NM_xM_y	T	NMVT	$\sigma_{\tau f}$	
N75/N74	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 2.1$	x: 0 m $\eta = 5.0$	x: 0.465 m $\eta = 3.2$	x: 0.465 m $\eta = 0.9$	x: 0 m $\eta = 0.1$	$\eta = 0.8$	x: 0.465 m $\eta = 6.4$	$\eta = 1.3$	N.A. ⁽¹⁾	x: 0.465 m $\eta = 6.2$	PASSA $\eta = 6.4$
N74/N73	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 4.2$	x: 0 m $\eta = 9.8$	x: 0 m $\eta = 2.5$	x: 0 m $\eta = 0.5$	x: 0 m $\eta < 0.1$	$\eta = 0.9$	x: 0 m $\eta = 7.0$	$\eta = 0.6$	N.A. ⁽¹⁾	x: 0 m $\eta = 7.4$	PASSA $\eta = 9.8$
N73/N72	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 5.2$	x: 0 m $\eta = 12.4$	x: 0 m $\eta = 2.1$	x: 0.232 m $\eta = 0.7$	x: 0 m $\eta < 0.1$	$\eta = 1.1$	x: 0 m $\eta = 8.7$	$\eta = 0.7$	N.A. ⁽¹⁾	x: 0 m $\eta = 7.7$	PASSA $\eta = 12.4$
N72/N71	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 6.2$	x: 0 m $\eta = 14.4$	x: 0 m $\eta = 1.5$	x: 0 m $\eta = 1.0$	x: 0.465 m $\eta = 0.1$	$\eta = 0.5$	x: 0 m $\eta = 9.1$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.6$	PASSA $\eta = 14.4$
N71/N70	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 6.4$	x: 0 m $\eta = 15.2$	x: 0.465 m $\eta = 1.2$	x: 0 m $\eta = 0.8$	x: 0.465 m $\eta = 0.1$	$\eta = 0.6$	x: 0 m $\eta = 9.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.7$	PASSA $\eta = 15.2$
N70/N69	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 6.7$	x: 0 m $\eta = 15.8$	x: 0 m $\eta = 0.8$	x: 0 m $\eta = 1.1$	x: 0.465 m $\eta = 0.1$	$\eta = 0.3$	x: 0 m $\eta = 9.2$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.4$	PASSA $\eta = 15.8$
N69/N68	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 6.6$	x: 0 m $\eta = 15.7$	x: 0.465 m $\eta = 1.0$	x: 0 m $\eta = 0.9$	x: 0.465 m $\eta = 0.1$	$\eta = 0.4$	x: 0 m $\eta = 9.0$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.5$	PASSA $\eta = 15.7$
N68/N67	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 6.6$	x: 0 m $\eta = 15.5$	x: 0.465 m $\eta = 2.0$	x: 0 m $\eta = 1.1$	x: 0.465 m $\eta = 0.1$	$\eta = 0.7$	x: 0.465 m $\eta = 9.8$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.9$	PASSA $\eta = 15.5$
N67/N46	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 6.2$	x: 0 m $\eta = 14.8$	x: 0.465 m $\eta = 4.3$	x: 0.465 m $\eta = 1.3$	x: 0.465 m $\eta = 0.1$	$\eta = 0.7$	x: 0.465 m $\eta = 13.0$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.9$	PASSA $\eta = 14.8$
N43/N76	$\lambda \leq 200.0$ Passa	x: 0.544 m $\eta = 2.8$	x: 0 m $\eta = 6.9$	x: 0.544 m $\eta = 5.0$	x: 0 m $\eta = 13.3$	x: 0 m $\eta = 0.7$	$\eta = 0.4$	x: 0 m $\eta = 20.0$	$\eta = 1.1$	N.A. ⁽¹⁾	x: 0 m $\eta = 16.9$	PASSA $\eta = 20.0$
N49/N76	$\lambda \leq 200.0$ Passa	x: 0.286 m $\eta = 2.8$	x: 0 m $\eta = 1.3$	x: 0 m $\eta = 3.0$	x: 0 m $\eta = 4.4$	$\eta = 0.6$	$\eta = 0.3$	x: 0 m $\eta = 8.8$	$\eta = 1.1$	N.A. ⁽¹⁾	x: 0.286 m $\eta = 6.5$	PASSA $\eta = 8.8$
N49/N77	$\lambda \leq 200.0$ Passa	x: 0.569 m $\eta = 2.6$	x: 0 m $\eta = 6.1$	x: 0.569 m $\eta = 6.4$	x: 0 m $\eta = 1.3$	x: 0.569 m $\eta = 0.1$	$\eta = 0.3$	x: 0.569 m $\eta = 9.9$	$\eta = 0.6$	N.A. ⁽¹⁾	x: 0.569 m $\eta = 9.3$	PASSA $\eta = 9.9$
N50/N77	$\lambda \leq 200.0$ Passa	x: 0.332 m $\eta = 2.0$	x: 0 m $\eta = 0.8$	x: 0 m $\eta = 3.1$	x: 0.332 m $\eta = 0.1$	$\eta < 0.1$	$\eta = 1.8$	x: 0 m $\eta = 4.1$	$\eta = 0.6$	N.A. ⁽¹⁾	x: 0 m $\eta = 4.3$	PASSA $\eta = 4.3$
N50/N78	$\lambda \leq 200.0$ Passa	x: 0.597 m $\eta = 1.3$	x: 0 m $\eta = 3.6$	x: 0 m $\eta = 4.9$	x: 0 m $\eta = 0.5$	x: 0.597 m $\eta = 0.1$	$\eta = 0.2$	x: 0 m $\eta = 7.2$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.597 m $\eta = 0.4$	PASSA $\eta = 7.2$
N51/N78	$\lambda \leq 200.0$ Passa	x: 0.378 m $\eta = 1.7$	x: 0 m $\eta = 0.8$	x: 0 m $\eta = 2.4$	x: 0 m $\eta = 0.2$	$\eta < 0.1$	$\eta = 0.1$	x: 0 m $\eta = 3.2$	$\eta = 0.5$	N.A. ⁽¹⁾	x: 0 m $\eta = 3.8$	PASSA $\eta = 3.8$
N51/N79	$\lambda \leq 200.0$ Passa	x: 0.627 m $\eta = 1.1$	x: 0 m $\eta = 2.9$	x: 0.627 m $\eta = 3.5$	x: 0.157 m $\eta = 0.7$	x: 0.627 m $\eta = 0.1$	$\eta = 0.1$	x: 0.157 m $\eta = 5.6$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.1$	PASSA $\eta = 5.6$
N52/N79	$\lambda \leq 200.0$ Passa	x: 0.424 m $\eta = 0.8$	x: 0 m $\eta = 0.2$	x: 0 m $\eta = 1.8$	x: 0 m $\eta = 0.5$	$\eta < 0.1$	$\eta = 0.6$	x: 0 m $\eta = 2.8$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.7$	PASSA $\eta = 2.8$
N52/N80	$\lambda \leq 200.0$ Passa	x: 0.659 m $\eta = 0.4$	x: 0 m $\eta = 1.4$	x: 0 m $\eta = 2.5$	x: 0.165 m $\eta = 0.7$	x: 0.659 m $\eta = 0.1$	$\eta = 0.1$	x: 0 m $\eta = 3.9$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.659 m $\eta = 0.3$	PASSA $\eta = 3.9$
N53/N80	$\lambda \leq 200.0$ Passa	x: 0.47 m $\eta = 0.7$	x: 0 m $\eta = 0.3$	x: 0 m $\eta = 1.2$	x: 0.47 m $\eta = 0.7$	$\eta = 0.1$	$\eta < 0.1$	x: 0.47 m $\eta = 2.2$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.1$	PASSA $\eta = 2.2$
N53/N81	$\lambda \leq 200.0$ Passa	x: 0.693 m $\eta = 0.4$	x: 0 m $\eta = 1.0$	x: 0.693 m $\eta = 1.6$	x: 0.173 m $\eta = 0.6$	x: 0.693 m $\eta < 0.1$	$\eta < 0.1$	x: 0.173 m $\eta = 2.7$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.693 m $\eta = 0.1$	PASSA $\eta = 2.7$
N54/N81	$\lambda \leq 200.0$ Passa	x: 0.516 m $\eta = 0.2$	x: 0 m $\eta = 0.1$	x: 0 m $\eta = 0.8$	x: 0 m $\eta = 0.8$	$\eta = 0.1$	$\eta = 0.2$	x: 0 m $\eta = 1.7$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.3$	PASSA $\eta = 1.7$
N54/N82	$\lambda \leq 200.0$ Passa	x: 0.728 m $\eta = 0.2$	x: 0 m $\eta = 0.3$	x: 0 m $\eta = 1.0$	x: 0 m $\eta = 0.4$	x: 0.728 m $\eta < 0.1$	$\eta = 0.1$	x: 0 m $\eta = 1.5$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.728 m $\eta = 0.2$	PASSA $\eta = 1.5$
N55/N82	$\lambda \leq 200.0$ Passa	x: 0.562 m $\eta = 0.1$	x: 0 m $\eta = 0.2$	x: 0.562 m $\eta = 0.4$	x: 0.562 m $\eta = 0.9$	$\eta = 0.1$	$\eta < 0.1$	x: 0.562 m $\eta = 1.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.2$	PASSA $\eta = 1.4$
N55/N83	$\lambda \leq 200.0$ Passa	x: 0.764 m $\eta = 0.3$	x: 0 m $\eta = 0.1$	x: 0 m $\eta = 0.4$	x: 0.764 m $\eta = 0.4$	x: 0.764 m $\eta < 0.1$	$\eta < 0.1$	x: 0.382 m $\eta = 0.8$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.764 m $\eta = 0.1$	PASSA $\eta = 0.8$
N56/N83	$\lambda \leq 200.0$ Passa	x: 0.608 m $\eta = 0.6$	x: 0 m $\eta = 1.0$	x: 0.608 m $\eta = 0.7$	x: 0.608 m $\eta = 1.0$	$\eta = 0.1$	$\eta = 0.1$	x: 0.608 m $\eta = 2.0$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.2$	PASSA $\eta = 2.0$
N56/N84	$\lambda \leq 200.0$ Passa	x: 0.801 m $\eta = 1.1$	x: 0 m $\eta = 0.8$	x: 0.801 m $\eta = 0.2$	x: 0.801 m $\eta = 0.3$	x: 0.801 m $\eta < 0.1$	$\eta < 0.1$	x: 0.401 m $\eta = 1.0$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.1$	PASSA $\eta = 1.1$
N57/N84	$\lambda \leq 200.0$ Passa	x: 0.654 m $\eta = 0.4$	x: 0 m $\eta = 1.0$	x: 0 m $\eta = 0.2$	x: 0.654 m $\eta = 1.2$	$\eta = 0.1$	$\eta < 0.1$	x: 0.654 m $\eta = 1.9$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.2$	PASSA $\eta = 1.9$
N57/N46	$\lambda \leq 200.0$ Passa	x: 0.839 m $\eta = 1.1$	x: 0 m $\eta = 0.6$	x: 0.839 m $\eta = 0.8$	x: 0.839 m $\eta = 0.3$	x: 0.839 m $\eta < 0.1$	$\eta = 0.2$	x: 0.839 m $\eta = 1.6$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.839 m $\eta = 0.2$	PASSA $\eta = 1.6$
N58/N46	$\lambda \leq 200.0$ Passa	x: 0.839 m $\eta = 1.1$	x: 0 m $\eta = 0.6$	x: 0.839 m $\eta = 0.8$	x: 0.839 m $\eta = 0.3$	x: 0.839 m $\eta < 0.1$	$\eta = 0.2$	x: 0.839 m $\eta = 1.6$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.839 m $\eta = 0.2$	PASSA $\eta = 1.6$
N58/N67	$\lambda \leq 200.0$ Passa	x: 0.654 m $\eta = 0.4$	x: 0 m $\eta = 1.0$	x: 0 m $\eta = 0.2$	x: 0.654 m $\eta = 1.2$	$\eta = 0.1$	$\eta < 0.1$	x: 0.654 m $\eta = 1.9$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.2$	PASSA $\eta = 1.9$

Barras	VERIFICAÇÕES (ABNT NBR 8800:2008)											Estado
	λ	N_t	N_c	M_x	M_y	V_x	V_y	NM_xM_y	T	NMVT	$\sigma_{\tau f}$	
N59/N67	$\lambda \leq 200.0$ Passa	x: 0.801 m $\eta = 1.1$	x: 0 m $\eta = 0.8$	x: 0.801 m $\eta = 0.2$	x: 0.801 m $\eta = 0.3$	x: 0.801 m $\eta < 0.1$	$\eta < 0.1$	x: 0.401 m $\eta = 1.0$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.1$	PASSA $\eta = 1.1$
N59/N68	$\lambda \leq 200.0$ Passa	x: 0.608 m $\eta = 0.6$	x: 0 m $\eta = 1.0$	x: 0.608 m $\eta = 0.7$	x: 0.608 m $\eta = 1.0$	$\eta = 0.1$	$\eta = 0.1$	x: 0.608 m $\eta = 2.0$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.2$	PASSA $\eta = 2.0$
N60/N68	$\lambda \leq 200.0$ Passa	x: 0.764 m $\eta = 0.3$	x: 0 m $\eta = 0.1$	x: 0 m $\eta = 0.4$	x: 0.764 m $\eta = 0.4$	x: 0.764 m $\eta < 0.1$	$\eta < 0.1$	x: 0.382 m $\eta = 0.8$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.764 m $\eta = 0.1$	PASSA $\eta = 0.8$
N60/N69	$\lambda \leq 200.0$ Passa	x: 0.562 m $\eta = 0.1$	x: 0 m $\eta = 0.2$	x: 0.562 m $\eta = 0.4$	x: 0.562 m $\eta = 0.9$	$\eta = 0.1$	$\eta < 0.1$	x: 0.562 m $\eta = 1.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.2$	PASSA $\eta = 1.4$
N61/N69	$\lambda \leq 200.0$ Passa	x: 0.728 m $\eta = 0.2$	x: 0 m $\eta = 0.3$	x: 0 m $\eta = 1.0$	x: 0 m $\eta = 0.4$	x: 0.728 m $\eta < 0.1$	$\eta = 0.1$	x: 0 m $\eta = 1.5$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.728 m $\eta = 0.2$	PASSA $\eta = 1.5$
N61/N70	$\lambda \leq 200.0$ Passa	x: 0.516 m $\eta = 0.2$	x: 0 m $\eta = 0.1$	x: 0 m $\eta = 0.8$	x: 0 m $\eta = 0.8$	$\eta = 0.1$	$\eta = 0.2$	x: 0 m $\eta = 1.7$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.3$	PASSA $\eta = 1.7$
N62/N70	$\lambda \leq 200.0$ Passa	x: 0.693 m $\eta = 0.4$	x: 0 m $\eta = 1.0$	x: 0.693 m $\eta = 1.6$	x: 0.173 m $\eta = 0.6$	x: 0.693 m $\eta < 0.1$	$\eta < 0.1$	x: 0.173 m $\eta = 2.7$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.693 m $\eta = 0.1$	PASSA $\eta = 2.7$
N62/N71	$\lambda \leq 200.0$ Passa	x: 0.47 m $\eta = 0.7$	x: 0 m $\eta = 0.3$	x: 0 m $\eta = 1.2$	x: 0.47 m $\eta = 0.7$	$\eta = 0.1$	$\eta < 0.1$	x: 0.47 m $\eta = 2.2$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.1$	PASSA $\eta = 2.2$
N63/N71	$\lambda \leq 200.0$ Passa	x: 0.659 m $\eta = 0.4$	x: 0 m $\eta = 1.4$	x: 0 m $\eta = 2.5$	x: 0.165 m $\eta = 0.7$	x: 0.659 m $\eta = 0.1$	$\eta = 0.1$	x: 0 m $\eta = 3.9$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.659 m $\eta = 0.3$	PASSA $\eta = 3.9$
N63/N72	$\lambda \leq 200.0$ Passa	x: 0.424 m $\eta = 0.8$	x: 0 m $\eta = 0.2$	x: 0 m $\eta = 1.8$	x: 0 m $\eta = 0.5$	$\eta < 0.1$	$\eta = 0.6$	x: 0 m $\eta = 2.8$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.7$	PASSA $\eta = 2.8$
N64/N72	$\lambda \leq 200.0$ Passa	x: 0.627 m $\eta = 1.1$	x: 0 m $\eta = 2.9$	x: 0.627 m $\eta = 3.5$	x: 0.157 m $\eta = 0.7$	x: 0.627 m $\eta = 0.1$	$\eta = 0.1$	x: 0.157 m $\eta = 5.6$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.1$	PASSA $\eta = 5.6$
N64/N73	$\lambda \leq 200.0$ Passa	x: 0.378 m $\eta = 1.7$	x: 0 m $\eta = 0.8$	x: 0 m $\eta = 2.4$	x: 0 m $\eta = 0.2$	$\eta < 0.1$	$\eta = 0.1$	x: 0 m $\eta = 3.2$	$\eta = 0.5$	N.A. ⁽¹⁾	x: 0 m $\eta = 3.8$	PASSA $\eta = 3.8$
N65/N73	$\lambda \leq 200.0$ Passa	x: 0.597 m $\eta = 1.3$	x: 0 m $\eta = 3.6$	x: 0 m $\eta = 4.9$	x: 0 m $\eta = 0.5$	x: 0.597 m $\eta = 0.1$	$\eta = 0.2$	x: 0 m $\eta = 7.2$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.597 m $\eta = 0.4$	PASSA $\eta = 7.2$
N65/N74	$\lambda \leq 200.0$ Passa	x: 0.332 m $\eta = 2.0$	x: 0 m $\eta = 0.8$	x: 0 m $\eta = 3.1$	x: 0.332 m $\eta = 0.1$	$\eta < 0.1$	$\eta = 1.8$	x: 0 m $\eta = 4.1$	$\eta = 0.6$	N.A. ⁽¹⁾	x: 0 m $\eta = 4.3$	PASSA $\eta = 4.3$
N66/N74	$\lambda \leq 200.0$ Passa	x: 0.569 m $\eta = 2.6$	x: 0 m $\eta = 6.1$	x: 0.569 m $\eta = 6.4$	x: 0 m $\eta = 1.3$	x: 0.569 m $\eta = 0.1$	$\eta = 0.3$	x: 0.569 m $\eta = 9.9$	$\eta = 0.6$	N.A. ⁽¹⁾	x: 0.569 m $\eta = 9.3$	PASSA $\eta = 9.9$
N66/N75	$\lambda \leq 200.0$ Passa	x: 0.286 m $\eta = 2.8$	x: 0 m $\eta = 1.3$	x: 0 m $\eta = 3.0$	x: 0 m $\eta = 4.4$	$\eta = 0.6$	$\eta = 0.3$	x: 0 m $\eta = 8.8$	$\eta = 1.1$	N.A. ⁽¹⁾	x: 0.286 m $\eta = 6.5$	PASSA $\eta = 8.8$
N44/N75	$\lambda \leq 200.0$ Passa	x: 0.544 m $\eta = 2.8$	x: 0 m $\eta = 6.9$	x: 0.544 m $\eta = 5.0$	x: 0 m $\eta = 13.3$	x: 0 m $\eta = 0.7$	$\eta = 0.4$	x: 0 m $\eta = 20.0$	$\eta = 1.1$	N.A. ⁽¹⁾	x: 0 m $\eta = 16.9$	PASSA $\eta = 20.0$
N5/N106	N.A. ⁽⁹⁾	$\eta = 3.2$	N.A. ⁽¹⁰⁾	N.A. ⁽⁴⁾	N.A. ⁽⁴⁾	N.A. ⁽⁵⁾	N.A. ⁽⁵⁾	N.A. ⁽⁸⁾	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 3.2$
N107/N4	N.A. ⁽⁹⁾	$\eta = 2.8$	N.A. ⁽¹⁰⁾	N.A. ⁽⁴⁾	N.A. ⁽⁴⁾	N.A. ⁽⁵⁾	N.A. ⁽⁵⁾	N.A. ⁽⁸⁾	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 2.8$
N108/N4	N.A. ⁽⁹⁾	$\eta = 2.8$	N.A. ⁽¹⁰⁾	N.A. ⁽⁴⁾	N.A. ⁽⁴⁾	N.A. ⁽⁵⁾	N.A. ⁽⁵⁾	N.A. ⁽⁸⁾	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 2.8$
N6/N106	N.A. ⁽⁹⁾	$\eta = 3.2$	N.A. ⁽¹⁰⁾	N.A. ⁽⁴⁾	N.A. ⁽⁴⁾	N.A. ⁽⁵⁾	N.A. ⁽⁵⁾	N.A. ⁽⁸⁾	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 3.2$
N169/N170	$\lambda \leq 200.0$ Passa	$\eta = 8.7$	$\eta = 14.9$	x: 0 m $\eta = 0.1$	x: 0 m $\eta = 28.2$	x: 0 m $\eta = 1.7$	$\eta < 0.1$	x: 0 m $\eta = 35.8$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 4.2$	PASSA $\eta = 35.8$
N170/N173	$\lambda \leq 200.0$ Passa	$\eta = 3.4$	$\eta = 6.1$	x: 0.463 m $\eta = 0.1$	x: 0.231 m $\eta = 1.2$	x: 0.463 m $\eta = 0.1$	$\eta < 0.1$	x: 0.231 m $\eta = 4.3$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.463 m $\eta = 0.1$	PASSA $\eta = 6.1$
N173/N174	$\lambda \leq 200.0$ Passa	$\eta = 0.8$	$\eta = 1.5$	x: 0 m $\eta = 0.1$	x: 0.463 m $\eta = 1.4$	x: 0 m $\eta = 0.1$	$\eta < 0.1$	x: 0.463 m $\eta = 2.2$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.3$	PASSA $\eta = 2.2$
N174/N175	$\lambda \leq 200.0$ Passa	$\eta = 1.9$	$\eta = 1.5$	x: 0 m $\eta = 0.1$	x: 0.463 m $\eta = 1.5$	x: 0 m $\eta = 0.1$	$\eta < 0.1$	x: 0.463 m $\eta = 2.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.2$	PASSA $\eta = 2.4$
N175/N176	$\lambda \leq 200.0$ Passa	$\eta = 3.2$	$\eta = 2.3$	x: 0.463 m $\eta < 0.1$	x: 0.231 m $\eta = 1.2$	x: 0.463 m $\eta < 0.1$	$\eta < 0.1$	x: 0.231 m $\eta = 2.8$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.463 m $\eta = 0.1$	PASSA $\eta = 3.2$
N176/N177	$\lambda \leq 200.0$ Passa	$\eta = 4.2$	$\eta = 3.0$	x: 0.463 m $\eta = 0.1$	x: 0.231 m $\eta = 1.2$	x: 0.463 m $\eta < 0.1$	$\eta < 0.1$	x: 0.231 m $\eta = 3.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.463 m $\eta = 0.1$	PASSA $\eta = 4.2$
N177/N178	$\lambda \leq 200.0$ Passa	$\eta = 3.9$	$\eta = 2.7$	x: 0 m $\eta = 0.1$	x: 0 m $\eta = 1.6$	x: 0.463 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 3.6$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.463 m $\eta = 0.2$	PASSA $\eta = 3.9$
N178/N179	$\lambda \leq 200.0$ Passa	$\eta = 3.6$	$\eta = 2.4$	x: 0 m $\eta = 0.1$	x: 0 m $\eta = 1.5$	x: 0.463 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 3.3$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.463 m $\eta = 0.2$	PASSA $\eta = 3.6$
N179/N180	$\lambda \leq 200.0$ Passa	$\eta = 2.4$	$\eta = 1.5$	x: 0 m $\eta = 0.1$	x: 0 m $\eta = 1.8$	x: 0.463 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 3.0$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.463 m $\eta = 0.3$	PASSA $\eta = 3.0$

Barras	VERIFICAÇÕES (ABNT NBR 8800:2008)												Estado
	λ	N_t	N_c	M_x	M_y	V_x	V_y	NM_xM_y	T	NMVT	$\sigma \tau f$		
N180/N171	$\lambda \leq 200.0$ Passa	$\eta = 1.4$	$\eta = 0.7$	x: 0.463 m $\eta < 0.1$	x: 0 m $\eta = 1.5$	x: 0.463 m $\eta = 0.2$	$\eta < 0.1$	x: 0 m $\eta = 2.2$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.463 m $\eta = 0.4$	PASSA $\eta = 2.2$	
N171/N172	$\lambda \leq 200.0$ Passa	$\eta = 1.4$	$\eta = 0.7$	x: 0 m $\eta < 0.1$	x: 0.463 m $\eta = 1.5$	x: 0 m $\eta = 0.2$	$\eta < 0.1$	x: 0.463 m $\eta = 2.2$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.4$	PASSA $\eta = 2.2$	
N172/N181	$\lambda \leq 200.0$ Passa	$\eta = 2.4$	$\eta = 1.5$	x: 0.463 m $\eta = 0.1$	x: 0.463 m $\eta = 1.8$	x: 0 m $\eta = 0.1$	$\eta < 0.1$	x: 0.463 m $\eta = 3.0$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.3$	PASSA $\eta = 3.0$	
N181/N182	$\lambda \leq 200.0$ Passa	$\eta = 3.6$	$\eta = 2.4$	x: 0.463 m $\eta = 0.1$	x: 0.463 m $\eta = 1.5$	x: 0 m $\eta = 0.1$	$\eta < 0.1$	x: 0.463 m $\eta = 3.3$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.2$	PASSA $\eta = 3.6$	
N182/N183	$\lambda \leq 200.0$ Passa	$\eta = 3.9$	$\eta = 2.7$	x: 0.463 m $\eta = 0.1$	x: 0.463 m $\eta = 1.6$	x: 0 m $\eta = 0.1$	$\eta < 0.1$	x: 0.463 m $\eta = 3.6$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.2$	PASSA $\eta = 3.9$	
N183/N184	$\lambda \leq 200.0$ Passa	$\eta = 4.2$	$\eta = 3.0$	x: 0 m $\eta = 0.1$	x: 0.231 m $\eta = 1.2$	x: 0 m $\eta < 0.1$	$\eta < 0.1$	x: 0.231 m $\eta = 3.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.1$	PASSA $\eta = 4.2$	
N184/N185	$\lambda \leq 200.0$ Passa	$\eta = 3.2$	$\eta = 2.3$	x: 0 m $\eta < 0.1$	x: 0.231 m $\eta = 1.2$	x: 0 m $\eta < 0.1$	$\eta < 0.1$	x: 0.231 m $\eta = 2.8$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.1$	PASSA $\eta = 3.2$	
N185/N186	$\lambda \leq 200.0$ Passa	$\eta = 1.9$	$\eta = 1.5$	x: 0.463 m $\eta = 0.1$	x: 0 m $\eta = 1.5$	x: 0.463 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 2.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.463 m $\eta = 0.2$	PASSA $\eta = 2.4$	
N186/N187	$\lambda \leq 200.0$ Passa	$\eta = 0.8$	$\eta = 1.5$	x: 0.463 m $\eta = 0.1$	x: 0 m $\eta = 1.4$	x: 0.463 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 2.2$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.463 m $\eta = 0.3$	PASSA $\eta = 2.2$	
N187/N188	$\lambda \leq 200.0$ Passa	$\eta = 3.4$	$\eta = 6.1$	x: 0 m $\eta = 0.1$	x: 0.231 m $\eta = 1.2$	x: 0 m $\eta = 0.1$	$\eta < 0.1$	x: 0.231 m $\eta = 4.3$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.1$	PASSA $\eta = 6.1$	
N188/N189	$\lambda \leq 200.0$ Passa	$\eta = 8.7$	$\eta = 14.9$	x: 0.463 m $\eta = 0.1$	x: 0.463 m $\eta = 28.2$	x: 0.463 m $\eta = 1.7$	$\eta < 0.1$	x: 0.463 m $\eta = 35.8$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.463 m $\eta = 4.2$	PASSA $\eta = 35.8$	
N171/N190	x: 0 m $\lambda \leq 200.0$ Passa	x: 0.7 m $\eta = 0.1$	x: 0 m $\eta < 0.1$	x: 0.7 m $\eta < 0.1$	N.A. ⁽⁴⁾	N.A. ⁽⁵⁾	$\eta < 0.1$	x: 0.7 m $\eta = 0.1$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁶⁾	PASSA $\eta = 0.1$	
N189/N191	$\lambda \leq 200.0$ Passa	x: 0.24 m $\eta = 0.4$	x: 0 m $\eta = 0.4$	x: 0 m $\eta = 0.4$	x: 0 m $\eta = 36.8$	$\eta = 3.4$	$\eta = 0.3$	x: 0 m $\eta = 37.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 8.4$	PASSA $\eta = 37.4$	
N169/N192	$\lambda \leq 200.0$ Passa	x: 0.24 m $\eta = 0.4$	x: 0 m $\eta = 0.4$	x: 0 m $\eta = 0.4$	x: 0 m $\eta = 36.8$	$\eta = 3.4$	$\eta = 0.3$	x: 0 m $\eta = 37.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 8.4$	PASSA $\eta = 37.4$	
N192/N193	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 1.2$	x: 0 m $\eta = 1.1$	x: 0.465 m $\eta = 0.1$	x: 0 m $\eta = 4.3$	x: 0.465 m $\eta = 0.4$	$\eta < 0.1$	x: 0 m $\eta = 4.9$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.9$	PASSA $\eta = 4.9$	
N193/N194	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 5.1$	x: 0 m $\eta = 9.0$	x: 0.465 m $\eta = 0.3$	x: 0.465 m $\eta = 1.8$	x: 0 m $\eta = 0.1$	$\eta = 0.1$	x: 0.465 m $\eta = 6.6$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.4$	PASSA $\eta = 9.0$	
N194/N195	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 10.3$	x: 0 m $\eta = 17.4$	x: 0 m $\eta = 0.3$	x: 0.465 m $\eta = 0.9$	x: 0 m $\eta < 0.1$	$\eta = 0.1$	x: 0.232 m $\eta = 9.8$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.2$	PASSA $\eta = 17.4$	
N195/N196	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 12.9$	x: 0 m $\eta = 22.1$	x: 0 m $\eta = 0.1$	x: 0.232 m $\eta = 1.1$	x: 0 m $\eta < 0.1$	$\eta < 0.1$	x: 0.232 m $\eta = 23.1$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.1$	PASSA $\eta = 23.1$	
N196/N197	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 15.2$	x: 0 m $\eta = 25.6$	x: 0 m $\eta = 0.1$	x: 0 m $\eta = 1.9$	x: 0.465 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 27.3$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.3$	PASSA $\eta = 27.3$	
N197/N198	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 15.9$	x: 0 m $\eta = 27.0$	x: 0.465 m $\eta = 0.1$	x: 0 m $\eta = 1.5$	x: 0.465 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 28.3$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.2$	PASSA $\eta = 28.3$	
N198/N199	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 16.7$	x: 0 m $\eta = 28.1$	x: 0 m $\eta = 0.1$	x: 0 m $\eta = 2.2$	x: 0.465 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 30.1$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.3$	PASSA $\eta = 30.1$	
N199/N200	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 16.4$	x: 0 m $\eta = 27.8$	x: 0 m $\eta = 0.1$	x: 0 m $\eta = 1.6$	x: 0.465 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 29.3$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.3$	PASSA $\eta = 29.3$	
N200/N201	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 16.3$	x: 0 m $\eta = 27.5$	x: 0 m $\eta = 0.1$	x: 0 m $\eta = 2.1$	x: 0.465 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 29.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.3$	PASSA $\eta = 29.4$	
N201/N190	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 15.5$	x: 0 m $\eta = 26.2$	x: 0.465 m $\eta < 0.1$	x: 0 m $\eta = 2.3$	x: 0.465 m $\eta = 0.2$	$\eta < 0.1$	x: 0 m $\eta = 28.2$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.5$	PASSA $\eta = 28.2$	
N191/N210	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 1.2$	x: 0 m $\eta = 1.1$	x: 0.465 m $\eta = 0.1$	x: 0 m $\eta = 4.3$	x: 0.465 m $\eta = 0.4$	$\eta < 0.1$	x: 0 m $\eta = 4.9$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.9$	PASSA $\eta = 4.9$	
N210/N209	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 5.1$	x: 0 m $\eta = 9.0$	x: 0.465 m $\eta = 0.3$	x: 0.465 m $\eta = 1.8$	x: 0 m $\eta = 0.1$	$\eta = 0.1$	x: 0.465 m $\eta = 6.6$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.4$	PASSA $\eta = 9.0$	
N209/N208	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 10.3$	x: 0 m $\eta = 17.4$	x: 0 m $\eta = 0.3$	x: 0.465 m $\eta = 0.9$	x: 0 m $\eta < 0.1$	$\eta = 0.1$	x: 0.232 m $\eta = 9.8$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.2$	PASSA $\eta = 17.4$	
N208/N207	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 12.9$	x: 0 m $\eta = 22.1$	x: 0 m $\eta = 0.1$	x: 0.232 m $\eta = 1.1$	x: 0 m $\eta < 0.1$	$\eta < 0.1$	x: 0.232 m $\eta = 23.1$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.1$	PASSA $\eta = 23.1$	
N207/N206	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 15.2$	x: 0 m $\eta = 25.6$	x: 0 m $\eta = 0.1$	x: 0 m $\eta = 1.9$	x: 0.465 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 27.3$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.3$	PASSA $\eta = 27.3$	
N206/N205	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 15.9$	x: 0 m $\eta = 27.0$	x: 0.465 m $\eta = 0.1$	x: 0 m $\eta = 1.5$	x: 0.465 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 28.3$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.2$	PASSA $\eta = 28.3$	

Barras	VERIFICAÇÕES (ABNT NBR 8800:2008)											Estado
	λ	N_t	N_c	M_x	M_y	V_x	V_y	NM_xM_y	T	NMVT	$\sigma_{\tau f}$	
N205/N204	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 16.7$	x: 0 m $\eta = 28.1$	x: 0 m $\eta = 0.1$	x: 0 m $\eta = 2.2$	x: 0.465 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 30.1$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.3$	PASSA $\eta = 30.1$
N204/N203	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 16.4$	x: 0 m $\eta = 27.8$	x: 0 m $\eta = 0.1$	x: 0 m $\eta = 1.6$	x: 0.465 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 29.3$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.3$	PASSA $\eta = 29.3$
N203/N202	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 16.3$	x: 0 m $\eta = 27.5$	x: 0 m $\eta = 0.1$	x: 0 m $\eta = 2.1$	x: 0.465 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 29.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.3$	PASSA $\eta = 29.4$
N202/N190	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 15.5$	x: 0 m $\eta = 26.2$	x: 0.465 m $\eta < 0.1$	x: 0 m $\eta = 2.3$	x: 0.465 m $\eta = 0.2$	$\eta < 0.1$	x: 0 m $\eta = 28.2$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.5$	PASSA $\eta = 28.2$
N169/N193	$\lambda \leq 200.0$ Passa	x: 0.544 m $\eta = 7.0$	x: 0 m $\eta = 12.3$	x: 0 m $\eta = 0.5$	x: 0 m $\eta = 23.1$	x: 0 m $\eta = 1.2$	$\eta = 0.1$	x: 0 m $\eta = 29.7$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 3.0$	PASSA $\eta = 29.7$
N170/N193	$\lambda \leq 200.0$ Passa	x: 0.286 m $\eta = 4.9$	x: 0 m $\eta = 3.3$	x: 0 m $\eta = 0.1$	x: 0 m $\eta = 7.8$	$\eta = 1.0$	$\eta < 0.1$	x: 0 m $\eta = 10.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 2.4$	PASSA $\eta = 10.4$
N170/N194	$\lambda \leq 200.0$ Passa	x: 0.569 m $\eta = 6.3$	x: 0 m $\eta = 10.8$	x: 0 m $\eta = 0.2$	x: 0 m $\eta = 2.4$	x: 0.569 m $\eta = 0.2$	$\eta < 0.1$	x: 0 m $\eta = 8.0$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.569 m $\eta = 0.4$	PASSA $\eta = 10.8$
N173/N194	$\lambda \leq 200.0$ Passa	x: 0.332 m $\eta = 3.5$	x: 0 m $\eta = 2.2$	x: 0.332 m $\eta = 0.1$	x: 0.332 m $\eta = 0.3$	$\eta < 0.1$	$\eta < 0.1$	x: 0.332 m $\eta = 1.9$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.1$	PASSA $\eta = 3.5$
N173/N195	$\lambda \leq 200.0$ Passa	x: 0.597 m $\eta = 3.4$	x: 0 m $\eta = 6.3$	x: 0.597 m $\eta < 0.1$	x: 0 m $\eta = 1.1$	x: 0.597 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 4.3$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.597 m $\eta = 0.2$	PASSA $\eta = 6.3$
N174/N195	$\lambda \leq 200.0$ Passa	x: 0.378 m $\eta = 3.0$	x: 0 m $\eta = 2.0$	x: 0 m $\eta < 0.1$	x: 0 m $\eta = 0.3$	$\eta < 0.1$	N.A. ⁽⁵⁾	x: 0 m $\eta = 1.6$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 3.0$
N174/N196	$\lambda \leq 200.0$ Passa	x: 0.627 m $\eta = 2.9$	x: 0 m $\eta = 5.1$	x: 0 m $\eta < 0.1$	x: 0 m $\eta = 1.2$	x: 0.627 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 3.8$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.627 m $\eta = 0.2$	PASSA $\eta = 5.1$
N175/N196	$\lambda \leq 200.0$ Passa	x: 0.424 m $\eta = 1.4$	x: 0 m $\eta = 0.8$	x: 0.424 m $\eta < 0.1$	x: 0 m $\eta = 1.0$	$\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 1.7$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.1$	PASSA $\eta = 1.7$
N175/N197	$\lambda \leq 200.0$ Passa	x: 0.659 m $\eta = 1.1$	x: 0 m $\eta = 2.3$	x: 0 m $\eta < 0.1$	x: 0 m $\eta = 1.3$	x: 0.659 m $\eta = 0.1$	N.A. ⁽⁵⁾	x: 0 m $\eta = 2.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 2.4$
N176/N197	$\lambda \leq 200.0$ Passa	x: 0.47 m $\eta = 1.2$	x: 0 m $\eta = 0.8$	x: 0 m $\eta < 0.1$	x: 0 m $\eta = 1.3$	$\eta = 0.1$	N.A. ⁽⁵⁾	x: 0.47 m $\eta = 1.8$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 1.8$
N176/N198	$\lambda \leq 200.0$ Passa	x: 0.693 m $\eta = 1.0$	x: 0 m $\eta = 1.8$	x: 0 m $\eta < 0.1$	x: 0.173 m $\eta = 1.0$	x: 0.693 m $\eta = 0.1$	$\eta < 0.1$	x: 0.173 m $\eta = 1.9$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.693 m $\eta = 0.1$	PASSA $\eta = 1.9$
N177/N198	$\lambda \leq 200.0$ Passa	x: 0.516 m $\eta = 0.4$	x: 0 m $\eta = 0.3$	x: 0.516 m $\eta < 0.1$	x: 0 m $\eta = 1.5$	$\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 1.6$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.3$	PASSA $\eta = 1.6$
N177/N199	$\lambda \leq 200.0$ Passa	x: 0.728 m $\eta = 0.3$	x: 0 m $\eta = 0.5$	N.A. ⁽⁴⁾	x: 0.182 m $\eta = 0.9$	x: 0.728 m $\eta < 0.1$	N.A. ⁽⁵⁾	x: 0 m $\eta = 1.0$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 1.0$
N178/N199	$\lambda \leq 200.0$ Passa	x: 0.562 m $\eta = 0.3$	x: 0 m $\eta = 0.4$	N.A. ⁽⁴⁾	x: 0.562 m $\eta = 1.7$	$\eta = 0.1$	N.A. ⁽⁵⁾	x: 0.562 m $\eta = 1.8$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 1.8$
N178/N200	$\lambda \leq 200.0$ Passa	x: 0.764 m $\eta = 0.5$	x: 0 m $\eta = 0.4$	N.A. ⁽⁴⁾	x: 0.382 m $\eta = 0.7$	x: 0.764 m $\eta < 0.1$	$\eta < 0.1$	x: 0.382 m $\eta = 0.9$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.764 m $\eta = 0.1$	PASSA $\eta = 0.9$
N179/N200	$\lambda \leq 200.0$ Passa	x: 0.608 m $\eta = 1.2$	x: 0 m $\eta = 1.8$	x: 0.608 m $\eta < 0.1$	x: 0.608 m $\eta = 1.7$	$\eta = 0.1$	$\eta < 0.1$	x: 0.608 m $\eta = 2.6$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.3$	PASSA $\eta = 2.6$
N179/N201	$\lambda \leq 200.0$ Passa	x: 0.801 m $\eta = 2.0$	x: 0 m $\eta = 1.9$	N.A. ⁽⁴⁾	x: 0.601 m $\eta = 0.7$	x: 0 m $\eta < 0.1$	N.A. ⁽⁵⁾	x: 0.601 m $\eta = 1.7$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 2.0$
N180/N201	$\lambda \leq 200.0$ Passa	x: 0.654 m $\eta = 1.1$	x: 0 m $\eta = 1.8$	N.A. ⁽⁴⁾	x: 0.654 m $\eta = 2.1$	$\eta = 0.1$	$\eta < 0.1$	x: 0.654 m $\eta = 3.0$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.2$	PASSA $\eta = 3.0$
N180/N190	$\lambda \leq 200.0$ Passa	x: 0.839 m $\eta = 1.9$	x: 0 m $\eta = 1.6$	x: 0.839 m $\eta = 0.1$	x: 0 m $\eta = 0.4$	x: 0.839 m $\eta = 0.1$	$\eta < 0.1$	x: 0.839 m $\eta = 1.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.839 m $\eta = 0.1$	PASSA $\eta = 1.9$
N172/N190	$\lambda \leq 200.0$ Passa	x: 0.839 m $\eta = 1.9$	x: 0 m $\eta = 1.6$	x: 0.839 m $\eta = 0.1$	x: 0 m $\eta = 0.4$	x: 0.839 m $\eta = 0.1$	$\eta < 0.1$	x: 0.839 m $\eta = 1.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.839 m $\eta = 0.1$	PASSA $\eta = 1.9$
N172/N202	$\lambda \leq 200.0$ Passa	x: 0.654 m $\eta = 1.1$	x: 0 m $\eta = 1.8$	N.A. ⁽⁴⁾	x: 0.654 m $\eta = 2.1$	$\eta = 0.1$	$\eta < 0.1$	x: 0.654 m $\eta = 3.0$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.2$	PASSA $\eta = 3.0$
N181/N202	$\lambda \leq 200.0$ Passa	x: 0.801 m $\eta = 2.0$	x: 0 m $\eta = 1.9$	N.A. ⁽⁴⁾	x: 0.601 m $\eta = 0.7$	x: 0 m $\eta < 0.1$	N.A. ⁽⁵⁾	x: 0.601 m $\eta = 1.7$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 2.0$
N181/N203	$\lambda \leq 200.0$ Passa	x: 0.608 m $\eta = 1.2$	x: 0 m $\eta = 1.8$	x: 0.608 m $\eta < 0.1$	x: 0.608 m $\eta = 1.7$	$\eta = 0.1$	$\eta < 0.1$	x: 0.608 m $\eta = 2.6$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.3$	PASSA $\eta = 2.6$
N182/N203	$\lambda \leq 200.0$ Passa	x: 0.764 m $\eta = 0.5$	x: 0 m $\eta = 0.4$	N.A. ⁽⁴⁾	x: 0.382 m $\eta = 0.7$	x: 0.764 m $\eta < 0.1$	$\eta < 0.1$	x: 0.382 m $\eta = 0.9$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.764 m $\eta = 0.1$	PASSA $\eta = 0.9$
N182/N204	$\lambda \leq 200.0$ Passa	x: 0.562 m $\eta = 0.3$	x: 0 m $\eta = 0.4$	N.A. ⁽⁴⁾	x: 0.562 m $\eta = 1.7$	$\eta = 0.1$	N.A. ⁽⁵⁾	x: 0.562 m $\eta = 1.8$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 1.8$
N183/N204	$\lambda \leq 200.0$ Passa	x: 0.728 m $\eta = 0.3$	x: 0 m $\eta = 0.5$	N.A. ⁽⁴⁾	x: 0.182 m $\eta = 0.9$	x: 0.728 m $\eta < 0.1$	N.A. ⁽⁵⁾	x: 0 m $\eta = 1.0$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 1.0$

Barras	VERIFICAÇÕES (ABNT NBR 8800:2008)												Estado
	λ	N_t	N_c	M_x	M_y	V_x	V_y	NM_xM_y	T	NMVT	$\sigma \tau f$		
N183/N205	$\lambda \leq 200.0$ Passa	x: 0.516 m $\eta = 0.4$	x: 0 m $\eta = 0.3$	x: 0.516 m $\eta < 0.1$	x: 0 m $\eta = 1.5$	$\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 1.6$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.3$	PASSA $\eta = 1.6$	
N184/N205	$\lambda \leq 200.0$ Passa	x: 0.693 m $\eta = 1.0$	x: 0 m $\eta = 1.8$	x: 0 m $\eta < 0.1$	x: 0.173 m $\eta = 1.0$	x: 0.693 m $\eta = 0.1$	$\eta < 0.1$	x: 0.173 m $\eta = 1.9$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.693 m $\eta = 0.1$	PASSA $\eta = 1.9$	
N184/N206	$\lambda \leq 200.0$ Passa	x: 0.47 m $\eta = 1.2$	x: 0 m $\eta = 0.8$	x: 0 m $\eta < 0.1$	x: 0 m $\eta = 1.3$	$\eta = 0.1$	N.A. ⁽⁵⁾	x: 0.47 m $\eta = 1.8$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 1.8$	
N185/N206	$\lambda \leq 200.0$ Passa	x: 0.659 m $\eta = 1.1$	x: 0 m $\eta = 2.3$	x: 0 m $\eta < 0.1$	x: 0 m $\eta = 1.3$	x: 0.659 m $\eta = 0.1$	N.A. ⁽⁵⁾	x: 0 m $\eta = 2.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 2.4$	
N185/N207	$\lambda \leq 200.0$ Passa	x: 0.424 m $\eta = 1.4$	x: 0 m $\eta = 0.8$	x: 0.424 m $\eta < 0.1$	x: 0 m $\eta = 1.0$	$\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 1.7$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.1$	PASSA $\eta = 1.7$	
N186/N207	$\lambda \leq 200.0$ Passa	x: 0.627 m $\eta = 2.9$	x: 0 m $\eta = 5.1$	x: 0 m $\eta < 0.1$	x: 0 m $\eta = 1.2$	x: 0.627 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 3.8$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.627 m $\eta = 0.2$	PASSA $\eta = 5.1$	
N186/N208	$\lambda \leq 200.0$ Passa	x: 0.378 m $\eta = 3.0$	x: 0 m $\eta = 2.0$	x: 0 m $\eta < 0.1$	x: 0 m $\eta = 0.3$	$\eta < 0.1$	N.A. ⁽⁵⁾	x: 0 m $\eta = 1.6$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 3.0$	
N187/N208	$\lambda \leq 200.0$ Passa	x: 0.597 m $\eta = 3.4$	x: 0 m $\eta = 6.3$	x: 0.597 m $\eta < 0.1$	x: 0 m $\eta = 1.1$	x: 0.597 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 4.3$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.597 m $\eta = 0.2$	PASSA $\eta = 6.3$	
N187/N209	$\lambda \leq 200.0$ Passa	x: 0.332 m $\eta = 3.5$	x: 0 m $\eta = 2.2$	x: 0.332 m $\eta = 0.1$	x: 0.332 m $\eta = 0.3$	$\eta < 0.1$	$\eta < 0.1$	x: 0.332 m $\eta = 1.9$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.1$	PASSA $\eta = 3.5$	
N188/N209	$\lambda \leq 200.0$ Passa	x: 0.569 m $\eta = 6.3$	x: 0 m $\eta = 10.8$	x: 0 m $\eta = 0.2$	x: 0 m $\eta = 2.4$	x: 0.569 m $\eta = 0.2$	$\eta < 0.1$	x: 0 m $\eta = 8.0$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.569 m $\eta = 0.4$	PASSA $\eta = 10.8$	
N188/N210	$\lambda \leq 200.0$ Passa	x: 0.286 m $\eta = 4.9$	x: 0 m $\eta = 3.3$	x: 0 m $\eta = 0.1$	x: 0 m $\eta = 7.8$	$\eta = 1.0$	$\eta < 0.1$	x: 0 m $\eta = 10.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 2.4$	PASSA $\eta = 10.4$	
N189/N210	$\lambda \leq 200.0$ Passa	x: 0.544 m $\eta = 7.0$	x: 0 m $\eta = 12.3$	x: 0 m $\eta = 0.5$	x: 0 m $\eta = 23.1$	x: 0 m $\eta = 1.2$	$\eta = 0.1$	x: 0 m $\eta = 29.7$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 3.0$	PASSA $\eta = 29.7$	
N211/N212	$\lambda \leq 200.0$ Passa	$\eta = 9.0$	$\eta = 15.2$	x: 0 m $\eta = 0.2$	x: 0 m $\eta = 28.7$	x: 0 m $\eta = 1.8$	$\eta < 0.1$	x: 0 m $\eta = 36.5$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 4.3$	PASSA $\eta = 36.5$	
N212/N215	$\lambda \leq 200.0$ Passa	$\eta = 3.5$	$\eta = 6.2$	x: 0.463 m $\eta = 0.1$	x: 0.231 m $\eta = 1.2$	x: 0.463 m $\eta = 0.1$	$\eta < 0.1$	x: 0.463 m $\eta = 4.3$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.463 m $\eta = 0.2$	PASSA $\eta = 6.2$	
N215/N216	$\lambda \leq 200.0$ Passa	$\eta = 0.8$	$\eta = 1.5$	x: 0 m $\eta = 0.1$	x: 0.463 m $\eta = 1.4$	x: 0 m $\eta = 0.1$	N.A. ⁽⁵⁾	x: 0.463 m $\eta = 2.2$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 2.2$	
N216/N217	$\lambda \leq 200.0$ Passa	$\eta = 1.9$	$\eta = 1.5$	x: 0 m $\eta = 0.1$	x: 0.463 m $\eta = 1.5$	x: 0 m $\eta = 0.1$	N.A. ⁽⁵⁾	x: 0.463 m $\eta = 2.5$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 2.5$	
N217/N218	$\lambda \leq 200.0$ Passa	$\eta = 3.3$	$\eta = 2.3$	x: 0 m $\eta < 0.1$	x: 0.231 m $\eta = 1.2$	x: 0.463 m $\eta < 0.1$	$\eta < 0.1$	x: 0.231 m $\eta = 2.9$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.463 m $\eta = 0.1$	PASSA $\eta = 3.3$	
N218/N219	$\lambda \leq 200.0$ Passa	$\eta = 4.3$	$\eta = 3.0$	x: 0.463 m $\eta < 0.1$	x: 0.231 m $\eta = 1.2$	x: 0.463 m $\eta < 0.1$	$\eta < 0.1$	x: 0.231 m $\eta = 3.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.463 m $\eta = 0.1$	PASSA $\eta = 4.3$	
N219/N220	$\lambda \leq 200.0$ Passa	$\eta = 4.0$	$\eta = 2.7$	x: 0.463 m $\eta = 0.1$	x: 0 m $\eta = 1.6$	x: 0.463 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 3.6$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.463 m $\eta = 0.2$	PASSA $\eta = 4.0$	
N220/N221	$\lambda \leq 200.0$ Passa	$\eta = 3.7$	$\eta = 2.5$	x: 0 m $\eta = 0.1$	x: 0 m $\eta = 1.5$	x: 0.463 m $\eta = 0.1$	N.A. ⁽⁵⁾	x: 0 m $\eta = 3.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 3.7$	
N221/N222	$\lambda \leq 200.0$ Passa	$\eta = 2.5$	$\eta = 1.5$	x: 0.463 m $\eta < 0.1$	x: 0 m $\eta = 1.8$	x: 0.463 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 3.0$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.463 m $\eta = 0.3$	PASSA $\eta = 3.0$	
N222/N213	$\lambda \leq 200.0$ Passa	$\eta = 1.4$	$\eta = 0.8$	x: 0 m $\eta < 0.1$	x: 0 m $\eta = 1.5$	x: 0.463 m $\eta = 0.2$	N.A. ⁽⁵⁾	x: 0 m $\eta = 2.2$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 2.2$	
N213/N214	$\lambda \leq 200.0$ Passa	$\eta = 1.4$	$\eta = 0.8$	x: 0.463 m $\eta < 0.1$	x: 0.463 m $\eta = 1.5$	x: 0 m $\eta = 0.2$	N.A. ⁽⁵⁾	x: 0.463 m $\eta = 2.2$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 2.2$	
N214/N223	$\lambda \leq 200.0$ Passa	$\eta = 2.5$	$\eta = 1.5$	x: 0 m $\eta < 0.1$	x: 0.463 m $\eta = 1.8$	x: 0 m $\eta = 0.1$	$\eta < 0.1$	x: 0.463 m $\eta = 3.0$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.3$	PASSA $\eta = 3.0$	
N223/N224	$\lambda \leq 200.0$ Passa	$\eta = 3.7$	$\eta = 2.5$	x: 0.463 m $\eta = 0.1$	x: 0.463 m $\eta = 1.5$	x: 0 m $\eta = 0.1$	N.A. ⁽⁵⁾	x: 0.463 m $\eta = 3.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 3.7$	
N224/N225	$\lambda \leq 200.0$ Passa	$\eta = 4.0$	$\eta = 2.7$	x: 0 m $\eta = 0.1$	x: 0.463 m $\eta = 1.6$	x: 0 m $\eta = 0.1$	$\eta < 0.1$	x: 0.463 m $\eta = 3.6$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.2$	PASSA $\eta = 4.0$	
N225/N226	$\lambda \leq 200.0$ Passa	$\eta = 4.3$	$\eta = 3.0$	x: 0 m $\eta < 0.1$	x: 0.231 m $\eta = 1.2$	x: 0 m $\eta < 0.1$	$\eta < 0.1$	x: 0.231 m $\eta = 3.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.1$	PASSA $\eta = 4.3$	
N226/N227	$\lambda \leq 200.0$ Passa	$\eta = 3.3$	$\eta = 2.3$	x: 0.463 m $\eta < 0.1$	x: 0.231 m $\eta = 1.2$	x: 0 m $\eta < 0.1$	$\eta < 0.1$	x: 0.231 m $\eta = 2.9$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.1$	PASSA $\eta = 3.3$	
N227/N228	$\lambda \leq 200.0$ Passa	$\eta = 1.9$	$\eta = 1.5$	x: 0.463 m $\eta = 0.1$	x: 0 m $\eta = 1.5$	x: 0.463 m $\eta = 0.1$	N.A. ⁽⁵⁾	x: 0 m $\eta = 2.5$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 2.5$	
N228/N229	$\lambda \leq 200.0$ Passa	$\eta = 0.8$	$\eta = 1.5$	x: 0.463 m $\eta = 0.1$	x: 0 m $\eta = 1.4$	x: 0.463 m $\eta = 0.1$	N.A. ⁽⁵⁾	x: 0 m $\eta = 2.2$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 2.2$	

Barras	VERIFICAÇÕES (ABNT NBR 8800:2008)											Estado
	λ	N_t	N_c	M_x	M_y	V_x	V_y	NM_xM_y	T	NMVT	$\sigma_{\tau f}$	
N229/N230	$\lambda \leq 200.0$ Passa	$\eta = 3.5$	$\eta = 6.2$	x: 0 m $\eta = 0.1$	x: 0.231 m $\eta = 1.2$	x: 0 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 4.3$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.2$	PASSA $\eta = 6.2$
N230/N231	$\lambda \leq 200.0$ Passa	$\eta = 9.0$	$\eta = 15.2$	x: 0.463 m $\eta = 0.2$	x: 0.463 m $\eta = 28.7$	x: 0.463 m $\eta = 1.8$	$\eta < 0.1$	x: 0.463 m $\eta = 36.5$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.463 m $\eta = 4.3$	PASSA $\eta = 36.5$
N213/N232	x: 0 m $\lambda \leq 200.0$ Passa	x: 0.7 m $\eta = 0.1$	x: 0 m $\eta < 0.1$	x: 0.7 m $\eta < 0.1$	N.A. ⁽⁴⁾	N.A. ⁽⁵⁾	$\eta < 0.1$	x: 0.7 m $\eta < 0.1$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁶⁾	PASSA $\eta = 0.1$
N231/N233	$\lambda \leq 200.0$ Passa	x: 0.24 m $\eta = 0.3$	x: 0 m $\eta = 0.4$	x: 0 m $\eta = 0.5$	x: 0 m $\eta = 37.5$	$\eta = 3.5$	$\eta = 0.3$	x: 0 m $\eta = 38.2$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 8.6$	PASSA $\eta = 38.2$
N211/N234	$\lambda \leq 200.0$ Passa	x: 0.24 m $\eta = 0.3$	x: 0 m $\eta = 0.4$	x: 0 m $\eta = 0.5$	x: 0 m $\eta = 37.5$	$\eta = 3.5$	$\eta = 0.3$	x: 0 m $\eta = 38.2$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 8.6$	PASSA $\eta = 38.2$
N234/N235	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 1.3$	x: 0 m $\eta = 1.1$	x: 0.465 m $\eta = 0.1$	x: 0 m $\eta = 4.4$	x: 0.465 m $\eta = 0.4$	$\eta < 0.1$	x: 0 m $\eta = 5.0$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.9$	PASSA $\eta = 5.0$
N235/N236	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 5.2$	x: 0 m $\eta = 9.1$	x: 0.465 m $\eta = 0.1$	x: 0.465 m $\eta = 1.8$	x: 0 m $\eta = 0.1$	$\eta < 0.1$	x: 0.465 m $\eta = 6.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.4$	PASSA $\eta = 9.1$
N236/N237	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 10.6$	x: 0 m $\eta = 17.8$	x: 0 m $\eta = 0.1$	x: 0.465 m $\eta = 0.9$	x: 0 m $\eta < 0.1$	$\eta < 0.1$	x: 0.232 m $\eta = 9.8$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.1$	PASSA $\eta = 17.8$
N237/N238	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 13.3$	x: 0 m $\eta = 22.5$	x: 0 m $\eta = 0.1$	x: 0.232 m $\eta = 1.2$	x: 0 m $\eta < 0.1$	$\eta < 0.1$	x: 0.232 m $\eta = 23.5$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.1$	PASSA $\eta = 23.5$
N238/N239	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 15.6$	x: 0 m $\eta = 26.1$	x: 0 m $\eta < 0.1$	x: 0 m $\eta = 1.9$	x: 0.465 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 27.8$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.3$	PASSA $\eta = 27.8$
N239/N240	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 16.3$	x: 0 m $\eta = 27.5$	x: 0.465 m $\eta < 0.1$	x: 0 m $\eta = 1.5$	x: 0.465 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 28.9$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.2$	PASSA $\eta = 28.9$
N240/N241	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 17.1$	x: 0 m $\eta = 28.6$	x: 0.465 m $\eta = 0.1$	x: 0 m $\eta = 2.2$	x: 0.465 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 30.6$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.3$	PASSA $\eta = 30.6$
N241/N242	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 16.8$	x: 0 m $\eta = 28.4$	x: 0.465 m $\eta = 0.1$	x: 0 m $\eta = 1.7$	x: 0.465 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 29.9$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.3$	PASSA $\eta = 29.9$
N242/N243	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 16.8$	x: 0 m $\eta = 28.0$	x: 0 m $\eta = 0.2$	x: 0 m $\eta = 2.2$	x: 0.465 m $\eta = 0.1$	$\eta = 0.1$	x: 0 m $\eta = 30.1$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.4$	PASSA $\eta = 30.1$
N243/N232	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 15.9$	x: 0 m $\eta = 26.7$	x: 0.465 m $\eta = 0.3$	x: 0 m $\eta = 2.3$	x: 0.465 m $\eta = 0.2$	$\eta = 0.1$	x: 0.465 m $\eta = 28.9$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.6$	PASSA $\eta = 28.9$
N233/N252	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 1.3$	x: 0 m $\eta = 1.1$	x: 0.465 m $\eta = 0.1$	x: 0 m $\eta = 4.4$	x: 0.465 m $\eta = 0.4$	$\eta < 0.1$	x: 0 m $\eta = 5.0$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.9$	PASSA $\eta = 5.0$
N252/N251	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 5.2$	x: 0 m $\eta = 9.1$	x: 0.465 m $\eta = 0.1$	x: 0.465 m $\eta = 1.8$	x: 0 m $\eta = 0.1$	$\eta < 0.1$	x: 0.465 m $\eta = 6.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.4$	PASSA $\eta = 9.1$
N251/N250	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 10.6$	x: 0 m $\eta = 17.8$	x: 0 m $\eta = 0.1$	x: 0.465 m $\eta = 0.9$	x: 0 m $\eta < 0.1$	$\eta < 0.1$	x: 0.232 m $\eta = 9.8$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.1$	PASSA $\eta = 17.8$
N250/N249	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 13.3$	x: 0 m $\eta = 22.5$	x: 0 m $\eta = 0.1$	x: 0.232 m $\eta = 1.2$	x: 0 m $\eta < 0.1$	$\eta < 0.1$	x: 0.232 m $\eta = 23.5$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.1$	PASSA $\eta = 23.5$
N249/N248	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 15.6$	x: 0 m $\eta = 26.1$	x: 0 m $\eta < 0.1$	x: 0 m $\eta = 1.9$	x: 0.465 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 27.8$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.3$	PASSA $\eta = 27.8$
N248/N247	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 16.3$	x: 0 m $\eta = 27.5$	x: 0.465 m $\eta < 0.1$	x: 0 m $\eta = 1.5$	x: 0.465 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 28.9$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.2$	PASSA $\eta = 28.9$
N247/N246	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 17.1$	x: 0 m $\eta = 28.6$	x: 0.465 m $\eta = 0.1$	x: 0 m $\eta = 2.2$	x: 0.465 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 30.6$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.3$	PASSA $\eta = 30.6$
N246/N245	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 16.8$	x: 0 m $\eta = 28.4$	x: 0.465 m $\eta = 0.1$	x: 0 m $\eta = 1.7$	x: 0.465 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 29.9$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.3$	PASSA $\eta = 29.9$
N245/N244	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 16.8$	x: 0 m $\eta = 28.0$	x: 0 m $\eta = 0.2$	x: 0 m $\eta = 2.2$	x: 0.465 m $\eta = 0.1$	$\eta = 0.1$	x: 0 m $\eta = 30.1$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.4$	PASSA $\eta = 30.1$
N244/N232	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 15.9$	x: 0 m $\eta = 26.7$	x: 0.465 m $\eta = 0.3$	x: 0 m $\eta = 2.3$	x: 0.465 m $\eta = 0.2$	$\eta = 0.1$	x: 0.465 m $\eta = 28.9$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.6$	PASSA $\eta = 28.9$
N211/N235	$\lambda \leq 200.0$ Passa	x: 0.544 m $\eta = 7.1$	x: 0 m $\eta = 12.5$	x: 0 m $\eta = 0.3$	x: 0 m $\eta = 23.5$	x: 0 m $\eta = 1.2$	$\eta = 0.1$	x: 0 m $\eta = 30.0$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 3.0$	PASSA $\eta = 30.0$
N212/N235	$\lambda \leq 200.0$ Passa	x: 0.286 m $\eta = 5.0$	x: 0 m $\eta = 3.4$	x: 0.286 m $\eta < 0.1$	x: 0 m $\eta = 7.9$	$\eta = 1.0$	$\eta < 0.1$	x: 0 m $\eta = 10.5$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 2.4$	PASSA $\eta = 10.5$
N212/N236	$\lambda \leq 200.0$ Passa	x: 0.569 m $\eta = 6.4$	x: 0 m $\eta = 11.0$	x: 0.569 m $\eta = 0.1$	x: 0 m $\eta = 2.4$	x: 0.569 m $\eta = 0.2$	$\eta < 0.1$	x: 0 m $\eta = 8.0$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.569 m $\eta = 0.4$	PASSA $\eta = 11.0$
N215/N236	$\lambda \leq 200.0$ Passa	x: 0.332 m $\eta = 3.6$	x: 0 m $\eta = 2.3$	x: 0.332 m $\eta = 0.1$	x: 0.332 m $\eta = 0.3$	$\eta < 0.1$	$\eta < 0.1$	x: 0.332 m $\eta = 2.0$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.1$	PASSA $\eta = 3.6$
N215/N237	$\lambda \leq 200.0$ Passa	x: 0.597 m $\eta = 3.5$	x: 0 m $\eta = 6.4$	x: 0 m $\eta = 0.1$	x: 0 m $\eta = 1.1$	x: 0.597 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 4.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.1$	PASSA $\eta = 6.4$

Barras	VERIFICAÇÕES (ABNT NBR 8800:2008)												Estado
	λ	N_t	N_c	M_x	M_y	V_x	V_y	NM_xM_y	T	NMVT	$\sigma \tau f$		
N216/N237	$\lambda \leq 200.0$ Passa	x: 0.378 m $\eta = 3.0$	x: 0 m $\eta = 2.1$	x: 0 m $\eta < 0.1$	x: 0 m $\eta = 0.3$	$\eta < 0.1$	N.A. ⁽⁵⁾	x: 0 m $\eta = 1.6$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 3.0$	
N216/N238	$\lambda \leq 200.0$ Passa	x: 0.627 m $\eta = 2.9$	x: 0 m $\eta = 5.2$	x: 0 m $\eta < 0.1$	x: 0 m $\eta = 1.3$	x: 0.627 m $\eta = 0.1$	N.A. ⁽⁵⁾	x: 0 m $\eta = 3.9$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 5.2$	
N217/N238	$\lambda \leq 200.0$ Passa	x: 0.424 m $\eta = 1.4$	x: 0 m $\eta = 0.8$	x: 0.424 m $\eta < 0.1$	x: 0 m $\eta = 1.0$	$\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 1.7$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.2$	PASSA $\eta = 1.7$	
N217/N239	$\lambda \leq 200.0$ Passa	x: 0.659 m $\eta = 1.1$	x: 0 m $\eta = 2.4$	x: 0 m $\eta < 0.1$	x: 0 m $\eta = 1.3$	x: 0.659 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 2.5$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.1$	PASSA $\eta = 2.5$	
N218/N239	$\lambda \leq 200.0$ Passa	x: 0.47 m $\eta = 1.2$	x: 0 m $\eta = 0.8$	N.A. ⁽⁴⁾	x: 0 m $\eta = 1.3$	$\eta = 0.1$	N.A. ⁽⁵⁾	x: 0.47 m $\eta = 1.9$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 1.9$	
N218/N240	$\lambda \leq 200.0$ Passa	x: 0.693 m $\eta = 1.0$	x: 0 m $\eta = 1.9$	N.A. ⁽⁴⁾	x: 0.173 m $\eta = 1.0$	x: 0.693 m $\eta = 0.1$	$\eta < 0.1$	x: 0.173 m $\eta = 1.9$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.1$	PASSA $\eta = 1.9$	
N219/N240	$\lambda \leq 200.0$ Passa	x: 0.516 m $\eta = 0.4$	x: 0 m $\eta = 0.3$	N.A. ⁽⁴⁾	x: 0 m $\eta = 1.5$	$\eta = 0.1$	N.A. ⁽⁵⁾	x: 0 m $\eta = 1.6$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 1.6$	
N219/N241	$\lambda \leq 200.0$ Passa	x: 0.728 m $\eta = 0.3$	x: 0 m $\eta = 0.5$	x: 0.728 m $\eta < 0.1$	x: 0.182 m $\eta = 0.9$	x: 0.728 m $\eta < 0.1$	N.A. ⁽⁵⁾	x: 0 m $\eta = 1.0$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 1.0$	
N220/N241	$\lambda \leq 200.0$ Passa	x: 0.562 m $\eta = 0.3$	x: 0 m $\eta = 0.4$	N.A. ⁽⁴⁾	x: 0.562 m $\eta = 1.7$	$\eta = 0.1$	N.A. ⁽⁵⁾	x: 0.562 m $\eta = 1.8$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 1.8$	
N220/N242	$\lambda \leq 200.0$ Passa	x: 0.764 m $\eta = 0.5$	x: 0 m $\eta = 0.4$	x: 0.764 m $\eta = 0.1$	x: 0.382 m $\eta = 0.7$	x: 0.764 m $\eta < 0.1$	$\eta < 0.1$	x: 0.382 m $\eta = 0.9$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.764 m $\eta = 0.1$	PASSA $\eta = 0.9$	
N221/N242	$\lambda \leq 200.0$ Passa	x: 0.608 m $\eta = 1.3$	x: 0 m $\eta = 1.9$	x: 0 m $\eta < 0.1$	x: 0.608 m $\eta = 1.8$	$\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 2.7$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.3$	PASSA $\eta = 2.7$	
N221/N243	$\lambda \leq 200.0$ Passa	x: 0.801 m $\eta = 2.0$	x: 0 m $\eta = 2.0$	x: 0 m $\eta = 0.1$	x: 0.601 m $\eta = 0.7$	x: 0 m $\eta < 0.1$	$\eta < 0.1$	x: 0.601 m $\eta = 1.7$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.801 m $\eta = 0.1$	PASSA $\eta = 2.0$	
N222/N243	$\lambda \leq 200.0$ Passa	x: 0.654 m $\eta = 1.1$	x: 0 m $\eta = 1.9$	x: 0 m $\eta < 0.1$	x: 0.654 m $\eta = 2.2$	$\eta = 0.1$	N.A. ⁽⁵⁾	x: 0.654 m $\eta = 3.1$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 3.1$	
N222/N232	$\lambda \leq 200.0$ Passa	x: 0.839 m $\eta = 1.9$	x: 0 m $\eta = 1.6$	x: 0 m $\eta < 0.1$	x: 0 m $\eta = 0.4$	x: 0.839 m $\eta = 0.1$	$\eta < 0.1$	x: 0.839 m $\eta = 1.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.839 m $\eta = 0.1$	PASSA $\eta = 1.9$	
N214/N232	$\lambda \leq 200.0$ Passa	x: 0.839 m $\eta = 1.9$	x: 0 m $\eta = 1.6$	x: 0 m $\eta < 0.1$	x: 0 m $\eta = 0.4$	x: 0.839 m $\eta = 0.1$	$\eta < 0.1$	x: 0.839 m $\eta = 1.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.839 m $\eta = 0.1$	PASSA $\eta = 1.9$	
N214/N244	$\lambda \leq 200.0$ Passa	x: 0.654 m $\eta = 1.1$	x: 0 m $\eta = 1.9$	x: 0 m $\eta < 0.1$	x: 0.654 m $\eta = 2.2$	$\eta = 0.1$	N.A. ⁽⁵⁾	x: 0.654 m $\eta = 3.1$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 3.1$	
N223/N244	$\lambda \leq 200.0$ Passa	x: 0.801 m $\eta = 2.0$	x: 0 m $\eta = 2.0$	x: 0 m $\eta = 0.1$	x: 0.601 m $\eta = 0.7$	x: 0 m $\eta < 0.1$	$\eta < 0.1$	x: 0.601 m $\eta = 1.7$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.801 m $\eta = 0.1$	PASSA $\eta = 2.0$	
N223/N245	$\lambda \leq 200.0$ Passa	x: 0.608 m $\eta = 1.3$	x: 0 m $\eta = 1.9$	x: 0 m $\eta < 0.1$	x: 0.608 m $\eta = 1.8$	$\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 2.7$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.3$	PASSA $\eta = 2.7$	
N224/N245	$\lambda \leq 200.0$ Passa	x: 0.764 m $\eta = 0.5$	x: 0 m $\eta = 0.4$	x: 0.764 m $\eta = 0.1$	x: 0.382 m $\eta = 0.7$	x: 0.764 m $\eta < 0.1$	$\eta < 0.1$	x: 0.382 m $\eta = 0.9$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.764 m $\eta = 0.1$	PASSA $\eta = 0.9$	
N224/N246	$\lambda \leq 200.0$ Passa	x: 0.562 m $\eta = 0.3$	x: 0 m $\eta = 0.4$	N.A. ⁽⁴⁾	x: 0.562 m $\eta = 1.7$	$\eta = 0.1$	N.A. ⁽⁵⁾	x: 0.562 m $\eta = 1.8$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 1.8$	
N225/N246	$\lambda \leq 200.0$ Passa	x: 0.728 m $\eta = 0.3$	x: 0 m $\eta = 0.5$	x: 0.728 m $\eta < 0.1$	x: 0.182 m $\eta = 0.9$	x: 0.728 m $\eta < 0.1$	N.A. ⁽⁵⁾	x: 0 m $\eta = 1.0$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 1.0$	
N225/N247	$\lambda \leq 200.0$ Passa	x: 0.516 m $\eta = 0.4$	x: 0 m $\eta = 0.3$	N.A. ⁽⁴⁾	x: 0 m $\eta = 1.5$	$\eta = 0.1$	N.A. ⁽⁵⁾	x: 0 m $\eta = 1.6$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 1.6$	
N226/N247	$\lambda \leq 200.0$ Passa	x: 0.693 m $\eta = 1.0$	x: 0 m $\eta = 1.9$	N.A. ⁽⁴⁾	x: 0.173 m $\eta = 1.0$	x: 0.693 m $\eta = 0.1$	$\eta < 0.1$	x: 0.173 m $\eta = 1.9$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.1$	PASSA $\eta = 1.9$	
N226/N248	$\lambda \leq 200.0$ Passa	x: 0.47 m $\eta = 1.2$	x: 0 m $\eta = 0.8$	N.A. ⁽⁴⁾	x: 0 m $\eta = 1.3$	$\eta = 0.1$	N.A. ⁽⁵⁾	x: 0.47 m $\eta = 1.9$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 1.9$	
N227/N248	$\lambda \leq 200.0$ Passa	x: 0.659 m $\eta = 1.1$	x: 0 m $\eta = 2.4$	x: 0 m $\eta < 0.1$	x: 0 m $\eta = 1.3$	x: 0.659 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 2.5$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.1$	PASSA $\eta = 2.5$	
N227/N249	$\lambda \leq 200.0$ Passa	x: 0.424 m $\eta = 1.4$	x: 0 m $\eta = 0.8$	x: 0.424 m $\eta < 0.1$	x: 0 m $\eta = 1.0$	$\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 1.7$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.2$	PASSA $\eta = 1.7$	
N228/N249	$\lambda \leq 200.0$ Passa	x: 0.627 m $\eta = 2.9$	x: 0 m $\eta = 5.2$	x: 0 m $\eta < 0.1$	x: 0 m $\eta = 1.3$	x: 0.627 m $\eta = 0.1$	N.A. ⁽⁵⁾	x: 0 m $\eta = 3.9$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 5.2$	
N228/N250	$\lambda \leq 200.0$ Passa	x: 0.378 m $\eta = 3.0$	x: 0 m $\eta = 2.1$	x: 0 m $\eta < 0.1$	x: 0 m $\eta = 0.3$	$\eta < 0.1$	N.A. ⁽⁵⁾	x: 0 m $\eta = 1.6$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 3.0$	
N229/N250	$\lambda \leq 200.0$ Passa	x: 0.597 m $\eta = 3.5$	x: 0 m $\eta = 6.4$	x: 0 m $\eta = 0.1$	x: 0 m $\eta = 1.1$	x: 0.597 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 4.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.1$	PASSA $\eta = 6.4$	
N229/N251	$\lambda \leq 200.0$ Passa	x: 0.332 m $\eta = 3.6$	x: 0 m $\eta = 2.3$	x: 0.332 m $\eta = 0.1$	x: 0.332 m $\eta = 0.3$	$\eta < 0.1$	$\eta < 0.1$	x: 0.332 m $\eta = 2.0$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.1$	PASSA $\eta = 3.6$	

Barras	VERIFICAÇÕES (ABNT NBR 8800:2008)											Estado
	λ	N_t	N_c	M_x	M_y	V_x	V_y	NM_xM_y	T	NMVT	$\sigma_{\tau f}$	
N230/N251	$\lambda \leq 200.0$ Passa	x: 0.569 m $\eta = 6.4$	x: 0 m $\eta = 11.0$	x: 0.569 m $\eta = 0.1$	x: 0 m $\eta = 2.4$	x: 0.569 m $\eta = 0.2$	$\eta < 0.1$	x: 0 m $\eta = 8.0$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.569 m $\eta = 0.4$	PASSA $\eta = 11.0$
N230/N252	$\lambda \leq 200.0$ Passa	x: 0.286 m $\eta = 5.0$	x: 0 m $\eta = 3.4$	x: 0.286 m $\eta < 0.1$	x: 0 m $\eta = 7.9$	$\eta = 1.0$	$\eta < 0.1$	x: 0 m $\eta = 10.5$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 2.4$	PASSA $\eta = 10.5$
N231/N252	$\lambda \leq 200.0$ Passa	x: 0.544 m $\eta = 7.1$	x: 0 m $\eta = 12.5$	x: 0 m $\eta = 0.3$	x: 0 m $\eta = 23.5$	x: 0 m $\eta = 1.2$	$\eta = 0.1$	x: 0 m $\eta = 30.0$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 3.0$	PASSA $\eta = 30.0$
N337/N338	$\lambda \leq 200.0$ Passa	$\eta = 8.7$	$\eta = 14.9$	x: 0 m $\eta = 0.1$	x: 0 m $\eta = 28.1$	x: 0 m $\eta = 1.7$	$\eta < 0.1$	x: 0 m $\eta = 35.6$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 4.1$	PASSA $\eta = 35.6$
N338/N341	$\lambda \leq 200.0$ Passa	$\eta = 3.4$	$\eta = 6.1$	x: 0.463 m $\eta = 0.2$	x: 0.231 m $\eta = 1.2$	x: 0.463 m $\eta = 0.1$	$\eta < 0.1$	x: 0.231 m $\eta = 4.3$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.463 m $\eta = 0.1$	PASSA $\eta = 6.1$
N341/N342	$\lambda \leq 200.0$ Passa	$\eta = 0.8$	$\eta = 1.5$	x: 0 m $\eta = 0.2$	x: 0.463 m $\eta = 1.4$	x: 0 m $\eta = 0.1$	$\eta < 0.1$	x: 0.463 m $\eta = 2.2$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.3$	PASSA $\eta = 2.2$
N342/N343	$\lambda \leq 200.0$ Passa	$\eta = 1.9$	$\eta = 1.5$	x: 0 m $\eta = 0.1$	x: 0.463 m $\eta = 1.5$	x: 0 m $\eta = 0.1$	$\eta < 0.1$	x: 0.463 m $\eta = 2.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.2$	PASSA $\eta = 2.4$
N343/N344	$\lambda \leq 200.0$ Passa	$\eta = 3.2$	$\eta = 2.3$	x: 0.463 m $\eta < 0.1$	x: 0.231 m $\eta = 1.2$	x: 0.463 m $\eta < 0.1$	$\eta < 0.1$	x: 0.231 m $\eta = 2.8$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.463 m $\eta = 0.1$	PASSA $\eta = 3.2$
N344/N345	$\lambda \leq 200.0$ Passa	$\eta = 4.2$	$\eta = 3.0$	x: 0.463 m $\eta = 0.1$	x: 0.231 m $\eta = 1.2$	x: 0.463 m $\eta < 0.1$	$\eta < 0.1$	x: 0.231 m $\eta = 3.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.463 m $\eta = 0.1$	PASSA $\eta = 4.2$
N345/N346	$\lambda \leq 200.0$ Passa	$\eta = 3.9$	$\eta = 2.7$	x: 0.463 m $\eta = 0.1$	x: 0 m $\eta = 1.6$	x: 0.463 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 3.7$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.2$	PASSA $\eta = 3.9$
N346/N347	$\lambda \leq 200.0$ Passa	$\eta = 3.6$	$\eta = 2.4$	x: 0 m $\eta = 0.1$	x: 0 m $\eta = 1.5$	x: 0.463 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 3.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.463 m $\eta = 0.2$	PASSA $\eta = 3.6$
N347/N348	$\lambda \leq 200.0$ Passa	$\eta = 2.4$	$\eta = 1.5$	x: 0 m $\eta = 0.1$	x: 0 m $\eta = 1.8$	x: 0.463 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 3.0$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.463 m $\eta = 0.3$	PASSA $\eta = 3.0$
N348/N339	$\lambda \leq 200.0$ Passa	$\eta = 1.4$	$\eta = 0.7$	x: 0.463 m $\eta = 0.1$	x: 0 m $\eta = 1.5$	x: 0.463 m $\eta = 0.2$	$\eta < 0.1$	x: 0 m $\eta = 2.2$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.463 m $\eta = 0.4$	PASSA $\eta = 2.2$
N339/N340	$\lambda \leq 200.0$ Passa	$\eta = 1.4$	$\eta = 0.7$	x: 0 m $\eta = 0.1$	x: 0.463 m $\eta = 1.5$	x: 0 m $\eta = 0.2$	$\eta < 0.1$	x: 0.463 m $\eta = 2.2$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.4$	PASSA $\eta = 2.2$
N340/N349	$\lambda \leq 200.0$ Passa	$\eta = 2.4$	$\eta = 1.5$	x: 0.463 m $\eta = 0.1$	x: 0.463 m $\eta = 1.8$	x: 0 m $\eta = 0.1$	$\eta < 0.1$	x: 0.463 m $\eta = 3.0$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.3$	PASSA $\eta = 3.0$
N349/N350	$\lambda \leq 200.0$ Passa	$\eta = 3.6$	$\eta = 2.4$	x: 0.463 m $\eta = 0.1$	x: 0.463 m $\eta = 1.5$	x: 0 m $\eta = 0.1$	$\eta < 0.1$	x: 0.463 m $\eta = 3.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.2$	PASSA $\eta = 3.6$
N350/N351	$\lambda \leq 200.0$ Passa	$\eta = 3.9$	$\eta = 2.7$	x: 0 m $\eta = 0.1$	x: 0.463 m $\eta = 1.6$	x: 0 m $\eta = 0.1$	$\eta < 0.1$	x: 0.463 m $\eta = 3.7$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.463 m $\eta = 0.2$	PASSA $\eta = 3.9$
N351/N352	$\lambda \leq 200.0$ Passa	$\eta = 4.2$	$\eta = 3.0$	x: 0 m $\eta = 0.1$	x: 0.231 m $\eta = 1.2$	x: 0 m $\eta < 0.1$	$\eta < 0.1$	x: 0.231 m $\eta = 3.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.1$	PASSA $\eta = 4.2$
N352/N353	$\lambda \leq 200.0$ Passa	$\eta = 3.2$	$\eta = 2.3$	x: 0 m $\eta < 0.1$	x: 0.231 m $\eta = 1.2$	x: 0 m $\eta < 0.1$	$\eta < 0.1$	x: 0.231 m $\eta = 2.8$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.1$	PASSA $\eta = 3.2$
N353/N354	$\lambda \leq 200.0$ Passa	$\eta = 1.9$	$\eta = 1.5$	x: 0.463 m $\eta = 0.1$	x: 0 m $\eta = 1.5$	x: 0.463 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 2.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.463 m $\eta = 0.2$	PASSA $\eta = 2.4$
N354/N355	$\lambda \leq 200.0$ Passa	$\eta = 0.8$	$\eta = 1.5$	x: 0.463 m $\eta = 0.2$	x: 0 m $\eta = 1.4$	x: 0.463 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 2.2$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.463 m $\eta = 0.3$	PASSA $\eta = 2.2$
N355/N356	$\lambda \leq 200.0$ Passa	$\eta = 3.4$	$\eta = 6.1$	x: 0 m $\eta = 0.2$	x: 0.231 m $\eta = 1.2$	x: 0 m $\eta = 0.1$	$\eta < 0.1$	x: 0.231 m $\eta = 4.3$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.1$	PASSA $\eta = 6.1$
N356/N357	$\lambda \leq 200.0$ Passa	$\eta = 8.7$	$\eta = 14.9$	x: 0.463 m $\eta = 0.1$	x: 0.463 m $\eta = 28.1$	x: 0.463 m $\eta = 1.7$	$\eta < 0.1$	x: 0.463 m $\eta = 35.6$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.463 m $\eta = 4.1$	PASSA $\eta = 35.6$
N339/N358	x: 0 m $\lambda \leq 200.0$ Passa	x: 0.7 m $\eta = 0.1$	x: 0 m $\eta < 0.1$	x: 0.7 m $\eta < 0.1$	N.A. ⁽⁴⁾	N.A. ⁽⁵⁾	$\eta < 0.1$	x: 0.7 m $\eta = 0.1$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁶⁾	PASSA $\eta = 0.1$
N357/N359	$\lambda \leq 200.0$ Passa	x: 0.24 m $\eta = 0.4$	x: 0 m $\eta = 0.4$	x: 0 m $\eta = 0.6$	x: 0 m $\eta = 36.7$	$\eta = 3.4$	$\eta = 0.3$	x: 0 m $\eta = 37.5$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 8.5$	PASSA $\eta = 37.5$
N337/N360	$\lambda \leq 200.0$ Passa	x: 0.24 m $\eta = 0.4$	x: 0 m $\eta = 0.4$	x: 0 m $\eta = 0.6$	x: 0 m $\eta = 36.7$	$\eta = 3.4$	$\eta = 0.3$	x: 0 m $\eta = 37.5$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 8.5$	PASSA $\eta = 37.5$
N360/N361	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 1.2$	x: 0 m $\eta = 1.1$	x: 0.465 m $\eta < 0.1$	x: 0 m $\eta = 4.3$	x: 0.465 m $\eta = 0.4$	$\eta < 0.1$	x: 0 m $\eta = 4.9$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.9$	PASSA $\eta = 4.9$
N361/N362	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 5.0$	x: 0 m $\eta = 9.0$	x: 0.465 m $\eta = 0.3$	x: 0.465 m $\eta = 1.8$	x: 0 m $\eta = 0.1$	$\eta = 0.1$	x: 0.465 m $\eta = 6.5$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.4$	PASSA $\eta = 9.0$
N362/N363	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 10.3$	x: 0 m $\eta = 17.4$	x: 0 m $\eta = 0.3$	x: 0.465 m $\eta = 0.9$	x: 0 m $\eta < 0.1$	$\eta < 0.1$	x: 0.232 m $\eta = 9.8$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.2$	PASSA $\eta = 17.4$
N363/N364	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 12.9$	x: 0 m $\eta = 22.1$	x: 0 m $\eta = 0.1$	x: 0.232 m $\eta = 1.1$	x: 0 m $\eta < 0.1$	$\eta < 0.1$	x: 0.232 m $\eta = 23.1$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.1$	PASSA $\eta = 23.1$

Barras	VERIFICAÇÕES (ABNT NBR 8800:2008)											Estado
	λ	N_t	N_c	M_x	M_y	V_x	V_y	NM_xM_y	T	NMVT	$\sigma \tau f$	
N364/N365	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 15.2$	x: 0 m $\eta = 25.6$	x: 0 m $\eta = 0.1$	x: 0 m $\eta = 1.9$	x: 0.465 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 27.3$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.3$	PASSA $\eta = 27.3$
N365/N366	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 15.9$	x: 0 m $\eta = 27.0$	x: 0.465 m $\eta = 0.1$	x: 0 m $\eta = 1.4$	x: 0.465 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 28.3$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.2$	PASSA $\eta = 28.3$
N366/N367	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 16.6$	x: 0 m $\eta = 28.1$	x: 0.465 m $\eta = 0.1$	x: 0 m $\eta = 2.2$	x: 0.465 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 30.1$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.3$	PASSA $\eta = 30.1$
N367/N368	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 16.4$	x: 0 m $\eta = 27.8$	x: 0.465 m $\eta = 0.2$	x: 0 m $\eta = 1.6$	x: 0.465 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 29.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.3$	PASSA $\eta = 29.4$
N368/N369	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 16.3$	x: 0 m $\eta = 27.5$	x: 0 m $\eta = 0.3$	x: 0 m $\eta = 2.1$	x: 0.465 m $\eta = 0.1$	$\eta = 0.1$	x: 0 m $\eta = 29.6$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.4$	PASSA $\eta = 29.6$
N369/N358	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 15.4$	x: 0 m $\eta = 26.2$	x: 0.465 m $\eta = 0.3$	x: 0 m $\eta = 2.3$	x: 0.465 m $\eta = 0.2$	$\eta = 0.1$	x: 0.465 m $\eta = 28.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.6$	PASSA $\eta = 28.4$
N359/N378	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 1.2$	x: 0 m $\eta = 1.1$	x: 0.465 m $\eta < 0.1$	x: 0 m $\eta = 4.3$	x: 0.465 m $\eta = 0.4$	$\eta < 0.1$	x: 0 m $\eta = 4.9$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.9$	PASSA $\eta = 4.9$
N378/N377	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 5.0$	x: 0 m $\eta = 9.0$	x: 0.465 m $\eta = 0.3$	x: 0.465 m $\eta = 1.8$	x: 0 m $\eta = 0.1$	$\eta = 0.1$	x: 0.465 m $\eta = 6.5$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.4$	PASSA $\eta = 9.0$
N377/N376	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 10.3$	x: 0 m $\eta = 17.4$	x: 0 m $\eta = 0.3$	x: 0.465 m $\eta = 0.9$	x: 0 m $\eta < 0.1$	$\eta < 0.1$	x: 0.232 m $\eta = 9.8$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.2$	PASSA $\eta = 17.4$
N376/N375	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 12.9$	x: 0 m $\eta = 22.1$	x: 0 m $\eta = 0.1$	x: 0.232 m $\eta = 1.1$	x: 0 m $\eta < 0.1$	$\eta < 0.1$	x: 0.232 m $\eta = 23.1$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.1$	PASSA $\eta = 23.1$
N375/N374	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 15.2$	x: 0 m $\eta = 25.6$	x: 0 m $\eta = 0.1$	x: 0 m $\eta = 1.9$	x: 0.465 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 27.3$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.3$	PASSA $\eta = 27.3$
N374/N373	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 15.9$	x: 0 m $\eta = 27.0$	x: 0.465 m $\eta = 0.1$	x: 0 m $\eta = 1.4$	x: 0.465 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 28.3$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.2$	PASSA $\eta = 28.3$
N373/N372	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 16.6$	x: 0 m $\eta = 28.1$	x: 0.465 m $\eta = 0.1$	x: 0 m $\eta = 2.2$	x: 0.465 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 30.1$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.3$	PASSA $\eta = 30.1$
N372/N371	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 16.4$	x: 0 m $\eta = 27.8$	x: 0.465 m $\eta = 0.2$	x: 0 m $\eta = 1.6$	x: 0.465 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 29.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.3$	PASSA $\eta = 29.4$
N371/N370	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 16.3$	x: 0 m $\eta = 27.5$	x: 0 m $\eta = 0.3$	x: 0 m $\eta = 2.1$	x: 0.465 m $\eta = 0.1$	$\eta = 0.1$	x: 0 m $\eta = 29.6$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.4$	PASSA $\eta = 29.6$
N370/N358	$\lambda \leq 200.0$ Passa	x: 0.465 m $\eta = 15.4$	x: 0 m $\eta = 26.2$	x: 0.465 m $\eta = 0.3$	x: 0 m $\eta = 2.3$	x: 0.465 m $\eta = 0.2$	$\eta = 0.1$	x: 0.465 m $\eta = 28.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.465 m $\eta = 0.6$	PASSA $\eta = 28.4$
N337/N361	$\lambda \leq 200.0$ Passa	x: 0.544 m $\eta = 7.0$	x: 0 m $\eta = 12.3$	x: 0 m $\eta = 0.5$	x: 0 m $\eta = 23.0$	x: 0 m $\eta = 1.2$	$\eta = 0.1$	x: 0 m $\eta = 29.7$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 3.0$	PASSA $\eta = 29.7$
N338/N361	$\lambda \leq 200.0$ Passa	x: 0.286 m $\eta = 4.9$	x: 0 m $\eta = 3.3$	x: 0 m $\eta = 0.1$	x: 0 m $\eta = 7.8$	$\eta = 1.0$	$\eta < 0.1$	x: 0 m $\eta = 10.3$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 2.4$	PASSA $\eta = 10.3$
N338/N362	$\lambda \leq 200.0$ Passa	x: 0.569 m $\eta = 6.3$	x: 0 m $\eta = 10.8$	x: 0 m $\eta = 0.1$	x: 0 m $\eta = 2.4$	x: 0.569 m $\eta = 0.2$	$\eta < 0.1$	x: 0 m $\eta = 7.9$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.569 m $\eta = 0.4$	PASSA $\eta = 10.8$
N341/N362	$\lambda \leq 200.0$ Passa	x: 0.332 m $\eta = 3.5$	x: 0 m $\eta = 2.2$	x: 0.332 m $\eta = 0.1$	x: 0.332 m $\eta = 0.3$	$\eta < 0.1$	$\eta < 0.1$	x: 0.332 m $\eta = 1.9$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.1$	PASSA $\eta = 3.5$
N341/N363	$\lambda \leq 200.0$ Passa	x: 0.597 m $\eta = 3.4$	x: 0 m $\eta = 6.3$	x: 0.597 m $\eta < 0.1$	x: 0 m $\eta = 1.1$	x: 0.597 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 4.3$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.2$	PASSA $\eta = 6.3$
N342/N363	$\lambda \leq 200.0$ Passa	x: 0.378 m $\eta = 3.0$	x: 0 m $\eta = 2.0$	x: 0 m $\eta < 0.1$	x: 0 m $\eta = 0.3$	$\eta < 0.1$	N.A. ⁽⁵⁾	x: 0 m $\eta = 1.6$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 3.0$
N342/N364	$\lambda \leq 200.0$ Passa	x: 0.627 m $\eta = 2.9$	x: 0 m $\eta = 5.1$	x: 0 m $\eta < 0.1$	x: 0 m $\eta = 1.2$	x: 0.627 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 3.8$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.627 m $\eta = 0.2$	PASSA $\eta = 5.1$
N343/N364	$\lambda \leq 200.0$ Passa	x: 0.424 m $\eta = 1.4$	x: 0 m $\eta = 0.8$	x: 0.424 m $\eta < 0.1$	x: 0 m $\eta = 1.0$	$\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 1.7$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.1$	PASSA $\eta = 1.7$
N343/N365	$\lambda \leq 200.0$ Passa	x: 0.659 m $\eta = 1.1$	x: 0 m $\eta = 2.3$	x: 0 m $\eta < 0.1$	x: 0 m $\eta = 1.3$	x: 0.659 m $\eta = 0.1$	N.A. ⁽⁵⁾	x: 0 m $\eta = 2.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 2.4$
N344/N365	$\lambda \leq 200.0$ Passa	x: 0.47 m $\eta = 1.2$	x: 0 m $\eta = 0.8$	x: 0 m $\eta < 0.1$	x: 0 m $\eta = 1.3$	$\eta = 0.1$	N.A. ⁽⁵⁾	x: 0.47 m $\eta = 1.8$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 1.8$
N344/N366	$\lambda \leq 200.0$ Passa	x: 0.693 m $\eta = 1.0$	x: 0 m $\eta = 1.8$	x: 0 m $\eta < 0.1$	x: 0.173 m $\eta = 1.0$	x: 0.693 m $\eta = 0.1$	$\eta < 0.1$	x: 0.173 m $\eta = 1.9$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.693 m $\eta = 0.1$	PASSA $\eta = 1.9$
N345/N366	$\lambda \leq 200.0$ Passa	x: 0.516 m $\eta = 0.4$	x: 0 m $\eta = 0.3$	x: 0.516 m $\eta < 0.1$	x: 0 m $\eta = 1.5$	$\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 1.6$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.3$	PASSA $\eta = 1.6$
N345/N367	$\lambda \leq 200.0$ Passa	x: 0.728 m $\eta = 0.3$	x: 0 m $\eta = 0.5$	x: 0 m $\eta < 0.1$	x: 0.182 m $\eta = 0.9$	x: 0.728 m $\eta < 0.1$	N.A. ⁽⁵⁾	x: 0 m $\eta = 1.0$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 1.0$
N346/N367	$\lambda \leq 200.0$ Passa	x: 0.562 m $\eta = 0.3$	x: 0 m $\eta = 0.4$	N.A. ⁽⁴⁾	x: 0.562 m $\eta = 1.6$	$\eta = 0.1$	N.A. ⁽⁵⁾	x: 0.562 m $\eta = 1.8$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 1.8$

Barras	VERIFICAÇÕES (ABNT NBR 8800:2008)											Estado
	λ	N_t	N_c	M_x	M_y	V_x	V_y	NM_xM_y	T	NMVT	$\sigma_{\tau f}$	
N346/N368	$\lambda \leq 200.0$ Passa	x: 0.764 m $\eta = 0.5$	x: 0 m $\eta = 0.4$	x: 0.764 m $\eta = 0.1$	x: 0.382 m $\eta = 0.7$	x: 0.764 m $\eta < 0.1$	$\eta < 0.1$	x: 0.382 m $\eta = 0.9$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.764 m $\eta = 0.1$	PASSA $\eta = 0.9$
N347/N368	$\lambda \leq 200.0$ Passa	x: 0.608 m $\eta = 1.2$	x: 0 m $\eta = 1.8$	x: 0 m $\eta < 0.1$	x: 0.608 m $\eta = 1.7$	$\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 2.7$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.3$	PASSA $\eta = 2.7$
N347/N369	$\lambda \leq 200.0$ Passa	x: 0.801 m $\eta = 2.0$	x: 0 m $\eta = 1.9$	x: 0 m $\eta = 0.1$	x: 0.601 m $\eta = 0.7$	x: 0 m $\eta < 0.1$	$\eta < 0.1$	x: 0.601 m $\eta = 1.7$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.801 m $\eta = 0.1$	PASSA $\eta = 2.0$
N348/N369	$\lambda \leq 200.0$ Passa	x: 0.654 m $\eta = 1.1$	x: 0 m $\eta = 1.8$	x: 0 m $\eta < 0.1$	x: 0.654 m $\eta = 2.1$	$\eta = 0.1$	$\eta < 0.1$	x: 0.654 m $\eta = 3.0$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.2$	PASSA $\eta = 3.0$
N348/N358	$\lambda \leq 200.0$ Passa	x: 0.839 m $\eta = 1.9$	x: 0 m $\eta = 1.6$	x: 0.839 m $\eta = 0.1$	x: 0 m $\eta = 0.4$	x: 0.839 m $\eta = 0.1$	$\eta < 0.1$	x: 0.839 m $\eta = 1.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.839 m $\eta = 0.1$	PASSA $\eta = 1.9$
N340/N358	$\lambda \leq 200.0$ Passa	x: 0.839 m $\eta = 1.9$	x: 0 m $\eta = 1.6$	x: 0.839 m $\eta = 0.1$	x: 0 m $\eta = 0.4$	x: 0.839 m $\eta = 0.1$	$\eta < 0.1$	x: 0.839 m $\eta = 1.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.839 m $\eta = 0.1$	PASSA $\eta = 1.9$
N340/N370	$\lambda \leq 200.0$ Passa	x: 0.654 m $\eta = 1.1$	x: 0 m $\eta = 1.8$	x: 0 m $\eta < 0.1$	x: 0.654 m $\eta = 2.1$	$\eta = 0.1$	$\eta < 0.1$	x: 0.654 m $\eta = 3.0$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.2$	PASSA $\eta = 3.0$
N349/N370	$\lambda \leq 200.0$ Passa	x: 0.801 m $\eta = 2.0$	x: 0 m $\eta = 1.9$	x: 0 m $\eta = 0.1$	x: 0.601 m $\eta = 0.7$	x: 0 m $\eta < 0.1$	$\eta < 0.1$	x: 0.601 m $\eta = 1.7$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.801 m $\eta = 0.1$	PASSA $\eta = 2.0$
N349/N371	$\lambda \leq 200.0$ Passa	x: 0.608 m $\eta = 1.2$	x: 0 m $\eta = 1.8$	x: 0 m $\eta < 0.1$	x: 0.608 m $\eta = 1.7$	$\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 2.7$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.3$	PASSA $\eta = 2.7$
N350/N371	$\lambda \leq 200.0$ Passa	x: 0.764 m $\eta = 0.5$	x: 0 m $\eta = 0.4$	x: 0.764 m $\eta = 0.1$	x: 0.382 m $\eta = 0.7$	x: 0.764 m $\eta < 0.1$	$\eta < 0.1$	x: 0.382 m $\eta = 0.9$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.764 m $\eta = 0.1$	PASSA $\eta = 0.9$
N350/N372	$\lambda \leq 200.0$ Passa	x: 0.562 m $\eta = 0.3$	x: 0 m $\eta = 0.4$	N.A. ⁽⁴⁾	x: 0.562 m $\eta = 1.6$	$\eta = 0.1$	N.A. ⁽⁵⁾	x: 0.562 m $\eta = 1.8$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 1.8$
N351/N372	$\lambda \leq 200.0$ Passa	x: 0.728 m $\eta = 0.3$	x: 0 m $\eta = 0.5$	x: 0 m $\eta < 0.1$	x: 0.182 m $\eta = 0.9$	x: 0.728 m $\eta < 0.1$	N.A. ⁽⁵⁾	x: 0 m $\eta = 1.0$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 1.0$
N351/N373	$\lambda \leq 200.0$ Passa	x: 0.516 m $\eta = 0.4$	x: 0 m $\eta = 0.3$	x: 0.516 m $\eta < 0.1$	x: 0 m $\eta = 1.5$	$\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 1.6$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.3$	PASSA $\eta = 1.6$
N352/N373	$\lambda \leq 200.0$ Passa	x: 0.693 m $\eta = 1.0$	x: 0 m $\eta = 1.8$	x: 0 m $\eta < 0.1$	x: 0.173 m $\eta = 1.0$	x: 0.693 m $\eta = 0.1$	$\eta < 0.1$	x: 0.173 m $\eta = 1.9$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.693 m $\eta = 0.1$	PASSA $\eta = 1.9$
N352/N374	$\lambda \leq 200.0$ Passa	x: 0.47 m $\eta = 1.2$	x: 0 m $\eta = 0.8$	x: 0 m $\eta < 0.1$	x: 0 m $\eta = 1.3$	$\eta = 0.1$	N.A. ⁽⁵⁾	x: 0.47 m $\eta = 1.8$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 1.8$
N353/N374	$\lambda \leq 200.0$ Passa	x: 0.659 m $\eta = 1.1$	x: 0 m $\eta = 2.3$	x: 0 m $\eta < 0.1$	x: 0 m $\eta = 1.3$	x: 0.659 m $\eta = 0.1$	N.A. ⁽⁵⁾	x: 0 m $\eta = 2.4$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 2.4$
N353/N375	$\lambda \leq 200.0$ Passa	x: 0.424 m $\eta = 1.4$	x: 0 m $\eta = 0.8$	x: 0.424 m $\eta < 0.1$	x: 0 m $\eta = 1.0$	$\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 1.7$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.1$	PASSA $\eta = 1.7$
N354/N375	$\lambda \leq 200.0$ Passa	x: 0.627 m $\eta = 2.9$	x: 0 m $\eta = 5.1$	x: 0 m $\eta < 0.1$	x: 0 m $\eta = 1.2$	x: 0.627 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 3.8$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.627 m $\eta = 0.2$	PASSA $\eta = 5.1$
N354/N376	$\lambda \leq 200.0$ Passa	x: 0.378 m $\eta = 3.0$	x: 0 m $\eta = 2.0$	x: 0 m $\eta < 0.1$	x: 0 m $\eta = 0.3$	$\eta < 0.1$	N.A. ⁽⁵⁾	x: 0 m $\eta = 1.6$	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 3.0$
N355/N376	$\lambda \leq 200.0$ Passa	x: 0.597 m $\eta = 3.4$	x: 0 m $\eta = 6.3$	x: 0.597 m $\eta < 0.1$	x: 0 m $\eta = 1.1$	x: 0.597 m $\eta = 0.1$	$\eta < 0.1$	x: 0 m $\eta = 4.3$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 0.2$	PASSA $\eta = 6.3$
N355/N377	$\lambda \leq 200.0$ Passa	x: 0.332 m $\eta = 3.5$	x: 0 m $\eta = 2.2$	x: 0.332 m $\eta = 0.1$	x: 0.332 m $\eta = 0.3$	$\eta < 0.1$	$\eta < 0.1$	x: 0.332 m $\eta = 1.9$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 0.1$	PASSA $\eta = 3.5$
N356/N377	$\lambda \leq 200.0$ Passa	x: 0.569 m $\eta = 6.3$	x: 0 m $\eta = 10.8$	x: 0 m $\eta = 0.1$	x: 0 m $\eta = 2.4$	x: 0.569 m $\eta = 0.2$	$\eta < 0.1$	x: 0 m $\eta = 7.9$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0.569 m $\eta = 0.4$	PASSA $\eta = 10.8$
N356/N378	$\lambda \leq 200.0$ Passa	x: 0.286 m $\eta = 4.9$	x: 0 m $\eta = 3.3$	x: 0 m $\eta = 0.1$	x: 0 m $\eta = 7.8$	$\eta = 1.0$	$\eta < 0.1$	x: 0 m $\eta = 10.3$	N.A. ⁽²⁾	N.A. ⁽³⁾	$\eta = 2.4$	PASSA $\eta = 10.3$
N357/N378	$\lambda \leq 200.0$ Passa	x: 0.544 m $\eta = 7.0$	x: 0 m $\eta = 12.3$	x: 0 m $\eta = 0.5$	x: 0 m $\eta = 23.0$	x: 0 m $\eta = 1.2$	$\eta = 0.1$	x: 0 m $\eta = 29.7$	N.A. ⁽²⁾	N.A. ⁽³⁾	x: 0 m $\eta = 3.0$	PASSA $\eta = 29.7$
N192/N232	N.A. ⁽⁹⁾	$\eta = 3.9$	N.A. ⁽¹⁰⁾	N.A. ⁽⁴⁾	N.A. ⁽⁴⁾	N.A. ⁽⁵⁾	N.A. ⁽⁵⁾	N.A. ⁽⁸⁾	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 3.9$
N191/N232	N.A. ⁽⁹⁾	$\eta = 3.9$	N.A. ⁽¹⁰⁾	N.A. ⁽⁴⁾	N.A. ⁽⁴⁾	N.A. ⁽⁵⁾	N.A. ⁽⁵⁾	N.A. ⁽⁸⁾	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 3.9$
N233/N190	N.A. ⁽⁹⁾	$\eta = 4.0$	N.A. ⁽¹⁰⁾	N.A. ⁽⁴⁾	N.A. ⁽⁴⁾	N.A. ⁽⁵⁾	N.A. ⁽⁵⁾	N.A. ⁽⁸⁾	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 4.0$
N234/N190	N.A. ⁽⁹⁾	$\eta = 4.0$	N.A. ⁽¹⁰⁾	N.A. ⁽⁴⁾	N.A. ⁽⁴⁾	N.A. ⁽⁵⁾	N.A. ⁽⁵⁾	N.A. ⁽⁸⁾	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 4.0$
N275/N316	N.A. ⁽⁹⁾	$\eta = 3.9$	N.A. ⁽¹⁰⁾	N.A. ⁽⁴⁾	N.A. ⁽⁴⁾	N.A. ⁽⁵⁾	N.A. ⁽⁵⁾	N.A. ⁽⁸⁾	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 3.9$
N276/N316	N.A. ⁽⁹⁾	$\eta = 3.9$	N.A. ⁽¹⁰⁾	N.A. ⁽⁴⁾	N.A. ⁽⁴⁾	N.A. ⁽⁵⁾	N.A. ⁽⁵⁾	N.A. ⁽⁸⁾	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 3.9$

Barras	VERIFICAÇÕES (ABNT NBR 8800:2008)											Estado
	λ	N_t	N_c	M_x	M_y	V_x	V_y	NM_xM_y	T	$NMVT$	$\sigma \tau f$	
N318/N274	N.A. ⁽⁹⁾	$\eta = 4.0$	N.A. ⁽¹⁰⁾	N.A. ⁽⁴⁾	N.A. ⁽⁴⁾	N.A. ⁽⁵⁾	N.A. ⁽⁵⁾	N.A. ⁽⁸⁾	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 4.0$
N317/N274	N.A. ⁽⁹⁾	$\eta = 4.0$	N.A. ⁽¹⁰⁾	N.A. ⁽⁴⁾	N.A. ⁽⁴⁾	N.A. ⁽⁵⁾	N.A. ⁽⁵⁾	N.A. ⁽⁸⁾	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 4.0$
N359/N148	N.A. ⁽⁹⁾	$\eta = 4.3$	N.A. ⁽¹⁰⁾	N.A. ⁽⁴⁾	N.A. ⁽⁴⁾	N.A. ⁽⁵⁾	N.A. ⁽⁵⁾	N.A. ⁽⁸⁾	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 4.3$
N360/N148	N.A. ⁽⁹⁾	$\eta = 4.3$	N.A. ⁽¹⁰⁾	N.A. ⁽⁴⁾	N.A. ⁽⁴⁾	N.A. ⁽⁵⁾	N.A. ⁽⁵⁾	N.A. ⁽⁸⁾	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 4.3$
N150/N358	N.A. ⁽⁹⁾	$\eta = 4.3$	N.A. ⁽¹⁰⁾	N.A. ⁽⁴⁾	N.A. ⁽⁴⁾	N.A. ⁽⁵⁾	N.A. ⁽⁵⁾	N.A. ⁽⁸⁾	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 4.3$
N149/N358	N.A. ⁽⁹⁾	$\eta = 4.3$	N.A. ⁽¹⁰⁾	N.A. ⁽⁴⁾	N.A. ⁽⁴⁾	N.A. ⁽⁵⁾	N.A. ⁽⁵⁾	N.A. ⁽⁸⁾	N.A. ⁽²⁾	N.A. ⁽³⁾	N.A. ⁽⁷⁾	PASSA $\eta = 4.3$
<p>Notação: λ: Limitação do índice de esbeltez N_t: Resistência à tração N_c: Resistência à compressão M_x: Resistência à flexão eixo X M_y: Resistência à flexão eixo Y V_x: Resistência ao esforço cortante X V_y: Resistência ao esforço cortante Y NM_xM_y: Resistência ao esforço axial e flexão combinados T: Resistência à torção $NMVT$: Resistência ao momento de torção, força axial, momento fletor e cortante $\sigma \tau f$: Resistência a interações de esforços e momento de torção x: Distância à origem da barra η: Coeficiente de aproveitamento (%) N.A.: Não aplicável</p>												
<p>Verificações desnecessárias para o tipo de perfil (N.A.): ⁽¹⁾ Este caso não está contemplado pela norma e, portanto, não é possível realizar a verificação. ⁽²⁾ A verificação não é necessária, já que não existe momento torsor. ⁽³⁾ Não há interação entre a esforço axial, momento fletor, esforço cortante e momento torsor. Portanto, a verificação não é necessária. ⁽⁴⁾ A verificação não será executada, já que não existe momento fletor. ⁽⁵⁾ A verificação não será executada, já que não existe esforço cortante. ⁽⁶⁾ Não há interação entre o momento torsor, os dois momentos fletores e os dois esforços cortantes. Portanto, a verificação não é necessária. ⁽⁷⁾ Não há interação entre os dois esforços cortantes nem entre o momento torsor, esforço axial, momentos fletores e esforços cortantes. Portanto, a verificação não é necessária. ⁽⁸⁾ Não existe interação entre o esforço axial e o momento fletor nem entre momentos fletores em ambas as direções para nenhuma combinação. Portanto, a verificação não é necessária. ⁽⁹⁾ A verificação não procede, já que não há força axial de compressão. ⁽¹⁰⁾ A verificação não será executada, já que não existe esforço axial de compressão.</p>												

Barras	VERIFICAÇÕES (ABNT NBR 14762:2010)														Estado
	b/t	λ	N _t	N _c	M _x	M _y	V _x	V _y	M _x V _y	M _y V _x	N _t M _x M _y	N _t M _y M _x	M _t		
N5/N107	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 0.6$	$\eta = 5.2$	x: 3.875 m $\eta = 10.9$	M _{Sd} = 0.00 N.A. ⁽¹⁾	x: 0 m $\eta = 0.4$	x: 3.875 m $\eta = 4.1$	x: 3.875 m $\eta = 1.4$	N.A. ⁽²⁾	x: 3.875 m $\eta = 16.9$	x: 3.875 m $\eta = 13.5$	M _{t,Sd} = 0.00 N.A. ⁽³⁾	PASSA $\eta = 16.9$	
N107/N191	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 0.1$	$\eta = 0.8$	x: 0 m $\eta = 8.5$	M _{Sd} = 0.00 N.A. ⁽¹⁾	x: 3.5 m $\eta = 0.4$	x: 0 m $\eta = 3.5$	x: 0 m $\eta = 0.9$	N.A. ⁽²⁾	x: 0 m $\eta = 9.3$	x: 0 m $\eta = 10.8$	M _{t,Sd} = 0.00 N.A. ⁽³⁾	PASSA $\eta = 10.8$	
N191/N233	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	N _{t,Sd} = 0.00 N.A. ⁽⁴⁾	$\eta = 1.5$	x: 3.5 m $\eta = 8.3$	M _{Sd} = 0.00 N.A. ⁽¹⁾	x: 0 m $\eta = 0.4$	x: 3.5 m $\eta = 3.5$	x: 3.5 m $\eta = 0.8$	N.A. ⁽²⁾	x: 0 m $\eta = 11.3$	N.A. ⁽⁵⁾	M _{t,Sd} = 0.00 N.A. ⁽³⁾	PASSA $\eta = 11.3$	
N233/N275	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 0.1$	$\eta = 0.7$	x: 3.5 m $\eta = 8.2$	M _{Sd} = 0.00 N.A. ⁽¹⁾	x: 0 m $\eta = 0.4$	x: 3.5 m $\eta = 3.5$	x: 3.5 m $\eta = 0.8$	N.A. ⁽²⁾	x: 3.5 m $\eta = 9.0$	x: 0 m $\eta = 10.7$	M _{t,Sd} = 0.00 N.A. ⁽³⁾	PASSA $\eta = 10.7$	
N275/N317	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	N _{t,Sd} = 0.00 N.A. ⁽⁴⁾	$\eta = 1.5$	x: 0 m $\eta = 8.3$	M _{Sd} = 0.00 N.A. ⁽¹⁾	x: 3.5 m $\eta = 0.4$	x: 0 m $\eta = 3.5$	x: 0 m $\eta = 0.8$	N.A. ⁽²⁾	x: 3.5 m $\eta = 11.2$	N.A. ⁽⁵⁾	M _{t,Sd} = 0.00 N.A. ⁽³⁾	PASSA $\eta = 11.2$	
N317/N359	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 0.1$	$\eta = 0.8$	x: 0 m $\eta = 8.3$	M _{Sd} = 0.00 N.A. ⁽¹⁾	x: 3.5 m $\eta = 0.4$	x: 0 m $\eta = 3.5$	x: 0 m $\eta = 0.8$	N.A. ⁽²⁾	x: 0 m $\eta = 9.1$	x: 3.5 m $\eta = 10.8$	M _{t,Sd} = 0.00 N.A. ⁽³⁾	PASSA $\eta = 10.8$	
N359/N149	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	N _{t,Sd} = 0.00 N.A. ⁽⁴⁾	$\eta = 1.6$	x: 3.5 m $\eta = 8.6$	M _{Sd} = 0.00 N.A. ⁽¹⁾	x: 0 m $\eta = 0.4$	x: 3.5 m $\eta = 3.5$	x: 3.5 m $\eta = 0.9$	N.A. ⁽²⁾	x: 3.5 m $\eta = 11.3$	N.A. ⁽⁵⁾	M _{t,Sd} = 0.00 N.A. ⁽³⁾	PASSA $\eta = 11.3$	
N149/N47	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 0.8$	$\eta = 4.3$	x: 0 m $\eta = 10.8$	M _{Sd} = 0.00 N.A. ⁽¹⁾	x: 3.875 m $\eta = 0.4$	x: 0 m $\eta = 4.0$	x: 0 m $\eta = 1.3$	N.A. ⁽²⁾	x: 0 m $\eta = 15.9$	x: 0 m $\eta = 13.6$	M _{t,Sd} = 0.00 N.A. ⁽³⁾	PASSA $\eta = 15.9$	
N32/N125	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 1.2$	$\eta = 6.6$	x: 3.875 m $\eta = 21.0$	x: 3.875 m $\eta = 8.6$	x: 3.875 m $\eta = 0.8$	x: 3.875 m $\eta = 8.2$	x: 3.875 m $\eta = 5.1$	x: 3.875 m $\eta = 0.8$	x: 3.875 m $\eta = 27.5$	x: 3.875 m $\eta = 29.6$	M _{t,Sd} = 0.00 N.A. ⁽³⁾	PASSA $\eta = 29.6$	
N125/N209	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 0.4$	$\eta = 2.0$	x: 0 m $\eta = 18.0$	M _{Sd} = 0.00 N.A. ⁽¹⁾	x: 0 m $\eta = 0.7$	x: 0 m $\eta = 6.8$	x: 0 m $\eta = 3.7$	N.A. ⁽²⁾	x: 0 m $\eta = 20.2$	x: 0 m $\eta = 25.1$	M _{t,Sd} = 0.00 N.A. ⁽³⁾	PASSA $\eta = 25.1$	
N209/N251	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 0.3$	$\eta = 1.5$	x: 3.5 m $\eta = 15.8$	M _{Sd} = 0.00 N.A. ⁽¹⁾	x: 0 m $\eta = 0.7$	x: 3.5 m $\eta = 6.7$	x: 3.5 m $\eta = 3.0$	N.A. ⁽²⁾	x: 3.5 m $\eta = 17.3$	x: 3.5 m $\eta = 22.3$	M _{t,Sd} = 0.00 N.A. ⁽³⁾	PASSA $\eta = 22.3$	

Barras	VERIFICAÇÕES (ABNT NBR 14762:2010)													Estado
	b/t	λ	N_t	N_c	M_x	M_y	V_x	V_y	$M_x V_y$	$M_y V_x$	$N_x M_x M_y$	$N_y M_y M_x$	M_t	
N251/N293	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 0.3$	$\eta = 1.1$	x: 3.5 m $\eta = 15.7$	$M_{sd} = 0.00$ N.A. ⁽¹⁾	x: 0 m $\eta = 0.7$	x: 3.5 m $\eta = 6.6$	x: 3.5 m $\eta = 2.9$	N.A. ⁽²⁾	x: 3.5 m $\eta = 16.8$	x: 0 m $\eta = 22.2$	$M_{t, sd} = 0.00$ N.A. ⁽³⁾	PASSA $\eta = 22.2$
N293/N335	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 0.3$	$\eta = 1.1$	x: 0 m $\eta = 15.7$	$M_{sd} = 0.00$ N.A. ⁽¹⁾	x: 3.5 m $\eta = 0.7$	x: 0 m $\eta = 6.6$	x: 0 m $\eta = 2.9$	N.A. ⁽²⁾	x: 0 m $\eta = 16.8$	x: 0 m $\eta = 22.2$	$M_{t, sd} = 0.00$ N.A. ⁽³⁾	PASSA $\eta = 22.2$
N335/N377	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 0.3$	$\eta = 1.5$	x: 0 m $\eta = 15.8$	$M_{sd} = 0.00$ N.A. ⁽¹⁾	x: 3.5 m $\eta = 0.7$	x: 0 m $\eta = 6.7$	x: 0 m $\eta = 2.9$	N.A. ⁽²⁾	x: 0 m $\eta = 17.3$	x: 0 m $\eta = 22.3$	$M_{t, sd} = 0.00$ N.A. ⁽³⁾	PASSA $\eta = 22.3$
N377/N167	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 0.4$	$\eta = 2.0$	x: 3.5 m $\eta = 18.1$	$M_{sd} = 0.00$ N.A. ⁽¹⁾	x: 3.5 m $\eta = 0.7$	x: 3.5 m $\eta = 6.8$	x: 3.5 m $\eta = 3.7$	N.A. ⁽²⁾	x: 3.5 m $\eta = 20.2$	x: 3.5 m $\eta = 25.1$	$M_{t, sd} = 0.00$ N.A. ⁽³⁾	PASSA $\eta = 25.1$
N167/N74	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 1.2$	$\eta = 6.6$	x: 0 m $\eta = 21.0$	x: 0 m $\eta = 8.7$	x: 0 m $\eta = 0.8$	x: 0 m $\eta = 8.2$	x: 0 m $\eta = 5.1$	x: 0 m $\eta = 0.8$	x: 0 m $\eta = 27.5$	x: 0 m $\eta = 29.7$	$M_{t, sd} = 0.00$ N.A. ⁽³⁾	PASSA $\eta = 29.7$
N30/N123	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta < 0.1$	$\eta = 0.2$	x: 3.875 m $\eta = 20.3$	x: 3.875 m $\eta = 9.1$	x: 3.875 m $\eta = 0.8$	x: 3.875 m $\eta = 8.4$	x: 3.875 m $\eta = 4.8$	x: 3.875 m $\eta = 0.8$	x: 3.875 m $\eta = 28.4$	x: 3.875 m $\eta = 20.3$	$M_{t, sd} = 0.00$ N.A. ⁽³⁾	PASSA $\eta = 28.4$
N123/N207	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 0.1$	$\eta = 0.6$	x: 0 m $\eta = 19.2$	$M_{sd} = 0.00$ N.A. ⁽¹⁾	x: 3.5 m $\eta = 0.7$	x: 0 m $\eta = 6.9$	x: 0 m $\eta = 4.2$	N.A. ⁽²⁾	x: 0 m $\eta = 19.8$	x: 0 m $\eta = 25.4$	$M_{t, sd} = 0.00$ N.A. ⁽³⁾	PASSA $\eta = 25.4$
N207/N249	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 0.2$	$\eta = 0.7$	x: 3.5 m $\eta = 15.7$	$M_{sd} = 0.00$ N.A. ⁽¹⁾	x: 3.5 m $\eta = 0.7$	x: 3.5 m $\eta = 6.7$	x: 3.5 m $\eta = 2.9$	N.A. ⁽²⁾	x: 3.5 m $\eta = 16.4$	x: 3.5 m $\eta = 22.2$	$M_{t, sd} = 0.00$ N.A. ⁽³⁾	PASSA $\eta = 22.2$
N249/N291	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 0.2$	$\eta = 0.7$	x: 3.5 m $\eta = 15.7$	$M_{sd} = 0.00$ N.A. ⁽¹⁾	x: 3.5 m $\eta = 0.7$	x: 3.5 m $\eta = 6.6$	x: 3.5 m $\eta = 2.9$	N.A. ⁽²⁾	x: 3.5 m $\eta = 16.4$	x: 3.5 m $\eta = 22.1$	$M_{t, sd} = 0.00$ N.A. ⁽³⁾	PASSA $\eta = 22.1$
N291/N333	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 0.2$	$\eta = 0.7$	x: 0 m $\eta = 15.7$	$M_{sd} = 0.00$ N.A. ⁽¹⁾	x: 0 m $\eta = 0.7$	x: 0 m $\eta = 6.6$	x: 0 m $\eta = 2.9$	N.A. ⁽²⁾	x: 0 m $\eta = 16.4$	x: 0 m $\eta = 22.1$	$M_{t, sd} = 0.00$ N.A. ⁽³⁾	PASSA $\eta = 22.1$
N333/N375	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 0.1$	$\eta = 0.7$	x: 0 m $\eta = 15.7$	$M_{sd} = 0.00$ N.A. ⁽¹⁾	x: 0 m $\eta = 0.7$	x: 0 m $\eta = 6.7$	x: 0 m $\eta = 2.9$	N.A. ⁽²⁾	x: 0 m $\eta = 16.4$	x: 0 m $\eta = 22.3$	$M_{t, sd} = 0.00$ N.A. ⁽³⁾	PASSA $\eta = 22.3$
N375/N165	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 0.1$	$\eta = 0.6$	x: 3.5 m $\eta = 19.3$	$M_{sd} = 0.00$ N.A. ⁽¹⁾	x: 0 m $\eta = 0.7$	x: 3.5 m $\eta = 6.9$	x: 3.5 m $\eta = 4.2$	N.A. ⁽²⁾	x: 3.5 m $\eta = 19.9$	x: 3.5 m $\eta = 25.4$	$M_{t, sd} = 0.00$ N.A. ⁽³⁾	PASSA $\eta = 25.4$
N165/N72	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta < 0.1$	$\eta = 0.2$	x: 0 m $\eta = 20.3$	x: 0 m $\eta = 9.1$	x: 0 m $\eta = 0.8$	x: 0 m $\eta = 8.4$	x: 0 m $\eta = 4.8$	x: 0 m $\eta = 0.8$	x: 0 m $\eta = 28.5$	x: 0 m $\eta = 20.4$	$M_{t, sd} = 0.00$ N.A. ⁽³⁾	PASSA $\eta = 28.5$
N28/N121	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 0.1$	$\eta = 0.5$	x: 3.875 m $\eta = 19.8$	x: 3.875 m $\eta = 9.1$	x: 3.875 m $\eta = 0.8$	x: 3.875 m $\eta = 8.5$	x: 3.875 m $\eta = 4.6$	x: 3.875 m $\eta = 0.8$	x: 3.875 m $\eta = 28.2$	x: 3.875 m $\eta = 19.9$	$M_{t, sd} = 0.00$ N.A. ⁽³⁾	PASSA $\eta = 28.2$
N121/N205	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 0.1$	$\eta = 0.5$	x: 0 m $\eta = 19.4$	$M_{sd} = 0.00$ N.A. ⁽¹⁾	x: 0 m $\eta = 0.7$	x: 0 m $\eta = 6.9$	x: 0 m $\eta = 4.3$	N.A. ⁽²⁾	x: 0 m $\eta = 26.2$	x: 0 m $\eta = 19.6$	$M_{t, sd} = 0.00$ N.A. ⁽³⁾	PASSA $\eta = 26.2$
N205/N247	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 0.1$	$\eta = 0.4$	x: 3.5 m $\eta = 15.6$	$M_{sd} = 0.00$ N.A. ⁽¹⁾	x: 3.5 m $\eta = 0.7$	x: 3.5 m $\eta = 6.7$	x: 3.5 m $\eta = 2.9$	N.A. ⁽²⁾	x: 3.5 m $\eta = 22.4$	x: 3.5 m $\eta = 15.7$	$M_{t, sd} = 0.00$ N.A. ⁽³⁾	PASSA $\eta = 22.4$
N247/N289	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 0.1$	$\eta = 0.4$	x: 3.5 m $\eta = 15.7$	$M_{sd} = 0.00$ N.A. ⁽¹⁾	x: 3.5 m $\eta = 0.7$	x: 3.5 m $\eta = 6.6$	x: 3.5 m $\eta = 2.9$	N.A. ⁽²⁾	x: 3.5 m $\eta = 22.3$	x: 3.5 m $\eta = 15.8$	$M_{t, sd} = 0.00$ N.A. ⁽³⁾	PASSA $\eta = 22.3$
N289/N331	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 0.1$	$\eta = 0.4$	x: 0 m $\eta = 15.7$	$M_{sd} = 0.00$ N.A. ⁽¹⁾	x: 0 m $\eta = 0.7$	x: 0 m $\eta = 6.6$	x: 0 m $\eta = 2.9$	N.A. ⁽²⁾	x: 0 m $\eta = 22.4$	x: 0 m $\eta = 15.8$	$M_{t, sd} = 0.00$ N.A. ⁽³⁾	PASSA $\eta = 22.4$
N331/N373	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 0.1$	$\eta = 0.5$	x: 0 m $\eta = 15.6$	$M_{sd} = 0.00$ N.A. ⁽¹⁾	x: 0 m $\eta = 0.7$	x: 0 m $\eta = 6.7$	x: 0 m $\eta = 2.9$	N.A. ⁽²⁾	x: 0 m $\eta = 22.5$	x: 0 m $\eta = 15.7$	$M_{t, sd} = 0.00$ N.A. ⁽³⁾	PASSA $\eta = 22.5$
N373/N163	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 0.1$	$\eta = 0.5$	x: 3.5 m $\eta = 19.5$	$M_{sd} = 0.00$ N.A. ⁽¹⁾	x: 0 m $\eta = 0.7$	x: 3.5 m $\eta = 6.9$	x: 3.5 m $\eta = 4.3$	N.A. ⁽²⁾	x: 3.5 m $\eta = 26.1$	x: 3.5 m $\eta = 19.6$	$M_{t, sd} = 0.00$ N.A. ⁽³⁾	PASSA $\eta = 26.1$
N163/N70	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 0.1$	$\eta = 0.5$	x: 0 m $\eta = 19.9$	x: 0 m $\eta = 9.1$	x: 0 m $\eta = 0.8$	x: 0 m $\eta = 8.5$	x: 0 m $\eta = 4.7$	x: 0 m $\eta = 0.8$	x: 0 m $\eta = 28.3$	x: 0 m $\eta = 20.0$	$M_{t, sd} = 0.00$ N.A. ⁽³⁾	PASSA $\eta = 28.3$
N26/N119	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 0.5$	$\eta = 2.5$	x: 3.875 m $\eta = 19.5$	x: 3.875 m $\eta = 9.1$	x: 3.875 m $\eta = 0.8$	x: 3.875 m $\eta = 8.5$	x: 3.875 m $\eta = 4.5$	x: 3.875 m $\eta = 0.8$	x: 3.875 m $\eta = 30.0$	x: 1.695 m $\eta = 20.2$	$M_{t, sd} = 0.00$ N.A. ⁽³⁾	PASSA $\eta = 30.0$
N119/N203	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 0.2$	$\eta = 0.9$	x: 0 m $\eta = 19.4$	$M_{sd} = 0.00$ N.A. ⁽¹⁾	x: 0 m $\eta = 0.7$	x: 0 m $\eta = 6.9$	x: 0 m $\eta = 4.3$	N.A. ⁽²⁾	x: 0 m $\eta = 26.9$	x: 0 m $\eta = 20.1$	$M_{t, sd} = 0.00$ N.A. ⁽³⁾	PASSA $\eta = 26.9$
N203/N245	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 0.2$	$\eta = 0.8$	x: 3.5 m $\eta = 15.6$	$M_{sd} = 0.00$ N.A. ⁽¹⁾	x: 0 m $\eta = 0.7$	x: 3.5 m $\eta = 6.6$	x: 3.5 m $\eta = 2.9$	N.A. ⁽²⁾	x: 3.5 m $\eta = 22.6$	x: 3.5 m $\eta = 15.8$	$M_{t, sd} = 0.00$ N.A. ⁽³⁾	PASSA $\eta = 22.6$
N245/N287	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 0.1$	$\eta = 0.7$	x: 3.5 m $\eta = 15.7$	$M_{sd} = 0.00$ N.A. ⁽¹⁾	x: 0 m $\eta = 0.7$	x: 3.5 m $\eta = 6.6$	x: 3.5 m $\eta = 2.9$	N.A. ⁽²⁾	x: 3.5 m $\eta = 22.6$	x: 3.5 m $\eta = 15.8$	$M_{t, sd} = 0.00$ N.A. ⁽³⁾	PASSA $\eta = 22.6$
N287/N329	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 0.2$	$\eta = 0.8$	x: 0 m $\eta = 15.7$	$M_{sd} = 0.00$ N.A. ⁽¹⁾	x: 0 m $\eta = 0.7$	x: 0 m $\eta = 6.6$	x: 0 m $\eta = 2.9$	N.A. ⁽²⁾	x: 0 m $\eta = 22.7$	x: 0 m $\eta = 15.9$	$M_{t, sd} = 0.00$ N.A. ⁽³⁾	PASSA $\eta = 22.7$



Barras	VERIFICAÇÕES (ABNT NBR 14762:2010)													Estado
	b/t	λ	N_t	N_c	M_x	M_y	V_x	V_y	$M_x V_y$	$M_y V_x$	$N_t M_x M_y$	$N_t M_y M_y$	M_t	
N329/N371	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 0.2$	$\eta = 0.8$	x: 0 m $\eta = 15.6$	$M_{Sd} = 0.00$ N.A. ⁽¹⁾	x: 0 m $\eta = 0.7$	x: 0 m $\eta = 6.6$	x: 0 m $\eta = 2.9$	N.A. ⁽²⁾	x: 0 m $\eta = 22.6$	x: 0 m $\eta = 15.8$	$M_{tSd} = 0.00$ N.A. ⁽³⁾	PASSA $\eta = 22.6$
N371/N161	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 0.2$	$\eta = 1.0$	x: 3.5 m $\eta = 19.5$	$M_{Sd} = 0.00$ N.A. ⁽¹⁾	x: 3.5 m $\eta = 0.7$	x: 3.5 m $\eta = 6.9$	x: 3.5 m $\eta = 4.3$	N.A. ⁽²⁾	x: 3.5 m $\eta = 27.1$	x: 3.5 m $\eta = 19.9$	$M_{tSd} = 0.00$ N.A. ⁽³⁾	PASSA $\eta = 27.1$
N161/N68	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 0.4$	$\eta = 2.4$	x: 0 m $\eta = 19.5$	x: 0 m $\eta = 9.2$	x: 0 m $\eta = 0.8$	x: 0 m $\eta = 8.5$	x: 0 m $\eta = 4.5$	x: 0 m $\eta = 0.9$	x: 0 m $\eta = 30.0$	x: 2.18 m $\eta = 20.1$	$M_{tSd} = 0.00$ N.A. ⁽³⁾	PASSA $\eta = 30.0$
N4/N106	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 0.2$	$\eta = 5.0$	x: 3.875 m $\eta = 19.4$	$M_{Sd} = 0.00$ N.A. ⁽¹⁾	$V_{Sd} = 0.00$ N.A. ⁽⁶⁾	x: 3.875 m $\eta = 8.4$	x: 3.875 m $\eta = 4.5$	N.A. ⁽²⁾	x: 3.875 m $\eta = 24.4$	x: 3.875 m $\eta = 18.4$	$M_{tSd} = 0.00$ N.A. ⁽³⁾	PASSA $\eta = 24.4$
N106/N190	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 0.4$	$\eta = 2.3$	x: 0 m $\eta = 18.6$	$M_{Sd} = 0.00$ N.A. ⁽¹⁾	$V_{Sd} = 0.00$ N.A. ⁽⁶⁾	x: 0 m $\eta = 6.8$	x: 0 m $\eta = 3.9$	N.A. ⁽²⁾	x: 0 m $\eta = 20.9$	x: 0 m $\eta = 17.9$	$M_{tSd} = 0.00$ N.A. ⁽³⁾	PASSA $\eta = 20.9$
N190/N232	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{tSd} = 0.00$ N.A. ⁽⁴⁾	$\eta = 2.2$	x: 3.5 m $\eta = 15.7$	$M_{Sd} = 0.00$ N.A. ⁽¹⁾	$V_{Sd} = 0.00$ N.A. ⁽⁶⁾	x: 3.5 m $\eta = 6.7$	x: 3.5 m $\eta = 2.9$	N.A. ⁽²⁾	x: 3.5 m $\eta = 17.9$	N.A. ⁽⁵⁾	$M_{tSd} = 0.00$ N.A. ⁽³⁾	PASSA $\eta = 17.9$
N232/N274	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 0.3$	$\eta = 1.8$	x: 3.5 m $\eta = 15.7$	$M_{Sd} = 0.00$ N.A. ⁽¹⁾	$V_{Sd} = 0.00$ N.A. ⁽⁶⁾	x: 3.5 m $\eta = 6.7$	x: 3.5 m $\eta = 2.9$	N.A. ⁽²⁾	x: 3.5 m $\eta = 17.5$	x: 3.5 m $\eta = 15.0$	$M_{tSd} = 0.00$ N.A. ⁽³⁾	PASSA $\eta = 17.5$
N274/N316	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{tSd} = 0.00$ N.A. ⁽⁴⁾	$\eta = 2.0$	x: 0 m $\eta = 15.7$	$M_{Sd} = 0.00$ N.A. ⁽¹⁾	$V_{Sd} = 0.00$ N.A. ⁽⁶⁾	x: 0 m $\eta = 6.7$	x: 0 m $\eta = 2.9$	N.A. ⁽²⁾	x: 0 m $\eta = 17.8$	N.A. ⁽⁵⁾	$M_{tSd} = 0.00$ N.A. ⁽³⁾	PASSA $\eta = 17.8$
N316/N358	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 0.3$	$\eta = 1.9$	x: 0 m $\eta = 15.6$	$M_{Sd} = 0.00$ N.A. ⁽¹⁾	$V_{Sd} = 0.00$ N.A. ⁽⁶⁾	x: 0 m $\eta = 6.7$	x: 0 m $\eta = 2.9$	N.A. ⁽²⁾	x: 0 m $\eta = 17.5$	x: 0 m $\eta = 15.0$	$M_{tSd} = 0.00$ N.A. ⁽³⁾	PASSA $\eta = 17.5$
N358/N148	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{tSd} = 0.00$ N.A. ⁽⁴⁾	$\eta = 2.4$	x: 3.5 m $\eta = 18.8$	$M_{Sd} = 0.00$ N.A. ⁽¹⁾	$V_{Sd} = 0.00$ N.A. ⁽⁶⁾	x: 3.5 m $\eta = 6.8$	x: 3.5 m $\eta = 4.0$	N.A. ⁽²⁾	x: 3.5 m $\eta = 21.1$	N.A. ⁽⁵⁾	$M_{tSd} = 0.00$ N.A. ⁽³⁾	PASSA $\eta = 21.1$
N148/N46	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 0.7$	$\eta = 4.5$	x: 0 m $\eta = 19.3$	$M_{Sd} = 0.00$ N.A. ⁽¹⁾	$V_{Sd} = 0.00$ N.A. ⁽⁶⁾	x: 0 m $\eta = 8.4$	x: 0 m $\eta = 4.4$	N.A. ⁽²⁾	x: 0 m $\eta = 23.9$	x: 0 m $\eta = 18.9$	$M_{tSd} = 0.00$ N.A. ⁽³⁾	PASSA $\eta = 23.9$
N6/N108	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 0.6$	$\eta = 5.2$	x: 3.875 m $\eta = 10.9$	$M_{Sd} = 0.00$ N.A. ⁽¹⁾	x: 0 m $\eta = 0.4$	x: 3.875 m $\eta = 4.1$	x: 3.875 m $\eta = 1.4$	N.A. ⁽²⁾	x: 3.875 m $\eta = 16.9$	x: 3.875 m $\eta = 13.5$	$M_{tSd} = 0.00$ N.A. ⁽³⁾	PASSA $\eta = 16.9$
N108/N192	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 0.1$	$\eta = 0.8$	x: 0 m $\eta = 8.5$	$M_{Sd} = 0.00$ N.A. ⁽¹⁾	x: 3.5 m $\eta = 0.4$	x: 0 m $\eta = 3.5$	x: 0 m $\eta = 0.9$	N.A. ⁽²⁾	x: 0 m $\eta = 9.3$	x: 0 m $\eta = 10.8$	$M_{tSd} = 0.00$ N.A. ⁽³⁾	PASSA $\eta = 10.8$
N192/N234	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{tSd} = 0.00$ N.A. ⁽⁴⁾	$\eta = 1.5$	x: 3.5 m $\eta = 8.3$	$M_{Sd} = 0.00$ N.A. ⁽¹⁾	x: 0 m $\eta = 0.4$	x: 3.5 m $\eta = 3.5$	x: 3.5 m $\eta = 0.8$	N.A. ⁽²⁾	x: 0 m $\eta = 11.3$	N.A. ⁽⁵⁾	$M_{tSd} = 0.00$ N.A. ⁽³⁾	PASSA $\eta = 11.3$
N234/N276	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 0.1$	$\eta = 0.7$	x: 3.5 m $\eta = 8.2$	$M_{Sd} = 0.00$ N.A. ⁽¹⁾	x: 0 m $\eta = 0.4$	x: 3.5 m $\eta = 3.5$	x: 3.5 m $\eta = 0.8$	N.A. ⁽²⁾	x: 3.5 m $\eta = 9.0$	x: 0 m $\eta = 10.7$	$M_{tSd} = 0.00$ N.A. ⁽³⁾	PASSA $\eta = 10.7$
N276/N318	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{tSd} = 0.00$ N.A. ⁽⁴⁾	$\eta = 1.5$	x: 0 m $\eta = 8.3$	$M_{Sd} = 0.00$ N.A. ⁽¹⁾	x: 3.5 m $\eta = 0.4$	x: 0 m $\eta = 3.5$	x: 0 m $\eta = 0.8$	N.A. ⁽²⁾	x: 3.5 m $\eta = 11.2$	N.A. ⁽⁵⁾	$M_{tSd} = 0.00$ N.A. ⁽³⁾	PASSA $\eta = 11.2$
N318/N360	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 0.1$	$\eta = 0.8$	x: 0 m $\eta = 8.3$	$M_{Sd} = 0.00$ N.A. ⁽¹⁾	x: 3.5 m $\eta = 0.4$	x: 0 m $\eta = 3.5$	x: 0 m $\eta = 0.8$	N.A. ⁽²⁾	x: 0 m $\eta = 9.1$	x: 3.5 m $\eta = 10.8$	$M_{tSd} = 0.00$ N.A. ⁽³⁾	PASSA $\eta = 10.8$
N360/N150	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{tSd} = 0.00$ N.A. ⁽⁴⁾	$\eta = 1.6$	x: 3.5 m $\eta = 8.6$	$M_{Sd} = 0.00$ N.A. ⁽¹⁾	x: 0 m $\eta = 0.4$	x: 3.5 m $\eta = 3.5$	x: 3.5 m $\eta = 0.9$	N.A. ⁽²⁾	x: 3.5 m $\eta = 11.3$	N.A. ⁽⁵⁾	$M_{tSd} = 0.00$ N.A. ⁽³⁾	PASSA $\eta = 11.3$
N150/N48	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 0.8$	$\eta = 4.3$	x: 0 m $\eta = 10.8$	$M_{Sd} = 0.00$ N.A. ⁽¹⁾	x: 3.875 m $\eta = 0.4$	x: 0 m $\eta = 4.0$	x: 0 m $\eta = 1.3$	N.A. ⁽²⁾	x: 0 m $\eta = 15.9$	x: 0 m $\eta = 13.6$	$M_{tSd} = 0.00$ N.A. ⁽³⁾	PASSA $\eta = 15.9$
N35/N110	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 1.2$	$\eta = 6.6$	x: 3.875 m $\eta = 21.0$	x: 3.875 m $\eta = 8.6$	x: 3.875 m $\eta = 0.8$	x: 3.875 m $\eta = 8.2$	x: 3.875 m $\eta = 5.1$	x: 3.875 m $\eta = 0.8$	x: 3.875 m $\eta = 27.5$	x: 3.875 m $\eta = 29.6$	$M_{tSd} = 0.00$ N.A. ⁽³⁾	PASSA $\eta = 29.6$
N110/N194	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 0.4$	$\eta = 2.0$	x: 0 m $\eta = 18.0$	$M_{Sd} = 0.00$ N.A. ⁽¹⁾	x: 0 m $\eta = 0.7$	x: 0 m $\eta = 6.8$	x: 0 m $\eta = 3.7$	N.A. ⁽²⁾	x: 0 m $\eta = 20.2$	x: 0 m $\eta = 25.1$	$M_{tSd} = 0.00$ N.A. ⁽³⁾	PASSA $\eta = 25.1$
N194/N236	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 0.3$	$\eta = 1.5$	x: 3.5 m $\eta = 15.8$	$M_{Sd} = 0.00$ N.A. ⁽¹⁾	x: 0 m $\eta = 0.7$	x: 3.5 m $\eta = 6.7$	x: 3.5 m $\eta = 3.0$	N.A. ⁽²⁾	x: 3.5 m $\eta = 17.3$	x: 3.5 m $\eta = 22.3$	$M_{tSd} = 0.00$ N.A. ⁽³⁾	PASSA $\eta = 22.3$
N236/N278	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 0.3$	$\eta = 1.1$	x: 3.5 m $\eta = 15.7$	$M_{Sd} = 0.00$ N.A. ⁽¹⁾	x: 0 m $\eta = 0.7$	x: 3.5 m $\eta = 6.6$	x: 3.5 m $\eta = 2.9$	N.A. ⁽²⁾	x: 3.5 m $\eta = 16.8$	x: 0 m $\eta = 22.2$	$M_{tSd} = 0.00$ N.A. ⁽³⁾	PASSA $\eta = 22.2$
N278/N320	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 0.3$	$\eta = 1.1$	x: 0 m $\eta = 15.7$	$M_{Sd} = 0.00$ N.A. ⁽¹⁾	x: 3.5 m $\eta = 0.7$	x: 0 m $\eta = 6.6$	x: 0 m $\eta = 2.9$	N.A. ⁽²⁾	x: 0 m $\eta = 16.8$	x: 0 m $\eta = 22.2$	$M_{tSd} = 0.00$ N.A. ⁽³⁾	PASSA $\eta = 22.2$
N320/N362	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 0.3$	$\eta = 1.5$	x: 0 m $\eta = 15.8$	$M_{Sd} = 0.00$ N.A. ⁽¹⁾	x: 3.5 m $\eta = 0.7$	x: 0 m $\eta = 6.7$	x: 0 m $\eta = 2.9$	N.A. ⁽²⁾	x: 0 m $\eta = 17.3$	x: 0 m $\eta = 22.3$	$M_{tSd} = 0.00$ N.A. ⁽³⁾	PASSA $\eta = 22.3$
N362/N152	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 0.4$	$\eta = 2.0$	x: 3.5 m $\eta = 18.1$	$M_{Sd} = 0.00$ N.A. ⁽¹⁾	x: 3.5 m $\eta = 0.7$	x: 3.5 m $\eta = 6.8$	x: 3.5 m $\eta = 3.7$	N.A. ⁽²⁾	x: 3.5 m $\eta = 20.2$	x: 3.5 m $\eta = 25.1$	$M_{tSd} = 0.00$ N.A. ⁽³⁾	PASSA $\eta = 25.1$



Barras	VERIFICAÇÕES (ABNT NBR 14762:2010)													Estado
	b/t	λ	N_t	N_c	M_x	M_y	V_x	V_y	$M_x V_y$	$M_y V_x$	$N_x M_x M_y$	$N_y M_y M_x$	M_t	
N152/N77	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 1.2$	$\eta = 6.6$	x: 0 m $\eta = 21.0$	x: 0 m $\eta = 8.7$	x: 0 m $\eta = 0.8$	x: 0 m $\eta = 8.2$	x: 0 m $\eta = 5.1$	x: 0 m $\eta = 0.8$	x: 0 m $\eta = 27.5$	x: 0 m $\eta = 29.7$	$M_{t, Sd} = 0.00$ N.A. ⁽³⁾	PASSA $\eta = 29.7$
N37/N112	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta < 0.1$	$\eta = 0.2$	x: 3.875 m $\eta = 20.3$	x: 3.875 m $\eta = 9.1$	x: 3.875 m $\eta = 0.8$	x: 3.875 m $\eta = 8.4$	x: 3.875 m $\eta = 4.8$	x: 3.875 m $\eta = 0.8$	x: 3.875 m $\eta = 28.4$	x: 3.875 m $\eta = 20.3$	$M_{t, Sd} = 0.00$ N.A. ⁽³⁾	PASSA $\eta = 28.4$
N112/N196	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 0.1$	$\eta = 0.6$	x: 0 m $\eta = 19.2$	$M_{Sd} = 0.00$ N.A. ⁽¹⁾	x: 3.5 m $\eta = 0.7$	x: 0 m $\eta = 6.9$	x: 0 m $\eta = 4.2$	N.A. ⁽²⁾	x: 0 m $\eta = 19.8$	x: 0 m $\eta = 25.4$	$M_{t, Sd} = 0.00$ N.A. ⁽³⁾	PASSA $\eta = 25.4$
N196/N238	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 0.2$	$\eta = 0.7$	x: 3.5 m $\eta = 15.7$	$M_{Sd} = 0.00$ N.A. ⁽¹⁾	x: 3.5 m $\eta = 0.7$	x: 3.5 m $\eta = 6.7$	x: 3.5 m $\eta = 2.9$	N.A. ⁽²⁾	x: 3.5 m $\eta = 16.4$	x: 3.5 m $\eta = 22.2$	$M_{t, Sd} = 0.00$ N.A. ⁽³⁾	PASSA $\eta = 22.2$
N238/N280	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 0.2$	$\eta = 0.7$	x: 3.5 m $\eta = 15.7$	$M_{Sd} = 0.00$ N.A. ⁽¹⁾	x: 3.5 m $\eta = 0.7$	x: 3.5 m $\eta = 6.6$	x: 3.5 m $\eta = 2.9$	N.A. ⁽²⁾	x: 3.5 m $\eta = 16.4$	x: 3.5 m $\eta = 22.1$	$M_{t, Sd} = 0.00$ N.A. ⁽³⁾	PASSA $\eta = 22.1$
N280/N322	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 0.2$	$\eta = 0.7$	x: 0 m $\eta = 15.7$	$M_{Sd} = 0.00$ N.A. ⁽¹⁾	x: 0 m $\eta = 0.7$	x: 0 m $\eta = 6.6$	x: 0 m $\eta = 2.9$	N.A. ⁽²⁾	x: 0 m $\eta = 16.4$	x: 0 m $\eta = 22.1$	$M_{t, Sd} = 0.00$ N.A. ⁽³⁾	PASSA $\eta = 22.1$
N322/N364	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 0.1$	$\eta = 0.7$	x: 0 m $\eta = 15.7$	$M_{Sd} = 0.00$ N.A. ⁽¹⁾	x: 0 m $\eta = 0.7$	x: 0 m $\eta = 6.7$	x: 0 m $\eta = 2.9$	N.A. ⁽²⁾	x: 0 m $\eta = 16.4$	x: 0 m $\eta = 22.3$	$M_{t, Sd} = 0.00$ N.A. ⁽³⁾	PASSA $\eta = 22.3$
N364/N154	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 0.1$	$\eta = 0.6$	x: 3.5 m $\eta = 19.3$	$M_{Sd} = 0.00$ N.A. ⁽¹⁾	x: 0 m $\eta = 0.7$	x: 3.5 m $\eta = 6.9$	x: 3.5 m $\eta = 4.2$	N.A. ⁽²⁾	x: 3.5 m $\eta = 19.9$	x: 3.5 m $\eta = 25.4$	$M_{t, Sd} = 0.00$ N.A. ⁽³⁾	PASSA $\eta = 25.4$
N154/N79	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta < 0.1$	$\eta = 0.2$	x: 0 m $\eta = 20.3$	x: 0 m $\eta = 9.1$	x: 0 m $\eta = 0.8$	x: 0 m $\eta = 8.4$	x: 0 m $\eta = 4.8$	x: 0 m $\eta = 0.8$	x: 0 m $\eta = 28.5$	x: 0 m $\eta = 20.4$	$M_{t, Sd} = 0.00$ N.A. ⁽³⁾	PASSA $\eta = 28.5$
N39/N114	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 0.1$	$\eta = 0.5$	x: 3.875 m $\eta = 19.8$	x: 3.875 m $\eta = 9.1$	x: 3.875 m $\eta = 0.8$	x: 3.875 m $\eta = 8.5$	x: 3.875 m $\eta = 4.6$	x: 3.875 m $\eta = 0.8$	x: 3.875 m $\eta = 28.2$	x: 3.875 m $\eta = 19.9$	$M_{t, Sd} = 0.00$ N.A. ⁽³⁾	PASSA $\eta = 28.2$
N114/N198	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 0.1$	$\eta = 0.5$	x: 0 m $\eta = 19.4$	$M_{Sd} = 0.00$ N.A. ⁽¹⁾	x: 0 m $\eta = 0.7$	x: 0 m $\eta = 6.9$	x: 0 m $\eta = 4.3$	N.A. ⁽²⁾	x: 0 m $\eta = 26.2$	x: 0 m $\eta = 19.6$	$M_{t, Sd} = 0.00$ N.A. ⁽³⁾	PASSA $\eta = 26.2$
N198/N240	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 0.1$	$\eta = 0.4$	x: 3.5 m $\eta = 15.6$	$M_{Sd} = 0.00$ N.A. ⁽¹⁾	x: 3.5 m $\eta = 0.7$	x: 3.5 m $\eta = 6.7$	x: 3.5 m $\eta = 2.9$	N.A. ⁽²⁾	x: 3.5 m $\eta = 22.4$	x: 3.5 m $\eta = 15.7$	$M_{t, Sd} = 0.00$ N.A. ⁽³⁾	PASSA $\eta = 22.4$
N240/N282	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 0.1$	$\eta = 0.4$	x: 3.5 m $\eta = 15.7$	$M_{Sd} = 0.00$ N.A. ⁽¹⁾	x: 3.5 m $\eta = 0.7$	x: 3.5 m $\eta = 6.6$	x: 3.5 m $\eta = 2.9$	N.A. ⁽²⁾	x: 3.5 m $\eta = 22.3$	x: 3.5 m $\eta = 15.8$	$M_{t, Sd} = 0.00$ N.A. ⁽³⁾	PASSA $\eta = 22.3$
N282/N324	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 0.1$	$\eta = 0.4$	x: 0 m $\eta = 15.7$	$M_{Sd} = 0.00$ N.A. ⁽¹⁾	x: 0 m $\eta = 0.7$	x: 0 m $\eta = 6.6$	x: 0 m $\eta = 2.9$	N.A. ⁽²⁾	x: 0 m $\eta = 22.4$	x: 0 m $\eta = 15.8$	$M_{t, Sd} = 0.00$ N.A. ⁽³⁾	PASSA $\eta = 22.4$
N324/N366	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 0.1$	$\eta = 0.5$	x: 0 m $\eta = 15.6$	$M_{Sd} = 0.00$ N.A. ⁽¹⁾	x: 0 m $\eta = 0.7$	x: 0 m $\eta = 6.7$	x: 0 m $\eta = 2.9$	N.A. ⁽²⁾	x: 0 m $\eta = 22.5$	x: 0 m $\eta = 15.7$	$M_{t, Sd} = 0.00$ N.A. ⁽³⁾	PASSA $\eta = 22.5$
N366/N156	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 0.1$	$\eta = 0.5$	x: 3.5 m $\eta = 19.5$	$M_{Sd} = 0.00$ N.A. ⁽¹⁾	x: 0 m $\eta = 0.7$	x: 3.5 m $\eta = 6.9$	x: 3.5 m $\eta = 4.3$	N.A. ⁽²⁾	x: 3.5 m $\eta = 26.1$	x: 3.5 m $\eta = 19.6$	$M_{t, Sd} = 0.00$ N.A. ⁽³⁾	PASSA $\eta = 26.1$
N156/N81	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 0.1$	$\eta = 0.5$	x: 0 m $\eta = 19.9$	x: 0 m $\eta = 9.1$	x: 0 m $\eta = 0.8$	x: 0 m $\eta = 8.5$	x: 0 m $\eta = 4.7$	x: 0 m $\eta = 0.8$	x: 0 m $\eta = 28.3$	x: 0 m $\eta = 20.0$	$M_{t, Sd} = 0.00$ N.A. ⁽³⁾	PASSA $\eta = 28.3$
N41/N116	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 0.5$	$\eta = 2.5$	x: 3.875 m $\eta = 19.5$	x: 3.875 m $\eta = 9.1$	x: 3.875 m $\eta = 0.8$	x: 3.875 m $\eta = 8.5$	x: 3.875 m $\eta = 4.5$	x: 3.875 m $\eta = 0.8$	x: 3.875 m $\eta = 30.0$	x: 1.695 m $\eta = 20.2$	$M_{t, Sd} = 0.00$ N.A. ⁽³⁾	PASSA $\eta = 30.0$
N116/N200	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 0.2$	$\eta = 0.9$	x: 0 m $\eta = 19.4$	$M_{Sd} = 0.00$ N.A. ⁽¹⁾	x: 0 m $\eta = 0.7$	x: 0 m $\eta = 6.9$	x: 0 m $\eta = 4.3$	N.A. ⁽²⁾	x: 0 m $\eta = 26.9$	x: 0 m $\eta = 20.1$	$M_{t, Sd} = 0.00$ N.A. ⁽³⁾	PASSA $\eta = 26.9$
N200/N242	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 0.2$	$\eta = 0.8$	x: 3.5 m $\eta = 15.6$	$M_{Sd} = 0.00$ N.A. ⁽¹⁾	x: 0 m $\eta = 0.7$	x: 3.5 m $\eta = 6.6$	x: 3.5 m $\eta = 2.9$	N.A. ⁽²⁾	x: 3.5 m $\eta = 22.6$	x: 3.5 m $\eta = 15.8$	$M_{t, Sd} = 0.00$ N.A. ⁽³⁾	PASSA $\eta = 22.6$
N242/N284	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 0.1$	$\eta = 0.7$	x: 3.5 m $\eta = 15.7$	$M_{Sd} = 0.00$ N.A. ⁽¹⁾	x: 0 m $\eta = 0.7$	x: 3.5 m $\eta = 6.6$	x: 3.5 m $\eta = 2.9$	N.A. ⁽²⁾	x: 3.5 m $\eta = 22.6$	x: 3.5 m $\eta = 15.8$	$M_{t, Sd} = 0.00$ N.A. ⁽³⁾	PASSA $\eta = 22.6$
N284/N326	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 0.2$	$\eta = 0.8$	x: 0 m $\eta = 15.7$	$M_{Sd} = 0.00$ N.A. ⁽¹⁾	x: 0 m $\eta = 0.7$	x: 0 m $\eta = 6.6$	x: 0 m $\eta = 2.9$	N.A. ⁽²⁾	x: 0 m $\eta = 22.7$	x: 0 m $\eta = 15.9$	$M_{t, Sd} = 0.00$ N.A. ⁽³⁾	PASSA $\eta = 22.7$
N326/N368	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 0.2$	$\eta = 0.8$	x: 0 m $\eta = 15.6$	$M_{Sd} = 0.00$ N.A. ⁽¹⁾	x: 0 m $\eta = 0.7$	x: 0 m $\eta = 6.6$	x: 0 m $\eta = 2.9$	N.A. ⁽²⁾	x: 0 m $\eta = 22.6$	x: 0 m $\eta = 15.8$	$M_{t, Sd} = 0.00$ N.A. ⁽³⁾	PASSA $\eta = 22.6$
N368/N158	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 0.2$	$\eta = 1.0$	x: 3.5 m $\eta = 19.5$	$M_{Sd} = 0.00$ N.A. ⁽¹⁾	x: 3.5 m $\eta = 0.7$	x: 3.5 m $\eta = 6.9$	x: 3.5 m $\eta = 4.3$	N.A. ⁽²⁾	x: 3.5 m $\eta = 27.1$	x: 3.5 m $\eta = 19.9$	$M_{t, Sd} = 0.00$ N.A. ⁽³⁾	PASSA $\eta = 27.1$
N158/N83	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 0.4$	$\eta = 2.4$	x: 0 m $\eta = 19.5$	x: 0 m $\eta = 9.2$	x: 0 m $\eta = 0.8$	x: 0 m $\eta = 8.5$	x: 0 m $\eta = 4.5$	x: 0 m $\eta = 0.9$	x: 0 m $\eta = 30.0$	x: 2.18 m $\eta = 20.1$	$M_{t, Sd} = 0.00$ N.A. ⁽³⁾	PASSA $\eta = 30.0$



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Barras	VERIFICAÇÕES (ABNT NBR 14762:2010)													Estado
	b/t	λ	N _t	N _c	M _x	M _y	V _x	V _y	M _x V _y	M _y V _x	N _c M _x M _y	N _c M _y M _y	M _t	
<p>Notação:</p> <p>b/t: Valores máximos da relação comprimento-espessura</p> <p>λ: Limitação de esbeltez</p> <p>N_t: Resistência à tração</p> <p>N_c: Resistência à compressão</p> <p>M_x: Resistência à flexão eixo X</p> <p>M_y: Resistência à flexão eixo Y</p> <p>V_x: Resistência ao esforço cortante X</p> <p>V_y: Resistência ao esforço cortante Y</p> <p>M_xV_y: Resistência ao momento fletor X e esforço cortante Y combinados</p> <p>M_yV_x: Resistência ao momento fletor Y e esforço cortante X combinados</p> <p>N_cM_x: Resistência à flexo-compressão</p> <p>N_cM_y: Resistência à flexo-tração</p> <p>M_t: Resistência à torção</p> <p>x: Distância à origem da barra</p> <p>η: Coeficiente de aproveitamento (%)</p> <p>N.A.: Não aplicável</p>														
<p>Verificações desnecessárias para o tipo de perfil (N.A.):</p> <p>⁽¹⁾ A verificação não será executada, já que não existe momento fletor.</p> <p>⁽²⁾ Não há interação entre o momento fletor e o esforço cortante para nenhuma combinação. Assim a verificação não será executada.</p> <p>⁽³⁾ A verificação não é necessária, já que não existe momento torsor.</p> <p>⁽⁴⁾ A verificação não será executada, já que não existe esforço axial de tração.</p> <p>⁽⁵⁾ Não há interação entre o esforço axial de tração e o momento fletor para nenhuma combinação. Assim a verificação não será executada.</p> <p>⁽⁶⁾ A verificação não será executada, já que não existe esforço cortante.</p>														