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Memória de Cálculo
Cobertura 03

Cliente: Instituto de Gestão Estratégica de Saúde do Distrito Federal

Endereço: AC 102, Conj. A/B/C – Santa Maria – Brasília – DF

Obra: Reforço Estrutural dos Galpões do IGESDF em Santa Maria

ÍNDICE

1.- GEOMETRIA
1.1.- Nós 3
1.2.- Barras 23
1.2.1.- Materiais utilizados 23
1.2.2.- Características mecânicas 23
1.2.3.- Tabela resumo 26
1.2.4.- Quantitativos de superfícies 26

2.- RESULTADOS 26
2.1.- Nós 26
2.1.1.- Reações 26
2.2.- Barras 29
2.2.1.- Verificações E.L.U. (Resumido) 29

1.- GEOMETRIA

1.1.- Nós

Referências:

Δ_x, Δ_y, Δ_z: Deslocamentos prescritos em eixos globais.

θ_x, θ_y, θ_z: Rotações prescritas em eixos globais.

Cada grau de liberdade marca-se com 'X' se estiver restringido e, caso contrário, com '-'.

Nós										
Referência	Coordenadas			Vínculo c/ exterior						Vinculação interna
	X (m)	Y (m)	Z (m)	Δ_x	Δ_y	Δ_z	θ_x	θ_y	θ_z	
N1	-4.740	6.980	0.690	-	-	-	-	-	-	Engastado
N2	-4.740	10.570	0.690	-	-	-	-	-	-	Engastado
N5	-4.740	6.980	1.090	-	-	-	-	-	-	Engastado
N6	-4.740	6.568	1.049	-	-	-	-	-	-	Engastado
N8	-4.740	10.570	1.090	-	-	-	-	-	-	Engastado
N9	-4.740	10.982	1.049	-	-	-	-	-	-	Engastado
N11	-4.740	17.550	0.000	X	X	X	X	X	X	Engastado
N12	-4.740	6.568	0.649	-	-	-	-	-	-	Engastado
N13	-4.740	0.000	0.000	X	X	X	X	X	X	Engastado
N15	-9.280	6.980	0.690	-	-	-	-	-	-	Engastado
N17	-9.280	10.570	0.690	-	-	-	-	-	-	Engastado
N20	-9.280	6.980	1.090	-	-	-	-	-	-	Engastado
N21	-9.280	6.568	1.049	-	-	-	-	-	-	Engastado
N25	-9.280	10.570	1.090	-	-	-	-	-	-	Engastado
N31	-9.280	2.189	0.216	-	-	-	-	-	-	Engastado
N32	-9.280	4.379	0.433	-	-	-	-	-	-	Engastado
N33	-9.280	6.568	0.649	-	-	-	-	-	-	Engastado
N35	-9.280	15.361	0.216	-	-	-	-	-	-	Engastado
N36	-9.280	13.171	0.433	-	-	-	-	-	-	Engastado
N37	-9.280	10.982	0.649	-	-	-	-	-	-	Engastado
N38	-14.240	6.980	0.690	-	-	-	-	-	-	Engastado
N39	-14.240	10.570	0.690	-	-	-	-	-	-	Engastado
N42	-14.240	6.980	1.090	-	-	-	-	-	-	Engastado
N43	-14.240	6.568	1.049	-	-	-	-	-	-	Engastado
N45	-14.240	10.570	1.090	-	-	-	-	-	-	Engastado
N46	-14.240	10.982	1.049	-	-	-	-	-	-	Engastado
N48	-14.240	17.550	0.000	X	X	X	X	X	X	Engastado
N49	-14.240	6.568	0.649	-	-	-	-	-	-	Engastado
N50	-14.240	0.000	0.000	X	X	X	X	X	X	Engastado
N51	-14.240	10.982	0.649	-	-	-	-	-	-	Engastado
N53	-18.660	6.980	0.690	-	-	-	-	-	-	Engastado
N55	-18.660	10.570	0.690	-	-	-	-	-	-	Engastado
N58	-18.660	6.980	1.090	-	-	-	-	-	-	Engastado
N59	-18.660	6.568	1.049	-	-	-	-	-	-	Engastado

Nós										
Referência	Coordenadas			Vínculo c/ exterior						Vinculação interna
	X (m)	Y (m)	Z (m)	Δ_x	Δ_y	Δ_z	θ_x	θ_y	θ_z	
N63	-18.660	10.570	1.090	-	-	-	-	-	-	Engastado
N64	-18.660	10.982	1.049	-	-	-	-	-	-	Engastado
N71	-18.660	6.568	0.649	-	-	-	-	-	-	Engastado
N75	-18.660	10.982	0.649	-	-	-	-	-	-	Engastado
N76	-23.100	6.980	0.690	-	-	-	-	-	-	Engastado
N77	-23.100	10.570	0.690	-	-	-	-	-	-	Engastado
N80	-23.100	6.980	1.090	-	-	-	-	-	-	Engastado
N81	-23.100	6.568	1.049	-	-	-	-	-	-	Engastado
N83	-23.100	10.570	1.090	-	-	-	-	-	-	Engastado
N84	-23.100	10.982	1.049	-	-	-	-	-	-	Engastado
N86	-23.100	17.550	0.000	X	X	X	X	X	X	Engastado
N87	-23.100	6.568	0.649	-	-	-	-	-	-	Engastado
N88	-23.100	0.000	0.000	X	X	X	X	X	X	Engastado
N89	-23.100	10.982	0.649	-	-	-	-	-	-	Engastado
N91	-28.270	6.980	0.690	-	-	-	-	-	-	Engastado
N93	-28.270	10.570	0.690	-	-	-	-	-	-	Engastado
N96	-28.270	6.980	1.090	-	-	-	-	-	-	Engastado
N97	-28.270	6.568	1.049	-	-	-	-	-	-	Engastado
N101	-28.270	10.570	1.090	-	-	-	-	-	-	Engastado
N102	-28.270	10.982	1.049	-	-	-	-	-	-	Engastado
N107	-28.270	2.189	0.216	-	-	-	-	-	-	Engastado
N108	-28.270	4.379	0.433	-	-	-	-	-	-	Engastado
N109	-28.270	6.568	0.649	-	-	-	-	-	-	Engastado
N111	-28.270	15.361	0.216	-	-	-	-	-	-	Engastado
N112	-28.270	13.171	0.433	-	-	-	-	-	-	Engastado
N113	-28.270	10.982	0.649	-	-	-	-	-	-	Engastado
N114	-33.190	6.980	0.690	-	-	-	-	-	-	Engastado
N115	-33.190	10.570	0.690	-	-	-	-	-	-	Engastado
N118	-33.190	6.980	1.090	-	-	-	-	-	-	Engastado
N119	-33.190	6.568	1.049	-	-	-	-	-	-	Engastado
N121	-33.190	10.570	1.090	-	-	-	-	-	-	Engastado
N122	-33.190	10.982	1.049	-	-	-	-	-	-	Engastado
N124	-33.190	17.550	0.000	X	X	X	X	X	X	Engastado
N125	-33.190	6.568	0.649	-	-	-	-	-	-	Engastado
N126	-33.190	0.000	0.000	X	X	X	X	X	X	Engastado
N127	-33.190	10.982	0.649	-	-	-	-	-	-	Engastado
N129	-37.880	6.980	0.690	-	-	-	-	-	-	Engastado
N131	-37.880	10.570	0.690	-	-	-	-	-	-	Engastado
N134	-37.880	6.980	1.090	-	-	-	-	-	-	Engastado
N135	-37.880	6.568	1.049	-	-	-	-	-	-	Engastado
N139	-37.880	10.570	1.090	-	-	-	-	-	-	Engastado
N140	-37.880	10.982	1.049	-	-	-	-	-	-	Engastado
N147	-37.880	6.568	0.649	-	-	-	-	-	-	Engastado
N151	-37.880	10.982	0.649	-	-	-	-	-	-	Engastado
N152	-42.690	6.980	0.690	-	-	-	-	-	-	Engastado

Nós										
Referência	Coordenadas			Vínculo c/ exterior						Vinculação interna
	X (m)	Y (m)	Z (m)	Δ_x	Δ_y	Δ_z	θ_x	θ_y	θ_z	
N153	-42.690	10.570	0.690	-	-	-	-	-	-	Engastado
N156	-42.690	6.980	1.090	-	-	-	-	-	-	Engastado
N157	-42.690	6.568	1.049	-	-	-	-	-	-	Engastado
N159	-42.690	10.570	1.090	-	-	-	-	-	-	Engastado
N160	-42.690	10.982	1.049	-	-	-	-	-	-	Engastado
N162	-42.690	17.550	0.000	X	X	X	X	X	X	Engastado
N163	-42.690	6.568	0.649	-	-	-	-	-	-	Engastado
N164	-42.690	0.000	0.000	X	X	X	X	X	X	Engastado
N165	-42.690	10.982	0.649	-	-	-	-	-	-	Engastado
N167	-47.490	6.980	0.690	-	-	-	-	-	-	Engastado
N169	-47.490	10.570	0.690	-	-	-	-	-	-	Engastado
N172	-47.490	6.980	1.090	-	-	-	-	-	-	Engastado
N173	-47.490	6.568	1.049	-	-	-	-	-	-	Engastado
N177	-47.490	10.570	1.090	-	-	-	-	-	-	Engastado
N178	-47.490	10.982	1.049	-	-	-	-	-	-	Engastado
N185	-47.490	6.568	0.649	-	-	-	-	-	-	Engastado
N189	-47.490	10.982	0.649	-	-	-	-	-	-	Engastado
N190	-52.430	6.980	0.690	-	-	-	-	-	-	Engastado
N191	-52.430	10.570	0.690	-	-	-	-	-	-	Engastado
N194	-52.430	6.980	1.090	-	-	-	-	-	-	Engastado
N195	-52.430	6.568	1.049	-	-	-	-	-	-	Engastado
N197	-52.430	10.570	1.090	-	-	-	-	-	-	Engastado
N198	-52.430	10.982	1.049	-	-	-	-	-	-	Engastado
N200	-52.430	17.550	0.000	X	X	X	X	X	X	Engastado
N201	-52.430	6.568	0.649	-	-	-	-	-	-	Engastado
N202	-52.430	0.000	0.000	X	X	X	X	X	X	Engastado
N203	-52.430	10.982	0.649	-	-	-	-	-	-	Engastado
N204	0.000	6.980	0.690	X	X	X	X	X	X	Engastado
N206	-0.150	6.980	0.690	-	-	-	-	-	-	Engastado
N208	-56.870	6.980	0.690	X	X	X	X	X	X	Engastado
N211	-0.620	6.980	0.690	-	-	-	-	-	-	Engastado
N213	-1.090	6.980	0.690	-	-	-	-	-	-	Engastado
N215	-1.560	6.980	0.690	-	-	-	-	-	-	Engastado
N217	-2.030	6.980	0.690	-	-	-	-	-	-	Engastado
N219	-2.500	6.980	0.690	-	-	-	-	-	-	Engastado
N220	-2.970	6.980	0.690	-	-	-	-	-	-	Engastado
N223	-3.440	6.980	0.690	-	-	-	-	-	-	Engastado
N224	-3.910	6.980	0.690	-	-	-	-	-	-	Engastado
N227	-4.380	6.980	0.690	-	-	-	-	-	-	Engastado
N230	-4.665	6.980	0.690	-	-	-	-	-	-	Engastado
N231	-4.815	6.980	0.690	-	-	-	-	-	-	Engastado
N233	-5.285	6.980	0.690	-	-	-	-	-	-	Engastado
N234	-5.755	6.980	0.690	-	-	-	-	-	-	Engastado
N237	-6.225	6.980	0.690	-	-	-	-	-	-	Engastado
N238	-6.695	6.980	0.690	-	-	-	-	-	-	Engastado

Nós										
Referência	Coordenadas			Vínculo c/ exterior						Vinculação interna
	X (m)	Y (m)	Z (m)	Δ_x	Δ_y	Δ_z	θ_x	θ_y	θ_z	
N241	-7.165	6.980	0.690	-	-	-	-	-	-	Engastado
N242	-7.635	6.980	0.690	-	-	-	-	-	-	Engastado
N245	-8.105	6.980	0.690	-	-	-	-	-	-	Engastado
N246	-8.575	6.980	0.690	-	-	-	-	-	-	Engastado
N249	-9.045	6.980	0.690	-	-	-	-	-	-	Engastado
N251	-9.355	6.980	0.690	-	-	-	-	-	-	Engastado
N253	-9.205	6.980	0.690	-	-	-	-	-	-	Engastado
N255	-9.825	6.980	0.690	-	-	-	-	-	-	Engastado
N256	-10.295	6.980	0.690	-	-	-	-	-	-	Engastado
N259	-10.765	6.980	0.690	-	-	-	-	-	-	Engastado
N260	-11.235	6.980	0.690	-	-	-	-	-	-	Engastado
N263	-11.705	6.980	0.690	-	-	-	-	-	-	Engastado
N264	-12.175	6.980	0.690	-	-	-	-	-	-	Engastado
N267	-12.645	6.980	0.690	-	-	-	-	-	-	Engastado
N268	-13.115	6.980	0.690	-	-	-	-	-	-	Engastado
N271	-13.585	6.980	0.690	-	-	-	-	-	-	Engastado
N273	-14.315	6.980	0.690	-	-	-	-	-	-	Engastado
N275	-14.165	6.980	0.690	-	-	-	-	-	-	Engastado
N277	-18.735	6.980	0.690	-	-	-	-	-	-	Engastado
N279	-18.585	6.980	0.690	-	-	-	-	-	-	Engastado
N281	-23.175	6.980	0.690	-	-	-	-	-	-	Engastado
N283	-23.025	6.980	0.690	-	-	-	-	-	-	Engastado
N285	-28.345	6.980	0.690	-	-	-	-	-	-	Engastado
N287	-28.195	6.980	0.690	-	-	-	-	-	-	Engastado
N289	-33.265	6.980	0.690	-	-	-	-	-	-	Engastado
N291	-33.115	6.980	0.690	-	-	-	-	-	-	Engastado
N293	-37.955	6.980	0.690	-	-	-	-	-	-	Engastado
N295	-37.805	6.980	0.690	-	-	-	-	-	-	Engastado
N297	-42.765	6.980	0.690	-	-	-	-	-	-	Engastado
N299	-42.615	6.980	0.690	-	-	-	-	-	-	Engastado
N301	-47.565	6.980	0.690	-	-	-	-	-	-	Engastado
N303	-47.415	6.980	0.690	-	-	-	-	-	-	Engastado
N305	-52.505	6.980	0.690	-	-	-	-	-	-	Engastado
N307	-52.355	6.980	0.690	-	-	-	-	-	-	Engastado
N309	-14.785	6.980	0.690	-	-	-	-	-	-	Engastado
N310	-15.255	6.980	0.690	-	-	-	-	-	-	Engastado
N313	-15.725	6.980	0.690	-	-	-	-	-	-	Engastado
N314	-16.195	6.980	0.690	-	-	-	-	-	-	Engastado
N317	-16.665	6.980	0.690	-	-	-	-	-	-	Engastado
N318	-17.135	6.980	0.690	-	-	-	-	-	-	Engastado
N321	-17.605	6.980	0.690	-	-	-	-	-	-	Engastado
N322	-18.075	6.980	0.690	-	-	-	-	-	-	Engastado
N325	-19.205	6.980	0.690	-	-	-	-	-	-	Engastado
N326	-19.675	6.980	0.690	-	-	-	-	-	-	Engastado
N329	-20.145	6.980	0.690	-	-	-	-	-	-	Engastado

Nós										
Referência	Coordenadas			Vínculo c/ exterior						Vinculação interna
	X (m)	Y (m)	Z (m)	Δ_x	Δ_y	Δ_z	θ_x	θ_y	θ_z	
N330	-20.615	6.980	0.690	-	-	-	-	-	-	Engastado
N333	-21.085	6.980	0.690	-	-	-	-	-	-	Engastado
N334	-21.555	6.980	0.690	-	-	-	-	-	-	Engastado
N337	-22.025	6.980	0.690	-	-	-	-	-	-	Engastado
N338	-22.495	6.980	0.690	-	-	-	-	-	-	Engastado
N340	-22.965	6.980	0.690	-	-	-	-	-	-	Engastado
N342	-23.645	6.980	0.690	-	-	-	-	-	-	Engastado
N343	-24.115	6.980	0.690	-	-	-	-	-	-	Engastado
N346	-24.585	6.980	0.690	-	-	-	-	-	-	Engastado
N347	-25.055	6.980	0.690	-	-	-	-	-	-	Engastado
N350	-25.525	6.980	0.690	-	-	-	-	-	-	Engastado
N351	-25.995	6.980	0.690	-	-	-	-	-	-	Engastado
N354	-26.465	6.980	0.690	-	-	-	-	-	-	Engastado
N355	-26.935	6.980	0.690	-	-	-	-	-	-	Engastado
N358	-27.405	6.980	0.690	-	-	-	-	-	-	Engastado
N359	-27.875	6.980	0.690	-	-	-	-	-	-	Engastado
N362	-28.815	6.980	0.690	-	-	-	-	-	-	Engastado
N363	-29.285	6.980	0.690	-	-	-	-	-	-	Engastado
N366	-29.755	6.980	0.690	-	-	-	-	-	-	Engastado
N367	-30.225	6.980	0.690	-	-	-	-	-	-	Engastado
N370	-30.695	6.980	0.690	-	-	-	-	-	-	Engastado
N371	-31.165	6.980	0.690	-	-	-	-	-	-	Engastado
N374	-31.635	6.980	0.690	-	-	-	-	-	-	Engastado
N375	-32.105	6.980	0.690	-	-	-	-	-	-	Engastado
N378	-32.575	6.980	0.690	-	-	-	-	-	-	Engastado
N380	-33.735	6.980	0.690	-	-	-	-	-	-	Engastado
N381	-34.205	6.980	0.690	-	-	-	-	-	-	Engastado
N384	-34.675	6.980	0.690	-	-	-	-	-	-	Engastado
N385	-35.145	6.980	0.690	-	-	-	-	-	-	Engastado
N388	-35.615	6.980	0.690	-	-	-	-	-	-	Engastado
N389	-36.085	6.980	0.690	-	-	-	-	-	-	Engastado
N392	-36.555	6.980	0.690	-	-	-	-	-	-	Engastado
N393	-37.025	6.980	0.690	-	-	-	-	-	-	Engastado
N396	-37.495	6.980	0.690	-	-	-	-	-	-	Engastado
N398	-38.425	6.980	0.690	-	-	-	-	-	-	Engastado
N399	-38.895	6.980	0.690	-	-	-	-	-	-	Engastado
N402	-39.365	6.980	0.690	-	-	-	-	-	-	Engastado
N403	-39.835	6.980	0.690	-	-	-	-	-	-	Engastado
N406	-40.305	6.980	0.690	-	-	-	-	-	-	Engastado
N407	-40.775	6.980	0.690	-	-	-	-	-	-	Engastado
N410	-41.245	6.980	0.690	-	-	-	-	-	-	Engastado
N411	-41.715	6.980	0.690	-	-	-	-	-	-	Engastado
N414	-42.185	6.980	0.690	-	-	-	-	-	-	Engastado
N416	-43.235	6.980	0.690	-	-	-	-	-	-	Engastado
N417	-43.705	6.980	0.690	-	-	-	-	-	-	Engastado

Nós										
Referência	Coordenadas			Vínculo c/ exterior						Vinculação interna
	X (m)	Y (m)	Z (m)	Δ_x	Δ_y	Δ_z	θ_x	θ_y	θ_z	
N420	-44.175	6.980	0.690	-	-	-	-	-	-	Engastado
N421	-44.645	6.980	0.690	-	-	-	-	-	-	Engastado
N424	-45.115	6.980	0.690	-	-	-	-	-	-	Engastado
N425	-45.585	6.980	0.690	-	-	-	-	-	-	Engastado
N428	-46.055	6.980	0.690	-	-	-	-	-	-	Engastado
N429	-46.525	6.980	0.690	-	-	-	-	-	-	Engastado
N432	-46.995	6.980	0.690	-	-	-	-	-	-	Engastado
N434	-48.035	6.980	0.690	-	-	-	-	-	-	Engastado
N435	-48.505	6.980	0.690	-	-	-	-	-	-	Engastado
N438	-48.975	6.980	0.690	-	-	-	-	-	-	Engastado
N439	-49.445	6.980	0.690	-	-	-	-	-	-	Engastado
N442	-49.915	6.980	0.690	-	-	-	-	-	-	Engastado
N443	-50.385	6.980	0.690	-	-	-	-	-	-	Engastado
N446	-50.855	6.980	0.690	-	-	-	-	-	-	Engastado
N447	-51.325	6.980	0.690	-	-	-	-	-	-	Engastado
N450	-51.795	6.980	0.690	-	-	-	-	-	-	Engastado
N452	-52.975	6.980	0.690	-	-	-	-	-	-	Engastado
N453	-53.445	6.980	0.690	-	-	-	-	-	-	Engastado
N456	-53.915	6.980	0.690	-	-	-	-	-	-	Engastado
N457	-54.385	6.980	0.690	-	-	-	-	-	-	Engastado
N460	-54.855	6.980	0.690	-	-	-	-	-	-	Engastado
N461	-55.325	6.980	0.690	-	-	-	-	-	-	Engastado
N464	-55.795	6.980	0.690	-	-	-	-	-	-	Engastado
N465	-56.265	6.980	0.690	-	-	-	-	-	-	Engastado
N468	-56.735	6.980	0.690	-	-	-	-	-	-	Engastado
N480	-0.150	10.570	0.690	-	-	-	-	-	-	Engastado
N481	0.000	10.570	0.690	X	X	X	X	X	X	Engastado
N482	-4.665	10.570	0.690	-	-	-	-	-	-	Engastado
N483	-4.380	10.570	0.690	-	-	-	-	-	-	Engastado
N484	-3.910	10.570	0.690	-	-	-	-	-	-	Engastado
N485	-3.440	10.570	0.690	-	-	-	-	-	-	Engastado
N486	-2.970	10.570	0.690	-	-	-	-	-	-	Engastado
N487	-2.500	10.570	0.690	-	-	-	-	-	-	Engastado
N488	-2.030	10.570	0.690	-	-	-	-	-	-	Engastado
N489	-1.560	10.570	0.690	-	-	-	-	-	-	Engastado
N490	-1.090	10.570	0.690	-	-	-	-	-	-	Engastado
N491	-0.620	10.570	0.690	-	-	-	-	-	-	Engastado
N494	-52.505	10.570	0.690	-	-	-	-	-	-	Engastado
N495	-52.975	10.570	0.690	-	-	-	-	-	-	Engastado
N496	-53.445	10.570	0.690	-	-	-	-	-	-	Engastado
N497	-53.915	10.570	0.690	-	-	-	-	-	-	Engastado
N498	-54.385	10.570	0.690	-	-	-	-	-	-	Engastado
N499	-54.855	10.570	0.690	-	-	-	-	-	-	Engastado
N500	-55.325	10.570	0.690	-	-	-	-	-	-	Engastado
N501	-55.795	10.570	0.690	-	-	-	-	-	-	Engastado

Nós										
Referência	Coordenadas			Vínculo c/ exterior						Vinculação interna
	X (m)	Y (m)	Z (m)	Δ_x	Δ_y	Δ_z	θ_x	θ_y	θ_z	
N502	-56.265	10.570	0.690	-	-	-	-	-	-	Engastado
N503	-56.735	10.570	0.690	-	-	-	-	-	-	Engastado
N504	-56.870	10.570	0.690	X	X	X	X	X	X	Engastado
N506	-9.205	10.570	0.690	-	-	-	-	-	-	Engastado
N507	-9.045	10.570	0.690	-	-	-	-	-	-	Engastado
N508	-8.575	10.570	0.690	-	-	-	-	-	-	Engastado
N509	-8.105	10.570	0.690	-	-	-	-	-	-	Engastado
N510	-7.635	10.570	0.690	-	-	-	-	-	-	Engastado
N511	-7.165	10.570	0.690	-	-	-	-	-	-	Engastado
N512	-6.695	10.570	0.690	-	-	-	-	-	-	Engastado
N513	-6.225	10.570	0.690	-	-	-	-	-	-	Engastado
N514	-5.755	10.570	0.690	-	-	-	-	-	-	Engastado
N515	-5.285	10.570	0.690	-	-	-	-	-	-	Engastado
N516	-4.815	10.570	0.690	-	-	-	-	-	-	Engastado
N517	-9.355	10.570	0.690	-	-	-	-	-	-	Engastado
N518	-9.825	10.570	0.690	-	-	-	-	-	-	Engastado
N519	-10.295	10.570	0.690	-	-	-	-	-	-	Engastado
N520	-10.765	10.570	0.690	-	-	-	-	-	-	Engastado
N521	-11.235	10.570	0.690	-	-	-	-	-	-	Engastado
N522	-11.705	10.570	0.690	-	-	-	-	-	-	Engastado
N523	-12.175	10.570	0.690	-	-	-	-	-	-	Engastado
N524	-12.645	10.570	0.690	-	-	-	-	-	-	Engastado
N525	-13.115	10.570	0.690	-	-	-	-	-	-	Engastado
N526	-13.585	10.570	0.690	-	-	-	-	-	-	Engastado
N527	-14.165	10.570	0.690	-	-	-	-	-	-	Engastado
N528	-14.315	10.570	0.690	-	-	-	-	-	-	Engastado
N529	-14.785	10.570	0.690	-	-	-	-	-	-	Engastado
N530	-15.255	10.570	0.690	-	-	-	-	-	-	Engastado
N531	-15.725	10.570	0.690	-	-	-	-	-	-	Engastado
N532	-16.195	10.570	0.690	-	-	-	-	-	-	Engastado
N533	-16.665	10.570	0.690	-	-	-	-	-	-	Engastado
N534	-17.135	10.570	0.690	-	-	-	-	-	-	Engastado
N535	-17.605	10.570	0.690	-	-	-	-	-	-	Engastado
N536	-18.075	10.570	0.690	-	-	-	-	-	-	Engastado
N537	-18.585	10.570	0.690	-	-	-	-	-	-	Engastado
N538	-18.735	10.570	0.690	-	-	-	-	-	-	Engastado
N539	-19.205	10.570	0.690	-	-	-	-	-	-	Engastado
N540	-19.675	10.570	0.690	-	-	-	-	-	-	Engastado
N541	-20.145	10.570	0.690	-	-	-	-	-	-	Engastado
N542	-20.615	10.570	0.690	-	-	-	-	-	-	Engastado
N543	-21.085	10.570	0.690	-	-	-	-	-	-	Engastado
N544	-21.555	10.570	0.690	-	-	-	-	-	-	Engastado
N545	-22.025	10.570	0.690	-	-	-	-	-	-	Engastado
N546	-22.495	10.570	0.690	-	-	-	-	-	-	Engastado
N547	-22.965	10.570	0.690	-	-	-	-	-	-	Engastado

Nós										
Referência	Coordenadas			Vínculo c/ exterior						Vinculação interna
	X (m)	Y (m)	Z (m)	Δ_x	Δ_y	Δ_z	θ_x	θ_y	θ_z	
N548	-23.025	10.570	0.690	-	-	-	-	-	-	Engastado
N549	-23.175	10.570	0.690	-	-	-	-	-	-	Engastado
N550	-23.645	10.570	0.690	-	-	-	-	-	-	Engastado
N551	-24.115	10.570	0.690	-	-	-	-	-	-	Engastado
N552	-24.585	10.570	0.690	-	-	-	-	-	-	Engastado
N553	-25.055	10.570	0.690	-	-	-	-	-	-	Engastado
N554	-25.525	10.570	0.690	-	-	-	-	-	-	Engastado
N555	-25.995	10.570	0.690	-	-	-	-	-	-	Engastado
N556	-26.465	10.570	0.690	-	-	-	-	-	-	Engastado
N557	-26.935	10.570	0.690	-	-	-	-	-	-	Engastado
N558	-27.405	10.570	0.690	-	-	-	-	-	-	Engastado
N559	-28.195	10.570	0.690	-	-	-	-	-	-	Engastado
N560	-27.875	10.570	0.690	-	-	-	-	-	-	Engastado
N561	-28.345	10.570	0.690	-	-	-	-	-	-	Engastado
N562	-28.815	10.570	0.690	-	-	-	-	-	-	Engastado
N563	-29.285	10.570	0.690	-	-	-	-	-	-	Engastado
N564	-29.755	10.570	0.690	-	-	-	-	-	-	Engastado
N565	-30.225	10.570	0.690	-	-	-	-	-	-	Engastado
N566	-30.695	10.570	0.690	-	-	-	-	-	-	Engastado
N567	-31.165	10.570	0.690	-	-	-	-	-	-	Engastado
N568	-31.635	10.570	0.690	-	-	-	-	-	-	Engastado
N569	-32.105	10.570	0.690	-	-	-	-	-	-	Engastado
N570	-32.575	10.570	0.690	-	-	-	-	-	-	Engastado
N571	-33.115	10.570	0.690	-	-	-	-	-	-	Engastado
N572	-33.265	10.570	0.690	-	-	-	-	-	-	Engastado
N573	-33.735	10.570	0.690	-	-	-	-	-	-	Engastado
N574	-34.205	10.570	0.690	-	-	-	-	-	-	Engastado
N575	-34.675	10.570	0.690	-	-	-	-	-	-	Engastado
N576	-35.145	10.570	0.690	-	-	-	-	-	-	Engastado
N577	-35.615	10.570	0.690	-	-	-	-	-	-	Engastado
N578	-36.085	10.570	0.690	-	-	-	-	-	-	Engastado
N579	-36.555	10.570	0.690	-	-	-	-	-	-	Engastado
N580	-37.025	10.570	0.690	-	-	-	-	-	-	Engastado
N581	-37.495	10.570	0.690	-	-	-	-	-	-	Engastado
N582	-37.805	10.570	0.690	-	-	-	-	-	-	Engastado
N583	-37.955	10.570	0.690	-	-	-	-	-	-	Engastado
N584	-42.615	10.570	0.690	-	-	-	-	-	-	Engastado
N585	-42.185	10.570	0.690	-	-	-	-	-	-	Engastado
N586	-41.715	10.570	0.690	-	-	-	-	-	-	Engastado
N587	-41.245	10.570	0.690	-	-	-	-	-	-	Engastado
N588	-40.775	10.570	0.690	-	-	-	-	-	-	Engastado
N589	-40.305	10.570	0.690	-	-	-	-	-	-	Engastado
N590	-39.835	10.570	0.690	-	-	-	-	-	-	Engastado
N591	-39.365	10.570	0.690	-	-	-	-	-	-	Engastado
N592	-38.895	10.570	0.690	-	-	-	-	-	-	Engastado

Nós										
Referência	Coordenadas			Vínculo c/ exterior						Vinculação interna
	X (m)	Y (m)	Z (m)	Δ_x	Δ_y	Δ_z	θ_x	θ_y	θ_z	
N593	-38.425	10.570	0.690	-	-	-	-	-	-	Engastado
N594	-42.765	10.570	0.690	-	-	-	-	-	-	Engastado
N595	-43.235	10.570	0.690	-	-	-	-	-	-	Engastado
N596	-43.705	10.570	0.690	-	-	-	-	-	-	Engastado
N597	-44.175	10.570	0.690	-	-	-	-	-	-	Engastado
N598	-44.645	10.570	0.690	-	-	-	-	-	-	Engastado
N599	-45.115	10.570	0.690	-	-	-	-	-	-	Engastado
N600	-45.585	10.570	0.690	-	-	-	-	-	-	Engastado
N601	-46.055	10.570	0.690	-	-	-	-	-	-	Engastado
N602	-46.525	10.570	0.690	-	-	-	-	-	-	Engastado
N603	-46.995	10.570	0.690	-	-	-	-	-	-	Engastado
N604	-47.415	10.570	0.690	-	-	-	-	-	-	Engastado
N605	-47.565	10.570	0.690	-	-	-	-	-	-	Engastado
N606	-48.035	10.570	0.690	-	-	-	-	-	-	Engastado
N607	-48.505	10.570	0.690	-	-	-	-	-	-	Engastado
N608	-48.975	10.570	0.690	-	-	-	-	-	-	Engastado
N609	-49.445	10.570	0.690	-	-	-	-	-	-	Engastado
N610	-49.915	10.570	0.690	-	-	-	-	-	-	Engastado
N611	-50.385	10.570	0.690	-	-	-	-	-	-	Engastado
N612	-50.855	10.570	0.690	-	-	-	-	-	-	Engastado
N613	-51.325	10.570	0.690	-	-	-	-	-	-	Engastado
N614	-51.795	10.570	0.690	-	-	-	-	-	-	Engastado
N615	-52.355	10.570	0.690	-	-	-	-	-	-	Engastado
N798	-2.370	0.000	0.400	-	-	-	-	-	-	Engastado
N799	-2.370	2.189	0.616	-	-	-	-	-	-	Engastado
N800	-2.370	4.379	0.833	-	-	-	-	-	-	Engastado
N801	-2.370	6.568	1.049	-	-	-	-	-	-	Engastado
N802	-2.370	8.675	1.258	-	-	-	-	-	-	Engastado
N803	-2.370	8.875	1.258	-	-	-	-	-	-	Engastado
N804	-2.370	10.982	1.049	-	-	-	-	-	-	Engastado
N805	-2.370	13.171	0.833	-	-	-	-	-	-	Engastado
N806	-2.370	15.361	0.616	-	-	-	-	-	-	Engastado
N807	-2.370	17.550	0.400	-	-	-	-	-	-	Engastado
N808	-7.010	0.000	0.400	-	-	-	-	-	-	Engastado
N809	-7.010	2.189	0.616	-	-	-	-	-	-	Engastado
N810	-7.010	4.379	0.833	-	-	-	-	-	-	Engastado
N811	-7.010	6.568	1.049	-	-	-	-	-	-	Engastado
N812	-7.010	8.675	1.258	-	-	-	-	-	-	Engastado
N813	-7.010	8.875	1.258	-	-	-	-	-	-	Engastado
N814	-7.010	10.982	1.049	-	-	-	-	-	-	Engastado
N815	-7.010	13.171	0.833	-	-	-	-	-	-	Engastado
N816	-7.010	15.361	0.616	-	-	-	-	-	-	Engastado
N817	-7.010	17.550	0.400	-	-	-	-	-	-	Engastado
N818	-11.760	0.000	0.400	-	-	-	-	-	-	Engastado
N819	-11.760	2.189	0.616	-	-	-	-	-	-	Engastado

Nós										
Referência	Coordenadas			Vínculo c/ exterior						Vinculação interna
	X (m)	Y (m)	Z (m)	Δ_x	Δ_y	Δ_z	θ_x	θ_y	θ_z	
N820	-11.760	4.379	0.833	-	-	-	-	-	-	Engastado
N821	-11.760	6.568	1.049	-	-	-	-	-	-	Engastado
N822	-11.760	8.675	1.258	-	-	-	-	-	-	Engastado
N823	-11.760	8.875	1.258	-	-	-	-	-	-	Engastado
N824	-11.760	10.982	1.049	-	-	-	-	-	-	Engastado
N825	-11.760	13.171	0.833	-	-	-	-	-	-	Engastado
N826	-11.760	15.361	0.616	-	-	-	-	-	-	Engastado
N827	-11.760	17.550	0.400	-	-	-	-	-	-	Engastado
N828	-16.450	0.000	0.400	-	-	-	-	-	-	Engastado
N829	-16.450	2.189	0.616	-	-	-	-	-	-	Engastado
N830	-16.450	4.379	0.833	-	-	-	-	-	-	Engastado
N831	-16.450	6.568	1.049	-	-	-	-	-	-	Engastado
N832	-16.450	8.675	1.258	-	-	-	-	-	-	Engastado
N833	-16.450	8.875	1.258	-	-	-	-	-	-	Engastado
N834	-16.450	10.982	1.049	-	-	-	-	-	-	Engastado
N835	-16.450	13.171	0.833	-	-	-	-	-	-	Engastado
N836	-16.450	15.361	0.616	-	-	-	-	-	-	Engastado
N837	-16.450	17.550	0.400	-	-	-	-	-	-	Engastado
N838	-20.880	0.000	0.400	-	-	-	-	-	-	Engastado
N839	-20.880	2.189	0.616	-	-	-	-	-	-	Engastado
N840	-20.880	4.379	0.833	-	-	-	-	-	-	Engastado
N841	-20.880	6.568	1.049	-	-	-	-	-	-	Engastado
N842	-20.880	8.675	1.258	-	-	-	-	-	-	Engastado
N843	-20.880	8.875	1.258	-	-	-	-	-	-	Engastado
N844	-20.880	10.982	1.049	-	-	-	-	-	-	Engastado
N845	-20.880	13.171	0.833	-	-	-	-	-	-	Engastado
N846	-20.880	15.361	0.616	-	-	-	-	-	-	Engastado
N847	-20.880	17.550	0.400	-	-	-	-	-	-	Engastado
N848	-25.685	0.000	0.400	-	-	-	-	-	-	Engastado
N849	-25.685	2.189	0.616	-	-	-	-	-	-	Engastado
N850	-25.685	4.379	0.833	-	-	-	-	-	-	Engastado
N851	-25.685	6.568	1.049	-	-	-	-	-	-	Engastado
N852	-25.685	8.675	1.258	-	-	-	-	-	-	Engastado
N853	-25.685	8.875	1.258	-	-	-	-	-	-	Engastado
N854	-25.685	10.982	1.049	-	-	-	-	-	-	Engastado
N855	-25.685	13.171	0.833	-	-	-	-	-	-	Engastado
N856	-25.685	15.361	0.616	-	-	-	-	-	-	Engastado
N857	-25.685	17.550	0.400	-	-	-	-	-	-	Engastado
N858	-30.730	0.000	0.400	-	-	-	-	-	-	Engastado
N859	-30.730	2.189	0.616	-	-	-	-	-	-	Engastado
N860	-30.730	4.379	0.833	-	-	-	-	-	-	Engastado
N861	-30.730	6.568	1.049	-	-	-	-	-	-	Engastado
N862	-30.730	8.675	1.258	-	-	-	-	-	-	Engastado
N863	-30.730	8.875	1.258	-	-	-	-	-	-	Engastado
N864	-30.730	10.982	1.049	-	-	-	-	-	-	Engastado

Nós										
Referência	Coordenadas			Vínculo c/ exterior						Vinculação interna
	X (m)	Y (m)	Z (m)	Δ_x	Δ_y	Δ_z	θ_x	θ_y	θ_z	
N865	-30.730	13.171	0.833	-	-	-	-	-	-	Engastado
N866	-30.730	15.361	0.616	-	-	-	-	-	-	Engastado
N867	-30.730	17.550	0.400	-	-	-	-	-	-	Engastado
N868	-35.535	0.000	0.400	-	-	-	-	-	-	Engastado
N869	-35.535	2.189	0.616	-	-	-	-	-	-	Engastado
N870	-35.535	4.379	0.833	-	-	-	-	-	-	Engastado
N871	-35.535	6.568	1.049	-	-	-	-	-	-	Engastado
N872	-35.535	8.675	1.258	-	-	-	-	-	-	Engastado
N873	-35.535	8.875	1.258	-	-	-	-	-	-	Engastado
N874	-35.535	10.982	1.049	-	-	-	-	-	-	Engastado
N875	-35.535	13.171	0.833	-	-	-	-	-	-	Engastado
N876	-35.535	15.361	0.616	-	-	-	-	-	-	Engastado
N877	-35.535	17.550	0.400	-	-	-	-	-	-	Engastado
N878	-40.285	0.000	0.400	-	-	-	-	-	-	Engastado
N879	-40.285	2.189	0.616	-	-	-	-	-	-	Engastado
N880	-40.285	4.379	0.833	-	-	-	-	-	-	Engastado
N881	-40.285	6.568	1.049	-	-	-	-	-	-	Engastado
N882	-40.285	8.675	1.258	-	-	-	-	-	-	Engastado
N883	-40.285	8.875	1.258	-	-	-	-	-	-	Engastado
N884	-40.285	10.982	1.049	-	-	-	-	-	-	Engastado
N885	-40.285	13.171	0.833	-	-	-	-	-	-	Engastado
N886	-40.285	15.361	0.616	-	-	-	-	-	-	Engastado
N887	-40.285	17.550	0.400	-	-	-	-	-	-	Engastado
N888	-45.090	0.000	0.400	-	-	-	-	-	-	Engastado
N889	-45.090	2.189	0.616	-	-	-	-	-	-	Engastado
N890	-45.090	4.379	0.833	-	-	-	-	-	-	Engastado
N891	-45.090	6.568	1.049	-	-	-	-	-	-	Engastado
N892	-45.090	8.675	1.258	-	-	-	-	-	-	Engastado
N893	-45.090	8.875	1.258	-	-	-	-	-	-	Engastado
N894	-45.090	10.982	1.049	-	-	-	-	-	-	Engastado
N895	-45.090	13.171	0.833	-	-	-	-	-	-	Engastado
N896	-45.090	15.361	0.616	-	-	-	-	-	-	Engastado
N897	-45.090	17.550	0.400	-	-	-	-	-	-	Engastado
N898	-49.960	0.000	0.400	-	-	-	-	-	-	Engastado
N899	-49.960	2.189	0.616	-	-	-	-	-	-	Engastado
N900	-49.960	4.379	0.833	-	-	-	-	-	-	Engastado
N901	-49.960	6.568	1.049	-	-	-	-	-	-	Engastado
N902	-49.960	8.675	1.258	-	-	-	-	-	-	Engastado
N903	-49.960	8.875	1.258	-	-	-	-	-	-	Engastado
N904	-49.960	10.982	1.049	-	-	-	-	-	-	Engastado
N905	-49.960	13.171	0.833	-	-	-	-	-	-	Engastado
N906	-49.960	15.361	0.616	-	-	-	-	-	-	Engastado
N907	-49.960	17.550	0.400	-	-	-	-	-	-	Engastado
N908	-54.650	0.000	0.400	-	-	-	-	-	-	Engastado
N909	-54.650	2.189	0.616	-	-	-	-	-	-	Engastado

Nós										
Referência	Coordenadas			Vínculo c/ exterior						Vinculação interna
	X (m)	Y (m)	Z (m)	Δ_x	Δ_y	Δ_z	θ_x	θ_y	θ_z	
N910	-54.650	4.379	0.833	-	-	-	-	-	-	Engastado
N911	-54.650	6.568	1.049	-	-	-	-	-	-	Engastado
N912	-54.650	8.675	1.258	-	-	-	-	-	-	Engastado
N913	-54.650	8.875	1.258	-	-	-	-	-	-	Engastado
N914	-54.650	10.982	1.049	-	-	-	-	-	-	Engastado
N915	-54.650	13.171	0.833	-	-	-	-	-	-	Engastado
N916	-54.650	15.361	0.616	-	-	-	-	-	-	Engastado
N917	-54.650	17.550	0.400	-	-	-	-	-	-	Engastado
N918	-2.370	1.095	0.508	-	-	-	-	-	-	Engastado
N919	0.000	1.095	0.508	X	X	X	X	X	X	Engastado
N920	-7.010	1.095	0.508	-	-	-	-	-	-	Engastado
N921	-9.280	1.095	0.508	-	-	-	-	-	-	Engastado
N922	-11.760	1.095	0.508	-	-	-	-	-	-	Engastado
N923	-16.450	1.095	0.508	-	-	-	-	-	-	Engastado
N924	-18.660	1.095	0.508	-	-	-	-	-	-	Engastado
N925	-20.880	1.095	0.508	-	-	-	-	-	-	Engastado
N926	-25.685	1.095	0.508	-	-	-	-	-	-	Engastado
N927	-28.270	1.095	0.508	-	-	-	-	-	-	Engastado
N928	-30.730	1.095	0.508	-	-	-	-	-	-	Engastado
N929	-35.535	1.095	0.508	-	-	-	-	-	-	Engastado
N930	-37.880	1.095	0.508	-	-	-	-	-	-	Engastado
N931	-40.285	1.095	0.508	-	-	-	-	-	-	Engastado
N932	-45.090	1.095	0.508	-	-	-	-	-	-	Engastado
N933	-47.490	1.095	0.508	-	-	-	-	-	-	Engastado
N934	-49.960	1.095	0.508	-	-	-	-	-	-	Engastado
N935	-54.650	1.095	0.508	-	-	-	-	-	-	Engastado
N936	-56.870	1.095	0.508	X	X	X	X	X	X	Engastado
N937	-2.370	3.284	0.725	-	-	-	-	-	-	Engastado
N938	0.000	3.284	0.725	X	X	X	X	X	X	Engastado
N939	-7.010	3.284	0.725	-	-	-	-	-	-	Engastado
N940	-9.280	3.284	0.725	-	-	-	-	-	-	Engastado
N941	-11.760	3.284	0.725	-	-	-	-	-	-	Engastado
N942	-16.450	3.284	0.725	-	-	-	-	-	-	Engastado
N943	-18.660	3.284	0.725	-	-	-	-	-	-	Engastado
N944	-20.880	3.284	0.725	-	-	-	-	-	-	Engastado
N945	-25.685	3.284	0.725	-	-	-	-	-	-	Engastado
N946	-28.270	3.284	0.725	-	-	-	-	-	-	Engastado
N947	-30.730	3.284	0.725	-	-	-	-	-	-	Engastado
N948	-35.535	3.284	0.725	-	-	-	-	-	-	Engastado
N949	-37.880	3.284	0.725	-	-	-	-	-	-	Engastado
N950	-40.285	3.284	0.725	-	-	-	-	-	-	Engastado
N951	-45.090	3.284	0.725	-	-	-	-	-	-	Engastado
N952	-47.490	3.284	0.725	-	-	-	-	-	-	Engastado
N953	-49.960	3.284	0.725	-	-	-	-	-	-	Engastado
N954	-54.650	3.284	0.725	-	-	-	-	-	-	Engastado

Nós										
Referência	Coordenadas			Vínculo c/ exterior						Vinculação interna
	X (m)	Y (m)	Z (m)	Δ_x	Δ_y	Δ_z	θ_x	θ_y	θ_z	
N955	-56.870	3.284	0.725	X	X	X	X	X	X	Engastado
N956	-2.370	5.473	0.941	-	-	-	-	-	-	Engastado
N957	0.000	5.473	0.941	X	X	X	X	X	X	Engastado
N958	-7.010	5.473	0.941	-	-	-	-	-	-	Engastado
N959	-9.280	5.473	0.941	-	-	-	-	-	-	Engastado
N960	-11.760	5.473	0.941	-	-	-	-	-	-	Engastado
N961	-16.450	5.473	0.941	-	-	-	-	-	-	Engastado
N962	-18.660	5.473	0.941	-	-	-	-	-	-	Engastado
N963	-20.880	5.473	0.941	-	-	-	-	-	-	Engastado
N964	-25.685	5.473	0.941	-	-	-	-	-	-	Engastado
N965	-28.270	5.473	0.941	-	-	-	-	-	-	Engastado
N966	-30.730	5.473	0.941	-	-	-	-	-	-	Engastado
N967	-35.535	5.473	0.941	-	-	-	-	-	-	Engastado
N968	-37.880	5.473	0.941	-	-	-	-	-	-	Engastado
N969	-40.285	5.473	0.941	-	-	-	-	-	-	Engastado
N970	-45.090	5.473	0.941	-	-	-	-	-	-	Engastado
N971	-47.490	5.473	0.941	-	-	-	-	-	-	Engastado
N972	-49.960	5.473	0.941	-	-	-	-	-	-	Engastado
N973	-54.650	5.473	0.941	-	-	-	-	-	-	Engastado
N974	-56.870	5.473	0.941	X	X	X	X	X	X	Engastado
N975	-2.370	7.622	1.153	-	-	-	-	-	-	Engastado
N976	0.000	7.622	1.153	X	X	X	X	X	X	Engastado
N977	-4.740	7.622	1.153	-	-	-	-	-	-	Engastado
N978	-7.010	7.622	1.153	-	-	-	-	-	-	Engastado
N979	-9.280	7.622	1.153	-	-	-	-	-	-	Engastado
N980	-11.760	7.622	1.153	-	-	-	-	-	-	Engastado
N981	-14.240	7.622	1.153	-	-	-	-	-	-	Engastado
N982	-16.450	7.622	1.153	-	-	-	-	-	-	Engastado
N983	-18.660	7.622	1.153	-	-	-	-	-	-	Engastado
N984	-20.880	7.622	1.153	-	-	-	-	-	-	Engastado
N985	-23.100	7.622	1.153	-	-	-	-	-	-	Engastado
N986	-25.685	7.622	1.153	-	-	-	-	-	-	Engastado
N987	-28.270	7.622	1.153	-	-	-	-	-	-	Engastado
N988	-30.730	7.622	1.153	-	-	-	-	-	-	Engastado
N989	-33.190	7.622	1.153	-	-	-	-	-	-	Engastado
N990	-35.535	7.622	1.153	-	-	-	-	-	-	Engastado
N991	-37.880	7.622	1.153	-	-	-	-	-	-	Engastado
N992	-40.285	7.622	1.153	-	-	-	-	-	-	Engastado
N993	-42.690	7.622	1.153	-	-	-	-	-	-	Engastado
N994	-45.090	7.622	1.153	-	-	-	-	-	-	Engastado
N995	-47.490	7.622	1.153	-	-	-	-	-	-	Engastado
N996	-49.960	7.622	1.153	-	-	-	-	-	-	Engastado
N997	-52.430	7.622	1.153	-	-	-	-	-	-	Engastado
N998	-54.650	7.622	1.153	-	-	-	-	-	-	Engastado
N999	-56.870	7.622	1.153	X	X	X	X	X	X	Engastado

Nós										
Referência	Coordenadas			Vínculo c/ exterior						Vinculação interna
	X (m)	Y (m)	Z (m)	Δ_x	Δ_y	Δ_z	θ_x	θ_y	θ_z	
N1000	-54.650	16.455	0.508	-	-	-	-	-	-	Engastado
N1001	-56.870	16.455	0.508	X	X	X	X	X	X	Engastado
N1002	-54.650	14.266	0.725	-	-	-	-	-	-	Engastado
N1003	-56.870	14.266	0.725	X	X	X	X	X	X	Engastado
N1004	-54.650	12.077	0.941	-	-	-	-	-	-	Engastado
N1005	-56.870	12.077	0.941	X	X	X	X	X	X	Engastado
N1006	-52.430	9.928	1.153	-	-	-	-	-	-	Engastado
N1007	-54.650	9.928	1.153	-	-	-	-	-	-	Engastado
N1008	-56.870	9.928	1.153	X	X	X	X	X	X	Engastado
N1009	-47.490	16.455	0.508	-	-	-	-	-	-	Engastado
N1010	-49.960	16.455	0.508	-	-	-	-	-	-	Engastado
N1011	-47.490	14.266	0.725	-	-	-	-	-	-	Engastado
N1012	-49.960	14.266	0.725	-	-	-	-	-	-	Engastado
N1013	-47.490	12.077	0.941	-	-	-	-	-	-	Engastado
N1014	-49.960	12.077	0.941	-	-	-	-	-	-	Engastado
N1015	-47.490	9.928	1.153	-	-	-	-	-	-	Engastado
N1016	-49.960	9.928	1.153	-	-	-	-	-	-	Engastado
N1017	-45.090	16.455	0.508	-	-	-	-	-	-	Engastado
N1018	-45.090	14.266	0.725	-	-	-	-	-	-	Engastado
N1019	-45.090	12.077	0.941	-	-	-	-	-	-	Engastado
N1020	-42.690	9.928	1.153	-	-	-	-	-	-	Engastado
N1021	-45.090	9.928	1.153	-	-	-	-	-	-	Engastado
N1022	-37.880	16.455	0.508	-	-	-	-	-	-	Engastado
N1023	-40.285	16.455	0.508	-	-	-	-	-	-	Engastado
N1024	-37.880	14.266	0.725	-	-	-	-	-	-	Engastado
N1025	-40.285	14.266	0.725	-	-	-	-	-	-	Engastado
N1026	-37.880	12.077	0.941	-	-	-	-	-	-	Engastado
N1027	-40.285	12.077	0.941	-	-	-	-	-	-	Engastado
N1028	-37.880	9.928	1.153	-	-	-	-	-	-	Engastado
N1029	-40.285	9.928	1.153	-	-	-	-	-	-	Engastado
N1030	-35.535	16.455	0.508	-	-	-	-	-	-	Engastado
N1031	-35.535	14.266	0.725	-	-	-	-	-	-	Engastado
N1032	-35.535	12.077	0.941	-	-	-	-	-	-	Engastado
N1033	-33.190	9.928	1.153	-	-	-	-	-	-	Engastado
N1034	-35.535	9.928	1.153	-	-	-	-	-	-	Engastado
N1035	-28.270	16.455	0.508	-	-	-	-	-	-	Engastado
N1036	-30.730	16.455	0.508	-	-	-	-	-	-	Engastado
N1037	-28.270	14.266	0.725	-	-	-	-	-	-	Engastado
N1038	-30.730	14.266	0.725	-	-	-	-	-	-	Engastado
N1039	-28.270	12.077	0.941	-	-	-	-	-	-	Engastado
N1040	-30.730	12.077	0.941	-	-	-	-	-	-	Engastado
N1041	-28.270	9.928	1.153	-	-	-	-	-	-	Engastado
N1042	-30.730	9.928	1.153	-	-	-	-	-	-	Engastado
N1043	-25.685	16.455	0.508	-	-	-	-	-	-	Engastado
N1044	-25.685	14.266	0.725	-	-	-	-	-	-	Engastado

Nós										
Referência	Coordenadas			Vínculo c/ exterior						Vinculação interna
	X (m)	Y (m)	Z (m)	Δ_x	Δ_y	Δ_z	θ_x	θ_y	θ_z	
N1045	-25.685	12.077	0.941	-	-	-	-	-	-	Engastado
N1046	-23.100	9.928	1.153	-	-	-	-	-	-	Engastado
N1047	-25.685	9.928	1.153	-	-	-	-	-	-	Engastado
N1048	-18.660	16.455	0.508	-	-	-	-	-	-	Engastado
N1049	-20.880	16.455	0.508	-	-	-	-	-	-	Engastado
N1050	-18.660	14.266	0.725	-	-	-	-	-	-	Engastado
N1051	-20.880	14.266	0.725	-	-	-	-	-	-	Engastado
N1052	-18.660	12.077	0.941	-	-	-	-	-	-	Engastado
N1053	-20.880	12.077	0.941	-	-	-	-	-	-	Engastado
N1054	-18.660	9.928	1.153	-	-	-	-	-	-	Engastado
N1055	-20.880	9.928	1.153	-	-	-	-	-	-	Engastado
N1056	-16.450	16.455	0.508	-	-	-	-	-	-	Engastado
N1057	-16.450	14.266	0.725	-	-	-	-	-	-	Engastado
N1058	-16.450	12.077	0.941	-	-	-	-	-	-	Engastado
N1059	-14.240	9.928	1.153	-	-	-	-	-	-	Engastado
N1060	-16.450	9.928	1.153	-	-	-	-	-	-	Engastado
N1061	-9.280	16.455	0.508	-	-	-	-	-	-	Engastado
N1062	-11.760	16.455	0.508	-	-	-	-	-	-	Engastado
N1063	-9.280	14.266	0.725	-	-	-	-	-	-	Engastado
N1064	-11.760	14.266	0.725	-	-	-	-	-	-	Engastado
N1065	-9.280	12.077	0.941	-	-	-	-	-	-	Engastado
N1066	-11.760	12.077	0.941	-	-	-	-	-	-	Engastado
N1067	-9.280	9.928	1.153	-	-	-	-	-	-	Engastado
N1068	-11.760	9.928	1.153	-	-	-	-	-	-	Engastado
N1069	-7.010	16.455	0.508	-	-	-	-	-	-	Engastado
N1070	-7.010	14.266	0.725	-	-	-	-	-	-	Engastado
N1071	-7.010	12.077	0.941	-	-	-	-	-	-	Engastado
N1072	-4.740	9.928	1.153	-	-	-	-	-	-	Engastado
N1073	-7.010	9.928	1.153	-	-	-	-	-	-	Engastado
N1074	-2.370	16.455	0.508	-	-	-	-	-	-	Engastado
N1075	0.000	16.455	0.508	X	X	X	X	X	X	Engastado
N1076	-2.370	14.266	0.725	-	-	-	-	-	-	Engastado
N1077	0.000	14.266	0.725	X	X	X	X	X	X	Engastado
N1078	-2.370	12.077	0.941	-	-	-	-	-	-	Engastado
N1079	0.000	12.077	0.941	X	X	X	X	X	X	Engastado
N1080	-2.370	9.928	1.153	-	-	-	-	-	-	Engastado
N1081	0.000	9.928	1.153	X	X	X	X	X	X	Engastado
N1174	-28.270	1.095	0.108	-	-	-	-	-	-	Engastado
N1179	-28.270	3.284	0.325	-	-	-	-	-	-	Engastado
N1184	-28.270	5.473	0.541	-	-	-	-	-	-	Engastado
N1187	-28.270	7.622	0.753	-	-	-	-	-	-	Engastado
N1191	-28.270	16.455	0.108	-	-	-	-	-	-	Engastado
N1197	-28.270	14.266	0.325	-	-	-	-	-	-	Engastado
N1202	-28.270	12.077	0.541	-	-	-	-	-	-	Engastado
N1205	-28.270	9.928	0.753	-	-	-	-	-	-	Engastado

Nós										
Referência	Coordenadas			Vínculo c/ exterior						Vinculação interna
	X (m)	Y (m)	Z (m)	Δ_x	Δ_y	Δ_z	θ_x	θ_y	θ_z	
N1208	-23.100	7.622	0.753	-	-	-	-	-	-	Engastado
N1211	-23.100	9.928	0.753	-	-	-	-	-	-	Engastado
N1250	-14.240	7.622	0.753	-	-	-	-	-	-	Engastado
N1253	-14.240	9.928	0.753	-	-	-	-	-	-	Engastado
N1258	-9.280	1.095	0.108	-	-	-	-	-	-	Engastado
N1263	-9.280	3.284	0.325	-	-	-	-	-	-	Engastado
N1268	-9.280	5.473	0.541	-	-	-	-	-	-	Engastado
N1271	-9.280	7.622	0.753	-	-	-	-	-	-	Engastado
N1275	-9.280	16.455	0.108	-	-	-	-	-	-	Engastado
N1281	-9.280	14.266	0.325	-	-	-	-	-	-	Engastado
N1286	-9.280	12.077	0.541	-	-	-	-	-	-	Engastado
N1289	-9.280	9.928	0.753	-	-	-	-	-	-	Engastado
N1294	-8.880	1.095	0.508	-	-	-	-	-	-	Engastado
N1295	-9.680	1.095	0.508	-	-	-	-	-	-	Engastado
N1296	-8.880	2.189	0.616	-	-	-	-	-	-	Engastado
N1297	-9.680	2.189	0.616	-	-	-	-	-	-	Engastado
N1298	-8.880	3.284	0.725	-	-	-	-	-	-	Engastado
N1299	-9.680	3.284	0.725	-	-	-	-	-	-	Engastado
N1300	-8.880	4.379	0.833	-	-	-	-	-	-	Engastado
N1301	-9.680	4.379	0.833	-	-	-	-	-	-	Engastado
N1302	-8.880	5.473	0.941	-	-	-	-	-	-	Engastado
N1303	-9.680	5.473	0.941	-	-	-	-	-	-	Engastado
N1304	-8.880	6.568	1.049	-	-	-	-	-	-	Engastado
N1305	-9.680	6.568	1.049	-	-	-	-	-	-	Engastado
N1306	-8.880	7.622	1.153	-	-	-	-	-	-	Engastado
N1307	-9.680	7.622	1.153	-	-	-	-	-	-	Engastado
N1308	-8.880	9.928	1.153	-	-	-	-	-	-	Engastado
N1309	-9.680	9.928	1.153	-	-	-	-	-	-	Engastado
N1310	-9.680	10.982	1.049	-	-	-	-	-	-	Engastado
N1311	-8.880	10.982	1.049	-	-	-	-	-	-	Engastado
N1312	-9.680	12.077	0.941	-	-	-	-	-	-	Engastado
N1313	-8.880	12.077	0.941	-	-	-	-	-	-	Engastado
N1314	-9.680	13.171	0.833	-	-	-	-	-	-	Engastado
N1315	-8.880	13.171	0.833	-	-	-	-	-	-	Engastado
N1316	-9.680	14.266	0.725	-	-	-	-	-	-	Engastado
N1317	-8.880	14.266	0.725	-	-	-	-	-	-	Engastado
N1318	-9.680	15.361	0.616	-	-	-	-	-	-	Engastado
N1319	-8.880	15.361	0.616	-	-	-	-	-	-	Engastado
N1320	-9.680	16.455	0.508	-	-	-	-	-	-	Engastado
N1321	-8.880	16.455	0.508	-	-	-	-	-	-	Engastado
N1322	-14.640	16.455	0.508	-	-	-	-	-	-	Engastado
N1323	-13.840	16.455	0.508	-	-	-	-	-	-	Engastado
N1326	-13.840	14.266	0.725	-	-	-	-	-	-	Engastado
N1327	-14.640	14.266	0.725	-	-	-	-	-	-	Engastado
N1330	-13.840	12.077	0.941	-	-	-	-	-	-	Engastado

Nós										
Referência	Coordenadas			Vínculo c/ exterior						Vinculação interna
	X (m)	Y (m)	Z (m)	Δ_x	Δ_y	Δ_z	θ_x	θ_y	θ_z	
N1331	-14.640	12.077	0.941	-	-	-	-	-	-	Engastado
N1332	-13.840	10.982	1.049	-	-	-	-	-	-	Engastado
N1333	-14.640	10.982	1.049	-	-	-	-	-	-	Engastado
N1334	-13.840	9.928	1.153	-	-	-	-	-	-	Engastado
N1335	-14.640	9.928	1.153	-	-	-	-	-	-	Engastado
N1336	-13.840	7.622	1.153	-	-	-	-	-	-	Engastado
N1337	-14.640	7.622	1.153	-	-	-	-	-	-	Engastado
N1338	-13.840	6.568	1.049	-	-	-	-	-	-	Engastado
N1339	-14.640	6.568	1.049	-	-	-	-	-	-	Engastado
N1340	-13.840	5.473	0.941	-	-	-	-	-	-	Engastado
N1341	-14.640	5.473	0.941	-	-	-	-	-	-	Engastado
N1344	-13.840	3.284	0.725	-	-	-	-	-	-	Engastado
N1345	-14.640	3.284	0.725	-	-	-	-	-	-	Engastado
N1348	-13.840	1.095	0.508	-	-	-	-	-	-	Engastado
N1349	-14.640	1.095	0.508	-	-	-	-	-	-	Engastado
N1350	-23.500	16.455	0.508	-	-	-	-	-	-	Engastado
N1351	-22.700	16.455	0.508	-	-	-	-	-	-	Engastado
N1354	-22.700	14.266	0.725	-	-	-	-	-	-	Engastado
N1355	-23.500	14.266	0.725	-	-	-	-	-	-	Engastado
N1358	-22.700	12.077	0.941	-	-	-	-	-	-	Engastado
N1359	-23.500	12.077	0.941	-	-	-	-	-	-	Engastado
N1360	-22.700	10.982	1.049	-	-	-	-	-	-	Engastado
N1361	-23.500	10.982	1.049	-	-	-	-	-	-	Engastado
N1362	-22.700	9.928	1.153	-	-	-	-	-	-	Engastado
N1363	-23.500	9.928	1.153	-	-	-	-	-	-	Engastado
N1364	-22.700	7.622	1.153	-	-	-	-	-	-	Engastado
N1365	-23.500	7.622	1.153	-	-	-	-	-	-	Engastado
N1366	-22.700	6.568	1.049	-	-	-	-	-	-	Engastado
N1367	-23.500	6.568	1.049	-	-	-	-	-	-	Engastado
N1368	-22.700	5.473	0.941	-	-	-	-	-	-	Engastado
N1369	-23.500	5.473	0.941	-	-	-	-	-	-	Engastado
N1372	-22.700	3.284	0.725	-	-	-	-	-	-	Engastado
N1373	-23.500	3.284	0.725	-	-	-	-	-	-	Engastado
N1376	-22.700	1.095	0.508	-	-	-	-	-	-	Engastado
N1377	-23.500	1.095	0.508	-	-	-	-	-	-	Engastado
N1378	-28.670	16.455	0.508	-	-	-	-	-	-	Engastado
N1379	-27.870	16.455	0.508	-	-	-	-	-	-	Engastado
N1380	-28.670	15.361	0.616	-	-	-	-	-	-	Engastado
N1381	-27.870	15.361	0.616	-	-	-	-	-	-	Engastado
N1382	-27.870	14.266	0.725	-	-	-	-	-	-	Engastado
N1383	-28.670	14.266	0.725	-	-	-	-	-	-	Engastado
N1384	-27.870	13.171	0.833	-	-	-	-	-	-	Engastado
N1385	-28.670	13.171	0.833	-	-	-	-	-	-	Engastado
N1386	-27.870	12.077	0.941	-	-	-	-	-	-	Engastado
N1387	-28.670	12.077	0.941	-	-	-	-	-	-	Engastado

Nós										
Referência	Coordenadas			Vínculo c/ exterior						Vinculação interna
	X (m)	Y (m)	Z (m)	Δ_x	Δ_y	Δ_z	θ_x	θ_y	θ_z	
N1388	-27.870	10.982	1.049	-	-	-	-	-	-	Engastado
N1389	-28.670	10.982	1.049	-	-	-	-	-	-	Engastado
N1390	-27.870	9.928	1.153	-	-	-	-	-	-	Engastado
N1391	-28.670	9.928	1.153	-	-	-	-	-	-	Engastado
N1392	-27.870	7.622	1.153	-	-	-	-	-	-	Engastado
N1393	-28.670	7.622	1.153	-	-	-	-	-	-	Engastado
N1394	-27.870	6.568	1.049	-	-	-	-	-	-	Engastado
N1395	-28.670	6.568	1.049	-	-	-	-	-	-	Engastado
N1396	-27.870	5.473	0.941	-	-	-	-	-	-	Engastado
N1397	-28.670	5.473	0.941	-	-	-	-	-	-	Engastado
N1398	-27.870	4.379	0.833	-	-	-	-	-	-	Engastado
N1399	-28.670	4.379	0.833	-	-	-	-	-	-	Engastado
N1400	-27.870	3.284	0.725	-	-	-	-	-	-	Engastado
N1401	-28.670	3.284	0.725	-	-	-	-	-	-	Engastado
N1402	-27.870	2.189	0.616	-	-	-	-	-	-	Engastado
N1403	-28.670	2.189	0.616	-	-	-	-	-	-	Engastado
N1404	-27.870	1.095	0.508	-	-	-	-	-	-	Engastado
N1405	-28.670	1.095	0.508	-	-	-	-	-	-	Engastado
N1406	-4.740	0.438	0.043	-	-	-	-	-	-	Engastado
N1408	-4.740	0.876	0.487	-	-	-	-	-	-	Engastado
N1418	-4.740	6.130	1.006	-	-	-	-	-	-	Engastado
N1422	-4.740	7.429	0.734	-	-	-	-	-	-	Engastado
N1426	-4.740	17.112	0.043	-	-	-	-	-	-	Engastado
N1427	-4.740	16.674	0.487	-	-	-	-	-	-	Engastado
N1441	-4.740	11.420	1.006	-	-	-	-	-	-	Engastado
N1442	-4.740	10.982	0.649	-	-	-	-	-	-	Engastado
N1443	-4.740	10.121	0.734	-	-	-	-	-	-	Engastado
N1446	-14.240	0.438	0.043	-	-	-	-	-	-	Engastado
N1447	-14.240	0.876	0.487	-	-	-	-	-	-	Engastado
N1448	-14.240	1.314	0.130	-	-	-	-	-	-	Engastado
N1458	-14.240	6.130	1.006	-	-	-	-	-	-	Engastado
N1462	-14.240	7.429	0.734	-	-	-	-	-	-	Engastado
N1465	-14.240	17.112	0.043	-	-	-	-	-	-	Engastado
N1466	-14.240	16.674	0.487	-	-	-	-	-	-	Engastado
N1467	-14.240	16.236	0.130	-	-	-	-	-	-	Engastado
N1480	-14.240	11.420	1.006	-	-	-	-	-	-	Engastado
N1481	-14.240	10.121	0.734	-	-	-	-	-	-	Engastado
N1484	-23.100	0.438	0.043	-	-	-	-	-	-	Engastado
N1485	-23.100	0.876	0.487	-	-	-	-	-	-	Engastado
N1486	-23.100	1.314	0.130	-	-	-	-	-	-	Engastado
N1496	-23.100	6.130	1.006	-	-	-	-	-	-	Engastado
N1503	-23.100	17.112	0.043	-	-	-	-	-	-	Engastado
N1504	-23.100	16.674	0.487	-	-	-	-	-	-	Engastado
N1505	-23.100	16.236	0.130	-	-	-	-	-	-	Engastado
N1518	-23.100	11.420	1.006	-	-	-	-	-	-	Engastado

Nós										
Referência	Coordenadas			Vínculo c/ exterior						Vinculação interna
	X (m)	Y (m)	Z (m)	Δ_x	Δ_y	Δ_z	θ_x	θ_y	θ_z	
N1519	-23.100	10.121	0.734	-	-	-	-	-	-	Engastado
N1522	-33.190	0.438	0.043	-	-	-	-	-	-	Engastado
N1523	-33.190	0.876	0.487	-	-	-	-	-	-	Engastado
N1534	-33.190	6.130	1.006	-	-	-	-	-	-	Engastado
N1538	-33.190	7.429	0.734	-	-	-	-	-	-	Engastado
N1541	-33.190	17.112	0.043	-	-	-	-	-	-	Engastado
N1542	-33.190	16.674	0.487	-	-	-	-	-	-	Engastado
N1556	-33.190	11.420	1.006	-	-	-	-	-	-	Engastado
N1557	-33.190	10.121	0.734	-	-	-	-	-	-	Engastado
N1560	-42.690	0.438	0.043	-	-	-	-	-	-	Engastado
N1561	-42.690	0.876	0.487	-	-	-	-	-	-	Engastado
N1572	-42.690	6.130	1.006	-	-	-	-	-	-	Engastado
N1576	-42.690	7.429	0.734	-	-	-	-	-	-	Engastado
N1579	-42.690	17.112	0.043	-	-	-	-	-	-	Engastado
N1580	-42.690	16.674	0.487	-	-	-	-	-	-	Engastado
N1594	-42.690	11.420	1.006	-	-	-	-	-	-	Engastado
N1595	-42.690	10.121	0.734	-	-	-	-	-	-	Engastado
N1598	-52.430	0.438	0.043	-	-	-	-	-	-	Engastado
N1599	-52.430	0.876	0.487	-	-	-	-	-	-	Engastado
N1610	-52.430	6.130	1.006	-	-	-	-	-	-	Engastado
N1614	-52.430	7.429	0.734	-	-	-	-	-	-	Engastado
N1617	-52.430	17.112	0.043	-	-	-	-	-	-	Engastado
N1618	-52.430	16.674	0.487	-	-	-	-	-	-	Engastado
N1632	-52.430	11.420	1.006	-	-	-	-	-	-	Engastado
N1633	-52.430	10.121	0.734	-	-	-	-	-	-	Engastado
N1636	-4.740	1.095	0.508	-	-	-	-	-	-	Engastado
N1637	-4.740	3.284	0.725	-	-	-	-	-	-	Engastado
N1638	-4.740	5.473	0.941	-	-	-	-	-	-	Engastado
N1639	-4.740	12.077	0.941	-	-	-	-	-	-	Engastado
N1640	-4.740	14.266	0.725	-	-	-	-	-	-	Engastado
N1641	-4.740	16.455	0.508	-	-	-	-	-	-	Engastado
N1642	-14.240	1.095	0.108	-	-	-	-	-	-	Engastado
N1643	-23.100	1.095	0.108	-	-	-	-	-	-	Engastado
N1644	-14.240	1.095	0.508	-	-	-	-	-	-	Engastado
N1645	-14.240	3.284	0.725	-	-	-	-	-	-	Engastado
N1646	-14.240	5.473	0.941	-	-	-	-	-	-	Engastado
N1647	-23.100	1.095	0.508	-	-	-	-	-	-	Engastado
N1648	-23.100	3.284	0.725	-	-	-	-	-	-	Engastado
N1649	-23.100	5.473	0.941	-	-	-	-	-	-	Engastado
N1650	-33.190	1.095	0.508	-	-	-	-	-	-	Engastado
N1651	-33.190	3.284	0.725	-	-	-	-	-	-	Engastado
N1652	-33.190	5.473	0.941	-	-	-	-	-	-	Engastado
N1653	-42.690	1.095	0.508	-	-	-	-	-	-	Engastado
N1654	-42.690	3.284	0.725	-	-	-	-	-	-	Engastado
N1655	-42.690	5.473	0.941	-	-	-	-	-	-	Engastado

Nós										
Referência	Coordenadas			Vínculo c/ exterior						Vinculação interna
	X (m)	Y (m)	Z (m)	Δ_x	Δ_y	Δ_z	θ_x	θ_y	θ_z	
N1656	-52.430	1.095	0.508	-	-	-	-	-	-	Engastado
N1657	-52.430	3.284	0.725	-	-	-	-	-	-	Engastado
N1658	-52.430	5.473	0.941	-	-	-	-	-	-	Engastado
N1659	-52.430	16.455	0.508	-	-	-	-	-	-	Engastado
N1660	-14.240	16.455	0.108	-	-	-	-	-	-	Engastado
N1661	-14.240	16.455	0.508	-	-	-	-	-	-	Engastado
N1662	-14.240	14.266	0.725	-	-	-	-	-	-	Engastado
N1663	-14.240	12.077	0.941	-	-	-	-	-	-	Engastado
N1664	-23.100	16.455	0.108	-	-	-	-	-	-	Engastado
N1665	-23.100	16.455	0.508	-	-	-	-	-	-	Engastado
N1666	-23.100	14.266	0.725	-	-	-	-	-	-	Engastado
N1667	-23.100	12.077	0.941	-	-	-	-	-	-	Engastado
N1668	-33.190	14.266	0.725	-	-	-	-	-	-	Engastado
N1669	-33.190	12.077	0.941	-	-	-	-	-	-	Engastado
N1670	-33.190	16.455	0.508	-	-	-	-	-	-	Engastado
N1671	-42.690	16.455	0.508	-	-	-	-	-	-	Engastado
N1672	-42.690	14.266	0.725	-	-	-	-	-	-	Engastado
N1673	-42.690	12.077	0.941	-	-	-	-	-	-	Engastado
N1674	-52.430	14.266	0.725	-	-	-	-	-	-	Engastado
N1675	-52.430	12.077	0.941	-	-	-	-	-	-	Engastado
N1676	-9.280	0.438	0.043	-	-	-	-	-	-	Engastado
N1682	-9.280	7.429	0.734	-	-	-	-	-	-	Engastado
N1685	-9.280	10.121	0.734	-	-	-	-	-	-	Engastado
N1687	-9.280	17.112	0.043	-	-	-	-	-	-	Engastado
N1693	-9.280	16.674	0.487	-	-	-	-	-	-	Engastado
N1698	-9.280	11.420	1.006	-	-	-	-	-	-	Engastado
N1701	-9.280	0.876	0.487	-	-	-	-	-	-	Engastado
N1706	-9.280	6.130	1.006	-	-	-	-	-	-	Engastado
N1707	-18.660	17.112	0.043	-	-	-	-	-	-	Engastado
N1708	-18.660	16.674	0.487	-	-	-	-	-	-	Engastado
N1718	-18.660	11.420	1.006	-	-	-	-	-	-	Engastado
N1719	-18.660	10.121	0.734	-	-	-	-	-	-	Engastado
N1720	-18.660	7.429	0.734	-	-	-	-	-	-	Engastado
N1725	-18.660	6.130	1.006	-	-	-	-	-	-	Engastado
N1733	-18.660	0.438	0.043	-	-	-	-	-	-	Engastado
N1734	-18.660	0.876	0.487	-	-	-	-	-	-	Engastado
N1737	-28.270	17.112	0.043	-	-	-	-	-	-	Engastado
N1738	-28.270	16.674	0.487	-	-	-	-	-	-	Engastado
N1748	-28.270	11.420	1.006	-	-	-	-	-	-	Engastado
N1749	-28.270	10.121	0.734	-	-	-	-	-	-	Engastado
N1750	-28.270	7.429	0.734	-	-	-	-	-	-	Engastado
N1755	-28.270	6.130	1.006	-	-	-	-	-	-	Engastado
N1763	-28.270	0.438	0.043	-	-	-	-	-	-	Engastado
N1764	-28.270	0.876	0.487	-	-	-	-	-	-	Engastado
N1767	-37.880	17.112	0.043	-	-	-	-	-	-	Engastado

Nós										
Referência	Coordenadas			Vínculo c/ exterior						Vinculação interna
	X (m)	Y (m)	Z (m)	Δ_x	Δ_y	Δ_z	θ_x	θ_y	θ_z	
N1768	-37.880	16.674	0.487	-	-	-	-	-	-	Engastado
N1778	-37.880	11.420	1.006	-	-	-	-	-	-	Engastado
N1779	-37.880	10.121	0.734	-	-	-	-	-	-	Engastado
N1780	-37.880	7.429	0.734	-	-	-	-	-	-	Engastado
N1785	-37.880	6.130	1.006	-	-	-	-	-	-	Engastado
N1793	-37.880	0.438	0.043	-	-	-	-	-	-	Engastado
N1794	-37.880	0.876	0.487	-	-	-	-	-	-	Engastado
N1797	-47.490	17.112	0.043	-	-	-	-	-	-	Engastado
N1798	-47.490	16.674	0.487	-	-	-	-	-	-	Engastado
N1808	-47.490	11.420	1.006	-	-	-	-	-	-	Engastado
N1809	-47.490	10.121	0.734	-	-	-	-	-	-	Engastado
N1810	-47.490	7.429	0.734	-	-	-	-	-	-	Engastado
N1815	-47.490	6.130	1.006	-	-	-	-	-	-	Engastado
N1823	-47.490	0.438	0.043	-	-	-	-	-	-	Engastado
N1824	-47.490	0.876	0.487	-	-	-	-	-	-	Engastado

1.2.- Barras

1.2.1.- Materiais utilizados

Materiais utilizados							
Material		E	ν	G	f_y	$\alpha_{\cdot t}$	γ
Tipo	Designação	(kgf/cm²)		(kgf/cm²)	(kgf/cm²)	(m/m°C)	(t/m³)
Aço laminado	A-572 345MPa	2038736.0	0.300	784913.4	3516.8	0.000012	7.850
Aço dobrado	CF-26	2038736.0	0.300	784129.2	2650.4	0.000012	7.850

Notação:
E: Módulo de elasticidade
ν: Módulo de poisson
G: Módulo de corte
f_y: Limite elástico
$\alpha_{\cdot t}$: Coeficiente de dilatação
γ: Peso específico

1.2.2.- Características mecânicas

Tipos de peça	
Ref.	Peças

Tipos de peça	
Ref.	Peças
1	N798/N918, N918/N799, N799/N937, N937/N800, N800/N956, N956/N801, N801/N975, N975/N802, N1080/N803, N804/N1080, N1078/N804, N805/N1078, N1076/N805, N806/N1076, N1074/N806, N807/N1074, N808/N920, N920/N809, N809/N939, N939/N810, N810/N958, N958/N811, N811/N978, N978/N812, N1073/N813, N1071/N814, N814/N1073, N815/N1071, N1070/N815, N816/N1070, N1069/N816, N817/N1069, N818/N922, N922/N819, N819/N941, N941/N820, N820/N960, N960/N821, N821/N980, N980/N822, N1068/N823, N1066/N824, N824/N1068, N825/N1066, N1064/N825, N826/N1064, N1062/N826, N827/N1062, N828/N923, N923/N829, N829/N942, N942/N830, N830/N961, N961/N831, N831/N982, N982/N832, N1060/N833, N1058/N834, N834/N1060, N835/N1058, N1057/N835, N836/N1057, N1056/N836, N837/N1056, N838/N925, N925/N839, N839/N944, N944/N840, N840/N963, N963/N841, N841/N984, N984/N842, N1055/N843, N1053/N844, N844/N1055, N845/N1053, N1051/N845, N846/N1051, N1049/N846, N847/N1049, N848/N926, N926/N849, N849/N945, N945/N850, N850/N964, N964/N851, N851/N986, N986/N852, N1047/N853, N1045/N854, N854/N1047, N855/N1045, N1044/N855, N856/N1044, N1043/N856, N857/N1043, N858/N928, N928/N859, N859/N947, N947/N860, N860/N966, N966/N861, N861/N988, N988/N862, N1042/N863, N1040/N864, N864/N1042, N865/N1040, N1038/N865, N866/N1038, N1036/N866, N867/N1036, N868/N929, N929/N869, N869/N948, N948/N870, N870/N967, N967/N871, N871/N990, N990/N872, N1034/N873, N1032/N874, N874/N1034, N875/N1032, N1031/N875, N876/N1031, N1030/N876, N877/N1030, N878/N931, N931/N879, N879/N950, N950/N880, N880/N969, N969/N881, N881/N992, N992/N882, N1029/N883, N1027/N884, N884/N1029, N885/N1027, N1025/N885, N886/N1025, N1023/N886, N887/N1023, N888/N932, N932/N889, N889/N951, N951/N890, N890/N970, N970/N891, N891/N994, N994/N892, N1021/N893, N1019/N894, N894/N1021, N895/N1019, N1018/N895, N896/N1018, N1017/N896, N897/N1017, N898/N934, N934/N899, N899/N953, N953/N900, N900/N972, N972/N901, N901/N996, N996/N902, N1016/N903, N1014/N904, N904/N1016, N905/N1014, N1012/N905, N906/N1012, N1010/N906, N907/N1010, N908/N935, N935/N909, N909/N954, N954/N910, N910/N973, N973/N911, N911/N998, N998/N912, N1007/N913, N1004/N914, N914/N1007, N915/N1004, N1002/N915, N916/N1002, N1000/N916, N917/N1000, N1258/N1295, N1258/N1294, N31/N1296, N31/N1297, N1263/N1298, N1263/N1299, N32/N1300, N32/N1301, N1268/N1302, N1268/N1303, N33/N1304, N33/N1305, N1271/N1306, N1271/N1307, N1289/N1308, N1289/N1309, N37/N1310, N37/N1311, N1286/N1312, N1286/N1313, N36/N1314, N36/N1315, N1281/N1316, N1281/N1317, N35/N1318, N35/N1319, N1275/N1320, N1275/N1321, N51/N1332, N51/N1333, N1253/N1334, N1253/N1335, N1250/N1336, N1250/N1337, N49/N1338, N49/N1339, N89/N1360, N89/N1361, N1211/N1362, N1211/N1363, N1208/N1364, N1208/N1365, N87/N1366, N87/N1367, N1191/N1378, N1191/N1379, N111/N1380, N111/N1381, N1197/N1382, N1197/N1383, N112/N1384, N112/N1385, N1202/N1386, N1202/N1387, N113/N1388, N113/N1389, N1205/N1390, N1205/N1391, N1187/N1392, N1187/N1393, N109/N1394, N109/N1395, N1184/N1396, N1184/N1397, N108/N1398, N108/N1399, N1179/N1400, N1179/N1401, N107/N1402, N107/N1403, N1174/N1404, N1174/N1405, N1642/N1348, N1642/N1349, N1643/N1376, N1643/N1377, N1660/N1323, N1660/N1322, N1664/N1351 e N1664/N1350
2	N1/N204, N208/N190, N15/N1, N38/N15, N53/N38, N76/N53, N91/N76, N114/N91, N129/N114, N152/N129, N167/N152, N190/N167, N2/N481, N504/N191, N17/N2, N39/N17, N55/N39, N77/N55, N93/N77, N115/N93, N131/N115, N153/N131, N169/N153 e N191/N169

Tipos de peça	
Ref.	Peças
3	N977/N976, N979/N977, N981/N979, N983/N981, N985/N983, N987/N985, N989/N987, N991/N989, N993/N991, N995/N993, N997/N995, N999/N997, N1008/N1006, N1006/N1015, N1015/N1020, N1020/N1028, N1028/N1033, N1033/N1041, N1041/N1046, N1046/N1054, N1054/N1059, N1059/N1067, N1067/N1072, N1072/N1081, N1636/N919, N1294/N1636, N921/N1294, N1637/N938, N1298/N1637, N940/N1298, N1638/N957, N1302/N1638, N959/N1302, N930/N1650, N1653/N930, N933/N1653, N1656/N933, N936/N1656, N1401/N946, N1651/N1401, N949/N1651, N1654/N949, N952/N1654, N1657/N952, N955/N1657, N1397/N965, N1652/N1397, N968/N1652, N1655/N968, N971/N1655, N1658/N971, N974/N1658, N1378/N1035, N1383/N1037, N1387/N1039, N1035/N1379, N1037/N1382, N1039/N1386, N1320/N1061, N1316/N1063, N1312/N1065, N1321/N1641, N1061/N1321, N1317/N1640, N1063/N1317, N1313/N1639, N1065/N1313, N1639/N1079, N1640/N1077, N1641/N1075, N1001/N1659, N1644/N921, N1645/N940, N1646/N959, N924/N1644, N943/N1645, N962/N1646, N1647/N924, N1648/N943, N1649/N962, N927/N1647, N946/N1648, N965/N1649, N1650/N927, N1661/N1320, N1662/N1316, N1663/N1312, N1048/N1661, N1050/N1662, N1052/N1663, N1665/N1048, N1666/N1050, N1667/N1052, N1668/N1383, N1669/N1387, N1022/N1670, N1024/N1668, N1026/N1669, N1671/N1022, N1672/N1024, N1673/N1026, N1009/N1671, N1011/N1672, N1013/N1673, N1659/N1009, N1674/N1011, N1675/N1013, N1003/N1674, N1005/N1675, N1350/N1665, N1043/N1350, N1379/N1043, N1355/N1666, N1044/N1355, N1382/N1044, N1359/N1667, N1045/N1359, N1386/N1045, N1036/N1378 e N1670/N1036
4	N1446/N1447, N49/N1458, N49/N43, N1462/N42, N1465/N1466, N51/N1480, N51/N46, N1481/N45, N38/N42, N39/N45, N1484/N1485, N87/N1496, N87/N81, N1503/N1504, N89/N1518, N89/N84, N1519/N83, N76/N80, N1522/N1523, N125/N1534, N125/N119, N1538/N118, N1541/N1542, N127/N1556, N127/N122, N1557/N121, N1560/N1561, N163/N1572, N163/N157, N1576/N156, N1579/N1580, N165/N1594, N165/N160, N1595/N159, N152/N156, N153/N159, N1598/N1599, N201/N1610, N201/N195, N1614/N194, N1617/N1618, N203/N1632, N203/N198, N1633/N197, N190/N194, N191/N197, N1676/N1701, N33/N1706, N33/N21, N1682/N20, N1687/N1693, N37/N1698, N1685/N25, N15/N20, N17/N25, N1707/N1708, N75/N1718, N75/N64, N1719/N63, N55/N63, N71/N1725, N71/N59, N1720/N58, N53/N58, N1733/N1734, N1737/N1738, N113/N1748, N113/N102, N1749/N101, N109/N1755, N109/N97, N1750/N96, N1763/N1764, N1767/N1768, N151/N1778, N151/N140, N1779/N139, N147/N1785, N147/N135, N1780/N134, N1793/N1794, N1797/N1798, N189/N1808, N189/N178, N1809/N177, N169/N177, N185/N1815, N185/N173, N1810/N172, N167/N172, N1823/N1824, N1406/N1408, N12/N1418, N12/N6, N1422/N5, N1/N5, N1426/N1427, N1442/N1441, N1442/N9 e N1443/N8
5	N75/N55, N48/N1465, N1465/N1660, N1660/N1467, N51/N39, N11/N1426, N1442/N2, N13/N1406, N12/N1, N33/N15, N50/N1446, N1446/N1642, N1642/N1448, N49/N38, N71/N53, N88/N1484, N1484/N1643, N1643/N1486, N87/N76, N109/N91, N126/N1522, N125/N114, N147/N129, N113/N93, N124/N1541, N127/N115, N86/N1503, N1503/N1664, N1664/N1505, N89/N77, N151/N131, N164/N1560, N163/N152, N162/N1579, N165/N153, N185/N167, N189/N169, N202/N1598, N201/N190, N200/N1617, N203/N191 e N37/N17

Características mecânicas									
Material		Ref.	Descrição	A (cm²)	Avy (cm²)	Avz (cm²)	Iyy (cm4)	Izz (cm4)	It (cm4)
Tipo	Designação								
Aço laminado	A-572 345MPa	1	L 1 1/4 X 3/16, (L TecnoMetal)	2.87	1.30	1.30	2.63	2.63	0.21
Aço dobrado	CF-26	2	U127X50X4.76, (U TecnoMetal)	10.05	3.78	4.85	230.19	22.60	0.76
		3	C100X50X17X4.25, (C TecnoMetal)	8.75	3.24	4.44	129.70	27.25	0.53
		4	U98X25X4.75, (U TecnoMetal)	6.28	1.79	3.69	72.01	2.71	0.47
		5	U200X75X4.75, (U TecnoMetal)	15.88	5.75	7.73	923.11	81.65	1.19

Características mecânicas									
Material		Ref.	Descrição	A (cm²)	Avy (cm²)	Avz (cm²)	Iyy (cm4)	Izz (cm4)	It (cm4)
Tipo	Designação								

Notação:
Ref.: Referência
A: Área da seção transversal
Avy: Área de esforço cortante da seção segundo o eixo local 'Y'
Avz: Área de esforço cortante da seção segundo o eixo local 'Z'
Iyy: Inércia da seção em torno do eixo local 'Y'
Izz: Inércia da seção em torno do eixo local 'Z'
It: Inércia à torção
As características mecânicas das peças correspondem à seção no ponto médio das mesmas.

1.2.3.- Tabela resumo

Tabela resumo												
Material		Série	Perfil	Comprimento			Volume			Peso		
Tipo	Designação			Perfil (m)	Série (m)	Material (m)	Perfil (m³)	Série (m³)	Material (m³)	Perfil (kg)	Série (kg)	Material (kg)
Aço laminado	A-572 345MPa	L TecnoMetal	L 1 1/4 X 3/16	254.481	254.481	254.481	0.073	0.073	0.073	573.33	573.33	573.33
Aço dobrado	CF-26	U TecnoMetal	U127X50X4.76	113.740	183.818	638.778	0.114	0.176	0.573	897.63	1378.07	4501.80
			U98X25X4.75	52.169			0.033			257.24		
			U200X75X4.75	17.908			0.028			223.19		
		C TecnoMetal	C100X50X17X4.25	454.960	454.960		0.398	0.398		3123.73	3123.73	

1.2.4.- Quantitativos de superfícies

Perfis de aço: Quantitativos das superfícies a pintar					
Tipo	Série	Perfil	Superfície unitária (m²/m)	Comprimento (m)	Superfície (m²)
Aço dobrado	U TecnoMetal	U127X50X4.76	0.432	113.740	49.129
		U98X25X4.75	0.274	52.169	14.294
		U200X75X4.75	0.678	17.908	12.142
	C TecnoMetal	C100X50X17X4.25	0.420	454.960	191.133
				Subtotal	266.698
Aço laminado	L TecnoMetal	L 1 1/4 X 3/16	0.128	254.481	32.574
				Subtotal	32.574
				Total	**299.272**

2.- RESULTADOS

2.1.- Nós

2.1.1.- Reações

Referências:

Rx, Ry, Rz: Reações em nós com deslocamentos restringidos (forças).
Mx, My, Mz: Reações em nós com rotações restringidas (momentos).

2.1.1.1.- Envoltórias

Envoltórias das reações em nós		
Referência	Combinação	Reações em eixos globais

	Tipo	Descrição	Rx (t)	Ry (t)	Rz (t)	Mx (t·m)	My (t·m)	Mz (t·m)
N11	Concreto em fundações	Valor mínimo da envoltória	0.004	-11.690	0.371	0.050	0.001	0.004
		Valor máximo da envoltória	0.015	-3.998	1.075	0.144	0.002	0.014
	Tensões sobre o terreno	Valor mínimo da envoltória	0.004	-8.755	0.371	0.050	0.001	0.004
		Valor máximo da envoltória	0.011	-3.998	0.805	0.108	0.001	0.011
N13	Concreto em fundações	Valor mínimo da envoltória	0.002	2.339	0.221	-0.129	0.000	-0.012
		Valor máximo da envoltória	0.014	10.384	0.958	-0.030	0.001	-0.002
	Tensões sobre o terreno	Valor mínimo da envoltória	0.003	2.813	0.264	-0.097	0.000	-0.009
		Valor máximo da envoltória	0.010	7.822	0.721	-0.035	0.001	-0.003
N48	Concreto em fundações	Valor mínimo da envoltória	0.029	-13.623	0.397	0.060	0.003	0.028
		Valor máximo da envoltória	0.176	-4.553	1.165	0.181	0.019	0.163
	Tensões sobre o terreno	Valor mínimo da envoltória	0.029	-10.204	0.400	0.061	0.003	0.028
		Valor máximo da envoltória	0.129	-4.589	0.872	0.136	0.014	0.119
N50	Concreto em fundações	Valor mínimo da envoltória	0.016	2.787	0.258	-0.146	0.002	-0.165
		Valor máximo da envoltória	0.179	11.029	0.954	-0.037	0.020	-0.015
	Tensões sobre o terreno	Valor mínimo da envoltória	0.020	3.329	0.301	-0.111	0.002	-0.121
		Valor máximo da envoltória	0.131	8.352	0.722	-0.044	0.014	-0.019
N86	Concreto em fundações	Valor mínimo da envoltória	-0.137	-14.284	0.329	0.049	-0.015	-0.125
		Valor máximo da envoltória	-0.044	-3.715	1.224	0.190	-0.005	-0.040
	Tensões sobre o terreno	Valor mínimo da envoltória	-0.103	-10.700	0.357	0.054	-0.011	-0.094
		Valor máximo da envoltória	-0.044	-4.056	0.917	0.143	-0.005	-0.040
N88	Concreto em fundações	Valor mínimo da envoltória	-0.114	2.931	0.272	-0.145	-0.013	0.020
		Valor máximo da envoltória	-0.022	10.912	0.948	-0.039	-0.002	0.107
	Tensões sobre o terreno	Valor mínimo da envoltória	-0.086	3.496	0.317	-0.107	-0.010	0.025
		Valor máximo da envoltória	-0.028	8.061	0.701	-0.046	-0.003	0.081
N124	Concreto em fundações	Valor mínimo da envoltória	-0.010	-12.806	0.084	0.011	-0.001	-0.009
		Valor máximo da envoltória	-0.001	-0.869	1.177	0.159	0.000	0.003
	Tensões sobre o terreno	Valor mínimo da envoltória	-0.007	-9.592	0.176	0.023	-0.001	-0.006
		Valor máximo da envoltória	-0.001	-1.870	0.882	0.119	0.000	0.002
N126	Concreto em fundações	Valor mínimo da envoltória	-0.010	0.870	0.084	-0.116	-0.001	-0.002
		Valor máximo da envoltória	0.000	9.283	0.859	-0.011	0.000	0.009
	Tensões sobre o terreno	Valor mínimo da envoltória	-0.007	1.870	0.176	-0.084	-0.001	-0.001
		Valor máximo da envoltória	0.000	6.656	0.617	-0.023	0.000	0.006
N162	Concreto em fundações	Valor mínimo da envoltória	0.000	-13.193	0.116	0.015	0.000	0.000
		Valor máximo da envoltória	0.008	-1.219	1.213	0.164	0.001	0.009
	Tensões sobre o terreno	Valor mínimo da envoltória	0.001	-9.882	0.202	0.027	0.000	0.001
		Valor máximo da envoltória	0.006	-2.157	0.908	0.123	0.001	0.007
N164	Concreto em fundações	Valor mínimo da envoltória	0.000	1.219	0.116	-0.120	0.000	-0.006
		Valor máximo da envoltória	0.005	9.570	0.885	-0.015	0.001	0.000
	Tensões sobre o terreno	Valor mínimo da envoltória	0.001	2.156	0.202	-0.086	0.000	-0.005
		Valor máximo da envoltória	0.004	6.862	0.636	-0.027	0.001	-0.001
N200	Concreto em fundações	Valor mínimo da envoltória	0.004	-12.353	0.106	0.014	0.000	0.004
		Valor máximo da envoltória	0.065	-1.105	1.135	0.152	0.007	0.063
	Tensões sobre o terreno	Valor mínimo da envoltória	0.009	-9.253	0.187	0.025	0.001	0.009
		Valor máximo da envoltória	0.048	-1.991	0.850	0.114	0.006	0.047
N202	Concreto em fundações	Valor mínimo da envoltória	0.004	1.105	0.106	-0.111	0.000	-0.044
		Valor máximo da envoltória	0.045	8.936	0.826	-0.014	0.005	-0.004
	Tensões sobre o terreno	Valor mínimo da envoltória	0.009	1.991	0.187	-0.080	0.001	-0.032
		Valor máximo da envoltória	0.032	6.402	0.593	-0.025	0.004	-0.009
N204	Concreto em fundações	Valor mínimo da envoltória	-5.786	-0.006	0.234	0.000	0.008	-0.002

Envoltórias das reações em nós								
Referência	Combinação		Reações em eixos globais					
	Tipo	Descrição	Rx (t)	Ry (t)	Rz (t)	Mx (t·m)	My (t·m)	Mz (t·m)
		Valor máximo da envoltória	-1.622	0.001	0.786	0.000	0.023	0.005
	Tensões sobre o terreno	Valor mínimo da envoltória	-4.344	-0.004	0.261	0.000	0.009	-0.001
		Valor máximo da envoltória	-1.826	0.000	0.589	0.000	0.017	0.004
N208	Concreto em fundações	Valor mínimo da envoltória	0.871	-0.011	0.123	0.000	-0.002	-0.011
		Valor máximo da envoltória	5.480	0.000	0.683	0.000	-0.001	0.000
	Tensões sobre o terreno	Valor mínimo da envoltória	1.370	-0.008	0.183	0.000	-0.002	-0.008
		Valor máximo da envoltória	3.975	-0.001	0.495	0.000	-0.001	-0.001
N481	Concreto em fundações	Valor mínimo da envoltória	-6.308	0.002	0.326	0.000	0.010	-0.008
		Valor máximo da envoltória	-2.336	0.009	0.850	0.000	0.024	-0.002
	Tensões sobre o terreno	Valor mínimo da envoltória	-4.717	0.002	0.326	0.000	0.010	-0.006
		Valor máximo da envoltória	-2.336	0.007	0.635	0.000	0.018	-0.002
N504	Concreto em fundações	Valor mínimo da envoltória	0.870	0.001	0.123	0.000	-0.002	0.001
		Valor máximo da envoltória	7.141	0.019	0.880	0.000	0.000	0.019
	Tensões sobre o terreno	Valor mínimo da envoltória	1.369	0.002	0.183	0.000	-0.002	0.002
		Valor máximo da envoltória	5.342	0.014	0.657	0.000	-0.001	0.014
N919	Concreto em fundações	Valor mínimo da envoltória	-0.069	-0.008	0.066	-0.001	0.055	-0.004
		Valor máximo da envoltória	-0.006	0.006	0.339	-0.001	0.283	0.008
	Tensões sobre o terreno	Valor mínimo da envoltória	-0.051	-0.006	0.083	-0.001	0.070	-0.003
		Valor máximo da envoltória	-0.007	0.004	0.256	-0.001	0.214	0.006
N936	Concreto em fundações	Valor mínimo da envoltória	-0.013	0.001	0.022	-0.001	-0.189	0.000
		Valor máximo da envoltória	-0.002	0.010	0.247	-0.001	-0.018	0.007
	Tensões sobre o terreno	Valor mínimo da envoltória	-0.010	0.001	0.048	-0.001	-0.135	0.000
		Valor máximo da envoltória	-0.003	0.007	0.176	-0.001	-0.038	0.005
N938	Concreto em fundações	Valor mínimo da envoltória	-0.001	-0.011	0.069	-0.001	0.064	-0.003
		Valor máximo da envoltória	0.006	0.005	0.361	-0.001	0.335	0.014
	Tensões sobre o terreno	Valor mínimo da envoltória	-0.001	-0.008	0.088	-0.001	0.081	-0.001
		Valor máximo da envoltória	0.004	0.003	0.273	-0.001	0.253	0.010
N955	Concreto em fundações	Valor mínimo da envoltória	0.004	-0.001	0.024	-0.001	-0.226	-0.004
		Valor máximo da envoltória	0.021	0.009	0.262	-0.001	-0.022	0.006
	Tensões sobre o terreno	Valor mínimo da envoltória	0.006	-0.001	0.052	-0.001	-0.161	-0.003
		Valor máximo da envoltória	0.016	0.006	0.187	-0.001	-0.046	0.004
N957	Concreto em fundações	Valor mínimo da envoltória	-0.015	-0.013	0.071	-0.001	0.068	-0.003
		Valor máximo da envoltória	0.006	0.005	0.367	-0.001	0.346	0.016
	Tensões sobre o terreno	Valor mínimo da envoltória	-0.010	-0.009	0.090	-0.001	0.086	-0.001
		Valor máximo da envoltória	0.004	0.003	0.277	-0.001	0.261	0.012
N974	Concreto em fundações	Valor mínimo da envoltória	-0.007	-0.003	0.025	-0.001	-0.239	-0.006
		Valor máximo da envoltória	0.016	0.009	0.270	-0.001	-0.025	0.006
	Tensões sobre o terreno	Valor mínimo da envoltória	-0.003	-0.002	0.054	-0.001	-0.171	-0.004
		Valor máximo da envoltória	0.012	0.006	0.193	-0.001	-0.050	0.003
N976	Concreto em fundações	Valor mínimo da envoltória	-0.045	-0.012	0.071	-0.001	0.069	-0.002
		Valor máximo da envoltória	-0.004	0.004	0.348	-0.001	0.318	0.013
	Tensões sobre o terreno	Valor mínimo da envoltória	-0.033	-0.009	0.088	-0.001	0.084	-0.001
		Valor máximo da envoltória	-0.004	0.003	0.263	-0.001	0.240	0.010
N999	Concreto em fundações	Valor mínimo da envoltória	-0.016	-0.003	0.025	-0.001	-0.226	-0.005
		Valor máximo da envoltória	-0.003	0.008	0.259	-0.001	-0.025	0.006
	Tensões sobre o terreno	Valor mínimo da envoltória	-0.012	-0.002	0.052	-0.001	-0.163	-0.004
		Valor máximo da envoltória	-0.003	0.006	0.185	-0.001	-0.047	0.003

Envoltórias das reações em nós									
Referência	Combinação		Reações em eixos globais						
	Tipo	Descrição	Rx (t)	Ry (t)	Rz (t)	Mx (t·m)	My (t·m)	Mz (t·m)
N1001	Concreto em fundações	Valor mínimo da envoltória	-0.016	-0.010	0.022	0.001	-0.268	-0.007
		Valor máximo da envoltória	-0.005	0.011	0.351	0.001	-0.018	0.008
	Tensões sobre o terreno	Valor mínimo da envoltória	-0.012	-0.007	0.048	0.001	-0.201	-0.005
		Valor máximo da envoltória	-0.005	0.007	0.263	0.001	-0.038	0.006
N1003	Concreto em fundações	Valor mínimo da envoltória	0.006	-0.009	0.024	0.001	-0.322	-0.006
		Valor máximo da envoltória	0.018	0.013	0.374	0.001	-0.022	0.014
	Tensões sobre o terreno	Valor mínimo da envoltória	0.006	-0.006	0.052	0.001	-0.242	-0.004
		Valor máximo da envoltória	0.013	0.010	0.280	0.001	-0.046	0.010
N1005	Concreto em fundações	Valor mínimo da envoltória	-0.006	-0.009	0.025	0.001	-0.340	-0.006
		Valor máximo da envoltória	0.013	0.016	0.383	0.001	-0.025	0.017
	Tensões sobre o terreno	Valor mínimo da envoltória	-0.003	-0.006	0.054	0.001	-0.255	-0.003
		Valor máximo da envoltória	0.010	0.011	0.287	0.001	-0.050	0.013
N1008	Concreto em fundações	Valor mínimo da envoltória	-0.017	-0.008	0.025	0.001	-0.309	-0.006
		Valor máximo da envoltória	-0.004	0.015	0.362	0.001	-0.025	0.015
	Tensões sobre o terreno	Valor mínimo da envoltória	-0.012	-0.006	0.052	0.001	-0.232	-0.003
		Valor máximo da envoltória	-0.004	0.011	0.272	0.001	-0.047	0.011
N1075	Concreto em fundações	Valor mínimo da envoltória	-0.069	0.000	0.126	0.001	0.106	-0.012
		Valor máximo da envoltória	-0.012	0.013	0.390	0.001	0.326	-0.001
	Tensões sobre o terreno	Valor mínimo da envoltória	-0.051	0.000	0.126	0.001	0.106	-0.009
		Valor máximo da envoltória	-0.012	0.009	0.293	0.001	0.244	-0.001
N1077	Concreto em fundações	Valor mínimo da envoltória	-0.008	0.001	0.134	0.001	0.124	-0.018
		Valor máximo da envoltória	0.004	0.016	0.414	0.001	0.383	-0.003
	Tensões sobre o terreno	Valor mínimo da envoltória	-0.006	0.001	0.134	0.001	0.124	-0.013
		Valor máximo da envoltória	0.002	0.012	0.310	0.001	0.288	-0.003
N1079	Concreto em fundações	Valor mínimo da envoltória	-0.015	0.002	0.136	0.001	0.130	-0.021
		Valor máximo da envoltória	0.009	0.018	0.419	0.001	0.397	-0.004
	Tensões sobre o terreno	Valor mínimo da envoltória	-0.009	0.002	0.136	0.001	0.130	-0.015
		Valor máximo da envoltória	0.007	0.013	0.314	0.001	0.297	-0.004
N1081	Concreto em fundações	Valor mínimo da envoltória	-0.041	0.002	0.129	0.001	0.120	-0.018
		Valor máximo da envoltória	-0.005	0.017	0.394	0.001	0.360	-0.003
	Tensões sobre o terreno	Valor mínimo da envoltória	-0.030	0.002	0.129	0.001	0.120	-0.013
		Valor máximo da envoltória	-0.005	0.012	0.295	0.001	0.270	-0.003

Nota: As combinações de concreto indicadas são as mesmas utilizadas para verificar o estado limite de equilíbrio na fundação.

2.2.- Barras

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

Barras	VERIFICAÇÕES (ABNT NBR 14762:2010)													Estado
	b/t	λ	N_t	N_c	M_x	M_y	V_x	V_y	M_xV_y	M_yV_x	$N_cM_xM_y$	$N_tM_xM_y$	M_t	
N1/N230	x: 0.075 m (b_w/t) ≤ 90 Passa	λ_{xx} ≤ 300.0 λ_{yy} ≤ 300.0 Passa	η = 23.0	$N_{c,Sd}$ = 0.00 N.A.(1)	M_{Sd} = 0.00 N.A.(2)	x: 0 m η = 55.9	x: 0.075 m η = 20.0	η = 0.1	N.A.(3)	x: 0 m η = 35.2	N.A.(4)	x: 0 m η = 78.9	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 78.9**
N230/N227	(b_w/t) ≤ 90 Passa	λ_{xx} ≤ 300.0 λ_{yy} ≤ 300.0 Passa	η = 20.3	$N_{c,Sd}$ = 0.00 N.A.(1)	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0.285 m η = 0.2	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 20.3**
N227/N224	(b_w/t) ≤ 90 Passa	λ_{xx} ≤ 300.0 λ_{yy} ≤ 300.0 Passa	η = 20.2	$N_{c,Sd}$ = 0.00 N.A.(1)	M_{Sd} = 0.00 N.A.(2)	x: 0.47 m η = 7.8	x: 0 m η = 0.3	η < 0.1	N.A.(3)	x: 0.47 m η = 0.6	N.A.(4)	x: 0.47 m η = 28.2	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 28.2**

Barras	VERIFICAÇÕES (ABNT NBR 14762:2010)													Estado
	b/t	λ	N_t	N_c	M_x	M_y	V_x	V_y	M_xV_y	M_yV_x	$N_cM_xM_y$	$N_tM_xM_y$	M_t	
N224/N223	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	η = 11.3	$N_{c,Sd}$ = 0.00 N.A.(1)	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0.47 m η = 0.3	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 11.3**
N223/N220	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	η = 11.1	$N_{c,Sd}$ = 0.00 N.A.(1)	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0 m η = 0.1	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 11.1**
N220/N219	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	η = 1.9	$N_{c,Sd}$ = 0.00 N.A.(1)	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0.47 m η = 0.1	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 1.9**
N219/N217	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	η = 1.8	$N_{c,Sd}$ = 0.00 N.A.(1)	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0.47 m η = 0.1	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 1.8**
N217/N215	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 14.3	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0 m η = 0.1	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 14.3**
N215/N213	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 14.5	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0.47 m η = 0.2	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 14.5**
N213/N211	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 32.5	M_{Sd} = 0.00 N.A.(2)	x: 0 m η = 6.9	x: 0 m η = 0.1	η < 0.1	N.A.(3)	x: 0 m η = 0.5	x: 0 m η = 39.5	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 39.5**
N211/N206	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 32.8	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0 m η = 0.4	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 32.8**
N206/N204	x: 0 m $(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 42.7	M_{Sd} = 0.00 N.A.(2)	x: 0.15 m η = 63.8	x: 0.15 m η = 13.4	η = 0.1	N.A.(3)	x: 0.15 m η = 42.5	x: 0.15 m η = 93.0	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 93.0**
N208/N468	x: 0.068 m $(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 37.7	x: 0 m η = 1.2	x: 0 m η = 47.2	x: 0 m η = 11.6	η = 0.1	x: 0 m η < 0.1	x: 0 m η = 23.6	x: 0 m η = 85.9	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 85.9**
N468/N465	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 37.3	M_{Sd} = 0.00 N.A.(2)	x: 0.47 m η = 9.2	x: 0.47 m η = 0.7	η = 0.1	N.A.(3)	x: 0.47 m η = 0.9	x: 0.47 m η = 46.9	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 46.9**
N465/N464	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 20.8	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0 m η = 0.3	η = 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 20.8**
N464/N461	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 20.6	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0.47 m η = 0.1	η = 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 20.6**
N461/N460	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 4.7	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0 m η = 0.1	η = 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 4.7**
N460/N457	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 4.5	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0 m η = 0.1	η = 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 4.5**
N457/N456	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	η = 6.3	$N_{c,Sd}$ = 0.00 N.A.(1)	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0.47 m η = 0.1	η = 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 6.3**
N456/N453	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	η = 6.4	$N_{c,Sd}$ = 0.00 N.A.(1)	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0 m η = 0.2	η = 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 6.4**
N453/N452	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	η = 15.0	$N_{c,Sd}$ = 0.00 N.A.(1)	x: 0.47 m η = 1.2	M_{Sd} = 0.00 N.A.(2)	x: 0.47 m η = 0.2	η = 0.1	x: 0.47 m η < 0.1	N.A.(3)	N.A.(4)	x: 0.47 m η = 19.2	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 19.2**
N452/N305	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	η = 15.1	$N_{c,Sd}$ = 0.00 N.A.(1)	x: 0.47 m η = 1.8	M_{Sd} = 0.00 N.A.(2)	x: 0 m η = 0.2	η = 0.1	x: 0.47 m η < 0.1	N.A.(3)	N.A.(4)	x: 0.47 m η = 18.8	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 18.8**
N305/N190	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	η = 19.3	$N_{c,Sd}$ = 0.00 N.A.(1)	x: 0.075 m η = 2.0	x: 0.075 m η = 54.6	x: 0 m η = 18.6	η = 0.1	x: 0.075 m η < 0.1	x: 0.075 m η = 33.3	N.A.(4)	x: 0.075 m η = 75.7	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 75.7**
N15/N253	x: 0.075 m $(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 39.7	M_{Sd} = 0.00 N.A.(2)	x: 0 m η = 62.7	x: 0 m η = 23.0	η < 0.1	N.A.(3)	x: 0 m η = 44.7	x: 0 m η = 97.1	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 97.1**
N253/N249	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 36.7	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0 m η = 0.9	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 36.7**
N249/N246	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 36.4	M_{Sd} = 0.00 N.A.(2)	x: 0.47 m η = 9.0	x: 0.47 m η = 0.4	η < 0.1	N.A.(3)	x: 0.47 m η = 0.8	x: 0.47 m η = 45.8	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 45.8**
N246/N245	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 18.9	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0 m η = 0.3	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 18.9**
N245/N242	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 18.6	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0.47 m η = 0.1	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 18.6**
N242/N241	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	η = 0.1	η = 2.1	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0 m η = 0.1	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 2.1**
N241/N238	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	η = 0.1	η = 1.9	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0 m η = 0.1	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 1.9**
N238/N237	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	η = 8.8	$N_{c,Sd}$ = 0.00 N.A.(1)	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0.47 m η = 0.1	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 8.8**
N237/N234	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	η = 8.9	$N_{c,Sd}$ = 0.00 N.A.(1)	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0 m η = 0.2	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 8.9**
N234/N233	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	η = 18.1	$N_{c,Sd}$ = 0.00 N.A.(1)	M_{Sd} = 0.00 N.A.(2)	x: 0 m η = 6.9	x: 0.47 m η = 0.2	η < 0.1	N.A.(3)	x: 0 m η = 0.5	N.A.(4)	x: 0 m η = 25.4	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 25.4**
N233/N231	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	η = 18.2	$N_{c,Sd}$ = 0.00 N.A.(1)	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0 m η = 0.2	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 18.2**

Barras	VERIFICAÇÕES (ABNT NBR 14762:2010)													Estado
	b/t	λ	N_t	N_c	M_x	M_y	V_x	V_y	M_xV_y	M_yV_x	$N_cM_xM_y$	$N_tM_xM_y$	M_t	
N231/N1	x: 0 m (b_w/t) ≤ 90 Passa	λ_{xx} ≤ 300.0 λ_{yy} ≤ 300.0 Passa	η = 22.7	$N_{c,Sd}$ = 0.00 N.A.(1)	M_{Sd} = 0.00 N.A.(2)	x: 0.075 m η = 56.6	x: 0 m η = 19.5	η < 0.1	N.A.(3)	x: 0.075 m η = 35.8	N.A.(4)	x: 0.075 m η = 79.7	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 79.7**
N38/N275	x: 0.075 m (b_w/t) ≤ 90 Passa	λ_{xx} ≤ 300.0 λ_{yy} ≤ 300.0 Passa	η = 21.5	$N_{c,Sd}$ = 0.00 N.A.(1)	M_{Sd} = 0.00 N.A.(2)	x: 0 m η = 56.2	x: 0.075 m η = 17.5	η < 0.1	N.A.(3)	x: 0 m η = 34.6	N.A.(4)	x: 0 m η = 78.3	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 78.3**
N275/N271	(b_w/t) ≤ 90 Passa	λ_{xx} ≤ 300.0 λ_{yy} ≤ 300.0 Passa	η = 16.8	$N_{c,Sd}$ = 0.00 N.A.(1)	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0.58 m η = 0.3	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 16.8**
N271/N268	(b_w/t) ≤ 90 Passa	λ_{xx} ≤ 300.0 λ_{yy} ≤ 300.0 Passa	η = 16.7	$N_{c,Sd}$ = 0.00 N.A.(1)	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0 m η = 0.2	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 16.7**
N268/N267	(b_w/t) ≤ 90 Passa	λ_{xx} ≤ 300.0 λ_{yy} ≤ 300.0 Passa	η = 8.7	$N_{c,Sd}$ = 0.00 N.A.(1)	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0.47 m η = 0.2	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 8.7**
N267/N264	(b_w/t) ≤ 90 Passa	λ_{xx} ≤ 300.0 λ_{yy} ≤ 300.0 Passa	η = 8.6	$N_{c,Sd}$ = 0.00 N.A.(1)	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0 m η = 0.1	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 8.6**
N264/N263	(b_w/t) ≤ 90 Passa	λ_{xx} ≤ 300.0 λ_{yy} ≤ 300.0 Passa	η = 0.5	$N_{c,Sd}$ = 0.00 N.A.(1)	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0.47 m η = 0.1	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 0.5**
N263/N260	(b_w/t) ≤ 90 Passa	λ_{xx} ≤ 300.0 λ_{yy} ≤ 300.0 Passa	η = 0.4	$N_{c,Sd}$ = 0.00 N.A.(1)	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0.47 m η = 0.1	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 0.4**
N260/N259	(b_w/t) ≤ 90 Passa	λ_{xx} ≤ 200.0 λ_{yy} ≤ 200.0 Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 15.9	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0 m η = 0.1	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 15.9**
N259/N256	(b_w/t) ≤ 90 Passa	λ_{xx} ≤ 200.0 λ_{yy} ≤ 200.0 Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 16.2	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0.47 m η = 0.3	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 16.2**
N256/N255	(b_w/t) ≤ 90 Passa	λ_{xx} ≤ 200.0 λ_{yy} ≤ 200.0 Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 33.1	M_{Sd} = 0.00 N.A.(2)	x: 0 m η = 7.0	x: 0 m η = 0.2	η < 0.1	N.A.(3)	x: 0 m η = 0.5	x: 0 m η = 40.5	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 40.5**
N255/N251	(b_w/t) ≤ 90 Passa	λ_{xx} ≤ 200.0 λ_{yy} ≤ 200.0 Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 33.4	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0.47 m η = 0.1	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 33.4**
N251/N15	x: 0 m (b_w/t) ≤ 90 Passa	λ_{xx} ≤ 200.0 λ_{yy} ≤ 200.0 Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 42.0	M_{Sd} = 0.00 N.A.(2)	x: 0.075 m η = 53.8	x: 0.075 m η = 18.9	η < 0.1	N.A.(3)	x: 0.075 m η = 32.6	x: 0.075 m η = 96.4	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 96.4**
N53/N279	x: 0.075 m (b_w/t) ≤ 90 Passa	λ_{xx} ≤ 200.0 λ_{yy} ≤ 200.0 Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 40.1	M_{Sd} = 0.00 N.A.(2)	x: 0 m η = 59.9	x: 0 m η = 20.9	η = 0.1	N.A.(3)	x: 0 m η = 40.2	x: 0 m η = 99.4	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 99.4**
N279/N322	(b_w/t) ≤ 90 Passa	λ_{xx} ≤ 200.0 λ_{yy} ≤ 200.0 Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 39.9	M_{Sd} = 0.00 N.A.(2)	x: 0.51 m η = 9.8	x: 0.51 m η = 0.6	η = 0.1	N.A.(3)	x: 0.51 m η = 1.0	x: 0.51 m η = 50.0	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 50.0**
N322/N321	(b_w/t) ≤ 90 Passa	λ_{xx} ≤ 200.0 λ_{yy} ≤ 200.0 Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 22.3	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0 m η = 0.3	η = 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 22.3**
N321/N318	(b_w/t) ≤ 90 Passa	λ_{xx} ≤ 200.0 λ_{yy} ≤ 200.0 Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 22.0	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0.47 m η = 0.1	η = 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 22.0**
N318/N317	(b_w/t) ≤ 90 Passa	λ_{xx} ≤ 200.0 λ_{yy} ≤ 200.0 Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 5.4	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0 m η = 0.1	η = 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 5.4**
N317/N314	(b_w/t) ≤ 90 Passa	λ_{xx} ≤ 200.0 λ_{yy} ≤ 200.0 Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 5.2	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0 m η = 0.1	η = 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 5.2**
N314/N313	(b_w/t) ≤ 90 Passa	λ_{xx} ≤ 300.0 λ_{yy} ≤ 300.0 Passa	η = 6.4	$N_{c,Sd}$ = 0.00 N.A.(1)	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0.47 m η = 0.1	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 6.4**
N313/N310	(b_w/t) ≤ 90 Passa	λ_{xx} ≤ 300.0 λ_{yy} ≤ 300.0 Passa	η = 6.5	$N_{c,Sd}$ = 0.00 N.A.(1)	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0 m η = 0.2	η = 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 6.5**
N310/N309	(b_w/t) ≤ 90 Passa	λ_{xx} ≤ 300.0 λ_{yy} ≤ 300.0 Passa	η = 15.5	$N_{c,Sd}$ = 0.00 N.A.(1)	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0.47 m η = 0.2	η = 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 15.5**
N309/N273	(b_w/t) ≤ 90 Passa	λ_{xx} ≤ 300.0 λ_{yy} ≤ 300.0 Passa	η = 15.6	$N_{c,Sd}$ = 0.00 N.A.(1)	x: 0.47 m η = 1.2	M_{Sd} = 0.00 N.A.(2)	x: 0 m η = 0.2	η = 0.1	x: 0.47 m η < 0.1	N.A.(3)	N.A.(4)	x: 0.47 m η = 18.2	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 18.2**
N273/N38	x: 0 m (b_w/t) ≤ 90 Passa	λ_{xx} ≤ 300.0 λ_{yy} ≤ 300.0 Passa	η = 20.1	$N_{c,Sd}$ = 0.00 N.A.(1)	x: 0.075 m η = 1.4	x: 0.075 m η = 55.7	x: 0 m η = 19.4	η = 0.1	x: 0.075 m η < 0.1	x: 0.075 m η = 34.8	N.A.(4)	x: 0.075 m η = 77.0	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 77.0**
N76/N283	x: 0.075 m (b_w/t) ≤ 90 Passa	λ_{xx} ≤ 300.0 λ_{yy} ≤ 300.0 Passa	η = 20.1	$N_{c,Sd}$ = 0.00 N.A.(1)	M_{Sd} = 0.00 N.A.(2)	x: 0 m η = 53.0	x: 0.075 m η = 18.4	η = 0.1	N.A.(3)	x: 0 m η = 31.5	N.A.(4)	x: 0 m η = 74.1	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 74.1**
N283/N340	(b_w/t) ≤ 90 Passa	λ_{xx} ≤ 300.0 λ_{yy} ≤ 300.0 Passa	η = 20.0	$N_{c,Sd}$ = 0.00 N.A.(1)	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0 m η = 0.5	η = 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 20.0**
N340/N338	(b_w/t) ≤ 90 Passa	λ_{xx} ≤ 300.0 λ_{yy} ≤ 300.0 Passa	η = 20.0	$N_{c,Sd}$ = 0.00 N.A.(1)	M_{Sd} = 0.00 N.A.(2)	x: 0.47 m η = 8.5	x: 0 m η = 0.5	η = 0.1	N.A.(3)	x: 0.47 m η = 0.7	N.A.(4)	x: 0.47 m η = 29.1	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 29.1**
N338/N337	(b_w/t) ≤ 90 Passa	λ_{xx} ≤ 300.0 λ_{yy} ≤ 300.0 Passa	η = 10.5	$N_{c,Sd}$ = 0.00 N.A.(1)	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0.47 m η = 0.2	η = 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 10.5**
N337/N334	(b_w/t) ≤ 90 Passa	λ_{xx} ≤ 300.0 λ_{yy} ≤ 300.0 Passa	η = 10.4	$N_{c,Sd}$ = 0.00 N.A.(1)	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0 m η = 0.1	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 10.4**
N334/N333	(b_w/t) ≤ 90 Passa	λ_{xx} ≤ 300.0 λ_{yy} ≤ 300.0 Passa	η = 1.5	$N_{c,Sd}$ = 0.00 N.A.(1)	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0.47 m η = 0.1	η = 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 1.5**
N333/N330	(b_w/t) ≤ 90 Passa	λ_{xx} ≤ 300.0 λ_{yy} ≤ 300.0 Passa	η = 1.4	$N_{c,Sd}$ = 0.00 N.A.(1)	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0.47 m η = 0.1	η = 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 1.4**

Barras	VERIFICAÇÕES (ABNT NBR 14762:2010)													Estado
	b/t	λ	N_t	N_c	M_x	M_y	V_x	V_y	M_xV_y	M_yV_x	$N_cM_xM_y$	$N_tM_xM_y$	M_t	
N330/N329	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	η = 14.4	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m η = 0.1	η = 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 14.4**
N329/N326	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	η = 14.7	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0.47 m η = 0.2	η = 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 14.7**
N326/N325	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	η = 31.4	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m η = 6.9	x: 0 m η = 0.2	η < 0.1	N.A.(3)	x: 0 m η = 0.5	x: 0 m η = 38.5	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 38.5**
N325/N277	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	η = 31.7	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0.47 m η = 0.1	η = 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 31.7**
N277/N53	x: 0 m $(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	η = 40.1	$M_{Sd} = 0.00$ N.A.(2)	x: 0.075 m η = 66.9	x: 0.075 m η = 22.9	η = 0.1	N.A.(3)	x: 0.075 m η = 50.0	x: 0.075 m η = 92.4	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 92.4**
N91/N287	x: 0.075 m $(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	η = 41.2	x: 0 m η = 1.2	x: 0 m η = 52.2	x: 0 m η = 16.9	η < 0.1	x: 0 m η < 0.1	x: 0 m η = 30.1	x: 0 m η = 91.3	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 91.3**
N287/N359	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	η = 41.0	x: 0 m η = 1.2	x: 0.32 m η = 7.4	x: 0.32 m η = 0.7	η = 0.1	x: 0 m η < 0.1	x: 0.32 m η = 0.6	x: 0.32 m η = 48.6	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 48.6**
N359/N358	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	η = 27.2	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m η = 0.4	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 27.2**
N358/N355	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	η = 26.9	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0.47 m η = 0.2	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 26.9**
N355/N354	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	η = 0.1	η = 10.9	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m η = 0.2	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 10.9**
N354/N351	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	η = 0.1	η = 10.6	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0.47 m η = 0.1	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 10.6**
N351/N350	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	η = 4.0	$N_{c,Sd} = 0.00$ N.A.(1)	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m η = 0.1	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 4.0**
N350/N347	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	η = 4.1	$N_{c,Sd} = 0.00$ N.A.(1)	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m η = 0.1	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 4.1**
N347/N346	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	η = 10.8	$N_{c,Sd} = 0.00$ N.A.(1)	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0.47 m η = 0.1	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 10.8**
N346/N343	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	η = 10.9	$N_{c,Sd} = 0.00$ N.A.(1)	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m η = 0.2	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 10.9**
N343/N342	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	η = 17.8	$N_{c,Sd} = 0.00$ N.A.(1)	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0.47 m η = 0.2	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 17.8**
N342/N281	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	η = 17.9	$N_{c,Sd} = 0.00$ N.A.(1)	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m η = 0.1	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 17.9**
N281/N76	x: 0 m $(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	η = 21.2	$N_{c,Sd} = 0.00$ N.A.(1)	$M_{Sd} = 0.00$ N.A.(2)	x: 0.075 m η = 49.4	x: 0 m η = 16.5	η < 0.1	N.A.(3)	x: 0.075 m η = 27.1	N.A.(4)	x: 0.075 m η = 70.3	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 70.3**
N114/N291	x: 0.038 m $(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	η = 20.3	$N_{c,Sd} = 0.00$ N.A.(1)	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m η = 49.4	x: 0.075 m η = 16.2	η < 0.1	N.A.(3)	x: 0 m η = 27.0	N.A.(4)	x: 0 m η = 70.0	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 70.0**
N291/N378	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	η = 16.2	$N_{c,Sd} = 0.00$ N.A.(1)	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0.54 m η = 0.2	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 16.2**
N378/N375	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	η = 16.0	$N_{c,Sd} = 0.00$ N.A.(1)	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m η = 0.2	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 16.0**
N375/N374	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	η = 8.5	$N_{c,Sd} = 0.00$ N.A.(1)	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0.47 m η = 0.2	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 8.5**
N374/N371	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	η = 8.3	$N_{c,Sd} = 0.00$ N.A.(1)	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m η = 0.1	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 8.3**
N371/N370	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	η = 0.6	η = 2.7	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0.47 m η = 0.1	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 2.7**
N370/N367	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	η = 0.4	η = 2.8	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0.47 m η = 0.1	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 2.8**
N367/N366	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	η = 15.2	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m η = 0.1	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 15.2**
N366/N363	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	η = 15.5	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0.47 m η = 0.2	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 15.5**
N363/N362	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	η = 31.1	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m η = 0.2	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 31.1**
N362/N285	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	η = 31.3	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m η = 0.2	η = 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 31.3**
N285/N91	x: 0 m $(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	η = 39.4	x: 0.075 m η = 1.3	x: 0.075 m η = 58.1	x: 0.075 m η = 19.9	η < 0.1	x: 0.075 m η < 0.1	x: 0.075 m η = 37.7	x: 0.075 m η = 98.0	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 98.0**
N129/N295	x: 0.038 m $(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	η = 40.4	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m η = 56.6	x: 0 m η = 20.6	η < 0.1	N.A.(3)	x: 0 m η = 36.3	x: 0 m η = 97.2	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 97.2**

Barras	VERIFICAÇÕES (ABNT NBR 14762:2010)													Estado
	b/t	λ	N_t	N_c	M_x	M_y	V_x	V_y	M_xV_y	M_yV_x	$N_cM_xM_y$	$N_tM_xM_y$	M_t	
N295/N396	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	$\eta = 34.8$	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m $\eta = 0.1$	$\eta < 0.1$	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 34.8$**
N396/N393	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	$\eta = 34.5$	$M_{Sd} = 0.00$ N.A.(2)	x: 0.47 m $\eta = 7.6$	x: 0.47 m $\eta = 0.3$	$\eta < 0.1$	N.A.(3)	x: 0.47 m $\eta = 0.6$	x: 0.47 m $\eta = 42.3$	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 42.3$**
N393/N392	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	$\eta = 18.1$	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m $\eta = 0.3$	$\eta < 0.1$	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 18.1$**
N392/N389	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	$\eta = 17.8$	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0.47 m $\eta = 0.1$	$\eta < 0.1$	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 17.8$**
N389/N388	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	$\eta = 1.7$	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m $\eta = 0.1$	$\eta < 0.1$	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 1.7$**
N388/N385	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	$\eta = 1.5$	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m $\eta = 0.1$	$\eta < 0.1$	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 1.5$**
N385/N384	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	$\eta = 7.7$	$N_{c,Sd} = 0.00$ N.A.(1)	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0.47 m $\eta = 0.1$	$\eta < 0.1$	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 7.7$**
N384/N381	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	$\eta = 7.9$	$N_{c,Sd} = 0.00$ N.A.(1)	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m $\eta = 0.2$	$\eta < 0.1$	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 7.9$**
N381/N380	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	$\eta = 16.1$	$N_{c,Sd} = 0.00$ N.A.(1)	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0.47 m $\eta = 0.2$	$\eta < 0.1$	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 16.1$**
N380/N289	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	$\eta = 16.2$	$N_{c,Sd} = 0.00$ N.A.(1)	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m $\eta = 0.2$	$\eta < 0.1$	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 16.2$**
N289/N114	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	$\eta = 20.3$	$N_{c,Sd} = 0.00$ N.A.(1)	$M_{Sd} = 0.00$ N.A.(2)	x: 0.075 m $\eta = 54.0$	x: 0 m $\eta = 18.0$	$\eta < 0.1$	N.A.(3)	x: 0.075 m $\eta = 32.4$	N.A.(4)	x: 0.075 m $\eta = 74.4$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 74.4$**
N152/N299	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	$\eta = 21.0$	$N_{c,Sd} = 0.00$ N.A.(1)	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m $\eta = 51.6$	x: 0.075 m $\eta = 17.7$	$\eta < 0.1$	N.A.(3)	x: 0 m $\eta = 29.7$	N.A.(4)	x: 0 m $\eta = 72.8$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 72.8$**
N299/N414	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	$\eta = 17.4$	$N_{c,Sd} = 0.00$ N.A.(1)	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0.43 m $\eta = 0.2$	$\eta < 0.1$	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 17.4$**
N414/N411	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	$\eta = 17.2$	$N_{c,Sd} = 0.00$ N.A.(1)	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m $\eta = 0.2$	$\eta < 0.1$	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 17.2$**
N411/N410	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	$\eta = 9.1$	$N_{c,Sd} = 0.00$ N.A.(1)	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0.47 m $\eta = 0.2$	$\eta < 0.1$	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 9.1$**
N410/N407	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	$\eta = 9.0$	$N_{c,Sd} = 0.00$ N.A.(1)	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m $\eta = 0.1$	$\eta < 0.1$	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 9.0$**
N407/N406	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	$\eta = 0.7$	$N_{c,Sd} = 0.00$ N.A.(1)	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0.47 m $\eta = 0.1$	$\eta < 0.1$	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 0.7$**
N406/N403	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	$\eta = 0.6$	$N_{c,Sd} = 0.00$ N.A.(1)	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0.47 m $\eta = 0.1$	$\eta < 0.1$	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 0.6$**
N403/N402	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	$\eta = 15.6$	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m $\eta = 0.1$	$\eta < 0.1$	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 15.6$**
N402/N399	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	$\eta = 15.8$	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0.47 m $\eta = 0.2$	$\eta < 0.1$	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 15.8$**
N399/N398	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	$\eta = 32.6$	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m $\eta = 6.8$	x: 0 m $\eta = 0.2$	$\eta < 0.1$	N.A.(3)	x: 0 m $\eta = 0.5$	x: 0 m $\eta = 39.5$	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 39.5$**
N398/N293	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	$\eta = 32.9$	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0.47 m $\eta = 0.2$	$\eta < 0.1$	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 32.9$**
N293/N129	x: 0 m $(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	$\eta = 41.4$	$M_{Sd} = 0.00$ N.A.(2)	x: 0.075 m $\eta = 58.9$	x: 0.075 m $\eta = 20.0$	$\eta < 0.1$	N.A.(3)	x: 0.075 m $\eta = 38.6$	x: 0.075 m $\eta = 99.7$	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 99.7$**
N167/N303	x: 0.038 m $(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	$\eta = 39.1$	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m $\eta = 59.9$	x: 0 m $\eta = 20.0$	$\eta < 0.1$	N.A.(3)	x: 0 m $\eta = 39.8$	x: 0 m $\eta = 99.5$	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 99.5$**
N303/N432	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	$\eta = 31.7$	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m $\eta = 0.2$	$\eta < 0.1$	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 31.7$**
N432/N429	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	$\eta = 31.5$	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0.47 m $\eta = 0.2$	$\eta < 0.1$	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 31.5$**
N429/N428	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	$\eta = 15.1$	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m $\eta = 0.2$	$\eta < 0.1$	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 15.1$**
N428/N425	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	$\eta = 14.8$	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0.47 m $\eta = 0.1$	$\eta < 0.1$	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 14.8$**
N425/N424	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	$\eta = 0.6$	$N_{c,Sd} = 0.00$ N.A.(1)	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m $\eta = 0.1$	$\eta < 0.1$	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 0.6$**
N424/N421	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	$\eta = 0.7$	$N_{c,Sd} = 0.00$ N.A.(1)	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m $\eta = 0.1$	$\eta < 0.1$	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 0.7$**
N421/N420	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	$\eta = 8.9$	$N_{c,Sd} = 0.00$ N.A.(1)	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0.47 m $\eta = 0.1$	$\eta < 0.1$	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 8.9$**

Barras	VERIFICAÇÕES (ABNT NBR 14762:2010)													Estado
	b/t	λ	N_t	N_c	M_x	M_y	V_x	V_y	M_xV_y	M_yV_x	$N_cM_xM_y$	$N_tM_xM_y$	M_t	
N420/N417	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	η = 9.0	$N_{c,Sd}$ = 0.00 N.A.(1)	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0 m η = 0.2	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 9.0**
N417/N416	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	η = 17.0	$N_{c,Sd}$ = 0.00 N.A.(1)	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0.47 m η = 0.2	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 17.0**
N416/N297	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	η = 17.1	$N_{c,Sd}$ = 0.00 N.A.(1)	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0 m η = 0.2	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 17.1**
N297/N152	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	η = 21.0	$N_{c,Sd}$ = 0.00 N.A.(1)	M_{Sd} = 0.00 N.A.(2)	x: 0.075 m η = 51.6	x: 0 m η = 17.2	η < 0.1	N.A.(3)	x: 0.075 m η = 29.5	N.A.(4)	x: 0.075 m η = 72.6	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 72.6**
N190/N307	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	η = 19.9	$N_{c,Sd}$ = 0.00 N.A.(1)	M_{Sd} = 0.00 N.A.(2)	x: 0 m η = 49.9	x: 0.075 m η = 16.1	η = 0.1	N.A.(3)	x: 0 m η = 27.5	N.A.(4)	x: 0 m η = 70.9	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 70.9**
N307/N450	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	η = 15.6	$N_{c,Sd}$ = 0.00 N.A.(1)	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0.56 m η = 0.2	η = 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 15.6**
N450/N447	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	η = 15.5	$N_{c,Sd}$ = 0.00 N.A.(1)	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0 m η = 0.2	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 15.5**
N447/N446	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	η = 8.0	$N_{c,Sd}$ = 0.00 N.A.(1)	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0.47 m η = 0.2	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 8.0**
N446/N443	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	η = 7.9	$N_{c,Sd}$ = 0.00 N.A.(1)	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0 m η = 0.1	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 7.9**
N443/N442	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	η = 0.3	$N_{c,Sd}$ = 0.00 N.A.(1)	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0.47 m η = 0.1	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 0.3**
N442/N439	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	η = 0.2	η < 0.1	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0.47 m η = 0.1	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 0.2**
N439/N438	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 15.3	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0 m η = 0.1	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 15.3**
N438/N435	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 15.6	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0.47 m η = 0.2	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 15.6**
N435/N434	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 31.5	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0 m η = 0.2	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 31.5**
N434/N301	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 31.7	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0.47 m η = 0.1	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 31.7**
N301/N167	x: 0 m $(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 39.9	M_{Sd} = 0.00 N.A.(2)	x: 0.075 m η = 51.9	x: 0.075 m η = 18.3	η < 0.1	N.A.(3)	x: 0.075 m η = 30.3	x: 0.075 m η = 91.8	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 91.8**
N2/N482	x: 0.075 m $(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	η = 25.0	$N_{c,Sd}$ = 0.00 N.A.(1)	M_{Sd} = 0.00 N.A.(2)	x: 0 m η = 60.9	x: 0.075 m η = 21.9	η = 0.1	N.A.(3)	x: 0 m η = 41.8	N.A.(4)	x: 0 m η = 86.1	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 86.1**
N482/N483	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	η = 22.1	$N_{c,Sd}$ = 0.00 N.A.(1)	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0.285 m η = 0.2	η = 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 22.1**
N483/N484	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	η = 21.9	$N_{c,Sd}$ = 0.00 N.A.(1)	M_{Sd} = 0.00 N.A.(2)	x: 0.47 m η = 8.7	x: 0 m η = 0.3	η = 0.1	N.A.(3)	x: 0.47 m η = 0.7	N.A.(4)	x: 0.47 m η = 30.7	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 30.7**
N484/N485	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	η = 12.2	$N_{c,Sd}$ = 0.00 N.A.(1)	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0.47 m η = 0.3	η = 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 12.2**
N485/N486	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	η = 12.0	$N_{c,Sd}$ = 0.00 N.A.(1)	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0 m η = 0.1	η = 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 12.0**
N486/N487	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	η = 2.0	$N_{c,Sd}$ = 0.00 N.A.(1)	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0.47 m η = 0.1	η = 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 2.0**
N487/N488	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	η = 1.8	$N_{c,Sd}$ = 0.00 N.A.(1)	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0.47 m η = 0.1	η = 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 1.8**
N488/N489	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 15.8	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0 m η = 0.1	η = 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 15.8**
N489/N490	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 16.1	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0.47 m η = 0.2	η = 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 16.1**
N490/N491	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 35.7	M_{Sd} = 0.00 N.A.(2)	x: 0 m η = 7.5	x: 0 m η = 0.1	η = 0.1	N.A.(3)	x: 0 m η = 0.6	x: 0 m η = 43.3	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 43.3**
N491/N480	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 35.9	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0 m η = 0.4	η = 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 35.9**
N480/N481	x: 0 m $(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 46.7	M_{Sd} = 0.00 N.A.(2)	x: 0.15 m η = 69.2	x: 0.15 m η = 14.6	η = 0.1	N.A.(3)	x: 0.15 m η = 50.1	x: 0.15 m η = 99.9	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 99.9**
N504/N503	x: 0.068 m $(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 49.6	x: 0 m η = 2.1	x: 0 m η = 61.4	x: 0 m η = 15.1	η = 0.2	x: 0 m η < 0.1	x: 0 m η = 40.0	x: 0 m η = 98.9	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 98.9**
N503/N502	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 49.0	x: 0 m η = 1.8	x: 0.47 m η = 12.0	x: 0.47 m η = 0.9	η = 0.2	x: 0 m η < 0.1	x: 0.47 m η = 1.5	x: 0.47 m η = 62.0	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 62.0**
N502/N501	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 27.5	x: 0 m η = 1.5	M_{Sd} = 0.00 N.A.(2)	x: 0 m η = 0.4	η = 0.2	x: 0 m η < 0.1	N.A.(3)	x: 0 m η = 33.8	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 33.8**

Barras	VERIFICAÇÕES (ABNT NBR 14762:2010)													Estado
	b/t	λ	N_t	N_c	M_x	M_y	V_x	V_y	M_xV_y	M_yV_x	$N_cM_xM_y$	$N_tM_xM_y$	M_t	
N501/N500	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	$\eta = 27.2$	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0.47 m $\eta = 0.2$	$\eta = 0.2$	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** η **= 27.2**
N500/N499	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	$\eta = 6.4$	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m $\eta = 0.2$	$\eta = 0.2$	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** η **= 6.4**
N499/N498	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	$\eta = 6.1$	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m $\eta = 0.1$	$\eta = 0.2$	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** η **= 6.1**
N498/N497	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	$\eta = 8.2$	$N_{c,Sd} = 0.00$ N.A.(1)	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0.47 m $\eta = 0.1$	$\eta = 0.2$	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** η **= 8.2**
N497/N496	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	$\eta = 8.3$	$N_{c,Sd} = 0.00$ N.A.(1)	x: 0.47 m $\eta = 1.8$	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m $\eta = 0.3$	$\eta = 0.2$	x: 0.47 m $\eta < 0.1$	N.A.(3)	N.A.(4)	x: 0.47 m $\eta = 11.8$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** η **= 11.8**
N496/N495	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	$\eta = 19.8$	$N_{c,Sd} = 0.00$ N.A.(1)	x: 0.47 m $\eta = 2.0$	x: 0 m $\eta = 7.9$	x: 0.47 m $\eta = 0.2$	$\eta = 0.2$	x: 0.47 m $\eta < 0.1$	x: 0 m $\eta = 0.6$	N.A.(4)	x: 0 m $\eta = 28.9$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** η **= 28.9**
N495/N494	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	$\eta = 19.9$	$N_{c,Sd} = 0.00$ N.A.(1)	x: 0.47 m $\eta = 2.9$	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m $\eta = 0.2$	$\eta = 0.2$	x: 0.47 m $\eta = 0.1$	N.A.(3)	N.A.(4)	x: 0.47 m $\eta = 25.6$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** η **= 25.6**
N494/N191	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	$\eta = 25.5$	$N_{c,Sd} = 0.00$ N.A.(1)	x: 0.075 m $\eta = 3.2$	x: 0.075 m $\eta = 73.1$	x: 0 m $\eta = 24.8$	$\eta = 0.2$	x: 0.075 m $\eta = 0.1$	x: 0.075 m $\eta = 59.5$	N.A.(4)	x: 0.075 m $\eta = 91.8$	$\eta = 4.4$	**PASSA** η **= 91.8**
N17/N506	x: 0.075 m $(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	$\eta = 45.8$	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m $\eta = 67.2$	x: 0 m $\eta = 25.4$	$\eta < 0.1$	N.A.(3)	x: 0 m $\eta = 51.7$	x: 0 m $\eta = 93.0$	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** η **= 93.0**
N506/N507	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	$\eta = 42.3$	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m $\eta = 0.9$	$\eta < 0.1$	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** η **= 42.3**
N507/N508	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	$\eta = 42.1$	$M_{Sd} = 0.00$ N.A.(2)	x: 0.47 m $\eta = 10.2$	x: 0.47 m $\eta = 0.5$	$\eta < 0.1$	N.A.(3)	x: 0.47 m $\eta = 1.0$	x: 0.47 m $\eta = 52.3$	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** η **= 52.3**
N508/N509	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	$\eta = 22.6$	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m $\eta = 0.3$	$\eta < 0.1$	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** η **= 22.6**
N509/N510	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	$\eta = 22.3$	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0.47 m $\eta = 0.1$	$V_{Sd} = 0.00$ N.A.(8)	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** η **= 22.3**
N510/N511	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta < 0.1$	$\eta = 3.0$	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m $\eta = 0.1$	$\eta < 0.1$	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** η **= 3.0**
N511/N512	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 0.1$	$\eta = 2.7$	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m $\eta = 0.1$	$\eta < 0.1$	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** η **= 2.7**
N512/N513	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	$\eta = 9.0$	$N_{c,Sd} = 0.00$ N.A.(1)	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0.47 m $\eta = 0.1$	$\eta < 0.1$	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** η **= 9.0**
N513/N514	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	$\eta = 9.1$	$N_{c,Sd} = 0.00$ N.A.(1)	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m $\eta = 0.3$	$\eta < 0.1$	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** η **= 9.1**
N514/N515	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	$\eta = 19.4$	$N_{c,Sd} = 0.00$ N.A.(1)	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m $\eta = 7.6$	x: 0.47 m $\eta = 0.2$	$V_{Sd} = 0.00$ N.A.(8)	N.A.(3)	x: 0 m $\eta = 0.6$	N.A.(4)	x: 0 m $\eta = 27.7$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** η **= 27.7**
N515/N516	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	$\eta = 19.6$	$N_{c,Sd} = 0.00$ N.A.(1)	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m $\eta = 0.2$	$\eta < 0.1$	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** η **= 19.6**
N516/N2	x: 0 m $(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	$\eta = 24.6$	$N_{c,Sd} = 0.00$ N.A.(1)	$M_{Sd} = 0.00$ N.A.(2)	x: 0.075 m $\eta = 63.9$	x: 0 m $\eta = 21.9$	$\eta < 0.1$	N.A.(3)	x: 0.075 m $\eta = 45.7$	N.A.(4)	x: 0.075 m $\eta = 89.5$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** η **= 89.5**
N39/N527	x: 0.075 m $(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	$\eta = 25.5$	$N_{c,Sd} = 0.00$ N.A.(1)	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m $\eta = 64.6$	x: 0.075 m $\eta = 20.5$	$\eta = 0.1$	N.A.(3)	x: 0 m $\eta = 46.0$	N.A.(4)	x: 0 m $\eta = 90.6$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** η **= 90.6**
N527/N526	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	$\eta = 20.0$	$N_{c,Sd} = 0.00$ N.A.(1)	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0.58 m $\eta = 0.3$	$\eta = 0.1$	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** η **= 20.0**
N526/N525	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	$\eta = 19.8$	$N_{c,Sd} = 0.00$ N.A.(1)	$M_{Sd} = 0.00$ N.A.(2)	x: 0.47 m $\eta = 7.2$	x: 0 m $\eta = 0.2$	$\eta < 0.1$	N.A.(3)	x: 0.47 m $\eta = 0.5$	N.A.(4)	x: 0.47 m $\eta = 27.0$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** η **= 27.0**
N525/N524	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	$\eta = 10.4$	$N_{c,Sd} = 0.00$ N.A.(1)	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0.47 m $\eta = 0.2$	$\eta = 0.1$	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** η **= 10.4**
N524/N523	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	$\eta = 10.2$	$N_{c,Sd} = 0.00$ N.A.(1)	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m $\eta = 0.1$	$\eta = 0.1$	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** η **= 10.2**
N523/N522	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	$\eta = 0.6$	$N_{c,Sd} = 0.00$ N.A.(1)	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0.47 m $\eta = 0.1$	$\eta = 0.1$	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** η **= 0.6**
N522/N521	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	$\eta = 0.5$	$N_{c,Sd} = 0.00$ N.A.(1)	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0.47 m $\eta = 0.1$	$\eta = 0.1$	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** η **= 0.5**
N521/N520	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	$\eta = 18.4$	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m $\eta = 0.1$	$\eta < 0.1$	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** η **= 18.4**
N520/N519	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	$\eta = 18.7$	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0.47 m $\eta = 0.3$	$\eta = 0.1$	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** η **= 18.7**
N519/N518	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	$\eta = 38.5$	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m $\eta = 7.9$	x: 0 m $\eta = 0.2$	$\eta < 0.1$	N.A.(3)	x: 0 m $\eta = 0.6$	x: 0 m $\eta = 47.0$	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** η **= 47.0**
N518/N517	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	$\eta = 38.8$	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0.47 m $\eta = 0.2$	$\eta = 0.1$	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** η **= 38.8**

Barras	VERIFICAÇÕES (ABNT NBR 14762:2010)													Estado
	b/t	λ	N_t	N_c	M_x	M_y	V_x	V_y	M_xV_y	M_yV_x	$N_cM_xM_y$	$N_tM_xM_y$	M_t	
N517/N17	x: 0 m (b_w/t) ≤ 90 Passa	λ_{xx} ≤ 200.0 λ_{yy} ≤ 200.0 Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 48.9	M_{Sd} = 0.00 N.A.(2)	x: 0.075 m η = 64.9	x: 0.075 m η = 22.3	η = 0.1	N.A.(3)	x: 0.075 m η = 47.1	x: 0.075 m η = 94.9	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 94.9**
N55/N537	x: 0.075 m (b_w/t) ≤ 90 Passa	λ_{xx} ≤ 200.0 λ_{yy} ≤ 200.0 Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 49.5	M_{Sd} = 0.00 N.A.(2)	x: 0 m η = 72.6	x: 0 m η = 25.4	η = 0.1	N.A.(3)	x: 0 m η = 59.2	x: 0 m η = 99.9	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 99.9**
N537/N536	(b_w/t) ≤ 90 Passa	λ_{xx} ≤ 200.0 λ_{yy} ≤ 200.0 Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 49.2	M_{Sd} = 0.00 N.A.(2)	x: 0.51 m η = 12.1	x: 0.51 m η = 0.8	η = 0.1	N.A.(3)	x: 0.51 m η = 1.5	x: 0.51 m η = 62.0	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 62.0**
N536/N535	(b_w/t) ≤ 90 Passa	λ_{xx} ≤ 200.0 λ_{yy} ≤ 200.0 Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 27.7	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0 m η = 0.3	η = 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 27.7**
N535/N534	(b_w/t) ≤ 90 Passa	λ_{xx} ≤ 200.0 λ_{yy} ≤ 200.0 Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 27.4	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0.47 m η = 0.2	η = 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 27.4**
N534/N533	(b_w/t) ≤ 90 Passa	λ_{xx} ≤ 200.0 λ_{yy} ≤ 200.0 Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 7.0	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0 m η = 0.2	η = 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 7.0**
N533/N532	(b_w/t) ≤ 90 Passa	λ_{xx} ≤ 200.0 λ_{yy} ≤ 200.0 Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 6.7	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0 m η = 0.1	η = 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 6.7**
N532/N531	(b_w/t) ≤ 90 Passa	λ_{xx} ≤ 300.0 λ_{yy} ≤ 300.0 Passa	η = 7.6	$N_{c,Sd}$ = 0.00 N.A.(1)	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0.47 m η = 0.1	η = 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 7.6**
N531/N530	(b_w/t) ≤ 90 Passa	λ_{xx} ≤ 300.0 λ_{yy} ≤ 300.0 Passa	η = 7.8	$N_{c,Sd}$ = 0.00 N.A.(1)	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0 m η = 0.3	η = 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 7.8**
N530/N529	(b_w/t) ≤ 90 Passa	λ_{xx} ≤ 300.0 λ_{yy} ≤ 300.0 Passa	η = 19.0	$N_{c,Sd}$ = 0.00 N.A.(1)	M_{Sd} = 0.00 N.A.(2)	x: 0 m η = 7.6	x: 0.47 m η = 0.2	η = 0.1	N.A.(3)	x: 0 m η = 0.6	N.A.(4)	x: 0 m η = 27.1	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 27.1**
N529/N528	(b_w/t) ≤ 90 Passa	λ_{xx} ≤ 300.0 λ_{yy} ≤ 300.0 Passa	η = 19.1	$N_{c,Sd}$ = 0.00 N.A.(1)	x: 0.47 m η = 1.2	M_{Sd} = 0.00 N.A.(2)	x: 0 m η = 0.2	η = 0.1	x: 0.47 m η < 0.1	N.A.(3)	N.A.(4)	x: 0.47 m η = 22.7	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 22.7**
N528/N39	x: 0 m (b_w/t) ≤ 90 Passa	λ_{xx} ≤ 300.0 λ_{yy} ≤ 300.0 Passa	η = 24.6	$N_{c,Sd}$ = 0.00 N.A.(1)	x: 0.075 m η = 1.4	x: 0.075 m η = 70.8	x: 0 m η = 24.2	η = 0.1	x: 0.075 m η < 0.1	x: 0.075 m η = 56.0	N.A.(4)	x: 0.075 m η = 96.7	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 96.7**
N77/N548	x: 0.075 m (b_w/t) ≤ 90 Passa	λ_{xx} ≤ 300.0 λ_{yy} ≤ 300.0 Passa	η = 25.8	$N_{c,Sd}$ = 0.00 N.A.(1)	x: 0 m η = 1.5	x: 0 m η = 66.6	x: 0.075 m η = 23.4	η = 0.1	x: 0 m η < 0.1	x: 0 m η = 49.8	N.A.(4)	x: 0 m η = 93.9	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 93.9**
N548/N547	(b_w/t) ≤ 90 Passa	λ_{xx} ≤ 300.0 λ_{yy} ≤ 300.0 Passa	η = 25.7	$N_{c,Sd}$ = 0.00 N.A.(1)	x: 0 m η = 1.4	M_{Sd} = 0.00 N.A.(2)	x: 0 m η = 0.7	η = 0.1	x: 0 m η < 0.1	N.A.(3)	N.A.(4)	x: 0 m η = 29.3	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 29.3**
N547/N546	(b_w/t) ≤ 90 Passa	λ_{xx} ≤ 300.0 λ_{yy} ≤ 300.0 Passa	η = 25.7	$N_{c,Sd}$ = 0.00 N.A.(1)	x: 0 m η = 1.4	x: 0.47 m η = 11.2	x: 0 m η = 0.7	η = 0.1	x: 0 m η < 0.1	x: 0.47 m η = 1.2	N.A.(4)	x: 0.47 m η = 37.8	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 37.8**
N546/N545	(b_w/t) ≤ 90 Passa	λ_{xx} ≤ 300.0 λ_{yy} ≤ 300.0 Passa	η = 13.6	$N_{c,Sd}$ = 0.00 N.A.(1)	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0.47 m η = 0.3	η = 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 13.6**
N545/N544	(b_w/t) ≤ 90 Passa	λ_{xx} ≤ 300.0 λ_{yy} ≤ 300.0 Passa	η = 13.4	$N_{c,Sd}$ = 0.00 N.A.(1)	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0 m η = 0.2	η = 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 13.4**
N544/N543	(b_w/t) ≤ 90 Passa	λ_{xx} ≤ 300.0 λ_{yy} ≤ 300.0 Passa	η = 1.9	$N_{c,Sd}$ = 0.00 N.A.(1)	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0.47 m η = 0.2	η = 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 1.9**
N543/N542	(b_w/t) ≤ 90 Passa	λ_{xx} ≤ 300.0 λ_{yy} ≤ 300.0 Passa	η = 1.7	$N_{c,Sd}$ = 0.00 N.A.(1)	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0.47 m η = 0.1	η = 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 1.7**
N542/N541	(b_w/t) ≤ 90 Passa	λ_{xx} ≤ 200.0 λ_{yy} ≤ 200.0 Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 17.6	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0 m η = 0.1	η = 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 17.6**
N541/N540	(b_w/t) ≤ 90 Passa	λ_{xx} ≤ 200.0 λ_{yy} ≤ 200.0 Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 18.0	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0.47 m η = 0.3	η = 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 18.0**
N540/N539	(b_w/t) ≤ 90 Passa	λ_{xx} ≤ 200.0 λ_{yy} ≤ 200.0 Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 38.9	M_{Sd} = 0.00 N.A.(2)	x: 0 m η = 8.5	x: 0 m η = 0.2	η = 0.1	N.A.(3)	x: 0 m η = 0.7	x: 0 m η = 47.8	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 47.8**
N539/N538	(b_w/t) ≤ 90 Passa	λ_{xx} ≤ 200.0 λ_{yy} ≤ 200.0 Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 39.3	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0.47 m η = 0.1	η = 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 39.3**
N538/N55	x: 0 m (b_w/t) ≤ 90 Passa	λ_{xx} ≤ 200.0 λ_{yy} ≤ 200.0 Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 49.8	M_{Sd} = 0.00 N.A.(2)	x: 0.075 m η = 83.7	x: 0.075 m η = 28.6	η = 0.1	N.A.(3)	x: 0.075 m η = 78.3	x: 0.075 m η = 99.8	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 99.8**
N93/N559	x: 0.075 m (b_w/t) ≤ 90 Passa	λ_{xx} ≤ 200.0 λ_{yy} ≤ 200.0 Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 53.4	x: 0 m η = 1.2	x: 0 m η = 63.5	x: 0 m η = 21.6	η < 0.1	x: 0 m η < 0.1	x: 0 m η = 45.0	x: 0 m η = 97.7	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 97.7**
N559/N560	(b_w/t) ≤ 90 Passa	λ_{xx} ≤ 200.0 λ_{yy} ≤ 200.0 Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 53.1	x: 0 m η = 1.2	x: 0.32 m η = 9.6	x: 0.32 m η = 0.9	η = 0.1	x: 0 m η < 0.1	x: 0.32 m η = 0.9	x: 0.32 m η = 63.4	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 63.4**
N560/N558	(b_w/t) ≤ 90 Passa	λ_{xx} ≤ 200.0 λ_{yy} ≤ 200.0 Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 35.4	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0 m η = 0.4	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 35.4**
N558/N557	(b_w/t) ≤ 90 Passa	λ_{xx} ≤ 200.0 λ_{yy} ≤ 200.0 Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 35.1	M_{Sd} = 0.00 N.A.(2)	x: 0.47 m η = 7.3	x: 0.47 m η = 0.2	η < 0.1	N.A.(3)	x: 0.47 m η = 0.5	x: 0.47 m η = 42.8	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 42.8**
N557/N556	(b_w/t) ≤ 90 Passa	λ_{xx} ≤ 200.0 λ_{yy} ≤ 200.0 Passa	η = 0.1	η = 14.2	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0 m η = 0.2	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 14.2**
N556/N555	(b_w/t) ≤ 90 Passa	λ_{xx} ≤ 200.0 λ_{yy} ≤ 200.0 Passa	η = 0.1	η = 13.9	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0.47 m η = 0.1	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 13.9**
N555/N554	(b_w/t) ≤ 90 Passa	λ_{xx} ≤ 300.0 λ_{yy} ≤ 300.0 Passa	η = 3.9	$N_{c,Sd}$ = 0.00 N.A.(1)	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0 m η = 0.1	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 3.9**

Barras	VERIFICAÇÕES (ABNT NBR 14762:2010)													Estado
	b/t	λ	N_t	N_c	M_x	M_y	V_x	V_y	M_xV_y	M_yV_x	$N_cM_xM_y$	$N_tM_xM_y$	M_t	
N554/N553	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	$\eta = 4.1$	$N_{c,Sd} = 0.00$ N.A.(1)	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m $\eta = 0.1$	$\eta < 0.1$	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA $\eta = 4.1$**
N553/N552	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	$\eta = 12.9$	$N_{c,Sd} = 0.00$ N.A.(1)	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0.47 m $\eta = 0.1$	$\eta < 0.1$	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA $\eta = 12.9$**
N552/N551	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	$\eta = 13.0$	$N_{c,Sd} = 0.00$ N.A.(1)	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m $\eta = 0.3$	$\eta < 0.1$	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA $\eta = 13.0$**
N551/N550	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	$\eta = 22.4$	$N_{c,Sd} = 0.00$ N.A.(1)	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m $\eta = 8.0$	x: 0.47 m $\eta = 0.2$	$\eta < 0.1$	N.A.(3)	x: 0 m $\eta = 0.6$	N.A.(4)	x: 0 m $\eta = 30.5$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA $\eta = 30.5$**
N550/N549	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	$\eta = 22.6$	$N_{c,Sd} = 0.00$ N.A.(1)	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m $\eta = 0.2$	$\eta < 0.1$	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA $\eta = 22.6$**
N549/N77	x: 0 m $(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	$\eta = 27.0$	$N_{c,Sd} = 0.00$ N.A.(1)	$M_{Sd} = 0.00$ N.A.(2)	x: 0.075 m $\eta = 66.1$	x: 0 m $\eta = 22.0$	$\eta < 0.1$	N.A.(3)	x: 0.075 m $\eta = 48.5$	N.A.(4)	x: 0.075 m $\eta = 93.2$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA $\eta = 93.2$**
N115/N571	x: 0.038 m $(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	$\eta = 26.7$	$N_{c,Sd} = 0.00$ N.A.(1)	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m $\eta = 65.3$	x: 0.075 m $\eta = 21.5$	$\eta < 0.1$	N.A.(3)	x: 0 m $\eta = 47.2$	N.A.(4)	x: 0 m $\eta = 92.2$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA $\eta = 92.2$**
N571/N570	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	$\eta = 21.2$	$N_{c,Sd} = 0.00$ N.A.(1)	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0.54 m $\eta = 0.2$	$\eta < 0.1$	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA $\eta = 21.2$**
N570/N569	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	$\eta = 21.0$	$N_{c,Sd} = 0.00$ N.A.(1)	$M_{Sd} = 0.00$ N.A.(2)	x: 0.47 m $\eta = 7.8$	x: 0 m $\eta = 0.2$	$\eta < 0.1$	N.A.(3)	x: 0.47 m $\eta = 0.6$	N.A.(4)	x: 0.47 m $\eta = 28.9$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA $\eta = 28.9$**
N569/N568	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	$\eta = 11.0$	$N_{c,Sd} = 0.00$ N.A.(1)	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0.47 m $\eta = 0.3$	$\eta < 0.1$	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA $\eta = 11.0$**
N568/N567	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	$\eta = 10.9$	$N_{c,Sd} = 0.00$ N.A.(1)	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m $\eta = 0.1$	$\eta < 0.1$	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA $\eta = 10.9$**
N567/N566	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 0.7$	$\eta = 2.6$	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0.47 m $\eta = 0.1$	$\eta < 0.1$	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA $\eta = 2.6$**
N566/N565	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 0.5$	$\eta = 2.7$	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0.47 m $\eta = 0.1$	$\eta < 0.1$	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA $\eta = 2.7$**
N565/N564	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	$\eta = 19.3$	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m $\eta = 0.1$	$\eta < 0.1$	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA $\eta = 19.3$**
N564/N563	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	$\eta = 19.6$	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0.47 m $\eta = 0.3$	$\eta < 0.1$	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA $\eta = 19.6$**
N563/N562	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	$\eta = 40.4$	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m $\eta = 8.2$	x: 0 m $\eta = 0.2$	$\eta < 0.1$	N.A.(3)	x: 0 m $\eta = 0.7$	x: 0 m $\eta = 48.6$	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA $\eta = 48.6$**
N562/N561	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	$\eta = 40.7$	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m $\eta = 0.2$	$\eta = 0.1$	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA $\eta = 40.7$**
N561/N93	x: 0 m $(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	$\eta = 51.1$	x: 0.075 m $\eta = 1.2$	x: 0.075 m $\eta = 74.7$	x: 0.075 m $\eta = 25.6$	$\eta < 0.1$	x: 0.075 m $\eta < 0.1$	x: 0.075 m $\eta = 62.3$	x: 0.075 m $\eta = 95.9$	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA $\eta = 95.9$**
N131/N582	x: 0.038 m $(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	$\eta = 52.4$	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m $\eta = 72.9$	x: 0 m $\eta = 26.5$	$\eta < 0.1$	N.A.(3)	x: 0 m $\eta = 60.2$	x: 0 m $\eta = 95.6$	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA $\eta = 95.6$**
N582/N581	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	$\eta = 45.2$	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m $\eta = 0.2$	$\eta < 0.1$	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA $\eta = 45.2$**
N581/N580	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	$\eta = 44.9$	$M_{Sd} = 0.00$ N.A.(2)	x: 0.47 m $\eta = 9.9$	x: 0.47 m $\eta = 0.3$	$\eta < 0.1$	N.A.(3)	x: 0.47 m $\eta = 1.0$	x: 0.47 m $\eta = 54.9$	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA $\eta = 54.9$**
N580/N579	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	$\eta = 23.6$	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m $\eta = 0.3$	$\eta < 0.1$	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA $\eta = 23.6$**
N579/N578	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	$\eta = 23.3$	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0.47 m $\eta = 0.1$	$\eta < 0.1$	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA $\eta = 23.3$**
N578/N577	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	$\eta = 2.3$	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m $\eta = 0.2$	$\eta < 0.1$	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA $\eta = 2.3$**
N577/N576	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	$\eta = 2.0$	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m $\eta = 0.1$	$\eta < 0.1$	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA $\eta = 2.0$**
N576/N575	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	$\eta = 10.1$	$N_{c,Sd} = 0.00$ N.A.(1)	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0.47 m $\eta = 0.1$	$\eta < 0.1$	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA $\eta = 10.1$**
N575/N574	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	$\eta = 10.2$	$N_{c,Sd} = 0.00$ N.A.(1)	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m $\eta = 0.3$	$\eta < 0.1$	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA $\eta = 10.2$**
N574/N573	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	$\eta = 21.1$	$N_{c,Sd} = 0.00$ N.A.(1)	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m $\eta = 8.1$	x: 0.47 m $\eta = 0.2$	$\eta < 0.1$	N.A.(3)	x: 0 m $\eta = 0.7$	N.A.(4)	x: 0 m $\eta = 29.4$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA $\eta = 29.4$**
N573/N572	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	$\eta = 21.3$	$N_{c,Sd} = 0.00$ N.A.(1)	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m $\eta = 0.3$	$\eta < 0.1$	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA $\eta = 21.3$**
N572/N115	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	$\eta = 26.6$	$N_{c,Sd} = 0.00$ N.A.(1)	$M_{Sd} = 0.00$ N.A.(2)	x: 0.075 m $\eta = 71.7$	x: 0 m $\eta = 23.9$	$\eta < 0.1$	N.A.(3)	x: 0.075 m $\eta = 57.1$	N.A.(4)	x: 0.075 m $\eta = 98.7$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA $\eta = 98.7$**
N153/N584	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	$\eta = 27.6$	$N_{c,Sd} = 0.00$ N.A.(1)	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m $\eta = 68.3$	x: 0.075 m $\eta = 23.5$	$\eta < 0.1$	N.A.(3)	x: 0 m $\eta = 52.2$	N.A.(4)	x: 0 m $\eta = 96.3$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA $\eta = 96.3$**

Barras	VERIFICAÇÕES (ABNT NBR 14762:2010)													Estado
	b/t	λ	N_t	N_c	M_x	M_y	V_x	V_y	M_xV_y	M_yV_x	$N_cM_xM_y$	$N_tM_xM_y$	M_t	
N584/N585	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	η = 22.8	$N_{c,Sd}$ = 0.00 N.A.(1)	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0.43 m η = 0.2	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 22.8**
N585/N586	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	η = 22.6	$N_{c,Sd}$ = 0.00 N.A.(1)	M_{Sd} = 0.00 N.A.(2)	x: 0.47 m η = 8.6	x: 0 m η = 0.2	η < 0.1	N.A.(3)	x: 0.47 m η = 0.7	N.A.(4)	x: 0.47 m η = 31.4	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 31.4**
N586/N587	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	η = 11.9	$N_{c,Sd}$ = 0.00 N.A.(1)	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0.47 m η = 0.3	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 11.9**
N587/N588	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	η = 11.7	$N_{c,Sd}$ = 0.00 N.A.(1)	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0 m η = 0.1	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 11.7**
N588/N589	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	η = 0.7	$N_{c,Sd}$ = 0.00 N.A.(1)	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0.47 m η = 0.1	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 0.7**
N589/N590	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	η = 0.6	$N_{c,Sd}$ = 0.00 N.A.(1)	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0.47 m η = 0.1	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 0.6**
N590/N591	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 20.4	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0 m η = 0.1	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 20.4**
N591/N592	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 20.7	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0.47 m η = 0.3	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 20.7**
N592/N593	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 42.4	M_{Sd} = 0.00 N.A.(2)	x: 0 m η = 8.9	x: 0 m η = 0.2	η < 0.1	N.A.(3)	x: 0 m η = 0.8	x: 0 m η = 51.7	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 51.7**
N593/N583	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 42.8	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0.47 m η = 0.2	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 42.8**
N583/N131	x: 0 m $(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 53.8	M_{Sd} = 0.00 N.A.(2)	x: 0.075 m η = 75.8	x: 0.075 m η = 25.7	η < 0.1	N.A.(3)	x: 0.075 m η = 64.1	x: 0.075 m η = 99.7	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 99.7**
N169/N604	x: 0.038 m $(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 51.0	M_{Sd} = 0.00 N.A.(2)	x: 0 m η = 77.0	x: 0 m η = 25.8	η < 0.1	N.A.(3)	x: 0 m η = 66.0	x: 0 m η = 98.1	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 98.1**
N604/N603	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 41.4	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0 m η = 0.3	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 41.4**
N603/N602	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 41.1	M_{Sd} = 0.00 N.A.(2)	x: 0.47 m η = 8.7	x: 0.47 m η = 0.3	η < 0.1	N.A.(3)	x: 0.47 m η = 0.8	x: 0.47 m η = 50.1	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 50.1**
N602/N601	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 19.9	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0 m η = 0.3	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 19.9**
N601/N600	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 19.6	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0.47 m η = 0.1	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 19.6**
N600/N599	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	η = 0.7	$N_{c,Sd}$ = 0.00 N.A.(1)	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0 m η = 0.1	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 0.7**
N599/N598	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	η = 0.9	$N_{c,Sd}$ = 0.00 N.A.(1)	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0 m η = 0.1	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 0.9**
N598/N597	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	η = 11.6	$N_{c,Sd}$ = 0.00 N.A.(1)	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0.47 m η = 0.1	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 11.6**
N597/N596	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	η = 11.8	$N_{c,Sd}$ = 0.00 N.A.(1)	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0 m η = 0.3	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 11.8**
N596/N595	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	η = 22.3	$N_{c,Sd}$ = 0.00 N.A.(1)	M_{Sd} = 0.00 N.A.(2)	x: 0 m η = 8.4	x: 0.47 m η = 0.2	η < 0.1	N.A.(3)	x: 0 m η = 0.7	N.A.(4)	x: 0 m η = 30.9	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 30.9**
N595/N594	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	η = 22.4	$N_{c,Sd}$ = 0.00 N.A.(1)	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0 m η = 0.2	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 22.4**
N594/N153	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	η = 27.5	$N_{c,Sd}$ = 0.00 N.A.(1)	M_{Sd} = 0.00 N.A.(2)	x: 0.075 m η = 68.6	x: 0 m η = 22.9	η < 0.1	N.A.(3)	x: 0.075 m η = 52.3	N.A.(4)	x: 0.075 m η = 96.6	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 96.6**
N191/N615	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	η = 26.4	$N_{c,Sd}$ = 0.00 N.A.(1)	M_{Sd} = 0.00 N.A.(2)	x: 0 m η = 66.7	x: 0.075 m η = 21.6	η = 0.1	N.A.(3)	x: 0 m η = 49.2	N.A.(4)	x: 0 m η = 94.0	η = 4.5	**PASSA η = 94.0**
N615/N614	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	η = 20.7	$N_{c,Sd}$ = 0.00 N.A.(1)	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0.56 m η = 0.2	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 20.7**
N614/N613	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	η = 20.5	$N_{c,Sd}$ = 0.00 N.A.(1)	M_{Sd} = 0.00 N.A.(2)	x: 0.47 m η = 7.5	x: 0 m η = 0.2	η < 0.1	N.A.(3)	x: 0.47 m η = 0.6	N.A.(4)	x: 0.47 m η = 28.5	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 28.5**
N613/N612	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	η = 10.6	$N_{c,Sd}$ = 0.00 N.A.(1)	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0.47 m η = 0.3	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 10.6**
N612/N611	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	η = 10.4	$N_{c,Sd}$ = 0.00 N.A.(1)	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0 m η = 0.1	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 10.4**
N611/N610	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	η = 0.3	$N_{c,Sd}$ = 0.00 N.A.(1)	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0.47 m η = 0.1	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 0.3**
N610/N609	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	η = 0.2	η < 0.1	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0.47 m η = 0.1	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 0.2**
N609/N608	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 20.0	M_{Sd} = 0.00 N.A.(2)	M_{Sd} = 0.00 N.A.(2)	x: 0 m η = 0.1	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA η = 20.0**

Barras	VERIFICAÇÕES (ABNT NBR 14762:2010)													Estado
	b/t	λ	N_t	N_c	M_x	M_y	V_x	V_y	M_xV_y	M_yV_x	$N_cM_xM_y$	$N_tM_xM_y$	M_t	
N608/N607	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	$\eta = 20.3$	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0.47 m $\eta = 0.3$	$\eta < 0.1$	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 20.3$**
N607/N606	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	$\eta = 41.0$	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m $\eta = 8.4$	x: 0 m $\eta = 0.2$	$\eta < 0.1$	N.A.(3)	x: 0 m $\eta = 0.7$	x: 0 m $\eta = 49.9$	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 49.9$**
N606/N605	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	$\eta = 41.4$	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0.47 m $\eta = 0.1$	$\eta < 0.1$	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 41.4$**
N605/N169	x: 0 m $(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	$\eta = 51.9$	$M_{Sd} = 0.00$ N.A.(2)	x: 0.075 m $\eta = 67.3$	x: 0.075 m $\eta = 23.6$	$\eta < 0.1$	N.A.(3)	x: 0.075 m $\eta = 50.9$	x: 0.075 m $\eta = 99.8$	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 99.8$**
N977/N975	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	$\eta = 0.6$	x: 0 m $\eta = 26.3$	x: 0 m $\eta = 8.3$	x: 0 m $\eta = 0.5$	x: 0 m $\eta = 5.3$	x: 0 m $\eta = 7.2$	x: 0 m $\eta = 0.7$	x: 0 m $\eta = 33.9$	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 33.9$**
N975/N976	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	$\eta = 0.6$	x: 2.37 m $\eta = 49.2$	x: 2.37 m $\eta = 9.2$	x: 2.37 m $\eta = 0.6$	x: 2.37 m $\eta = 6.6$	x: 2.37 m $\eta = 24.6$	x: 2.37 m $\eta = 0.9$	x: 2.37 m $\eta = 58.3$	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 58.3$**
N979/N1306	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	$\eta = 1.4$	$N_{c,Sd} = 0.00$ N.A.(1)	x: 0 m $\eta = 26.3$	$M_{Sd} = 0.00$ N.A.(2)	x: 0.4 m $\eta = 0.3$	x: 0 m $\eta = 0.8$	x: 0 m $\eta = 6.9$	N.A.(3)	N.A.(4)	x: 0.4 m $\eta = 30.2$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 30.2$**
N1306/N978	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 0.1$	$\eta = 0.3$	x: 0 m $\eta = 31.9$	x: 0 m $\eta = 5.0$	x: 0 m $\eta = 0.5$	x: 0 m $\eta = 5.2$	x: 0 m $\eta = 8.8$	x: 0 m $\eta = 0.2$	x: 0 m $\eta = 36.6$	x: 0 m $\eta = 31.4$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 36.6$**
N978/N977	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 0.1$	$\eta = 0.4$	x: 2.27 m $\eta = 30.6$	x: 2.27 m $\eta = 6.7$	x: 2.27 m $\eta = 0.5$	x: 2.27 m $\eta = 5.1$	x: 2.27 m $\eta = 7.1$	x: 2.27 m $\eta = 0.4$	x: 2.27 m $\eta = 36.0$	x: 2.27 m $\eta = 30.6$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 36.0$**
N981/N1336	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	$\eta = 0.8$	$N_{c,Sd} = 0.00$ N.A.(1)	x: 0 m $\eta = 13.9$	x: 0 m $\eta = 6.1$	x: 0 m $\eta = 0.2$	x: 0 m $\eta = 0.9$	x: 0 m $\eta = 1.9$	x: 0 m $\eta = 0.4$	N.A.(4)	x: 0 m $\eta = 19.4$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 19.4$**
N1336/N980	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	$\eta = 1.1$	x: 1.872 m $\eta = 19.8$	x: 0 m $\eta = 5.8$	x: 0 m $\eta = 0.5$	x: 0 m $\eta = 4.7$	x: 1.664 m $\eta = 3.7$	x: 0 m $\eta = 0.3$	x: 0 m $\eta = 24.8$	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 24.8$**
N980/N1307	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	$\eta = 1.2$	x: 2.08 m $\eta = 37.9$	x: 2.08 m $\eta = 6.8$	x: 2.08 m $\eta = 0.5$	x: 2.08 m $\eta = 5.7$	x: 2.08 m $\eta = 11.5$	x: 2.08 m $\eta = 0.5$	x: 2.08 m $\eta = 45.5$	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 45.5$**
N1307/N979	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	$\eta = 1.4$	$N_{c,Sd} = 0.00$ N.A.(1)	x: 0 m $\eta = 29.4$	x: 0 m $\eta = 5.9$	x: 0 m $\eta = 0.4$	x: 0 m $\eta = 1.4$	x: 0 m $\eta = 8.7$	x: 0 m $\eta = 0.4$	N.A.(4)	x: 0 m $\eta = 36.3$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 36.3$**
N983/N982	x: 0 m $(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	$\eta = 0.2$	$N_{c,Sd} = 0.00$ N.A.(1)	x: 0 m $\eta = 40.4$	x: 0 m $\eta = 7.4$	x: 0 m $\eta = 0.5$	x: 0 m $\eta = 5.0$	x: 0 m $\eta = 12.4$	x: 0 m $\eta = 0.6$	N.A.(4)	x: 0 m $\eta = 47.7$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 47.7$**
N982/N1337	x: 0 m $(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	$\eta = 0.2$	$N_{c,Sd} = 0.00$ N.A.(1)	x: 0.181 m $\eta = 13.0$	$M_{Sd} = 0.00$ N.A.(2)	x: 1.81 m $\eta = 0.4$	x: 1.81 m $\eta = 3.5$	x: 0.181 m $\eta = 1.7$	N.A.(3)	N.A.(4)	x: 0.181 m $\eta = 16.0$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 16.0$**
N1337/N981	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	$\eta = 0.8$	$N_{c,Sd} = 0.00$ N.A.(1)	x: 0.4 m $\eta = 14.0$	$M_{Sd} = 0.00$ N.A.(2)	x: 0.4 m $\eta = 0.2$	x: 0.4 m $\eta = 1.9$	x: 0.4 m $\eta = 2.0$	N.A.(3)	N.A.(4)	x: 0.4 m $\eta = 18.4$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 18.4$**
N985/N1364	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	$\eta = 0.8$	$N_{c,Sd} = 0.00$ N.A.(1)	x: 0 m $\eta = 13.5$	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m $\eta = 0.3$	x: 0 m $\eta = 1.9$	x: 0 m $\eta = 1.9$	N.A.(3)	N.A.(4)	x: 0 m $\eta = 17.9$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 17.9$**
N1364/N984	x: 0 m $(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	$\eta = 0.2$	$N_{c,Sd} = 0.00$ N.A.(1)	x: 1.638 m $\eta = 13.5$	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m $\eta = 0.4$	x: 0 m $\eta = 3.5$	x: 1.638 m $\eta = 1.8$	N.A.(3)	N.A.(4)	x: 1.638 m $\eta = 16.4$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 16.4$**
N984/N983	x: 0 m $(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	$\eta = 0.1$	$N_{c,Sd} = 0.00$ N.A.(1)	x: 2.22 m $\eta = 40.5$	x: 2.22 m $\eta = 7.4$	x: 2.22 m $\eta = 0.5$	x: 2.22 m $\eta = 5.0$	x: 2.22 m $\eta = 12.4$	x: 2.22 m $\eta = 0.6$	N.A.(4)	x: 2.22 m $\eta = 48.0$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 48.0$**
N987/N1392	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	$\eta = 1.3$	$N_{c,Sd} = 0.00$ N.A.(1)	x: 0.4 m $\eta = 26.3$	x: 0.4 m $\eta = 6.3$	x: 0.4 m $\eta = 0.2$	x: 0.4 m $\eta = 1.5$	x: 0.4 m $\eta = 6.9$	x: 0.4 m $\eta = 0.4$	N.A.(4)	x: 0.4 m $\eta = 33.7$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 33.7$**
N1392/N986	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	$\eta = 1.1$	x: 0 m $\eta = 35.0$	x: 0 m $\eta = 7.5$	x: 0 m $\eta = 0.6$	x: 0 m $\eta = 5.0$	x: 0 m $\eta = 9.4$	x: 0 m $\eta = 0.6$	x: 0 m $\eta = 43.5$	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 43.5$**
N986/N1365	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	$\eta = 1.1$	x: 2.185 m $\eta = 18.2$	x: 2.185 m $\eta = 6.5$	x: 2.185 m $\eta = 0.5$	x: 2.185 m $\eta = 4.2$	x: 0.219 m $\eta = 3.3$	x: 2.185 m $\eta = 0.4$	x: 2.185 m $\eta = 25.7$	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 25.7$**
N1365/N985	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	$\eta = 0.8$	$N_{c,Sd} = 0.00$ N.A.(1)	x: 0.4 m $\eta = 13.5$	x: 0.4 m $\eta = 6.6$	x: 0.4 m $\eta = 0.2$	x: 0.4 m $\eta = 0.6$	x: 0.4 m $\eta = 1.8$	x: 0.4 m $\eta = 0.4$	N.A.(4)	x: 0 m $\eta = 20.1$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 20.1$**
N989/N988	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 0.2$	$\eta = 0.4$	x: 0 m $\eta = 27.5$	x: 0 m $\eta = 8.4$	x: 0 m $\eta = 0.6$	x: 0 m $\eta = 4.4$	x: 0 m $\eta = 5.3$	x: 0 m $\eta = 0.7$	x: 0 m $\eta = 35.9$	x: 0 m $\eta = 32.7$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 35.9$**
N988/N1393	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 0.2$	$\eta = 0.3$	x: 2.06 m $\eta = 32.6$	x: 2.06 m $\eta = 6.3$	x: 2.06 m $\eta = 0.5$	x: 2.06 m $\eta = 4.7$	x: 2.06 m $\eta = 8.6$	x: 2.06 m $\eta = 0.4$	x: 2.06 m $\eta = 39.2$	x: 2.06 m $\eta = 35.5$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 39.2$**
N1393/N987	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	$\eta = 1.3$	$N_{c,Sd} = 0.00$ N.A.(1)	x: 0 m $\eta = 25.6$	x: 0.4 m $\eta = 6.0$	x: 0.4 m $\eta = 0.3$	x: 0 m $\eta = 0.8$	x: 0 m $\eta = 6.6$	x: 0.4 m $\eta = 0.4$	N.A.(4)	x: 0 m $\eta = 32.5$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 32.5$**
N991/N990	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 0.1$	$\eta = 0.2$	x: 0 m $\eta = 46.9$	x: 0 m $\eta = 8.6$	x: 0 m $\eta = 0.6$	x: 0 m $\eta = 5.2$	x: 0 m $\eta = 15.8$	x: 0 m $\eta = 0.7$	x: 0 m $\eta = 55.6$	x: 0 m $\eta = 50.0$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 55.6$**
N990/N989	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 0.1$	$\eta = 0.2$	x: 2.345 m $\eta = 26.8$	x: 2.345 m $\eta = 8.0$	x: 2.345 m $\eta = 0.5$	x: 2.345 m $\eta = 4.3$	x: 2.345 m $\eta = 5.3$	x: 2.345 m $\eta = 0.6$	x: 2.345 m $\eta = 34.6$	x: 2.345 m $\eta = 31.9$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 34.6$**
N993/N992	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 0.1$	$\eta = 0.3$	x: 0 m $\eta = 28.6$	x: 0 m $\eta = 8.4$	x: 0 m $\eta = 0.6$	x: 0 m $\eta = 4.5$	x: 0 m $\eta = 5.9$	x: 0 m $\eta = 0.7$	x: 0 m $\eta = 37.0$	x: 0 m $\eta = 28.8$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 37.0$**

Barras	VERIFICAÇÕES (ABNT NBR 14762:2010)													Estado
	b/t	λ	N_t	N_c	M_x	M_y	V_x	V_y	M_xV_y	M_yV_x	$N_cM_xM_y$	$N_tM_xM_y$	M_t	
N992/N991	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	η = 0.1	η = 0.3	x: 2.405 m η = 47.5	x: 2.405 m η = 9.2	x: 2.405 m η = 0.6	x: 2.405 m η = 5.3	x: 2.405 m η = 15.9	x: 2.405 m η = 0.9	x: 2.405 m η = 56.9	x: 2.405 m η = 43.7	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 56.9**
N995/N994	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	η = 0.1	η = 0.2	x: 0 m η = 49.3	x: 0 m η = 9.1	x: 0 m η = 0.6	x: 0 m η = 5.3	x: 0 m η = 17.1	x: 0 m η = 0.8	x: 0 m η = 58.4	x: 0 m η = 45.0	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 58.4**
N994/N993	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	η = 0.1	η = 0.2	x: 2.4 m η = 28.5	x: 2.4 m η = 8.4	x: 2.4 m η = 0.6	x: 2.4 m η = 4.4	x: 2.4 m η = 5.8	x: 2.4 m η = 0.7	x: 2.4 m η = 36.8	x: 2.4 m η = 28.7	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 36.8**
N997/N996	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	η < 0.1	η = 0.5	x: 0 m η = 28.5	x: 0 m η = 9.2	x: 0 m η = 0.6	x: 0 m η = 4.5	x: 0 m η = 5.7	x: 0 m η = 0.9	x: 0 m η = 38.0	x: 0 m η = 11.2	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 38.0**
N996/N995	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	η < 0.1	η = 0.6	x: 2.47 m η = 50.2	x: 2.47 m η = 9.8	x: 2.47 m η = 0.6	x: 2.47 m η = 5.4	x: 2.47 m η = 17.3	x: 2.47 m η = 1.0	x: 2.47 m η = 60.4	x: 2.47 m η = 17.4	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 60.4**
N999/N998	x: 0 m $(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	η = 0.1	$N_{c,Sd}$ = 0.00 N.A.(1)	x: 0 m η = 39.9	x: 0 m η = 8.1	x: 0 m η = 0.5	x: 0 m η = 4.8	x: 0 m η = 12.0	x: 0 m η = 0.7	N.A.(4)	x: 0 m η = 48.0	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 48.0**
N998/N997	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	η = 0.1	$N_{c,Sd}$ = 0.00 N.A.(1)	x: 2.22 m η = 26.7	x: 2.22 m η = 6.9	x: 2.22 m η = 0.5	x: 2.22 m η = 4.2	x: 2.22 m η = 5.5	x: 2.22 m η = 0.5	N.A.(4)	x: 2.22 m η = 33.3	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 33.3**
N1008/N1007	x: 0 m $(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	η = 0.1	$N_{c,Sd}$ = 0.00 N.A.(1)	x: 0 m η = 47.6	x: 0 m η = 8.1	x: 0 m η = 0.5	x: 0 m η = 6.8	x: 0 m η = 23.1	x: 0 m η = 0.7	N.A.(4)	x: 0 m η = 54.8	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 54.8**
N1007/N1006	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	η = 0.1	$N_{c,Sd}$ = 0.00 N.A.(1)	x: 2.22 m η = 34.1	x: 2.22 m η = 6.9	x: 2.22 m η = 0.5	x: 2.22 m η = 6.1	x: 2.22 m η = 12.0	x: 2.22 m η = 0.5	N.A.(4)	x: 2.22 m η = 39.2	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 39.2**
N1006/N1016	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	η < 0.1	η = 0.8	x: 0 m η = 34.7	x: 0 m η = 9.2	x: 0 m η = 0.6	x: 0 m η = 6.6	x: 0 m η = 12.5	x: 0 m η = 0.9	x: 0 m η = 43.2	x: 0 m η = 10.3	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 43.2**
N1016/N1015	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	η < 0.1	η = 0.8	x: 2.47 m η = 57.5	x: 2.47 m η = 9.8	x: 2.47 m η = 0.6	x: 2.47 m η = 7.7	x: 2.47 m η = 33.7	x: 2.47 m η = 1.0	x: 2.47 m η = 66.9	x: 2.47 m η = 15.4	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 66.9**
N1015/N1021	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	η = 0.1	η = 0.4	x: 0 m η = 57.2	x: 0 m η = 9.1	x: 0 m η = 0.6	x: 0 m η = 7.5	x: 0 m η = 33.3	x: 0 m η = 0.8	x: 0 m η = 65.3	x: 0 m η = 38.8	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 65.3**
N1021/N1020	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	η = 0.1	η = 0.4	x: 2.4 m η = 35.3	x: 2.4 m η = 8.4	x: 2.4 m η = 0.6	x: 2.4 m η = 6.4	x: 2.4 m η = 12.8	x: 2.4 m η = 0.7	x: 2.4 m η = 42.1	x: 2.4 m η = 25.2	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 42.1**
N1020/N1029	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	η = 0.1	η = 0.5	x: 0 m η = 35.3	x: 0 m η = 8.4	x: 0 m η = 0.6	x: 0 m η = 6.5	x: 0 m η = 12.9	x: 0 m η = 0.7	x: 0 m η = 42.4	x: 0 m η = 25.2	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 42.4**
N1029/N1028	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	η = 0.1	η = 0.5	x: 2.405 m η = 54.9	x: 2.405 m η = 9.2	x: 2.405 m η = 0.6	x: 2.405 m η = 7.5	x: 2.405 m η = 30.7	x: 2.405 m η = 0.9	x: 2.405 m η = 63.4	x: 2.405 m η = 37.8	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 63.4**
N1028/N1034	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	η = 0.1	η = 0.4	x: 0 m η = 54.8	x: 0 m η = 8.6	x: 0 m η = 0.6	x: 0 m η = 7.4	x: 0 m η = 30.6	x: 0 m η = 0.7	x: 0 m η = 62.6	x: 0 m η = 42.4	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 62.6**
N1034/N1033	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	η = 0.1	η = 0.4	x: 2.345 m η = 33.6	x: 2.345 m η = 8.0	x: 2.345 m η = 0.5	x: 2.345 m η = 6.3	x: 2.345 m η = 11.7	x: 2.345 m η = 0.6	x: 2.345 m η = 40.0	x: 2.345 m η = 28.0	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 40.0**
N1033/N1042	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	η = 0.2	η = 0.6	x: 0 m η = 33.7	x: 0 m η = 8.4	x: 0 m η = 0.6	x: 0 m η = 6.4	x: 0 m η = 11.8	x: 0 m η = 0.7	x: 0 m η = 40.6	x: 0 m η = 28.4	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 40.6**
N1042/N1391	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	η = 0.2	η = 0.4	x: 2.06 m η = 39.8	x: 2.06 m η = 6.5	x: 2.06 m η = 0.5	x: 2.06 m η = 6.7	x: 2.06 m η = 16.3	x: 2.06 m η = 0.4	x: 2.06 m η = 46.4	x: 2.06 m η = 32.2	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 46.4**
N1391/N1041	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	η = 1.8	$N_{c,Sd}$ = 0.00 N.A.(1)	x: 0 m η = 34.7	x: 0.4 m η = 5.9	x: 0 m η = 0.5	x: 0.4 m η = 0.7	x: 0 m η = 12.0	x: 0.4 m η = 0.3	N.A.(4)	x: 0 m η = 41.1	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 41.1**
N1041/N1390	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	η = 1.8	$N_{c,Sd}$ = 0.00 N.A.(1)	x: 0.4 m η = 37.0	x: 0.4 m η = 6.6	x: 0.4 m η = 0.6	x: 0.4 m η = 1.6	x: 0.4 m η = 13.7	x: 0.4 m η = 0.4	N.A.(4)	x: 0.4 m η = 44.7	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 44.7**
N1390/N1047	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 1.1	x: 0 m η = 41.8	x: 0 m η = 7.5	x: 0 m η = 0.6	x: 0 m η = 6.9	x: 0 m η = 18.0	x: 0 m η = 0.6	x: 0 m η = 49.6	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 49.6**
N1047/N1363	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 1.1	x: 0.219 m η = 28.5	x: 2.185 m η = 6.5	x: 2.185 m η = 0.5	x: 2.185 m η = 5.8	x: 0.219 m η = 6.1	x: 2.185 m η = 0.4	x: 0.219 m η = 33.1	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 33.1**
N1363/N1046	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	η = 1.3	$N_{c,Sd}$ = 0.00 N.A.(1)	x: 0.4 m η = 19.3	x: 0.4 m η = 6.4	x: 0 m η = 0.3	x: 0.4 m η = 0.8	x: 0.4 m η = 3.7	x: 0.4 m η = 0.4	N.A.(4)	x: 0 m η = 24.4	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 24.4**
N1046/N1362	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	η = 1.2	$N_{c,Sd}$ = 0.00 N.A.(1)	x: 0 m η = 19.5	M_{Sd} = 0.00 N.A.(2)	x: 0 m η = 0.2	x: 0 m η = 2.3	x: 0 m η = 3.8	N.A.(3)	N.A.(4)	x: 0 m η = 22.0	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 22.0**
N1362/N1055	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	η = 0.2	$N_{c,Sd}$ = 0.00 N.A.(1)	x: 1.638 m η = 19.9	M_{Sd} = 0.00 N.A.(2)	x: 0 m η = 0.4	x: 0 m η = 4.9	x: 1.638 m η = 3.4	N.A.(3)	N.A.(4)	x: 1.638 m η = 22.1	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 22.1**
N1055/N1054	x: 0 m $(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	η = 0.2	$N_{c,Sd}$ = 0.00 N.A.(1)	x: 2.22 m η = 46.5	x: 2.22 m η = 7.4	x: 2.22 m η = 0.5	x: 2.22 m η = 6.8	x: 2.22 m η = 22.1	x: 2.22 m η = 0.6	N.A.(4)	x: 2.22 m η = 52.9	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 52.9**
N1054/N1060	x: 0 m $(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	η = 0.2	$N_{c,Sd}$ = 0.00 N.A.(1)	x: 0 m η = 46.6	x: 0 m η = 7.3	x: 0 m η = 0.5	x: 0 m η = 6.7	x: 0 m η = 22.2	x: 0 m η = 0.5	N.A.(4)	x: 0 m η = 53.0	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 53.0**
N1060/N1335	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	η = 0.2	$N_{c,Sd}$ = 0.00 N.A.(1)	x: 0.181 m η = 19.7	M_{Sd} = 0.00 N.A.(2)	x: 1.81 m η = 0.4	x: 1.81 m η = 4.9	x: 0.181 m η = 3.3	N.A.(3)	N.A.(4)	x: 0.181 m η = 22.0	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 22.0**

Barras	VERIFICAÇÕES (ABNT NBR 14762:2010)													Estado
	b/t	λ	N_t	N_c	M_x	M_y	V_x	V_y	M_xV_y	M_yV_x	$N_cM_xM_y$	$N_tM_xM_y$	M_t	
N1335/N1059	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	$\eta = 1.2$	$N_{c,Sd} = 0.00$ N.A.(1)	x: 0.4 m $\eta = 18.2$	$M_{Sd} = 0.00$ N.A.(2)	x: 0.4 m $\eta = 0.2$	x: 0.4 m $\eta = 2.3$	x: 0.4 m $\eta = 3.4$	N.A.(3)	N.A.(4)	x: 0.4 m $\eta = 20.8$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 20.8$**
N1059/N1334	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	$\eta = 1.2$	$N_{c,Sd} = 0.00$ N.A.(1)	x: 0 m $\eta = 18.2$	x: 0 m $\eta = 5.3$	x: 0.4 m $\eta = 0.3$	x: 0 m $\eta = 1.0$	x: 0 m $\eta = 3.3$	x: 0 m $\eta = 0.3$	N.A.(4)	x: 0.4 m $\eta = 22.4$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 22.4$**
N1334/N1068	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	$\eta = 1.2$	x: 1.872 m $\eta = 25.4$	x: 0 m $\eta = 5.8$	x: 0 m $\eta = 0.5$	x: 0 m $\eta = 5.5$	x: 1.872 m $\eta = 5.0$	x: 0 m $\eta = 0.3$	x: 1.872 m $\eta = 29.3$	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 29.3$**
N1068/N1309	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	$\eta = 1.1$	x: 2.08 m $\eta = 37.5$	x: 2.08 m $\eta = 6.8$	x: 2.08 m $\eta = 0.5$	x: 2.08 m $\eta = 6.5$	x: 2.08 m $\eta = 14.4$	x: 2.08 m $\eta = 0.5$	x: 2.08 m $\eta = 44.5$	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 44.5$**
N1309/N1067	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	$\eta = 1.8$	$N_{c,Sd} = 0.00$ N.A.(1)	x: 0 m $\eta = 32.3$	x: 0 m $\eta = 5.5$	x: 0 m $\eta = 0.5$	x: 0 m $\eta = 1.3$	x: 0 m $\eta = 10.4$	x: 0 m $\eta = 0.3$	N.A.(4)	x: 0 m $\eta = 39.1$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 39.1$**
N1067/N1308	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	$\eta = 1.8$	$N_{c,Sd} = 0.00$ N.A.(1)	x: 0 m $\eta = 29.9$	$M_{Sd} = 0.00$ N.A.(2)	x: 0.4 m $\eta = 0.4$	x: 0 m $\eta = 0.8$	x: 0 m $\eta = 9.0$	N.A.(3)	N.A.(4)	x: 0.4 m $\eta = 34.8$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 34.8$**
N1308/N1073	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 0.1$	$\eta = 0.3$	x: 0 m $\eta = 33.0$	x: 0 m $\eta = 4.9$	x: 0 m $\eta = 0.4$	x: 0 m $\eta = 6.0$	x: 0 m $\eta = 11.2$	x: 0 m $\eta = 0.2$	x: 0 m $\eta = 33.7$	x: 0 m $\eta = 37.7$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 37.7$**
N1073/N1072	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 0.1$	$\eta = 0.4$	x: 2.27 m $\eta = 30.8$	x: 2.27 m $\eta = 6.4$	x: 2.27 m $\eta = 0.5$	x: 2.27 m $\eta = 5.9$	x: 2.27 m $\eta = 9.8$	x: 2.27 m $\eta = 0.4$	x: 2.27 m $\eta = 31.4$	x: 2.27 m $\eta = 35.6$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 35.6$**
N1072/N1080	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	$\eta = 0.6$	x: 0 m $\eta = 31.1$	x: 0 m $\eta = 8.1$	x: 0 m $\eta = 0.5$	x: 0 m $\eta = 6.2$	x: 0 m $\eta = 10.1$	x: 0 m $\eta = 0.7$	x: 0 m $\eta = 38.1$	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 38.1$**
N1080/N1081	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	$\eta = 0.6$	x: 2.37 m $\eta = 55.6$	x: 2.37 m $\eta = 9.2$	x: 2.37 m $\eta = 0.6$	x: 2.37 m $\eta = 7.4$	x: 2.37 m $\eta = 31.4$	x: 2.37 m $\eta = 0.8$	x: 2.37 m $\eta = 64.0$	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 64.0$**
N1636/N918	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	$\eta = 1.0$	x: 0 m $\eta = 34.9$	x: 0 m $\eta = 11.3$	x: 0 m $\eta = 0.7$	x: 0 m $\eta = 6.0$	x: 0 m $\eta = 12.5$	x: 0 m $\eta = 1.3$	x: 0 m $\eta = 46.5$	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 46.5$**
N918/N919	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	$\eta = 1.0$	x: 2.37 m $\eta = 44.0$	x: 2.37 m $\eta = 10.1$	x: 2.37 m $\eta = 0.6$	x: 2.37 m $\eta = 6.4$	x: 2.37 m $\eta = 19.7$	x: 2.37 m $\eta = 1.0$	x: 2.37 m $\eta = 54.3$	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 54.3$**
N1294/N920	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	$\eta = 0.6$	x: 0 m $\eta = 26.8$	x: 0 m $\eta = 6.4$	x: 0 m $\eta = 0.6$	x: 0 m $\eta = 5.1$	x: 0 m $\eta = 6.2$	x: 0 m $\eta = 0.4$	x: 0 m $\eta = 33.5$	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 33.5$**
N920/N1636	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	$\eta = 0.8$	x: 2.27 m $\eta = 40.8$	x: 2.27 m $\eta = 10.3$	x: 2.27 m $\eta = 0.6$	x: 2.27 m $\eta = 5.7$	x: 2.27 m $\eta = 12.4$	x: 2.27 m $\eta = 1.1$	x: 2.27 m $\eta = 51.2$	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 51.2$**
N921/N1294	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	$\eta = 1.3$	$N_{c,Sd} = 0.00$ N.A.(1)	x: 0.4 m $\eta = 20.9$	x: 0 m $\eta = 7.0$	x: 0 m $\eta = 0.3$	x: 0.4 m $\eta = 0.9$	x: 0.4 m $\eta = 4.4$	x: 0 m $\eta = 0.5$	N.A.(4)	x: 0.4 m $\eta = 27.4$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 27.4$**
N1637/N937	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta < 0.1$	$\eta < 0.1$	x: 0 m $\eta = 29.3$	x: 0 m $\eta = 10.0$	x: 0 m $\eta = 0.6$	x: 0 m $\eta = 5.7$	x: 0 m $\eta = 8.9$	x: 0 m $\eta = 1.0$	x: 0 m $\eta = 33.6$	x: 0 m $\eta = 38.6$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 38.6$**
N937/N938	x: 0 m $(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta < 0.1$	$N_{c,Sd} = 0.00$ N.A.(1)	x: 2.37 m $\eta = 51.5$	x: 2.37 m $\eta = 9.8$	x: 2.37 m $\eta = 0.6$	x: 2.37 m $\eta = 6.8$	x: 2.37 m $\eta = 27.0$	x: 2.37 m $\eta = 1.0$	N.A.(4)	x: 2.37 m $\eta = 60.5$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 60.5$**
N1298/N939	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta < 0.1$	$\eta = 0.1$	x: 0 m $\eta = 32.0$	x: 0 m $\eta = 6.1$	x: 0 m $\eta = 0.5$	x: 0 m $\eta = 5.4$	x: 0 m $\eta = 8.8$	x: 0 m $\eta = 0.4$	x: 0 m $\eta = 37.8$	x: 0 m $\eta = 29.1$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 37.8$**
N939/N1637	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta < 0.1$	$\eta = 0.1$	x: 2.27 m $\eta = 34.4$	x: 2.27 m $\eta = 8.8$	x: 2.27 m $\eta = 0.6$	x: 2.27 m $\eta = 5.3$	x: 2.27 m $\eta = 8.9$	x: 2.27 m $\eta = 0.8$	x: 2.27 m $\eta = 42.6$	x: 2.27 m $\eta = 24.8$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 42.6$**
N940/N1298	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	$\eta = 1.6$	$N_{c,Sd} = 0.00$ N.A.(1)	x: 0.4 m $\eta = 25.2$	x: 0 m $\eta = 5.3$	x: 0.4 m $\eta = 0.2$	x: 0.4 m $\eta = 0.5$	x: 0.4 m $\eta = 6.4$	x: 0 m $\eta = 0.3$	N.A.(4)	x: 0.4 m $\eta = 31.5$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 31.5$**
N1638/N956	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta < 0.1$	$\eta = 0.2$	x: 0 m $\eta = 26.7$	x: 0 m $\eta = 8.6$	x: 0 m $\eta = 0.6$	x: 0 m $\eta = 5.5$	x: 0 m $\eta = 7.4$	x: 0 m $\eta = 0.7$	x: 0 m $\eta = 34.5$	x: 0 m $\eta = 30.0$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 34.5$**
N956/N957	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta < 0.1$	$\eta = 0.2$	x: 2.37 m $\eta = 53.3$	x: 2.37 m $\eta = 9.4$	x: 2.37 m $\eta = 0.6$	x: 2.37 m $\eta = 6.9$	x: 2.37 m $\eta = 28.9$	x: 2.37 m $\eta = 0.9$	x: 2.37 m $\eta = 62.1$	x: 2.37 m $\eta = 52.0$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 62.1$**
N1302/N958	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta < 0.1$	$\eta = 0.2$	x: 0 m $\eta = 34.3$	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m $\eta = 0.4$	x: 0 m $\eta = 5.5$	x: 0 m $\eta = 10.1$	N.A.(3)	x: 0 m $\eta = 38.4$	x: 0 m $\eta = 31.6$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 38.4$**
N958/N1638	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta < 0.1$	$\eta = 0.2$	x: 2.27 m $\eta = 31.3$	x: 2.27 m $\eta = 7.1$	x: 2.27 m $\eta = 0.5$	x: 2.27 m $\eta = 5.2$	x: 2.27 m $\eta = 7.4$	x: 2.27 m $\eta = 0.5$	x: 2.27 m $\eta = 37.4$	x: 2.27 m $\eta = 32.0$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 37.4$**
N959/N1302	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	$\eta = 1.5$	$N_{c,Sd} = 0.00$ N.A.(1)	x: 0 m $\eta = 28.1$	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m $\eta = 0.2$	x: 0 m $\eta = 0.7$	x: 0 m $\eta = 7.9$	N.A.(3)	N.A.(4)	x: 0.4 m $\eta = 32.0$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 32.0$**
N930/N929	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta < 0.1$	$\eta = 0.4$	x: 0 m $\eta = 38.3$	x: 0 m $\eta = 11.3$	x: 0 m $\eta = 0.7$	x: 0 m $\eta = 4.9$	x: 0 m $\eta = 10.6$	x: 0 m $\eta = 1.3$	x: 0 m $\eta = 50.0$	x: 0 m $\eta = 18.0$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 50.0$**
N929/N1650	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta < 0.1$	$\eta = 0.4$	x: 2.345 m $\eta = 37.4$	x: 2.345 m $\eta = 11.4$	x: 2.345 m $\eta = 0.7$	x: 2.345 m $\eta = 4.9$	x: 2.345 m $\eta = 10.1$	x: 2.345 m $\eta = 1.3$	x: 2.345 m $\eta = 49.1$	x: 2.345 m $\eta = 16.7$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 49.1$**
N1653/N931	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta < 0.1$	$\eta = 0.4$	x: 0 m $\eta = 39.4$	x: 0 m $\eta = 11.9$	x: 0 m $\eta = 0.7$	x: 0 m $\eta = 5.0$	x: 0 m $\eta = 11.0$	x: 0 m $\eta = 1.4$	x: 0 m $\eta = 51.8$	x: 0 m $\eta = 14.7$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 51.8$**
N931/N930	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta < 0.1$	$\eta = 0.4$	x: 2.405 m $\eta = 38.8$	x: 2.405 m $\eta = 11.7$	x: 2.405 m $\eta = 0.7$	x: 2.405 m $\eta = 5.0$	x: 2.405 m $\eta = 10.7$	x: 2.405 m $\eta = 1.4$	x: 2.405 m $\eta = 50.9$	x: 2.405 m $\eta = 14.8$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 50.9$**
N933/N932	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta < 0.1$	$\eta = 0.3$	x: 0 m $\eta = 41.6$	x: 0 m $\eta = 11.6$	x: 0 m $\eta = 0.7$	x: 0 m $\eta = 5.1$	x: 0 m $\eta = 12.3$	x: 0 m $\eta = 1.4$	x: 0 m $\eta = 53.5$	x: 0 m $\eta = 15.2$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 53.5$**

Barras	VERIFICAÇÕES (ABNT NBR 14762:2010)													Estado
	b/t	λ	N_t	N_c	M_x	M_y	V_x	V_y	M_xV_y	M_yV_x	$N_cM_xM_y$	$N_tM_xM_y$	M_t	
N932/N1653	$(b_w/t) \le 500$ $(b_f/t) \le 60$ Passa	$\lambda_{xx} \le 200.0$ $\lambda_{yy} \le 200.0$ Passa	$\eta < 0.1$	$\eta = 0.3$	x: 2.4 m $\eta = 39.3$	x: 2.4 m $\eta = 11.8$	x: 2.4 m $\eta = 0.7$	x: 2.4 m $\eta = 5.0$	x: 2.4 m $\eta = 10.9$	x: 2.4 m $\eta = 1.4$	x: 2.4 m $\eta = 51.3$	x: 2.4 m $\eta = 14.7$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **η = 51.3**
N1656/N934	$(b_w/t) \le 500$ $(b_f/t) \le 60$ Passa	$\lambda_{xx} \le 200.0$ $\lambda_{yy} \le 200.0$ Passa	$\eta < 0.1$	$\eta = 0.5$	x: 0 m $\eta = 37.8$	x: 0 m $\eta = 12.5$	x: 0 m $\eta = 0.7$	x: 0 m $\eta = 5.1$	x: 0 m $\eta = 9.9$	x: 0 m $\eta = 1.6$	x: 0 m $\eta = 50.8$	x: 0 m $\eta = 9.5$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **η = 50.8**
N934/N933	$(b_w/t) \le 500$ $(b_f/t) \le 60$ Passa	$\lambda_{xx} \le 200.0$ $\lambda_{yy} \le 200.0$ Passa	$\eta < 0.1$	$\eta = 0.5$	x: 2.47 m $\eta = 42.3$	x: 2.47 m $\eta = 12.2$	x: 2.47 m $\eta = 0.7$	x: 2.47 m $\eta = 5.2$	x: 2.47 m $\eta = 12.4$	x: 2.47 m $\eta = 1.5$	x: 2.47 m $\eta = 55.0$	x: 2.47 m $\eta = 10.1$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **η = 55.0**
N936/N935	x: 0 m $(b_w/t) \le 500$ $(b_f/t) \le 60$ Passa	$\lambda_{xx} \le 300.0$ $\lambda_{yy} \le 300.0$ Passa	$\eta = 0.1$	$N_{c,Sd} = 0.00$ N.A.(1)	x: 0 m $\eta = 33.3$	x: 0 m $\eta = 9.0$	x: 0 m $\eta = 0.6$	x: 0 m $\eta = 4.6$	x: 0 m $\eta = 8.4$	x: 0 m $\eta = 0.8$	N.A.(4)	x: 0 m $\eta = 42.3$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **η = 42.3**
N935/N1656	$(b_w/t) \le 500$ $(b_f/t) \le 60$ Passa	$\lambda_{xx} \le 300.0$ $\lambda_{yy} \le 300.0$ Passa	$\eta = 0.1$	$N_{c,Sd} = 0.00$ N.A.(1)	x: 2.22 m $\eta = 35.6$	x: 2.22 m $\eta = 9.9$	x: 2.22 m $\eta = 0.6$	x: 2.22 m $\eta = 4.7$	x: 2.22 m $\eta = 9.6$	x: 2.22 m $\eta = 1.0$	N.A.(4)	x: 2.22 m $\eta = 45.6$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **η = 45.6**
N1401/N946	$(b_w/t) \le 500$ $(b_f/t) \le 60$ Passa	$\lambda_{xx} \le 300.0$ $\lambda_{yy} \le 300.0$ Passa	$\eta = 1.4$	$N_{c,Sd} = 0.00$ N.A.(1)	x: 0 m $\eta = 23.7$	x: 0.4 m $\eta = 6.4$	x: 0.4 m $\eta = 0.2$	x: 0 m $\eta = 1.0$	x: 0 m $\eta = 5.6$	x: 0.4 m $\eta = 0.4$	N.A.(4)	x: 0 m $\eta = 31.3$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **η = 31.3**
N1651/N947	$(b_w/t) \le 500$ $(b_f/t) \le 60$ Passa	$\lambda_{xx} \le 200.0$ $\lambda_{yy} \le 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	$\eta = 0.2$	x: 0 m $\eta = 35.3$	x: 0 m $\eta = 10.3$	x: 0 m $\eta = 0.6$	x: 0 m $\eta = 4.8$	x: 0 m $\eta = 8.7$	x: 0 m $\eta = 1.1$	x: 0 m $\eta = 45.5$	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **η = 45.5**
N947/N1401	$(b_w/t) \le 500$ $(b_f/t) \le 60$ Passa	$\lambda_{xx} \le 200.0$ $\lambda_{yy} \le 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	$\eta = 0.1$	x: 2.06 m $\eta = 30.2$	x: 2.06 m $\eta = 7.0$	x: 2.06 m $\eta = 0.6$	x: 2.06 m $\eta = 4.6$	x: 2.06 m $\eta = 7.3$	x: 2.06 m $\eta = 0.5$	x: 2.06 m $\eta = 37.3$	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **η = 37.3**
N949/N948	$(b_w/t) \le 500$ $(b_f/t) \le 60$ Passa	$\lambda_{xx} \le 200.0$ $\lambda_{yy} \le 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	$\eta = 0.1$	x: 0 m $\eta = 41.8$	x: 0 m $\eta = 9.7$	x: 0 m $\eta = 0.6$	x: 0 m $\eta = 5.1$	x: 0 m $\eta = 12.6$	x: 0 m $\eta = 0.9$	x: 0 m $\eta = 51.6$	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **η = 51.6**
N948/N1651	$(b_w/t) \le 500$ $(b_f/t) \le 60$ Passa	$\lambda_{xx} \le 200.0$ $\lambda_{yy} \le 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	$\eta = 0.1$	x: 2.345 m $\eta = 34.5$	x: 2.345 m $\eta = 10.0$	x: 2.345 m $\eta = 0.6$	x: 2.345 m $\eta = 4.8$	x: 2.345 m $\eta = 8.7$	x: 2.345 m $\eta = 1.0$	x: 2.345 m $\eta = 44.5$	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **η = 44.5**
N1654/N950	$(b_w/t) \le 500$ $(b_f/t) \le 60$ Passa	$\lambda_{xx} \le 200.0$ $\lambda_{yy} \le 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	$\eta = 0.2$	x: 0 m $\eta = 36.6$	x: 0 m $\eta = 10.5$	x: 0 m $\eta = 0.6$	x: 0 m $\eta = 4.9$	x: 0 m $\eta = 9.5$	x: 0 m $\eta = 1.1$	x: 0 m $\eta = 47.2$	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **η = 47.2**
N950/N949	$(b_w/t) \le 500$ $(b_f/t) \le 60$ Passa	$\lambda_{xx} \le 200.0$ $\lambda_{yy} \le 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	$\eta = 0.2$	x: 2.405 m $\eta = 42.2$	x: 2.405 m $\eta = 10.2$	x: 2.405 m $\eta = 0.6$	x: 2.405 m $\eta = 5.2$	x: 2.405 m $\eta = 12.6$	x: 2.405 m $\eta = 1.0$	x: 2.405 m $\eta = 52.5$	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **η = 52.5**
N952/N951	$(b_w/t) \le 500$ $(b_f/t) \le 60$ Passa	$\lambda_{xx} \le 200.0$ $\lambda_{yy} \le 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	$\eta = 0.2$	x: 0 m $\eta = 45.4$	x: 0 m $\eta = 10.2$	x: 0 m $\eta = 0.6$	x: 0 m $\eta = 5.2$	x: 0 m $\eta = 14.6$	x: 0 m $\eta = 1.0$	x: 0 m $\eta = 55.8$	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **η = 55.8**
N951/N1654	$(b_w/t) \le 500$ $(b_f/t) \le 60$ Passa	$\lambda_{xx} \le 200.0$ $\lambda_{yy} \le 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	$\eta = 0.2$	x: 2.4 m $\eta = 36.6$	x: 2.4 m $\eta = 10.4$	x: 2.4 m $\eta = 0.6$	x: 2.4 m $\eta = 4.9$	x: 2.4 m $\eta = 9.5$	x: 2.4 m $\eta = 1.1$	x: 2.4 m $\eta = 47.1$	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **η = 47.1**
N1657/N953	$(b_w/t) \le 500$ $(b_f/t) \le 60$ Passa	$\lambda_{xx} \le 200.0$ $\lambda_{yy} \le 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	$\eta = 0.2$	x: 0 m $\eta = 32.8$	x: 0 m $\eta = 10.9$	x: 0 m $\eta = 0.7$	x: 0 m $\eta = 4.9$	x: 0 m $\eta = 7.5$	x: 0 m $\eta = 1.2$	x: 0 m $\eta = 43.8$	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **η = 43.8**
N953/N952	$(b_w/t) \le 500$ $(b_f/t) \le 60$ Passa	$\lambda_{xx} \le 200.0$ $\lambda_{yy} \le 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	$\eta = 0.2$	x: 2.47 m $\eta = 46.0$	x: 2.47 m $\eta = 10.6$	x: 2.47 m $\eta = 0.6$	x: 2.47 m $\eta = 5.5$	x: 2.47 m $\eta = 14.6$	x: 2.47 m $\eta = 1.1$	x: 2.47 m $\eta = 56.8$	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **η = 56.8**
N955/N954	$(b_w/t) \le 500$ $(b_f/t) \le 60$ Passa	$\lambda_{xx} \le 200.0$ $\lambda_{yy} \le 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	$\eta = 0.3$	x: 0 m $\eta = 40.2$	x: 0 m $\eta = 8.7$	x: 0 m $\eta = 0.6$	x: 0 m $\eta = 4.9$	x: 0 m $\eta = 12.2$	x: 0 m $\eta = 0.8$	x: 0 m $\eta = 49.1$	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **η = 49.1**
N954/N1657	$(b_w/t) \le 500$ $(b_f/t) \le 60$ Passa	$\lambda_{xx} \le 200.0$ $\lambda_{yy} \le 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	$\eta = 0.2$	x: 2.22 m $\eta = 31.4$	x: 2.22 m $\eta = 9.1$	x: 2.22 m $\eta = 0.6$	x: 2.22 m $\eta = 4.5$	x: 2.22 m $\eta = 7.5$	x: 2.22 m $\eta = 0.8$	x: 2.22 m $\eta = 40.6$	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **η = 40.6**
N1397/N965	$(b_w/t) \le 500$ $(b_f/t) \le 60$ Passa	$\lambda_{xx} \le 300.0$ $\lambda_{yy} \le 300.0$ Passa	$\eta = 1.4$	$N_{c,Sd} = 0.00$ N.A.(1)	x: 0 m $\eta = 25.4$	x: 0.4 m $\eta = 6.5$	x: 0.4 m $\eta = 0.2$	x: 0 m $\eta = 0.5$	x: 0 m $\eta = 6.4$	x: 0.4 m $\eta = 0.4$	N.A.(4)	x: 0.4 m $\eta = 31.7$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **η = 31.7**
N1652/N966	$(b_w/t) \le 500$ $(b_f/t) \le 60$ Passa	$\lambda_{xx} \le 200.0$ $\lambda_{yy} \le 200.0$ Passa	$\eta = 0.1$	$\eta = 0.1$	x: 0 m $\eta = 30.8$	x: 0 m $\eta = 8.9$	x: 0 m $\eta = 0.6$	x: 0 m $\eta = 4.6$	x: 0 m $\eta = 6.6$	x: 0 m $\eta = 0.8$	x: 0 m $\eta = 39.3$	x: 0 m $\eta = 35.6$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **η = 39.3**
N966/N1397	$(b_w/t) \le 500$ $(b_f/t) \le 60$ Passa	$\lambda_{xx} \le 200.0$ $\lambda_{yy} \le 200.0$ Passa	$\eta = 0.1$	$\eta = 0.1$	x: 2.06 m $\eta = 32.6$	x: 2.06 m $\eta = 5.7$	x: 2.06 m $\eta = 0.5$	x: 2.06 m $\eta = 4.8$	x: 2.06 m $\eta = 8.5$	x: 2.06 m $\eta = 0.3$	x: 2.06 m $\eta = 38.1$	x: 2.06 m $\eta = 37.7$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **η = 38.1**
N968/N967	$(b_w/t) \le 500$ $(b_f/t) \le 60$ Passa	$\lambda_{xx} \le 200.0$ $\lambda_{yy} \le 200.0$ Passa	$\eta = 0.1$	$\eta = 0.1$	x: 0 m $\eta = 46.2$	x: 0 m $\eta = 8.6$	x: 0 m $\eta = 0.6$	x: 0 m $\eta = 5.3$	x: 0 m $\eta = 15.4$	x: 0 m $\eta = 0.7$	x: 0 m $\eta = 54.7$	x: 0 m $\eta = 44.4$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **η = 54.7**
N967/N1652	$(b_w/t) \le 500$ $(b_f/t) \le 60$ Passa	$\lambda_{xx} \le 200.0$ $\lambda_{yy} \le 200.0$ Passa	$\eta = 0.1$	$\eta = 0.1$	x: 2.345 m $\eta = 30.2$	x: 2.345 m $\eta = 8.5$	x: 2.345 m $\eta = 0.6$	x: 2.345 m $\eta = 4.6$	x: 2.345 m $\eta = 6.7$	x: 2.345 m $\eta = 0.7$	x: 2.345 m $\eta = 38.4$	x: 2.345 m $\eta = 34.6$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **η = 38.4**
N1655/N969	$(b_w/t) \le 500$ $(b_f/t) \le 60$ Passa	$\lambda_{xx} \le 200.0$ $\lambda_{yy} \le 200.0$ Passa	$\eta < 0.1$	$\eta = 0.2$	x: 0 m $\eta = 32.1$	x: 0 m $\eta = 9.0$	x: 0 m $\eta = 0.6$	x: 0 m $\eta = 4.7$	x: 0 m $\eta = 7.4$	x: 0 m $\eta = 0.8$	x: 0 m $\eta = 41.0$	x: 0 m $\eta = 31.8$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **η = 41.0**
N969/N968	$(b_w/t) \le 500$ $(b_f/t) \le 60$ Passa	$\lambda_{xx} \le 200.0$ $\lambda_{yy} \le 200.0$ Passa	$\eta < 0.1$	$\eta = 0.2$	x: 2.405 m $\eta = 46.7$	x: 2.405 m $\eta = 9.0$	x: 2.405 m $\eta = 0.6$	x: 2.405 m $\eta = 5.4$	x: 2.405 m $\eta = 15.4$	x: 2.405 m $\eta = 0.8$	x: 2.405 m $\eta = 55.7$	x: 2.405 m $\eta = 43.4$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **η = 55.7**
N971/N970	$(b_w/t) \le 500$ $(b_f/t) \le 60$ Passa	$\lambda_{xx} \le 200.0$ $\lambda_{yy} \le 200.0$ Passa	$\eta < 0.1$	$\eta = 0.2$	x: 0 m $\eta = 49.3$	x: 0 m $\eta = 9.1$	x: 0 m $\eta = 0.6$	x: 0 m $\eta = 5.4$	x: 0 m $\eta = 17.2$	x: 0 m $\eta = 0.8$	x: 0 m $\eta = 58.5$	x: 0 m $\eta = 35.0$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **η = 58.5**
N970/N1655	$(b_w/t) \le 500$ $(b_f/t) \le 60$ Passa	$\lambda_{xx} \le 200.0$ $\lambda_{yy} \le 200.0$ Passa	$\eta < 0.1$	$\eta = 0.2$	x: 2.4 m $\eta = 32.1$	x: 2.4 m $\eta = 8.9$	x: 2.4 m $\eta = 0.6$	x: 2.4 m $\eta = 4.7$	x: 2.4 m $\eta = 7.4$	x: 2.4 m $\eta = 0.8$	x: 2.4 m $\eta = 41.0$	x: 2.4 m $\eta = 27.6$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **η = 41.0**
N1658/N972	$(b_w/t) \le 500$ $(b_f/t) \le 60$ Passa	$\lambda_{xx} \le 200.0$ $\lambda_{yy} \le 200.0$ Passa	$\eta < 0.1$	$\eta = 0.3$	x: 0 m $\eta = 29.7$	x: 0 m $\eta = 9.3$	x: 0 m $\eta = 0.6$	x: 0 m $\eta = 4.8$	x: 0 m $\eta = 6.2$	x: 0 m $\eta = 0.9$	x: 0 m $\eta = 39.0$	x: 0 m $\eta = 20.1$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **η = 39.0**
N972/N971	$(b_w/t) \le 500$ $(b_f/t) \le 60$ Passa	$\lambda_{xx} \le 200.0$ $\lambda_{yy} \le 200.0$ Passa	$\eta < 0.1$	$\eta = 0.3$	x: 2.47 m $\eta = 50.0$	x: 2.47 m $\eta = 9.5$	x: 2.47 m $\eta = 0.6$	x: 2.47 m $\eta = 5.6$	x: 2.47 m $\eta = 17.2$	x: 2.47 m $\eta = 0.9$	x: 2.47 m $\eta = 59.6$	x: 2.47 m $\eta = 29.8$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **η = 59.6**
N974/N973	$(b_w/t) \le 500$ $(b_f/t) \le 60$ Passa	$\lambda_{xx} \le 200.0$ $\lambda_{yy} \le 200.0$ Passa	$\eta < 0.1$	$\eta = 0.2$	x: 0 m $\eta = 42.5$	x: 0 m $\eta = 8.3$	x: 0 m $\eta = 0.6$	x: 0 m $\eta = 5.0$	x: 0 m $\eta = 13.6$	x: 0 m $\eta = 0.7$	x: 0 m $\eta = 51.0$	x: 0 m $\eta = 30.6$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **η = 51.0**

Barras	VERIFICAÇÕES (ABNT NBR 14762:2010)													Estado
	b/t	λ	N_t	N_c	M_x	M_y	V_x	V_y	M_xV_y	M_yV_x	$N_cM_xM_y$	$N_tM_xM_y$	M_t	
N973/N1658	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta < 0.1$	$\eta = 0.2$	x: 2.22 m $\eta = 28.3$	x: 2.22 m $\eta = 7.9$	x: 2.22 m $\eta = 0.5$	x: 2.22 m $\eta = 4.4$	x: 2.22 m $\eta = 6.1$	x: 2.22 m $\eta = 0.6$	x: 2.22 m $\eta = 36.1$	x: 2.22 m $\eta = 24.3$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 36.1$**
N1378/N1035	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	$\eta = 1.8$	$N_{c,Sd} = 0.00$ N.A.(1)	x: 0 m $\eta = 29.0$	x: 0.4 m $\eta = 7.9$	x: 0.4 m $\eta = 0.3$	x: 0 m $\eta = 1.5$	x: 0 m $\eta = 8.4$	x: 0.4 m $\eta = 0.6$	N.A.(4)	x: 0 m $\eta = 37.2$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 37.2$**
N1383/N1037	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	$\eta = 1.9$	$N_{c,Sd} = 0.00$ N.A.(1)	x: 0 m $\eta = 33.0$	x: 0.4 m $\eta = 6.4$	x: 0 m $\eta = 0.4$	x: 0 m $\eta = 0.9$	x: 0 m $\eta = 10.9$	x: 0.4 m $\eta = 0.4$	N.A.(4)	x: 0 m $\eta = 40.6$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 40.6$**
N1387/N1039	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	$\eta = 2.0$	$N_{c,Sd} = 0.00$ N.A.(1)	x: 0 m $\eta = 36.7$	x: 0.4 m $\eta = 6.4$	x: 0.4 m $\eta = 0.3$	x: 0 m $\eta = 0.7$	x: 0 m $\eta = 13.4$	x: 0.4 m $\eta = 0.4$	N.A.(4)	x: 0 m $\eta = 42.2$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 42.2$**
N1035/N1379	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	$\eta = 1.7$	$N_{c,Sd} = 0.00$ N.A.(1)	x: 0.4 m $\eta = 28.6$	x: 0 m $\eta = 8.7$	x: 0 m $\eta = 0.2$	x: 0.4 m $\eta = 1.3$	x: 0.4 m $\eta = 8.2$	x: 0 m $\eta = 0.8$	N.A.(4)	x: 0.4 m $\eta = 37.7$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 37.7$**
N1037/N1382	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	$\eta = 2.0$	$N_{c,Sd} = 0.00$ N.A.(1)	x: 0.4 m $\eta = 33.1$	x: 0 m $\eta = 6.9$	x: 0.4 m $\eta = 0.4$	x: 0.4 m $\eta = 0.7$	x: 0.4 m $\eta = 11.0$	x: 0 m $\eta = 0.5$	N.A.(4)	x: 0.4 m $\eta = 41.5$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 41.5$**
N1039/N1386	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	$\eta = 2.0$	$N_{c,Sd} = 0.00$ N.A.(1)	x: 0.4 m $\eta = 37.1$	x: 0 m $\eta = 6.1$	x: 0.4 m $\eta = 0.3$	x: 0.4 m $\eta = 0.8$	x: 0.4 m $\eta = 13.8$	x: 0 m $\eta = 0.4$	N.A.(4)	x: 0.4 m $\eta = 43.3$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 43.3$**
N1320/N1061	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	$\eta = 1.6$	$N_{c,Sd} = 0.00$ N.A.(1)	x: 0 m $\eta = 24.1$	x: 0.4 m $\eta = 7.8$	x: 0.4 m $\eta = 0.2$	x: 0 m $\eta = 1.1$	x: 0 m $\eta = 5.8$	x: 0.4 m $\eta = 0.6$	N.A.(4)	x: 0 m $\eta = 32.3$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 32.3$**
N1316/N1063	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	$\eta = 1.8$	$N_{c,Sd} = 0.00$ N.A.(1)	x: 0.4 m $\eta = 28.6$	x: 0 m $\eta = 5.8$	x: 0 m $\eta = 0.3$	x: 0.4 m $\eta = 1.0$	x: 0.4 m $\eta = 8.2$	x: 0 m $\eta = 0.3$	N.A.(4)	x: 0 m $\eta = 34.5$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 34.5$**
N1312/N1065	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	$\eta = 1.9$	$N_{c,Sd} = 0.00$ N.A.(1)	x: 0 m $\eta = 32.3$	x: 0.4 m $\eta = 4.9$	x: 0 m $\eta = 0.2$	x: 0 m $\eta = 0.7$	x: 0 m $\eta = 10.4$	x: 0.4 m $\eta = 0.2$	N.A.(4)	x: 0 m $\eta = 37.5$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 37.5$**
N1321/N1069	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	$\eta = 0.6$	x: 0 m $\eta = 27.8$	x: 0 m $\eta = 6.6$	x: 0 m $\eta = 0.6$	x: 0 m $\eta = 5.8$	x: 0 m $\eta = 8.1$	x: 0 m $\eta = 0.4$	x: 0 m $\eta = 34.4$	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 34.4$**
N1069/N1641	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	$\eta = 0.8$	x: 2.27 m $\eta = 40.0$	x: 2.27 m $\eta = 10.4$	x: 2.27 m $\eta = 0.7$	x: 2.27 m $\eta = 6.6$	x: 2.27 m $\eta = 16.4$	x: 2.27 m $\eta = 1.1$	x: 2.27 m $\eta = 50.2$	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 50.2$**
N1061/N1321	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	$\eta = 1.7$	$N_{c,Sd} = 0.00$ N.A.(1)	x: 0.4 m $\eta = 23.9$	x: 0 m $\eta = 6.7$	x: 0 m $\eta = 0.2$	x: 0.4 m $\eta = 1.1$	x: 0.4 m $\eta = 5.7$	x: 0 m $\eta = 0.4$	N.A.(4)	x: 0.4 m $\eta = 31.1$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 31.1$**
N1317/N1070	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta < 0.1$	$\eta = 0.1$	x: 0 m $\eta = 33.2$	x: 0 m $\eta = 6.2$	x: 0 m $\eta = 0.5$	x: 0 m $\eta = 6.1$	x: 0 m $\eta = 11.4$	x: 0 m $\eta = 0.4$	x: 0 m $\eta = 39.3$	x: 0 m $\eta = 17.9$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 39.3$**
N1070/N1640	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta < 0.1$	$\eta = 0.1$	x: 2.27 m $\eta = 33.7$	x: 2.27 m $\eta = 9.0$	x: 2.27 m $\eta = 0.6$	x: 2.27 m $\eta = 6.2$	x: 2.27 m $\eta = 11.7$	x: 2.27 m $\eta = 0.8$	x: 2.27 m $\eta = 42.2$	x: 2.27 m $\eta = 29.0$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 42.2$**
N1063/N1317	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	$\eta = 1.7$	$N_{c,Sd} = 0.00$ N.A.(1)	x: 0.4 m $\eta = 29.3$	x: 0.4 m $\eta = 5.4$	x: 0.4 m $\eta = 0.4$	x: 0.4 m $\eta = 0.8$	x: 0.4 m $\eta = 8.6$	x: 0.4 m $\eta = 0.3$	N.A.(4)	x: 0.4 m $\eta = 36.1$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 36.1$**
N1313/N1071	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta < 0.1$	$\eta = 0.1$	x: 0 m $\eta = 35.8$	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m $\eta = 0.4$	x: 0 m $\eta = 6.3$	x: 0 m $\eta = 13.2$	N.A.(3)	x: 0 m $\eta = 35.3$	x: 0 m $\eta = 39.7$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 39.7$**
N1071/N1639	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta < 0.1$	$\eta = 0.2$	x: 2.27 m $\eta = 30.7$	x: 2.27 m $\eta = 7.0$	x: 2.27 m $\eta = 0.5$	x: 2.27 m $\eta = 6.0$	x: 2.27 m $\eta = 9.8$	x: 2.27 m $\eta = 0.5$	x: 2.27 m $\eta = 32.7$	x: 2.27 m $\eta = 36.5$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 36.5$**
N1065/N1313	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	$\eta = 1.8$	$N_{c,Sd} = 0.00$ N.A.(1)	x: 0 m $\eta = 32.2$	$M_{Sd} = 0.00$ N.A.(2)	x: 0.4 m $\eta = 0.2$	x: 0 m $\eta = 0.8$	x: 0 m $\eta = 10.4$	N.A.(3)	N.A.(4)	x: 0.4 m $\eta = 36.2$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 36.2$**
N1639/N1078	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 0.1$	$\eta = 0.2$	x: 0 m $\eta = 30.7$	x: 0 m $\eta = 8.6$	x: 0 m $\eta = 0.6$	x: 0 m $\eta = 6.4$	x: 0 m $\eta = 9.8$	x: 0 m $\eta = 0.7$	x: 0 m $\eta = 34.4$	x: 0 m $\eta = 38.4$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 38.4$**
N1078/N1079	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta < 0.1$	$\eta = 0.2$	x: 2.37 m $\eta = 61.2$	x: 2.37 m $\eta = 9.4$	x: 2.37 m $\eta = 0.6$	x: 2.37 m $\eta = 7.9$	x: 2.37 m $\eta = 38.1$	x: 2.37 m $\eta = 0.9$	x: 2.37 m $\eta = 62.1$	x: 2.37 m $\eta = 69.9$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 69.9$**
N1640/N1076	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta < 0.1$	$\eta < 0.1$	x: 0 m $\eta = 33.6$	x: 0 m $\eta = 10.2$	x: 0 m $\eta = 0.6$	x: 0 m $\eta = 6.5$	x: 0 m $\eta = 11.7$	x: 0 m $\eta = 1.0$	x: 0 m $\eta = 43.2$	x: 0 m $\eta = 38.6$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 43.2$**
N1076/N1077	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta < 0.1$	$\eta = 0.1$	x: 2.37 m $\eta = 59.3$	x: 2.37 m $\eta = 9.8$	x: 2.37 m $\eta = 0.6$	x: 2.37 m $\eta = 7.8$	x: 2.37 m $\eta = 35.8$	x: 2.37 m $\eta = 1.0$	x: 2.37 m $\eta = 68.5$	x: 2.37 m $\eta = 60.5$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 68.5$**
N1641/N1074	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	$\eta = 1.0$	x: 0 m $\eta = 40.1$	x: 0 m $\eta = 11.5$	x: 0 m $\eta = 0.7$	x: 0 m $\eta = 6.8$	x: 0 m $\eta = 16.6$	x: 0 m $\eta = 1.3$	x: 0 m $\eta = 51.6$	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 51.6$**
N1074/N1075	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	$\eta = 1.0$	x: 2.37 m $\eta = 50.6$	x: 2.37 m $\eta = 10.2$	x: 2.37 m $\eta = 0.6$	x: 2.37 m $\eta = 7.4$	x: 2.37 m $\eta = 26.1$	x: 2.37 m $\eta = 1.0$	x: 2.37 m $\eta = 60.5$	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 60.5$**
N1001/N1000	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	$\eta = 0.1$	$N_{c,Sd} = 0.00$ N.A.(1)	x: 0 m $\eta = 41.2$	x: 0 m $\eta = 9.1$	x: 0 m $\eta = 0.6$	x: 0 m $\eta = 6.6$	x: 0 m $\eta = 17.4$	x: 0 m $\eta = 0.8$	N.A.(4)	x: 0 m $\eta = 49.8$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 49.8$**
N1000/N1659	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	$\eta = 0.1$	$N_{c,Sd} = 0.00$ N.A.(1)	x: 2.22 m $\eta = 44.0$	x: 2.22 m $\eta = 10.4$	x: 2.22 m $\eta = 0.7$	x: 2.22 m $\eta = 6.8$	x: 2.22 m $\eta = 19.8$	x: 2.22 m $\eta = 1.1$	N.A.(4)	x: 2.22 m $\eta = 53.9$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 53.9$**
N1644/N1348	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	$\eta = 1.9$	$N_{c,Sd} = 0.00$ N.A.(1)	x: 0.4 m $\eta = 22.0$	x: 0.4 m $\eta = 7.3$	x: 0.4 m $\eta = 0.4$	x: 0.4 m $\eta = 3.5$	x: 0.4 m $\eta = 4.9$	x: 0.4 m $\eta = 0.5$	N.A.(4)	x: 0.4 m $\eta = 30.8$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 30.8$**
N1348/N922	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	$\eta = 1.0$	x: 0 m $\eta = 30.4$	x: 0 m $\eta = 8.6$	x: 0 m $\eta = 0.6$	x: 0 m $\eta = 5.5$	x: 0 m $\eta = 7.5$	x: 0 m $\eta = 0.7$	x: 0 m $\eta = 39.7$	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 39.7$**
N922/N1295	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	$\eta = 1.0$	x: 2.08 m $\eta = 28.2$	x: 2.08 m $\eta = 7.7$	x: 2.08 m $\eta = 0.6$	x: 2.08 m $\eta = 5.4$	x: 2.08 m $\eta = 6.5$	x: 2.08 m $\eta = 0.6$	x: 2.08 m $\eta = 36.5$	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 36.5$**
N1295/N921	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	$\eta = 1.3$	$N_{c,Sd} = 0.00$ N.A.(1)	x: 0 m $\eta = 21.2$	x: 0.4 m $\eta = 8.1$	x: 0.4 m $\eta = 0.3$	x: 0 m $\eta = 1.0$	x: 0 m $\eta = 4.5$	x: 0.4 m $\eta = 0.7$	N.A.(4)	x: 0 m $\eta = 29.1$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 29.1$**

Barras	VERIFICAÇÕES (ABNT NBR 14762:2010)													Estado
	b/t	λ	N_t	N_c	M_x	M_y	V_x	V_y	M_xV_y	M_yV_x	$N_cM_xM_y$	$N_tM_xM_y$	M_t	
N1645/N1344	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta < 0.1$	$\eta < 0.1$	x: 0 m η = 33.7	x: 0 m η = 10.2	x: 0 m η = 0.6	x: 0 m η = 6.0	x: 0 m η = 11.7	x: 0 m η = 1.0	x: 0 m η = 39.9	x: 0 m η = 42.9	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 42.9**
N1344/N941	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta < 0.1$	$\eta < 0.1$	x: 1.872 m η = 24.4	x: 0 m η = 5.6	x: 0 m η = 0.5	x: 0 m η = 5.1	x: 1.872 m η = 6.0	x: 0 m η = 0.3	x: 2.08 m η = 23.4	x: 1.872 m η = 28.9	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 28.9**
N941/N1299	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta < 0.1$	$\eta < 0.1$	x: 2.08 m η = 31.8	x: 2.08 m η = 6.8	x: 2.08 m η = 0.6	x: 2.08 m η = 5.8	x: 2.08 m η = 8.2	x: 2.08 m η = 0.5	x: 2.08 m η = 31.8	x: 2.08 m η = 38.2	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 38.2**
N1299/N940	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	η = 1.6	$N_{c,Sd}$ = 0.00 N.A.(1)	x: 0.4 m η = 25.1	x: 0.4 m η = 6.4	x: 0 m η = 0.3	x: 0.4 m η = 0.7	x: 0.4 m η = 6.3	x: 0.4 m η = 0.4	N.A.(4)	x: 0 m η = 31.8	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 31.8**
N1646/N1340	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 0.2	x: 0 m η = 28.7	x: 0 m η = 8.5	x: 0 m η = 0.6	x: 0 m η = 5.7	x: 0 m η = 8.6	x: 0 m η = 0.7	x: 0 m η = 36.5	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 36.5**
N1340/N960	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 0.3	x: 1.872 m η = 23.4	M_{Sd} = 0.00 N.A.(2)	x: 0 m η = 0.5	x: 0 m η = 4.7	x: 1.872 m η = 5.5	N.A.(3)	x: 1.872 m η = 26.4	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 26.4**
N960/N1303	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 0.4	x: 2.08 m η = 36.6	x: 2.08 m η = 5.3	x: 2.08 m η = 0.5	x: 2.08 m η = 5.9	x: 2.08 m η = 10.8	x: 2.08 m η = 0.3	x: 2.08 m η = 41.6	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 41.6**
N1303/N959	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	η = 1.6	$N_{c,Sd}$ = 0.00 N.A.(1)	x: 0 m η = 28.1	x: 0.4 m η = 5.7	x: 0.4 m η = 0.2	x: 0 m η = 0.6	x: 0 m η = 7.9	x: 0.4 m η = 0.3	N.A.(4)	x: 0 m η = 33.5	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 33.5**
N924/N923	x: 0 m $(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	η = 0.2	$N_{c,Sd}$ = 0.00 N.A.(1)	x: 0 m η = 29.4	x: 0 m η = 10.2	x: 0 m η = 0.7	x: 0 m η = 4.5	x: 0 m η = 6.6	x: 0 m η = 1.0	N.A.(4)	x: 0 m η = 39.8	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 39.8**
N923/N1349	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	η = 0.2	$N_{c,Sd}$ = 0.00 N.A.(1)	x: 1.81 m η = 23.8	x: 1.81 m η = 6.7	x: 1.81 m η = 0.6	x: 1.81 m η = 4.3	x: 1.81 m η = 5.0	x: 1.81 m η = 0.5	N.A.(4)	x: 1.81 m η = 30.7	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 30.7**
N1349/N1644	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	η = 1.9	$N_{c,Sd}$ = 0.00 N.A.(1)	x: 0 m η = 18.6	x: 0 m η = 6.0	x: 0.4 m η = 0.1	x: 0 m η = 2.5	x: 0 m η = 3.5	x: 0 m η = 0.4	N.A.(4)	x: 0 m η = 26.5	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 26.5**
N943/N942	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 0.1	x: 0 m η = 34.0	x: 0 m η = 8.5	x: 0 m η = 0.6	x: 0 m η = 4.7	x: 0 m η = 8.8	x: 0 m η = 0.7	x: 0 m η = 42.6	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 42.6**
N942/N1345	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 0.1	x: 1.81 m η = 21.2	M_{Sd} = 0.00 N.A.(2)	x: 1.81 m η = 0.5	x: 1.81 m η = 4.1	x: 1.81 m η = 4.0	N.A.(3)	x: 1.81 m η = 25.6	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 25.6**
N1345/N1645	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	$\eta < 0.1$	x: 0.4 m η = 33.8	x: 0.4 m η = 9.1	x: 0.4 m η = 0.6	x: 0.4 m η = 5.0	x: 0.4 m η = 11.7	x: 0.4 m η = 0.8	x: 0.4 m η = 42.7	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 42.7**
N962/N961	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 0.2	x: 0 m η = 39.1	x: 0 m η = 7.2	x: 0 m η = 0.5	x: 0 m η = 5.0	x: 0 m η = 11.6	x: 0 m η = 0.5	x: 0 m η = 46.3	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 46.3**
N961/N1341	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 0.1	x: 1.81 m η = 16.5	M_{Sd} = 0.00 N.A.(2)	x: 1.81 m η = 0.4	x: 1.81 m η = 3.8	x: 1.81 m η = 2.5	N.A.(3)	x: 1.81 m η = 20.0	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 20.0**
N1341/N1646	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 0.1	x: 0.4 m η = 28.6	x: 0.4 m η = 7.5	x: 0.4 m η = 0.5	x: 0.4 m η = 4.7	x: 0.4 m η = 8.4	x: 0.4 m η = 0.6	x: 0.4 m η = 35.8	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 35.8**
N1647/N1376	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	η = 1.9	$N_{c,Sd}$ = 0.00 N.A.(1)	x: 0.4 m η = 18.3	x: 0.4 m η = 6.0	x: 0 m η = 0.1	x: 0.4 m η = 2.4	x: 0.4 m η = 3.4	x: 0.4 m η = 0.4	N.A.(4)	x: 0.4 m η = 26.1	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 26.1**
N1376/N925	x: 0 m $(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	η = 0.2	$N_{c,Sd}$ = 0.00 N.A.(1)	x: 0 m η = 23.8	x: 0 m η = 7.0	x: 0 m η = 0.6	x: 0 m η = 4.3	x: 0 m η = 5.0	x: 0 m η = 0.5	N.A.(4)	x: 0 m η = 30.9	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 30.9**
N925/N924	x: 0 m $(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	η = 0.2	$N_{c,Sd}$ = 0.00 N.A.(1)	x: 2.22 m η = 29.4	x: 2.22 m η = 10.3	x: 2.22 m η = 0.7	x: 2.22 m η = 4.5	x: 2.22 m η = 6.6	x: 2.22 m η = 1.1	N.A.(4)	x: 2.22 m η = 39.9	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 39.9**
N1648/N1372	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 0.1	x: 0 m η = 33.3	x: 0 m η = 9.1	x: 0 m η = 0.6	x: 0 m η = 5.0	x: 0 m η = 11.3	x: 0 m η = 0.8	x: 0 m η = 42.5	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 42.5**
N1372/N944	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 0.1	x: 0 m η = 20.0	M_{Sd} = 0.00 N.A.(2)	x: 0 m η = 0.5	x: 0 m η = 4.1	x: 0 m η = 3.6	N.A.(3)	x: 0 m η = 24.8	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 24.8**
N944/N943	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 0.1	x: 2.22 m η = 34.0	x: 2.22 m η = 8.5	x: 2.22 m η = 0.6	x: 2.22 m η = 4.8	x: 2.22 m η = 8.8	x: 2.22 m η = 0.7	x: 2.22 m η = 42.6	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 42.6**
N1649/N1368	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 0.1	x: 0 m η = 28.1	x: 0 m η = 7.5	x: 0 m η = 0.5	x: 0 m η = 4.7	x: 0 m η = 8.1	x: 0 m η = 0.6	x: 0 m η = 35.5	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 35.5**
N1368/N963	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 0.1	x: 0 m η = 15.4	M_{Sd} = 0.00 N.A.(2)	x: 0 m η = 0.4	x: 0 m η = 3.8	x: 0 m η = 2.2	N.A.(3)	x: 0 m η = 19.1	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 19.1**
N963/N962	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 0.2	x: 2.22 m η = 39.2	x: 2.22 m η = 7.3	x: 2.22 m η = 0.5	x: 2.22 m η = 5.0	x: 2.22 m η = 11.6	x: 2.22 m η = 0.5	x: 2.22 m η = 46.4	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 46.4**
N927/N1404	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	η = 1.2	$N_{c,Sd}$ = 0.00 N.A.(1)	x: 0.4 m η = 19.9	x: 0 m η = 8.7	x: 0 m η = 0.3	x: 0.4 m η = 0.9	x: 0.4 m η = 4.0	x: 0 m η = 0.8	N.A.(4)	x: 0.4 m η = 28.3	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 28.3**
N1404/N926	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 0.6	x: 0 m η = 26.8	x: 0 m η = 8.4	x: 0 m η = 0.6	x: 0 m η = 4.7	x: 0 m η = 5.6	x: 0 m η = 0.7	x: 0 m η = 35.5	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 35.5**
N926/N1377	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 0.6	x: 2.185 m η = 29.9	x: 2.185 m η = 8.9	x: 2.185 m η = 0.6	x: 2.185 m η = 4.9	x: 2.185 m η = 7.0	x: 2.185 m η = 0.8	x: 2.185 m η = 39.5	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 39.5**
N1377/N1647	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	η = 1.9	$N_{c,Sd}$ = 0.00 N.A.(1)	x: 0 m η = 21.8	x: 0 m η = 8.0	x: 0 m η = 0.3	x: 0 m η = 3.5	x: 0 m η = 4.9	x: 0 m η = 0.6	N.A.(4)	x: 0 m η = 31.7	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 31.7**

Barras	VERIFICAÇÕES (ABNT NBR 14762:2010)													Estado
	b/t	λ	N_t	N_c	M_x	M_y	V_x	V_y	M_xV_y	M_yV_x	$N_cM_xM_y$	$N_tM_xM_y$	M_t	
N946/N1400	(b_w/t) ≤ 500 (b_f/t) ≤ 60 Passa	λ_{xx} ≤ 300.0 λ_{yy} ≤ 300.0 Passa	η = 1.4	$N_{c,Sd}$ = 0.00 N.A.(1)	x: 0 m η = 22.4	x: 0 m η = 6.9	x: 0 m η = 0.2	x: 0 m η = 0.9	x: 0 m η = 5.0	x: 0 m η = 0.5	N.A.(4)	x: 0.4 m η = 30.2	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 30.2**
N1400/N945	(b_w/t) ≤ 500 (b_f/t) ≤ 60 Passa	λ_{xx} ≤ 200.0 λ_{yy} ≤ 200.0 Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 0.1	x: 0 m η = 30.0	x: 0 m η = 7.6	x: 0 m η = 0.6	x: 0 m η = 5.0	x: 0 m η = 7.0	x: 0 m η = 0.6	x: 0 m η = 37.6	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 37.6**
N945/N1373	(b_w/t) ≤ 500 (b_f/t) ≤ 60 Passa	λ_{xx} ≤ 200.0 λ_{yy} ≤ 200.0 Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 0.1	x: 0 m η = 22.2	x: 2.185 m η = 6.2	x: 2.185 m η = 0.5	x: 2.185 m η = 4.6	x: 0 m η = 4.9	x: 2.185 m η = 0.4	x: 0 m η = 27.7	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 27.7**
N1373/N1648	(b_w/t) ≤ 500 (b_f/t) ≤ 60 Passa	λ_{xx} ≤ 200.0 λ_{yy} ≤ 200.0 Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η < 0.1	x: 0.4 m η = 33.2	x: 0.4 m η = 11.0	x: 0.4 m η = 0.7	x: 0.4 m η = 5.4	x: 0.4 m η = 11.3	x: 0.4 m η = 1.2	x: 0.4 m η = 44.2	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 44.2**
N965/N1396	(b_w/t) ≤ 500 (b_f/t) ≤ 60 Passa	λ_{xx} ≤ 300.0 λ_{yy} ≤ 300.0 Passa	η = 1.5	$N_{c,Sd}$ = 0.00 N.A.(1)	x: 0.4 m η = 25.8	x: 0 m η = 6.4	x: 0 m η = 0.2	x: 0.4 m η = 0.6	x: 0.4 m η = 6.7	x: 0 m η = 0.4	N.A.(4)	x: 0.4 m η = 32.3	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 32.3**
N1396/N964	(b_w/t) ≤ 500 (b_f/t) ≤ 60 Passa	λ_{xx} ≤ 200.0 λ_{yy} ≤ 200.0 Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 0.3	x: 0 m η = 34.1	x: 0 m η = 6.1	x: 0 m η = 0.5	x: 0 m η = 5.1	x: 0 m η = 8.9	x: 0 m η = 0.4	x: 0 m η = 40.2	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 40.2**
N964/N1369	(b_w/t) ≤ 500 (b_f/t) ≤ 60 Passa	λ_{xx} ≤ 200.0 λ_{yy} ≤ 200.0 Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 0.3	x: 0.219 m η = 21.3	x: 2.185 m η = 5.1	x: 2.185 m η = 0.5	x: 2.185 m η = 4.3	x: 0.437 m η = 4.4	x: 2.185 m η = 0.3	x: 0.219 m η = 25.4	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 25.4**
N1369/N1649	(b_w/t) ≤ 500 (b_f/t) ≤ 60 Passa	λ_{xx} ≤ 200.0 λ_{yy} ≤ 200.0 Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 0.1	x: 0.4 m η = 28.2	x: 0.4 m η = 9.4	x: 0.4 m η = 0.6	x: 0.4 m η = 5.1	x: 0.4 m η = 8.2	x: 0.4 m η = 0.9	x: 0.4 m η = 37.4	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 37.4**
N1650/N928	(b_w/t) ≤ 500 (b_f/t) ≤ 60 Passa	λ_{xx} ≤ 200.0 λ_{yy} ≤ 200.0 Passa	η = 0.1	η = 0.5	x: 0 m η = 38.3	x: 0 m η = 11.5	x: 0 m η = 0.7	x: 0 m η = 4.9	x: 0 m η = 10.2	x: 0 m η = 1.3	x: 0 m η = 50.3	x: 0 m η = 29.3	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 50.3**
N928/N1405	(b_w/t) ≤ 500 (b_f/t) ≤ 60 Passa	λ_{xx} ≤ 200.0 λ_{yy} ≤ 200.0 Passa	η = 0.1	η = 0.4	x: 2.06 m η = 26.4	x: 2.06 m η = 7.3	x: 2.06 m η = 0.6	x: 2.06 m η = 4.5	x: 2.06 m η = 5.7	x: 2.06 m η = 0.5	x: 2.06 m η = 34.1	x: 2.06 m η = 23.0	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 34.1**
N1405/N927	(b_w/t) ≤ 500 (b_f/t) ≤ 60 Passa	λ_{xx} ≤ 300.0 λ_{yy} ≤ 300.0 Passa	η = 1.3	$N_{c,Sd}$ = 0.00 N.A.(1)	x: 0 m η = 20.1	x: 0.4 m η = 7.9	x: 0.4 m η = 0.3	x: 0 m η = 1.0	x: 0 m η = 4.1	x: 0.4 m η = 0.6	N.A.(4)	x: 0 m η = 28.0	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 28.0**
N1661/N1323	(b_w/t) ≤ 500 (b_f/t) ≤ 60 Passa	λ_{xx} ≤ 300.0 λ_{yy} ≤ 300.0 Passa	η = 2.4	$N_{c,Sd}$ = 0.00 N.A.(1)	x: 0.4 m η = 27.1	x: 0.4 m η = 7.6	x: 0.4 m η = 0.6	x: 0.4 m η = 4.2	x: 0.4 m η = 7.5	x: 0.4 m η = 0.6	N.A.(4)	x: 0.4 m η = 37.0	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 37.0**
N1323/N1062	(b_w/t) ≤ 500 (b_f/t) ≤ 60 Passa	λ_{xx} ≤ 200.0 λ_{yy} ≤ 200.0 Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 1.0	x: 0 m η = 32.3	x: 0 m η = 8.7	x: 0 m η = 0.6	x: 0 m η = 6.4	x: 0 m η = 10.8	x: 0 m η = 0.8	x: 0 m η = 41.3	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 41.3**
N1062/N1320	(b_w/t) ≤ 500 (b_f/t) ≤ 60 Passa	λ_{xx} ≤ 200.0 λ_{yy} ≤ 200.0 Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 1.0	x: 2.08 m η = 28.3	x: 2.08 m η = 7.9	x: 2.08 m η = 0.6	x: 2.08 m η = 6.2	x: 2.08 m η = 8.4	x: 2.08 m η = 0.6	x: 2.08 m η = 36.5	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 36.5**
N1662/N1326	(b_w/t) ≤ 500 (b_f/t) ≤ 60 Passa	λ_{xx} ≤ 200.0 λ_{yy} ≤ 200.0 Passa	η < 0.1	η < 0.1	x: 0 m η = 42.3	x: 0 m η = 10.2	x: 0 m η = 0.6	x: 0 m η = 7.0	x: 0 m η = 18.4	x: 0 m η = 1.0	x: 0 m η = 51.6	x: 0 m η = 42.9	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 51.6**
N1326/N1064	(b_w/t) ≤ 500 (b_f/t) ≤ 60 Passa	λ_{xx} ≤ 200.0 λ_{yy} ≤ 200.0 Passa	η < 0.1	η = 0.1	x: 1.872 m η = 29.9	x: 0 m η = 5.6	x: 0 m η = 0.5	x: 0 m η = 5.9	x: 1.872 m η = 7.0	x: 0 m η = 0.3	x: 2.08 m η = 34.6	x: 1.872 m η = 29.6	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 34.6**
N1064/N1316	(b_w/t) ≤ 500 (b_f/t) ≤ 60 Passa	λ_{xx} ≤ 200.0 λ_{yy} ≤ 200.0 Passa	η < 0.1	η = 0.1	x: 2.08 m η = 31.9	x: 2.08 m η = 7.0	x: 2.08 m η = 0.6	x: 2.08 m η = 6.6	x: 2.08 m η = 10.6	x: 2.08 m η = 0.5	x: 2.08 m η = 38.7	x: 2.08 m η = 34.5	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 38.7**
N1663/N1330	(b_w/t) ≤ 500 (b_f/t) ≤ 60 Passa	λ_{xx} ≤ 200.0 λ_{yy} ≤ 200.0 Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 0.2	x: 0 m η = 36.1	x: 0 m η = 8.3	x: 0 m η = 0.5	x: 0 m η = 6.7	x: 0 m η = 13.5	x: 0 m η = 0.7	x: 0 m η = 43.0	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 43.0**
N1330/N1066	(b_w/t) ≤ 500 (b_f/t) ≤ 60 Passa	λ_{xx} ≤ 200.0 λ_{yy} ≤ 200.0 Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 0.3	x: 1.872 m η = 29.1	M_{Sd} = 0.00 N.A.(2)	x: 0 m η = 0.5	x: 0 m η = 5.5	x: 1.872 m η = 6.6	N.A.(3)	x: 1.872 m η = 31.7	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 31.7**
N1066/N1312	(b_w/t) ≤ 500 (b_f/t) ≤ 60 Passa	λ_{xx} ≤ 200.0 λ_{yy} ≤ 200.0 Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 0.3	x: 2.08 m η = 37.0	x: 2.08 m η = 5.2	x: 2.08 m η = 0.5	x: 2.08 m η = 6.8	x: 2.08 m η = 14.1	x: 2.08 m η = 0.3	x: 2.08 m η = 41.6	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 41.6**
N1048/N1056	x: 0 m (b_w/t) ≤ 500 (b_f/t) ≤ 60 Passa	λ_{xx} ≤ 300.0 λ_{yy} ≤ 300.0 Passa	η = 0.2	$N_{c,Sd}$ = 0.00 N.A.(1)	x: 0 m η = 35.4	x: 0 m η = 10.7	x: 0 m η = 0.7	x: 0 m η = 6.3	x: 0 m η = 12.9	x: 0 m η = 1.1	N.A.(4)	x: 0 m η = 45.8	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 45.8**
N1056/N1322	(b_w/t) ≤ 500 (b_f/t) ≤ 60 Passa	λ_{xx} ≤ 300.0 λ_{yy} ≤ 300.0 Passa	η = 0.2	$N_{c,Sd}$ = 0.00 N.A.(1)	x: 1.81 m η = 28.8	x: 1.81 m η = 7.5	x: 1.81 m η = 0.6	x: 1.81 m η = 5.9	x: 1.81 m η = 8.7	x: 1.81 m η = 0.6	N.A.(4)	x: 1.81 m η = 36.5	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 36.5**
N1322/N1661	(b_w/t) ≤ 500 (b_f/t) ≤ 60 Passa	λ_{xx} ≤ 300.0 λ_{yy} ≤ 300.0 Passa	η = 2.5	$N_{c,Sd}$ = 0.00 N.A.(1)	x: 0 m η = 23.9	x: 0 m η = 6.3	x: 0 m η = 0.4	x: 0 m η = 3.3	x: 0 m η = 5.8	x: 0 m η = 0.4	N.A.(4)	x: 0 m η = 32.6	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 32.6**
N1050/N1057	(b_w/t) ≤ 500 (b_f/t) ≤ 60 Passa	λ_{xx} ≤ 200.0 λ_{yy} ≤ 200.0 Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 0.1	x: 0 m η = 41.4	x: 0 m η = 8.5	x: 0 m η = 0.6	x: 0 m η = 6.6	x: 0 m η = 17.6	x: 0 m η = 0.7	x: 0 m η = 49.3	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 49.3**
N1057/N1327	(b_w/t) ≤ 500 (b_f/t) ≤ 60 Passa	λ_{xx} ≤ 200.0 λ_{yy} ≤ 200.0 Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 0.1	x: 1.81 m η = 22.4	M_{Sd} = 0.00 N.A.(2)	x: 1.81 m η = 0.5	x: 1.81 m η = 5.5	x: 1.81 m η = 5.3	N.A.(3)	x: 1.81 m η = 27.1	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 27.1**
N1327/N1662	(b_w/t) ≤ 500 (b_f/t) ≤ 60 Passa	λ_{xx} ≤ 200.0 λ_{yy} ≤ 200.0 Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 0.1	x: 0.4 m η = 42.3	x: 0.4 m η = 9.2	x: 0.4 m η = 0.6	x: 0.4 m η = 6.7	x: 0.4 m η = 18.4	x: 0.4 m η = 0.8	x: 0.4 m η = 51.1	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 51.1**
N1052/N1058	(b_w/t) ≤ 500 (b_f/t) ≤ 60 Passa	λ_{xx} ≤ 200.0 λ_{yy} ≤ 200.0 Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 0.2	x: 0 m η = 47.0	x: 0 m η = 7.1	x: 0 m η = 0.5	x: 0 m η = 6.9	x: 0 m η = 22.6	x: 0 m η = 0.5	x: 0 m η = 52.9	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 52.9**
N1058/N1331	(b_w/t) ≤ 500 (b_f/t) ≤ 60 Passa	λ_{xx} ≤ 200.0 λ_{yy} ≤ 200.0 Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 0.2	x: 0.181 m η = 20.4	M_{Sd} = 0.00 N.A.(2)	x: 1.81 m η = 0.4	x: 1.81 m η = 5.2	x: 0.181 m η = 3.5	N.A.(3)	x: 0.181 m η = 22.7	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 22.7**
N1331/N1663	(b_w/t) ≤ 500 (b_f/t) ≤ 60 Passa	λ_{xx} ≤ 200.0 λ_{yy} ≤ 200.0 Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 0.1	x: 0.4 m η = 36.0	x: 0.4 m η = 7.5	x: 0.4 m η = 0.5	x: 0.4 m η = 6.3	x: 0.4 m η = 13.3	x: 0.4 m η = 0.6	x: 0.4 m η = 42.2	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 42.2**
N1665/N1351	(b_w/t) ≤ 500 (b_f/t) ≤ 60 Passa	λ_{xx} ≤ 300.0 λ_{yy} ≤ 300.0 Passa	η = 2.5	$N_{c,Sd}$ = 0.00 N.A.(1)	x: 0.4 m η = 25.3	x: 0.4 m η = 6.6	x: 0.4 m η = 0.4	x: 0.4 m η = 3.4	x: 0.4 m η = 6.5	x: 0.4 m η = 0.4	N.A.(4)	x: 0.4 m η = 34.3	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 34.3**

Barras	VERIFICAÇÕES (ABNT NBR 14762:2010)													Estado
	b/t	λ	N_t	N_c	M_x	M_y	V_x	V_y	M_xV_y	M_yV_x	$N_cM_xM_y$	$N_tM_xM_y$	M_t	
N1351/N1049	x: 0 m $(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	η = 0.2	$N_{c,Sd}$ = 0.00 N.A.(1)	x: 0 m η = 29.8	x: 0 m η = 7.5	x: 0 m η = 0.6	x: 0 m η = 6.0	x: 0 m η = 9.2	x: 0 m η = 0.6	N.A.(4)	x: 0 m η = 37.5	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 37.5**
N1049/N1048	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	η = 0.2	$N_{c,Sd}$ = 0.00 N.A.(1)	x: 2.22 m η = 35.4	x: 2.22 m η = 10.7	x: 2.22 m η = 0.7	x: 2.22 m η = 6.3	x: 2.22 m η = 12.9	x: 2.22 m η = 1.1	N.A.(4)	x: 2.22 m η = 45.7	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 45.7**
N1666/N1354	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 0.1	x: 0 m η = 44.5	x: 0 m η = 9.4	x: 0 m η = 0.6	x: 0 m η = 6.8	x: 0 m η = 20.3	x: 0 m η = 0.9	x: 0 m η = 53.4	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 53.4**
N1354/N1051	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 0.1	x: 0 m η = 24.2	x: 0 m η = 4.9	x: 0 m η = 0.5	x: 0 m η = 5.6	x: 0 m η = 6.2	x: 0 m η = 0.2	x: 0 m η = 29.0	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 29.0**
N1051/N1050	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 0.2	x: 2.22 m η = 41.5	x: 2.22 m η = 8.6	x: 2.22 m η = 0.6	x: 2.22 m η = 6.6	x: 2.22 m η = 17.6	x: 2.22 m η = 0.7	x: 2.22 m η = 49.6	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 49.6**
N1667/N1358	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 0.1	x: 0 m η = 38.1	x: 0 m η = 7.5	x: 0 m η = 0.5	x: 0 m η = 6.4	x: 0 m η = 14.9	x: 0 m η = 0.6	x: 0 m η = 44.5	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 44.5**
N1358/N1053	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 0.1	x: 1.82 m η = 20.1	M_{Sd} = 0.00 N.A.(2)	x: 0 m η = 0.4	x: 0 m η = 5.2	x: 0 m η = 3.9	N.A.(3)	x: 1.638 m η = 22.4	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 22.4**
N1053/N1052	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 0.2	x: 2.22 m η = 47.0	x: 2.22 m η = 7.3	x: 2.22 m η = 0.5	x: 2.22 m η = 6.9	x: 2.22 m η = 22.6	x: 2.22 m η = 0.5	x: 2.22 m η = 53.0	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 53.0**
N1668/N1038	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 0.2	x: 0 m η = 41.3	x: 0 m η = 10.3	x: 0 m η = 0.6	x: 0 m η = 6.9	x: 0 m η = 17.5	x: 0 m η = 1.1	x: 0 m η = 51.1	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 51.1**
N1038/N1383	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 0.1	x: 2.06 m η = 38.1	x: 2.06 m η = 7.4	x: 2.06 m η = 0.6	x: 2.06 m η = 6.7	x: 2.06 m η = 15.0	x: 2.06 m η = 0.6	x: 2.06 m η = 45.3	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 45.3**
N1669/N1040	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	η = 0.1	η = 0.2	x: 0 m η = 36.3	x: 0 m η = 8.9	x: 0 m η = 0.6	x: 0 m η = 6.6	x: 0 m η = 13.6	x: 0 m η = 0.8	x: 0 m η = 43.6	x: 0 m η = 26.0	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 43.6**
N1040/N1387	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	η = 0.1	η = 0.1	x: 2.06 m η = 41.6	x: 2.06 m η = 5.7	x: 2.06 m η = 0.5	x: 2.06 m η = 6.9	x: 2.06 m η = 17.8	x: 2.06 m η = 0.3	x: 2.06 m η = 46.7	x: 2.06 m η = 33.4	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 46.7**
N1022/N1030	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	η < 0.1	η = 0.5	x: 0 m η = 46.4	x: 0 m η = 11.9	x: 0 m η = 0.7	x: 0 m η = 7.1	x: 0 m η = 22.1	x: 0 m η = 1.4	x: 0 m η = 58.3	x: 0 m η = 16.0	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 58.3**
N1030/N1670	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	η < 0.1	η = 0.5	x: 2.345 m η = 45.0	x: 2.345 m η = 12.0	x: 2.345 m η = 0.7	x: 2.345 m η = 7.0	x: 2.345 m η = 20.8	x: 2.345 m η = 1.4	x: 2.345 m η = 57.1	x: 2.345 m η = 14.9	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 57.1**
N1024/N1031	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 0.1	x: 0 m η = 50.8	x: 0 m η = 9.8	x: 0 m η = 0.6	x: 0 m η = 7.3	x: 0 m η = 26.3	x: 0 m η = 1.0	x: 0 m η = 60.0	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 60.0**
N1031/N1668	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 0.2	x: 2.345 m η = 41.3	x: 2.345 m η = 10.3	x: 2.345 m η = 0.6	x: 2.345 m η = 6.9	x: 2.345 m η = 17.6	x: 2.345 m η = 1.1	x: 2.345 m η = 51.2	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 51.2**
N1026/N1032	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	η < 0.1	η = 0.2	x: 0 m η = 55.8	x: 0 m η = 8.6	x: 0 m η = 0.6	x: 0 m η = 7.6	x: 0 m η = 31.7	x: 0 m η = 0.7	x: 0 m η = 63.4	x: 0 m η = 37.0	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 63.4**
N1032/N1669	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	η = 0.1	η = 0.3	x: 2.345 m η = 36.3	x: 2.345 m η = 8.5	x: 2.345 m η = 0.6	x: 2.345 m η = 6.6	x: 2.345 m η = 13.6	x: 2.345 m η = 0.7	x: 2.345 m η = 43.7	x: 2.345 m η = 25.7	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 43.7**
N1671/N1023	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	η < 0.1	η = 0.6	x: 0 m η = 47.0	x: 0 m η = 12.6	x: 0 m η = 0.7	x: 0 m η = 7.2	x: 0 m η = 22.6	x: 0 m η = 1.6	x: 0 m η = 59.7	x: 0 m η = 13.3	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 59.7**
N1023/N1022	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	η < 0.1	η = 0.6	x: 2.405 m η = 46.5	x: 2.405 m η = 12.2	x: 2.405 m η = 0.7	x: 2.405 m η = 7.2	x: 2.405 m η = 22.1	x: 2.405 m η = 1.5	x: 2.405 m η = 58.8	x: 2.405 m η = 13.4	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 58.8**
N1672/N1025	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 0.2	x: 0 m η = 43.4	x: 0 m η = 10.7	x: 0 m η = 0.7	x: 0 m η = 7.1	x: 0 m η = 19.3	x: 0 m η = 1.2	x: 0 m η = 53.7	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 53.7**
N1025/N1024	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 0.2	x: 2.405 m η = 50.8	x: 2.405 m η = 10.3	x: 2.405 m η = 0.6	x: 2.405 m η = 7.5	x: 2.405 m η = 26.4	x: 2.405 m η = 1.1	x: 2.405 m η = 60.5	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 60.5**
N1673/N1027	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	η < 0.1	η = 0.3	x: 0 m η = 38.3	x: 0 m η = 9.0	x: 0 m η = 0.6	x: 0 m η = 6.8	x: 0 m η = 15.1	x: 0 m η = 0.8	x: 0 m η = 46.3	x: 0 m η = 24.2	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 46.3**
N1027/N1026	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	η < 0.1	η = 0.3	x: 2.405 m η = 55.9	x: 2.405 m η = 9.0	x: 2.405 m η = 0.6	x: 2.405 m η = 7.7	x: 2.405 m η = 31.9	x: 2.405 m η = 0.8	x: 2.405 m η = 63.9	x: 2.405 m η = 32.7	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 63.9**
N1009/N1017	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	η < 0.1	η = 0.4	x: 0 m η = 49.9	x: 0 m η = 12.2	x: 0 m η = 0.7	x: 0 m η = 7.3	x: 0 m η = 25.4	x: 0 m η = 1.5	x: 0 m η = 61.9	x: 0 m η = 13.7	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 61.9**
N1017/N1671	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	η < 0.1	η = 0.4	x: 2.4 m η = 46.9	x: 2.4 m η = 12.4	x: 2.4 m η = 0.7	x: 2.4 m η = 7.2	x: 2.4 m η = 22.5	x: 2.4 m η = 1.5	x: 2.4 m η = 59.2	x: 2.4 m η = 13.3	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 59.2**
N1011/N1018	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 0.2	x: 0 m η = 54.7	x: 0 m η = 10.3	x: 0 m η = 0.6	x: 0 m η = 7.6	x: 0 m η = 30.5	x: 0 m η = 1.1	x: 0 m η = 64.4	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 64.4**
N1018/N1672	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	η = 0.2	x: 2.4 m η = 43.4	x: 2.4 m η = 10.7	x: 2.4 m η = 0.7	x: 2.4 m η = 7.0	x: 2.4 m η = 19.4	x: 2.4 m η = 1.2	x: 2.4 m η = 53.7	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 53.7**
N1013/N1019	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	η < 0.1	η = 0.3	x: 0 m η = 59.1	x: 0 m η = 9.1	x: 0 m η = 0.6	x: 0 m η = 7.8	x: 0 m η = 35.6	x: 0 m η = 0.8	x: 0 m η = 67.2	x: 0 m η = 30.6	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 67.2**
N1019/N1673	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	η < 0.1	η = 0.4	x: 2.4 m η = 38.3	x: 2.4 m η = 9.0	x: 2.4 m η = 0.6	x: 2.4 m η = 6.7	x: 2.4 m η = 15.2	x: 2.4 m η = 0.8	x: 2.4 m η = 46.3	x: 2.4 m η = 21.7	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 46.3**

Barras	VERIFICAÇÕES (ABNT NBR 14762:2010)													Estado
	b/t	λ	N_t	N_c	M_x	M_y	V_x	V_y	M_xV_y	M_yV_x	$N_cM_xM_y$	$N_tM_xM_y$	M_t	
N1659/N1010	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta < 0.1$	$\eta = 0.7$	x: 0 m $\eta = 44.6$	x: 0 m $\eta = 13.2$	x: 0 m $\eta = 0.7$	x: 0 m $\eta = 7.3$	x: 0 m $\eta = 20.4$	x: 0 m $\eta = 1.7$	x: 0 m $\eta = 58.0$	x: 0 m $\eta = 8.8$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 58.0$**
N1010/N1009	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta < 0.1$	$\eta = 0.7$	x: 2.47 m $\eta = 50.1$	x: 2.47 m $\eta = 12.8$	x: 2.47 m $\eta = 0.7$	x: 2.47 m $\eta = 7.5$	x: 2.47 m $\eta = 25.6$	x: 2.47 m $\eta = 1.6$	x: 2.47 m $\eta = 63.0$	x: 2.47 m $\eta = 9.3$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 63.0$**
N1674/N1012	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	$\eta = 0.2$	x: 0 m $\eta = 38.4$	x: 0 m $\eta = 11.1$	x: 0 m $\eta = 0.7$	x: 0 m $\eta = 7.1$	x: 0 m $\eta = 15.2$	x: 0 m $\eta = 1.2$	x: 0 m $\eta = 49.0$	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 49.0$**
N1012/N1011	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	$\eta = 0.2$	x: 2.47 m $\eta = 54.7$	x: 2.47 m $\eta = 10.7$	x: 2.47 m $\eta = 0.7$	x: 2.47 m $\eta = 7.9$	x: 2.47 m $\eta = 30.5$	x: 2.47 m $\eta = 1.2$	x: 2.47 m $\eta = 64.8$	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 64.8$**
N1675/N1014	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta < 0.1$	$\eta = 0.4$	x: 0 m $\eta = 35.0$	x: 0 m $\eta = 9.3$	x: 0 m $\eta = 0.6$	x: 0 m $\eta = 6.8$	x: 0 m $\eta = 12.7$	x: 0 m $\eta = 0.9$	x: 0 m $\eta = 43.2$	x: 0 m $\eta = 17.9$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 43.2$**
N1014/N1013	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta < 0.1$	$\eta = 0.4$	x: 2.47 m $\eta = 59.2$	x: 2.47 m $\eta = 9.5$	x: 2.47 m $\eta = 0.6$	x: 2.47 m $\eta = 8.0$	x: 2.47 m $\eta = 35.6$	x: 2.47 m $\eta = 0.9$	x: 2.47 m $\eta = 67.6$	x: 2.47 m $\eta = 25.9$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 67.6$**
N1003/N1002	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	$\eta = 0.2$	x: 0 m $\eta = 49.9$	x: 0 m $\eta = 8.8$	x: 0 m $\eta = 0.6$	x: 0 m $\eta = 7.1$	x: 0 m $\eta = 25.4$	x: 0 m $\eta = 0.8$	x: 0 m $\eta = 58.2$	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 58.2$**
N1002/N1674	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	$\eta = 0.3$	x: 2.22 m $\eta = 38.5$	x: 2.22 m $\eta = 9.3$	x: 2.22 m $\eta = 0.6$	x: 2.22 m $\eta = 6.4$	x: 2.22 m $\eta = 15.2$	x: 2.22 m $\eta = 0.9$	x: 2.22 m $\eta = 47.5$	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 47.5$**
N1005/N1004	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta < 0.1$	$\eta = 0.2$	x: 0 m $\eta = 52.5$	x: 0 m $\eta = 8.3$	x: 0 m $\eta = 0.6$	x: 0 m $\eta = 7.2$	x: 0 m $\eta = 28.1$	x: 0 m $\eta = 0.7$	x: 0 m $\eta = 60.3$	x: 0 m $\eta = 35.1$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 60.3$**
N1004/N1675	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta < 0.1$	$\eta = 0.2$	x: 2.22 m $\eta = 34.9$	x: 2.22 m $\eta = 7.9$	x: 2.22 m $\eta = 0.5$	x: 2.22 m $\eta = 6.3$	x: 2.22 m $\eta = 12.6$	x: 2.22 m $\eta = 0.6$	x: 2.22 m $\eta = 42.0$	x: 2.22 m $\eta = 21.8$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 42.0$**
N1350/N1665	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	$\eta = 2.5$	$N_{c,Sd} = 0.00$ N.A.(1)	x: 0 m $\eta = 28.9$	x: 0 m $\eta = 8.0$	x: 0 m $\eta = 0.6$	x: 0 m $\eta = 4.5$	x: 0 m $\eta = 8.6$	x: 0 m $\eta = 0.6$	N.A.(4)	x: 0 m $\eta = 39.2$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 39.2$**
N1043/N1350	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	$\eta = 0.8$	x: 2.185 m $\eta = 34.9$	x: 2.185 m $\eta = 9.5$	x: 2.185 m $\eta = 0.7$	x: 2.185 m $\eta = 6.7$	x: 2.185 m $\eta = 12.7$	x: 2.185 m $\eta = 0.9$	x: 2.185 m $\eta = 45.1$	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 45.1$**
N1379/N1043	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	$\eta = 0.8$	x: 0 m $\eta = 33.2$	x: 0 m $\eta = 8.6$	x: 0 m $\eta = 0.6$	x: 0 m $\eta = 6.6$	x: 0 m $\eta = 11.4$	x: 0 m $\eta = 0.7$	x: 0 m $\eta = 42.2$	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 42.2$**
N1355/N1666	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	$\eta < 0.1$	x: 0.4 m $\eta = 44.5$	x: 0.4 m $\eta = 11.1$	x: 0.4 m $\eta = 0.7$	x: 0.4 m $\eta = 7.3$	x: 0.4 m $\eta = 20.3$	x: 0.4 m $\eta = 1.2$	x: 0.4 m $\eta = 54.7$	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 54.7$**
N1044/N1355	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	$\eta = 0.1$	x: 0.219 m $\eta = 33.6$	x: 2.185 m $\eta = 6.2$	x: 2.185 m $\eta = 0.6$	x: 2.185 m $\eta = 6.2$	x: 0.219 m $\eta = 8.5$	x: 2.185 m $\eta = 0.4$	x: 0.219 m $\eta = 38.6$	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 38.6$**
N1382/N1044	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	$\eta = 0.1$	x: 0 m $\eta = 37.6$	x: 0 m $\eta = 7.8$	x: 0 m $\eta = 0.6$	x: 0 m $\eta = 7.0$	x: 0 m $\eta = 14.6$	x: 0 m $\eta = 0.6$	x: 0 m $\eta = 45.0$	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 45.0$**
N1359/N1667	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	$\eta = 0.1$	x: 0.4 m $\eta = 38.2$	x: 0.4 m $\eta = 9.4$	x: 0.4 m $\eta = 0.6$	x: 0.4 m $\eta = 7.0$	x: 0.4 m $\eta = 15.1$	x: 0.4 m $\eta = 0.9$	x: 0.4 m $\eta = 45.8$	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 45.8$**
N1045/N1359	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	$\eta = 0.3$	x: 0.219 m $\eta = 32.7$	x: 2.185 m $\eta = 5.1$	x: 2.185 m $\eta = 0.5$	x: 2.185 m $\eta = 5.8$	x: 0.219 m $\eta = 8.0$	x: 2.185 m $\eta = 0.3$	x: 0.219 m $\eta = 35.8$	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 35.8$**
N1386/N1045	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	$\eta = 0.3$	x: 0 m $\eta = 42.3$	x: 0 m $\eta = 6.0$	x: 0 m $\eta = 0.5$	x: 0 m $\eta = 7.2$	x: 0 m $\eta = 18.4$	x: 0 m $\eta = 0.4$	x: 0 m $\eta = 47.8$	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 47.8$**
N1036/N1378	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 0.1$	$\eta = 0.6$	x: 2.06 m $\eta = 33.7$	x: 2.06 m $\eta = 7.8$	x: 2.06 m $\eta = 0.6$	x: 2.06 m $\eta = 6.5$	x: 2.06 m $\eta = 11.8$	x: 2.06 m $\eta = 0.6$	x: 2.06 m $\eta = 41.8$	x: 2.06 m $\eta = 21.1$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 41.8$**
N1670/N1036	$(b_w/t) \leq 500$ $(b_f/t) \leq 60$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$\eta = 0.1$	$\eta = 0.8$	x: 0 m $\eta = 45.2$	x: 0 m $\eta = 11.9$	x: 0 m $\eta = 0.7$	x: 0 m $\eta = 7.1$	x: 0 m $\eta = 20.9$	x: 0 m $\eta = 1.4$	x: 0 m $\eta = 57.2$	x: 0 m $\eta = 25.9$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 57.2$**
N1446/N1447	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	x: 0 m $\eta = 33.1$	x: 0 m $\eta = 3.5$	$M_{Sd} = 0.00$ N.A.(2)	x: 0.623 m $\eta = 0.6$	$\eta < 0.1$	x: 0 m $\eta = 0.1$	N.A.(3)	x: 0.623 m $\eta = 49.0$	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 49.0$**
N49/N1458	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	x: 0 m $\eta = 15.4$	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0.565 m $\eta = 1.0$	$\eta = 0.1$	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 15.4$**
N49/N43	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	x: 0.4 m $\eta = 3.3$	$N_{c,Sd} = 0.00$ N.A.(1)	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	$\eta = 1.2$	$\eta = 0.2$	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 3.3$**
N1462/N42	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	x: 0.573 m $\eta = 5.3$	$N_{c,Sd} = 0.00$ N.A.(1)	x: 0 m $\eta = 3.4$	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m $\eta = 0.4$	$\eta = 0.2$	x: 0 m $\eta = 0.1$	N.A.(3)	N.A.(4)	x: 0 m $\eta = 21.4$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 21.4$**
N1465/N1466	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	x: 0 m $\eta = 42.3$	x: 0 m $\eta = 3.5$	$M_{Sd} = 0.00$ N.A.(2)	x: 0.623 m $\eta = 0.7$	$\eta < 0.1$	x: 0 m $\eta = 0.1$	N.A.(3)	x: 0.623 m $\eta = 48.7$	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 48.7$**
N51/N1480	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	x: 0 m $\eta = 18.9$	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0.565 m $\eta = 1.2$	$\eta = 0.2$	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 18.9$**
N51/N46	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	x: 0.4 m $\eta = 4.1$	$N_{c,Sd} = 0.00$ N.A.(1)	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	$\eta = 1.5$	$\eta = 0.1$	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 4.1$**
N1481/N45	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	x: 0.573 m $\eta = 6.3$	$N_{c,Sd} = 0.00$ N.A.(1)	x: 0 m $\eta = 3.4$	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m $\eta = 0.5$	$\eta = 0.2$	x: 0 m $\eta = 0.1$	N.A.(3)	N.A.(4)	x: 0 m $\eta = 21.3$	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 21.3$**
N38/N42	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	x: 0 m $\eta = 17.8$	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	$\eta = 0.6$	$\eta = 0.6$	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 17.8$**
N39/N45	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	x: 0 m $\eta = 21.9$	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	$\eta = 0.8$	$\eta = 0.8$	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA** **$\eta = 21.9$**

Barras	VERIFICAÇÕES (ABNT NBR 14762:2010)													Estado
	b/t	λ	N_t	N_c	M_x	M_y	V_x	V_y	M_xV_y	M_yV_x	$N_cM_xM_y$	$N_tM_xM_y$	M_t	
N1484/N1485	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	x: 0 m η = 32.1	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0.623 m η = 0.6	$V_{Sd} = 0.00$ N.A.(8)	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 32.1**
N87/N1496	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	x: 0 m η = 14.6	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0.565 m η = 1.0	η = 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 14.6**
N87/N81	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	x: 0.4 m η = 3.3	$N_{c,Sd} = 0.00$ N.A.(1)	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	η = 1.2	η = 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 3.3**
N1503/N1504	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	x: 0 m η = 43.8	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0.623 m η = 0.7	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 43.8**
N89/N1518	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	x: 0 m η = 19.2	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0.565 m η = 1.3	η = 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 19.2**
N89/N84	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	x: 0.4 m η = 4.5	$N_{c,Sd} = 0.00$ N.A.(1)	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	η = 1.6	η = 0.3	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 4.5**
N1519/N83	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	x: 0.573 m η = 6.3	$N_{c,Sd} = 0.00$ N.A.(1)	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m η = 0.6	η = 0.2	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 6.3**
N76/N80	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	x: 0 m η = 16.6	x: 0 m η = 3.5	$M_{Sd} = 0.00$ N.A.(2)	η = 0.6	η = 1.0	x: 0 m η = 0.1	N.A.(3)	x: 0 m η = 26.5	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 26.5**
N1522/N1523	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	x: 0 m η = 32.5	$M_{Sd} = 0.00$ N.A.(2)	x: 0.623 m η = 32.0	x: 0.623 m η = 1.3	η = 0.1	N.A.(3)	x: 0.623 m η = 10.2	x: 0.623 m η = 64.7	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 64.7**
N125/N1534	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	x: 0 m η = 14.9	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0.565 m η = 0.9	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 14.9**
N125/N119	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	x: 0 m η = 2.6	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	η = 1.0	η = 0.3	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 2.6**
N1538/N118	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	x: 0.573 m η = 4.0	$N_{c,Sd} = 0.00$ N.A.(1)	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m η = 0.3	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 4.0**
N1541/N1542	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	x: 0 m η = 46.9	$M_{Sd} = 0.00$ N.A.(2)	x: 0.623 m η = 45.2	x: 0.623 m η = 1.8	η = 0.1	N.A.(3)	x: 0.623 m η = 20.5	x: 0.623 m η = 92.3	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 92.3**
N127/N1556	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	x: 0 m η = 20.1	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0.565 m η = 1.3	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 20.1**
N127/N122	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	x: 0 m η = 3.6	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	η = 1.6	η = 0.3	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 3.6**
N1557/N121	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	x: 0.573 m η = 4.5	$N_{c,Sd} = 0.00$ N.A.(1)	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m η = 0.4	η = 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 4.5**
N1560/N1561	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	x: 0 m η = 33.4	$M_{Sd} = 0.00$ N.A.(2)	x: 0.623 m η = 32.8	x: 0.623 m η = 1.4	η < 0.1	N.A.(3)	x: 0.623 m η = 10.8	x: 0.623 m η = 66.3	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 66.3**
N163/N1572	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	x: 0 m η = 15.3	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0.565 m η = 1.0	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 15.3**
N163/N157	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	x: 0 m η = 2.7	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	η = 1.1	η = 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 2.7**
N1576/N156	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	x: 0.573 m η = 4.0	$N_{c,Sd} = 0.00$ N.A.(1)	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m η = 0.3	$V_{Sd} = 0.00$ N.A.(8)	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 4.0**
N1579/N1580	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	x: 0 m η = 48.1	$M_{Sd} = 0.00$ N.A.(2)	x: 0.623 m η = 46.3	x: 0.623 m η = 1.9	η = 0.1	N.A.(3)	x: 0.623 m η = 21.5	x: 0.623 m η = 94.7	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 94.7**
N165/N1594	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	x: 0 m η = 20.5	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0.565 m η = 1.3	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 20.5**
N165/N160	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	x: 0 m η = 3.9	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	η = 1.4	η = 0.2	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 3.9**
N1595/N159	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	x: 0.573 m η = 4.6	$N_{c,Sd} = 0.00$ N.A.(1)	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m η = 0.4	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 4.6**
N152/N156	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	x: 0 m η = 16.6	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	η = 0.2	η = 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 16.6**
N153/N159	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	x: 0 m η = 22.1	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	η = 0.2	η = 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 22.1**
N1598/N1599	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	x: 0 m η = 32.0	$M_{Sd} = 0.00$ N.A.(2)	x: 0.623 m η = 31.4	x: 0.623 m η = 1.3	η = 0.3	N.A.(3)	x: 0.623 m η = 9.9	x: 0.623 m η = 66.0	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 66.0**
N201/N1610	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	x: 0 m η = 15.0	x: 0 m η = 3.0	$M_{Sd} = 0.00$ N.A.(2)	x: 0.565 m η = 0.9	η = 0.1	x: 0 m η = 0.1	N.A.(3)	x: 0 m η = 31.5	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 31.5**
N201/N195	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	x: 0 m η = 2.6	x: 0.4 m η = 8.6	$M_{Sd} = 0.00$ N.A.(2)	η = 1.0	η = 1.6	x: 0.4 m η = 0.8	N.A.(3)	x: 0.4 m η = 20.9	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 20.9**
N1614/N194	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	x: 0.573 m η = 4.2	$N_{c,Sd} = 0.00$ N.A.(1)	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m η = 0.3	η = 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 4.2**
N1617/N1618	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	x: 0 m η = 46.1	x: 0.623 m η = 3.7	x: 0.623 m η = 44.4	x: 0.623 m η = 1.8	η = 0.5	x: 0.623 m η = 0.1	x: 0.623 m η = 19.8	x: 0.623 m η = 94.2	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 94.2**

Barras	VERIFICAÇÕES (ABNT NBR 14762:2010)													Estado
	b/t	λ	N_t	N_c	M_x	M_y	V_x	V_y	M_xV_y	M_yV_x	$N_cM_xM_y$	$N_tM_xM_y$	M_t	
N203/N1632	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	x: 0 m η = 20.2	x: 0 m η = 4.2	$M_{Sd} = 0.00$ N.A.(2)	x: 0.565 m η = 1.2	η = 0.1	x: 0 m η = 0.2	N.A.(3)	x: 0.565 m η = 44.3	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 44.3**
N203/N198	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	x: 0 m η = 3.8	x: 0.4 m η = 12.5	$M_{Sd} = 0.00$ N.A.(2)	η = 1.4	η = 2.4	x: 0.4 m η = 1.6	N.A.(3)	x: 0.4 m η = 29.4	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 29.4**
N1633/N197	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	x: 0.573 m η = 5.0	$N_{c,Sd} = 0.00$ N.A.(1)	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m η = 0.4	η = 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 5.0**
N190/N194	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	x: 0 m η = 16.5	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	η = 0.1	η = 0.6	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 16.5**
N191/N197	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	x: 0 m η = 22.2	x: 0 m η = 3.6	$M_{Sd} = 0.00$ N.A.(2)	η = 0.2	η = 0.8	x: 0 m η = 0.1	N.A.(3)	x: 0 m η = 30.9	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 30.9**
N1676/N1701	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	x: 0 m η = 35.3	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0.623 m η = 1.4	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 35.3**
N33/N1706	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	x: 0 m η = 24.6	x: 0.565 m η = 3.1	$M_{Sd} = 0.00$ N.A.(2)	x: 0.565 m η = 1.1	η = 0.3	x: 0.565 m η = 0.1	N.A.(3)	x: 0.565 m η = 46.0	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 46.0**
N33/N21	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	x: 0.4 m η = 6.3	$N_{c,Sd} = 0.00$ N.A.(1)	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	η = 2.0	η = 0.2	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 6.3**
N1682/N20	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	x: 0.573 m η = 12.8	$N_{c,Sd} = 0.00$ N.A.(1)	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m η = 0.9	η = 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 12.8**
N1687/N1693	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	x: 0 m η = 40.1	$M_{Sd} = 0.00$ N.A.(2)	x: 0.623 m η = 30.5	x: 0.623 m η = 1.6	η < 0.1	N.A.(3)	x: 0.623 m η = 9.3	x: 0.623 m η = 73.1	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 73.1**
N37/N1698	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	x: 0 m η = 27.8	x: 0.565 m η = 3.1	$M_{Sd} = 0.00$ N.A.(2)	x: 0.565 m η = 1.1	η = 0.2	x: 0.565 m η = 0.1	N.A.(3)	x: 0.565 m η = 51.1	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 51.1**
N1685/N25	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	x: 0.573 m η = 15.0	$N_{c,Sd} = 0.00$ N.A.(1)	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m η = 1.0	η = 0.2	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 15.0**
N15/N20	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	x: 0 m η = 23.0	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	η = 0.7	η = 0.4	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 23.0**
N17/N25	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	x: 0 m η = 26.2	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	η = 0.7	η = 0.5	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 26.2**
N1707/N1708	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	x: 0 m η = 38.0	$M_{Sd} = 0.00$ N.A.(2)	x: 0.623 m η = 39.6	x: 0.623 m η = 1.7	$V_{Sd} = 0.00$ N.A.(8)	N.A.(3)	x: 0.623 m η = 15.7	x: 0.623 m η = 77.6	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 77.6**
N75/N1718	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	x: 0 m η = 25.8	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0.565 m η = 1.4	$V_{Sd} = 0.00$ N.A.(8)	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 25.8**
N75/N64	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	x: 0 m η = 4.1	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	η = 1.7	η = 0.3	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 4.1**
N1719/N63	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	x: 0.573 m η = 10.9	$N_{c,Sd} = 0.00$ N.A.(1)	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m η = 0.7	η = 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 10.9**
N55/N63	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	x: 0 m η = 23.4	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	η = 1.4	η = 0.5	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 23.4**
N71/N1725	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	x: 0 m η = 18.6	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0.565 m η = 1.1	$V_{Sd} = 0.00$ N.A.(8)	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 18.6**
N71/N59	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	x: 0 m η = 3.0	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	η = 1.3	η = 0.3	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 3.0**
N1720/N58	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	x: 0.573 m η = 7.7	$N_{c,Sd} = 0.00$ N.A.(1)	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m η = 0.5	η = 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 7.7**
N53/N58	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	x: 0 m η = 16.8	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	η = 1.0	η = 0.6	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 16.8**
N1733/N1734	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	x: 0 m η = 27.7	$M_{Sd} = 0.00$ N.A.(2)	x: 0.623 m η = 28.9	x: 0.623 m η = 1.3	$V_{Sd} = 0.00$ N.A.(8)	N.A.(3)	x: 0.623 m η = 8.4	x: 0.623 m η = 56.6	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 56.6**
N1737/N1738	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	x: 0 m η = 43.0	x: 0.623 m η = 4.4	x: 0.623 m η = 32.2	x: 0.623 m η = 1.7	η = 0.1	x: 0.623 m η = 0.2	x: 0.623 m η = 10.4	x: 0.623 m η = 76.3	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 76.3**
N113/N1748	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	x: 0 m η = 30.1	x: 0.565 m η = 4.4	$M_{Sd} = 0.00$ N.A.(2)	x: 0.565 m η = 1.3	η = 0.3	x: 0.565 m η = 0.2	N.A.(3)	x: 0.565 m η = 38.9	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 38.9**
N113/N102	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	x: 0.4 m η = 8.2	$N_{c,Sd} = 0.00$ N.A.(1)	$M_{Sd} = 0.00$ N.A.(2)	x: 0.032 m η = 35.0	η = 2.4	η = 0.3	N.A.(3)	x: 0.032 m η = 12.3	N.A.(4)	x: 0.032 m η = 45.1	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 45.1**
N1749/N101	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	x: 0.573 m η = 16.1	$N_{c,Sd} = 0.00$ N.A.(1)	x: 0 m η = 3.0	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m η = 1.1	η = 0.4	x: 0 m η = 0.1	N.A.(3)	N.A.(4)	x: 0 m η = 29.7	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 29.7**
N109/N1755	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	x: 0 m η = 21.1	x: 0.565 m η = 4.5	$M_{Sd} = 0.00$ N.A.(2)	x: 0.565 m η = 0.9	η = 0.2	x: 0.565 m η = 0.2	N.A.(3)	x: 0.565 m η = 39.0	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 39.0**
N109/N97	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	x: 0.4 m η = 5.8	$N_{c,Sd} = 0.00$ N.A.(1)	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	η = 1.7	η = 0.3	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 5.8**
N1750/N96	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	x: 0.573 m η = 11.1	$N_{c,Sd} = 0.00$ N.A.(1)	x: 0 m η = 3.1	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m η = 0.8	η = 0.4	x: 0 m η = 0.1	N.A.(3)	N.A.(4)	x: 0 m η = 29.9	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 29.9**

Barras	VERIFICAÇÕES (ABNT NBR 14762:2010)													Estado
	b/t	λ	N_t	N_c	M_x	M_y	V_x	V_y	M_xV_y	M_yV_x	$N_cM_xM_y$	$N_tM_xM_y$	M_t	
N1763/N1764	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	x: 0 m η = 30.3	x: 0.623 m η = 4.5	$M_{Sd} = 0.00$ N.A.(2)	x: 0.623 m η = 1.2	η = 0.1	x: 0.623 m η = 0.2	N.A.(3)	x: 0.623 m η = 54.7	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 54.7**
N1767/N1768	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	x: 0 m η = 42.3	$M_{Sd} = 0.00$ N.A.(2)	x: 0.623 m η = 44.6	x: 0.623 m η = 2.0	$V_{Sd} = 0.00$ N.A.(8)	N.A.(3)	x: 0.623 m η = 19.9	x: 0.623 m η = 87.5	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 87.5**
N151/N1778	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	x: 0 m η = 28.5	$M_{Sd} = 0.00$ N.A.(2)	x: 0.565 m η = 30.4	x: 0.565 m η = 1.7	η < 0.1	N.A.(3)	x: 0.565 m η = 9.2	x: 0.565 m η = 59.1	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 59.1**
N151/N140	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	x: 0 m η = 4.6	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m η = 33.6	η = 2.2	η = 0.4	N.A.(3)	x: 0 m η = 11.3	x: 0 m η = 38.4	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 38.4**
N1779/N139	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	x: 0.573 m η = 11.7	$N_{c,Sd} = 0.00$ N.A.(1)	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m η = 0.7	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 11.7**
N147/N1785	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	x: 0 m η = 19.9	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0.565 m η = 1.1	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 19.9**
N147/N135	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	x: 0 m η = 3.3	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	η = 1.3	η = 0.4	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 3.3**
N1780/N134	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	x: 0.573 m η = 8.1	$N_{c,Sd} = 0.00$ N.A.(1)	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m η = 0.5	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 8.1**
N1793/N1794	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	x: 0 m η = 29.8	$M_{Sd} = 0.00$ N.A.(2)	x: 0.623 m η = 31.3	x: 0.623 m η = 1.4	$V_{Sd} = 0.00$ N.A.(8)	N.A.(3)	x: 0.623 m η = 9.8	x: 0.623 m η = 61.5	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 61.5**
N1797/N1798	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	x: 0 m η = 43.9	$M_{Sd} = 0.00$ N.A.(2)	x: 0.623 m η = 46.2	x: 0.623 m η = 2.0	η < 0.1	N.A.(3)	x: 0.623 m η = 21.4	x: 0.623 m η = 91.3	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 91.3**
N189/N1808	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	x: 0 m η = 29.4	$M_{Sd} = 0.00$ N.A.(2)	x: 0.565 m η = 30.0	x: 0.565 m η = 1.6	η < 0.1	N.A.(3)	x: 0.565 m η = 9.0	x: 0.565 m η = 60.5	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 60.5**
N189/N178	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	x: 0 m η = 4.6	x: 0.4 m η = 3.4	x: 0 m η = 30.3	η = 2.0	η = 0.7	x: 0.4 m η = 0.1	x: 0 m η = 9.2	x: 0 m η = 35.6	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 35.6**
N1809/N177	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	x: 0.573 m η = 12.3	$N_{c,Sd} = 0.00$ N.A.(1)	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m η = 0.8	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 12.3**
N169/N177	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	x: 0 m η = 26.5	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	η = 1.6	η = 0.4	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 26.5**
N185/N1815	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	x: 0 m η = 20.5	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0.565 m η = 1.2	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 20.5**
N185/N173	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	x: 0 m η = 3.2	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	η = 1.4	η = 0.4	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 3.2**
N1810/N172	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	x: 0.573 m η = 8.4	$N_{c,Sd} = 0.00$ N.A.(1)	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m η = 0.5	η < 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 8.4**
N167/N172	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	x: 0 m η = 18.3	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	η = 1.1	η = 0.3	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 18.3**
N1823/N1824	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	x: 0 m η = 30.9	$M_{Sd} = 0.00$ N.A.(2)	x: 0.623 m η = 32.5	x: 0.623 m η = 1.4	η < 0.1	N.A.(3)	x: 0.623 m η = 10.6	x: 0.623 m η = 64.2	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 64.2**
N75/N55	x: 0 m $(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	x: 0 m η = 26.0	$M_{Sd} = 0.00$ N.A.(2)	x: 0.313 m η = 85.8	x: 0.313 m η = 10.0	η = 0.1	N.A.(3)	x: 0.313 m η = 74.5	x: 0.313 m η = 98.8	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 98.8**
N48/N1465	$(b_w/t) \leq 200$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	x: 0 m η = 40.4	x: 0 m η = 7.6	x: 0.44 m η = 41.8	x: 0.44 m η = 2.0	η = 1.4	x: 0 m η = 0.6	x: 0.44 m η = 17.5	x: 0.44 m η = 84.4	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 84.4**
N1465/N1660	x: 0.33 m $(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	x: 0 m η = 24.0	x: 0 m η = 4.9	x: 0.66 m η = 20.7	x: 0 m η = 2.4	η = 1.3	x: 0 m η = 0.3	x: 0.66 m η = 4.4	x: 0 m η = 46.1	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 46.1**
N1660/N1467	x: 0.11 m $(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	x: 0 m η = 23.0	x: 0.22 m η = 0.6	x: 0.22 m η = 30.0	x: 0.22 m η = 9.0	η = 0.2	x: 0.22 m η < 0.1	x: 0.22 m η = 9.8	x: 0.22 m η = 53.3	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 53.3**
N51/N39	x: 0 m $(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	x: 0 m η = 20.5	x: 0.414 m η = 3.7	x: 0.414 m η = 9.7	x: 0.414 m η = 0.5	η = 1.5	x: 0.414 m η = 0.2	x: 0.414 m η = 0.9	x: 0.414 m η = 32.2	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 32.2**
N11/N1426	$(b_w/t) \leq 200$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	x: 0 m η = 34.7	x: 0 m η = 0.7	x: 0.44 m η = 29.9	x: 0.44 m η = 1.0	η = 0.1	x: 0 m η < 0.1	x: 0.44 m η = 8.9	x: 0.44 m η = 64.9	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 64.9**
N1442/N2	x: 0 m $(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	x: 0 m η = 10.3	x: 0.414 m η = 0.7	x: 0.414 m η = 12.6	x: 0.414 m η = 0.5	η = 0.5	x: 0.414 m η < 0.1	x: 0.414 m η = 1.6	x: 0.414 m η = 23.0	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 23.0**
N13/N1406	$(b_w/t) \leq 200$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	x: 0 m η = 30.7	x: 0 m η = 0.6	x: 0.44 m η = 25.9	x: 0.44 m η = 0.8	η = 0.1	x: 0 m η < 0.1	x: 0.44 m η = 6.7	x: 0.44 m η = 56.8	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 56.8**
N12/N1	x: 0 m $(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	x: 0 m η = 20.2	x: 0.414 m η = 0.5	x: 0.414 m η = 10.7	x: 0.414 m η = 0.3	η = 0.4	x: 0.414 m η < 0.1	x: 0.414 m η = 1.2	x: 0.414 m η = 31.5	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 31.5**
N33/N15	x: 0 m $(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	x: 0 m η = 25.6	x: 0.313 m η = 1.8	x: 0.313 m η = 85.2	x: 0.313 m η = 10.6	η = 0.7	x: 0.313 m η < 0.1	x: 0.313 m η = 73.7	x: 0.313 m η = 92.5	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 92.5**
N50/N1446	$(b_w/t) \leq 200$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	x: 0 m η = 32.4	x: 0 m η = 7.7	x: 0.44 m η = 32.3	x: 0.44 m η = 1.5	η = 1.4	x: 0 m η = 0.6	x: 0.44 m η = 10.4	x: 0.44 m η = 68.7	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 68.7**
N1446/N1642	x: 0 m $(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	x: 0 m η = 19.6	x: 0 m η = 4.9	x: 0.66 m η = 16.3	x: 0 m η = 1.9	η = 1.4	x: 0 m η = 0.3	x: 0.66 m η = 2.7	x: 0 m η = 39.4	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 39.4**

Barras	VERIFICAÇÕES (ABNT NBR 14762:2010)													Estado
	b/t	λ	N_t	N_c	M_x	M_y	V_x	V_y	M_xV_y	M_yV_x	$N_cM_xM_y$	$N_tM_xM_y$	M_t	
N1642/N1448	x: 0.11 m (b_w/t) ≤ 90 Passa	λ_{xx} ≤ 200.0 λ_{yy} ≤ 200.0 Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	x: 0 m η = 18.8	x: 0.22 m η = 0.6	x: 0.22 m η = 23.7	x: 0.22 m η = 7.1	η = 0.2	x: 0.22 m η < 0.1	x: 0.22 m η = 6.1	x: 0.22 m η = 43.2	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 43.2**
N49/N38	x: 0 m (b_w/t) ≤ 90 Passa	λ_{xx} ≤ 200.0 λ_{yy} ≤ 200.0 Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	x: 0 m η = 20.9	x: 0.414 m η = 3.7	x: 0.414 m η = 8.8	x: 0.414 m η = 0.4	η = 1.5	x: 0.414 m η = 0.2	x: 0.414 m η = 0.8	x: 0.414 m η = 32.2	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 32.2**
N71/N53	x: 0 m (b_w/t) ≤ 90 Passa	λ_{xx} ≤ 200.0 λ_{yy} ≤ 200.0 Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	x: 0 m η = 18.7	M_{Sd} = 0.00 N.A.(2)	x: 0.313 m η = 62.4	x: 0.313 m η = 7.3	η = 0.1	N.A.(3)	x: 0.313 m η = 39.5	x: 0.313 m η = 81.2	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 81.2**
N88/N1484	(b_w/t) ≤ 200 Passa	λ_{xx} ≤ 200.0 λ_{yy} ≤ 200.0 Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	x: 0 m η = 32.1	x: 0 m η = 4.9	x: 0.44 m η = 31.4	x: 0.44 m η = 1.5	η = 0.9	x: 0 m η = 0.2	x: 0.44 m η = 9.9	x: 0.44 m η = 66.0	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 66.0**
N1484/N1643	x: 0.165 m (b_w/t) ≤ 90 Passa	λ_{xx} ≤ 200.0 λ_{yy} ≤ 200.0 Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	x: 0 m η = 19.7	x: 0 m η = 3.1	x: 0.66 m η = 15.8	x: 0 m η = 1.8	η = 0.9	x: 0 m η = 0.1	x: 0.66 m η = 2.5	x: 0 m η = 37.2	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 37.2**
N1643/N1486	x: 0.11 m (b_w/t) ≤ 90 Passa	λ_{xx} ≤ 200.0 λ_{yy} ≤ 200.0 Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	x: 0 m η = 18.9	M_{Sd} = 0.00 N.A.(2)	x: 0.22 m η = 23.3	x: 0.22 m η = 6.9	η = 0.2	N.A.(3)	x: 0.22 m η = 5.9	x: 0.22 m η = 42.6	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 42.6**
N87/N76	x: 0 m (b_w/t) ≤ 90 Passa	λ_{xx} ≤ 200.0 λ_{yy} ≤ 200.0 Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	x: 0 m η = 21.6	x: 0.414 m η = 2.6	x: 0.414 m η = 9.4	x: 0.414 m η = 0.5	η = 1.0	x: 0.414 m η = 0.1	x: 0.414 m η = 0.9	x: 0.414 m η = 32.8	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 32.8**
N109/N91	x: 0 m (b_w/t) ≤ 90 Passa	λ_{xx} ≤ 200.0 λ_{yy} ≤ 200.0 Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	x: 0 m η = 22.0	x: 0.313 m η = 3.3	x: 0.313 m η = 73.4	x: 0.313 m η = 9.2	η = 1.6	x: 0.313 m η = 0.1	x: 0.313 m η = 54.7	x: 0.313 m η = 95.9	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 95.9**
N126/N1522	(b_w/t) ≤ 90 Passa	λ_{xx} ≤ 200.0 λ_{yy} ≤ 200.0 Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	x: 0 m η = 27.3	M_{Sd} = 0.00 N.A.(2)	x: 0.44 m η = 22.6	x: 0.44 m η = 0.7	η = 0.1	N.A.(3)	x: 0.44 m η = 5.1	x: 0.44 m η = 49.9	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 49.9**
N125/N114	(b_w/t) ≤ 90 Passa	λ_{xx} ≤ 200.0 λ_{yy} ≤ 200.0 Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	x: 0 m η = 20.6	M_{Sd} = 0.00 N.A.(2)	x: 0.414 m η = 10.9	x: 0.414 m η = 0.4	η = 0.1	N.A.(3)	x: 0.414 m η = 1.2	x: 0.414 m η = 31.3	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 31.3**
N147/N129	x: 0 m (b_w/t) ≤ 90 Passa	λ_{xx} ≤ 200.0 λ_{yy} ≤ 200.0 Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	x: 0 m η = 20.1	M_{Sd} = 0.00 N.A.(2)	x: 0.313 m η = 67.2	x: 0.313 m η = 7.9	η = 0.1	N.A.(3)	x: 0.313 m η = 45.8	x: 0.313 m η = 87.3	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 87.3**
N113/N93	x: 0 m (b_w/t) ≤ 90 Passa	λ_{xx} ≤ 200.0 λ_{yy} ≤ 200.0 Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	x: 0 m η = 31.7	x: 0.313 m η = 3.2	x: 0.313 m η = 93.7	x: 0.313 m η = 13.0	η = 1.6	x: 0.313 m η = 0.1	x: 0.313 m η = 99.1	x: 0.313 m η = 99.9	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 99.9**
N124/N1541	(b_w/t) ≤ 90 Passa	λ_{xx} ≤ 200.0 λ_{yy} ≤ 200.0 Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	x: 0 m η = 38.0	M_{Sd} = 0.00 N.A.(2)	x: 0.44 m η = 32.4	x: 0.44 m η = 1.0	η = 0.1	N.A.(3)	x: 0.44 m η = 10.5	x: 0.44 m η = 70.6	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 70.6**
N127/N115	(b_w/t) ≤ 90 Passa	λ_{xx} ≤ 200.0 λ_{yy} ≤ 200.0 Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	x: 0 m η = 19.6	M_{Sd} = 0.00 N.A.(2)	x: 0.414 m η = 14.3	x: 0.414 m η = 0.6	η = 0.1	N.A.(3)	x: 0.414 m η = 2.0	x: 0.414 m η = 34.0	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 34.0**
N86/N1503	(b_w/t) ≤ 200 Passa	λ_{xx} ≤ 200.0 λ_{yy} ≤ 200.0 Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	x: 0 m η = 42.3	x: 0 m η = 5.8	x: 0.44 m η = 43.4	x: 0.44 m η = 2.1	η = 1.1	x: 0 m η = 0.3	x: 0.44 m η = 18.8	x: 0.44 m η = 88.7	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 88.7**
N1503/N1664	x: 0.495 m (b_w/t) ≤ 90 Passa	λ_{xx} ≤ 200.0 λ_{yy} ≤ 200.0 Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	x: 0 m η = 25.4	x: 0 m η = 3.7	x: 0.66 m η = 21.3	x: 0 m η = 2.5	η = 1.0	x: 0 m η = 0.1	x: 0.66 m η = 4.6	x: 0 m η = 49.4	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 49.4**
N1664/N1505	x: 0.11 m (b_w/t) ≤ 90 Passa	λ_{xx} ≤ 200.0 λ_{yy} ≤ 200.0 Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	x: 0 m η = 24.3	x: 0.22 m η = 0.5	x: 0.22 m η = 31.4	x: 0.22 m η = 9.4	η = 0.2	x: 0.22 m η < 0.1	x: 0.22 m η = 10.7	x: 0.22 m η = 56.2	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 56.2**
N89/N77	x: 0 m (b_w/t) ≤ 90 Passa	λ_{xx} ≤ 200.0 λ_{yy} ≤ 200.0 Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	x: 0 m η = 20.6	x: 0.414 m η = 3.0	x: 0.414 m η = 12.0	x: 0.414 m η = 0.7	η = 1.2	x: 0.414 m η = 0.1	x: 0.414 m η = 1.4	x: 0.414 m η = 35.5	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 35.5**
N151/N131	x: 0 m (b_w/t) ≤ 90 Passa	λ_{xx} ≤ 200.0 λ_{yy} ≤ 200.0 Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	x: 0 m η = 28.7	M_{Sd} = 0.00 N.A.(2)	x: 0.313 m η = 98.4	x: 0.313 m η = 11.2	η = 0.2	N.A.(3)	x: 0.313 m η = 98.2	x: 0.313 m η = 97.4	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 97.4**
N164/N1560	x: 0 m (b_w/t) ≤ 90 Passa	λ_{xx} ≤ 200.0 λ_{yy} ≤ 200.0 Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	x: 0 m η = 28.1	M_{Sd} = 0.00 N.A.(2)	x: 0.44 m η = 23.3	x: 0.44 m η = 0.7	η < 0.1	N.A.(3)	x: 0.44 m η = 5.4	x: 0.44 m η = 51.4	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 51.4**
N163/N152	(b_w/t) ≤ 90 Passa	λ_{xx} ≤ 200.0 λ_{yy} ≤ 200.0 Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	x: 0 m η = 21.2	M_{Sd} = 0.00 N.A.(2)	x: 0.414 m η = 10.1	x: 0.414 m η = 0.3	η = 0.1	N.A.(3)	x: 0.414 m η = 1.0	x: 0.414 m η = 31.2	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 31.2**
N162/N1579	x: 0 m (b_w/t) ≤ 90 Passa	λ_{xx} ≤ 200.0 λ_{yy} ≤ 200.0 Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	x: 0 m η = 39.1	M_{Sd} = 0.00 N.A.(2)	x: 0.44 m η = 33.3	x: 0.44 m η = 1.1	η = 0.1	N.A.(3)	x: 0.44 m η = 11.1	x: 0.44 m η = 72.7	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 72.7**
N165/N153	(b_w/t) ≤ 90 Passa	λ_{xx} ≤ 200.0 λ_{yy} ≤ 200.0 Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	x: 0 m η = 20.3	M_{Sd} = 0.00 N.A.(2)	x: 0.414 m η = 11.8	x: 0.414 m η = 0.4	η = 0.1	N.A.(3)	x: 0.414 m η = 1.4	x: 0.414 m η = 32.3	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 32.3**
N185/N167	x: 0 m (b_w/t) ≤ 90 Passa	λ_{xx} ≤ 200.0 λ_{yy} ≤ 200.0 Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	x: 0 m η = 20.5	M_{Sd} = 0.00 N.A.(2)	x: 0.313 m η = 69.4	x: 0.313 m η = 8.1	η = 0.2	N.A.(3)	x: 0.313 m η = 48.9	x: 0.313 m η = 90.1	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 90.1**
N189/N169	x: 0 m (b_w/t) ≤ 90 Passa	λ_{xx} ≤ 200.0 λ_{yy} ≤ 200.0 Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	x: 0 m η = 29.6	x: 0.313 m η = 0.5	x: 0.313 m η = 98.1	x: 0.313 m η = 11.4	η = 0.3	x: 0.312 m η < 0.1	x: 0.313 m η = 97.6	x: 0.313 m η = 98.2	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 98.2**
N202/N1598	(b_w/t) ≤ 90 Passa	λ_{xx} ≤ 200.0 λ_{yy} ≤ 200.0 Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	x: 0 m η = 26.3	x: 0 m η = 2.0	x: 0.44 m η = 22.1	x: 0.44 m η = 0.7	η = 0.3	x: 0 m η < 0.1	x: 0.44 m η = 4.9	x: 0.44 m η = 49.3	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 49.3**
N201/N190	(b_w/t) ≤ 90 Passa	λ_{xx} ≤ 200.0 λ_{yy} ≤ 200.0 Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	x: 0 m η = 20.3	x: 0.414 m η = 1.7	x: 0.414 m η = 9.9	x: 0.414 m η = 0.3	η = 0.8	x: 0.414 m η < 0.1	x: 0.414 m η = 1.0	x: 0.414 m η = 31.6	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 31.6**
N200/N1617	(b_w/t) ≤ 90 Passa	λ_{xx} ≤ 200.0 λ_{yy} ≤ 200.0 Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	x: 0 m η = 36.7	x: 0 m η = 2.9	x: 0.44 m η = 31.6	x: 0.44 m η = 1.0	η = 0.5	x: 0 m η = 0.1	x: 0.44 m η = 10.0	x: 0.44 m η = 69.8	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 69.8**
N203/N191	(b_w/t) ≤ 90 Passa	λ_{xx} ≤ 200.0 λ_{yy} ≤ 200.0 Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	x: 0 m η = 20.2	x: 0.414 m η = 2.5	x: 0.414 m η = 11.9	x: 0.414 m η = 0.4	η = 1.1	x: 0.414 m η = 0.1	x: 0.414 m η = 1.4	x: 0.414 m η = 34.6	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 34.6**
N37/N17	x: 0 m (b_w/t) ≤ 90 Passa	λ_{xx} ≤ 200.0 λ_{yy} ≤ 200.0 Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	x: 0 m η = 29.4	x: 0.313 m η = 1.9	x: 0.313 m η = 95.7	x: 0.313 m η = 12.7	η = 0.8	x: 0.313 m η < 0.1	x: 0.313 m η = 93.3	x: 0.313 m η = 97.0	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 97.0**
N1406/N1408	(b_w/t) ≤ 90 Passa	λ_{xx} ≤ 200.0 λ_{yy} ≤ 200.0 Passa	$N_{t,Sd}$ = 0.00 N.A.(7)	x: 0 m η = 37.5	M_{Sd} = 0.00 N.A.(2)	x: 0.623 m η = 37.0	x: 0.623 m η = 1.5	η = 0.1	N.A.(3)	x: 0.623 m η = 13.7	x: 0.623 m η = 75.3	N.A.(6)	$M_{t,Sd}$ = 0.00 N.A.(5)	**PASSA** **η = 75.3**

Barras	VERIFICAÇÕES (ABNT NBR 14762:2010)													Estado
	b/t	λ	N_t	N_c	M_x	M_y	V_x	V_y	M_xV_y	M_yV_x	$N_cM_xM_y$	$N_tM_xM_y$	M_t	
N12/N1418	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	x: 0 m η = 17.0	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0.565 m η = 1.0	η = 0.2	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 17.0**
N12/N6	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	x: 0 m η = 3.1	x: 0.4 m η = 6.7	$M_{Sd} = 0.00$ N.A.(2)	η = 1.2	η = 1.3	x: 0.4 m η = 0.5	N.A.(3)	x: 0.4 m η = 20.9	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 20.9**
N1422/N5	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	x: 0.573 m η = 4.5	$N_{c,Sd} = 0.00$ N.A.(1)	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m η = 0.3	η = 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 4.5**
N1/N5	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	x: 0 m η = 18.8	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	η = 0.2	η = 0.2	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 18.8**
N1426/N1427	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	x: 0 m η = 43.5	$M_{Sd} = 0.00$ N.A.(2)	x: 0.623 m η = 42.1	x: 0.623 m η = 1.7	η = 0.1	N.A.(3)	x: 0.623 m η = 17.8	x: 0.623 m η = 86.4	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 86.4**
N1442/N1441	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	x: 0 m η = 18.9	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0.565 m η = 1.2	η = 0.3	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 18.9**
N1442/N9	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 200.0$ $\lambda_{yy} \leq 200.0$ Passa	$N_{t,Sd} = 0.00$ N.A.(7)	x: 0 m η = 3.6	x: 0.4 m η = 8.1	$M_{Sd} = 0.00$ N.A.(2)	η = 1.3	η = 1.6	x: 0.4 m η = 0.7	N.A.(3)	x: 0.4 m η = 24.3	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 24.3**
N1443/N8	$(b_w/t) \leq 90$ Passa	$\lambda_{xx} \leq 300.0$ $\lambda_{yy} \leq 300.0$ Passa	x: 0.573 m η = 4.7	$N_{c,Sd} = 0.00$ N.A.(1)	$M_{Sd} = 0.00$ N.A.(2)	$M_{Sd} = 0.00$ N.A.(2)	x: 0 m η = 0.4	η = 0.1	N.A.(3)	N.A.(3)	N.A.(4)	N.A.(6)	$M_{t,Sd} = 0.00$ N.A.(5)	**PASSA η = 4.7**

Notação:
- *b/t: Valores máximos da relação comprimento-espessura*
- *λ: Limitação 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*
- *M_xV_y: Resistência ao momento fletor X e esforço cortante Y combinados*
- *M_yV_x: Resistência ao momento fletor Y e esforço cortante X combinados*
- *$N_cM_xM_y$: Resistência à flexo-compressão*
- *$N_tM_xM_y$: Resistência à flexo-tração*
- *M_t: Resistência à torção*
- *x: Distância à origem da barra*
- *η: Coeficiente de aproveitamento (%)*
- *N.A.: Não aplicável*

Verificações desnecessárias para o tipo de perfil (N.A.):
- *(1) A verificação não será executada, já que não existe esforço axial de compressão.*
- *(2) A verificação não será executada, já que não existe momento fletor.*
- *(3) Não há interação entre o momento fletor e o esforço cortante para nenhuma combinação. Assim a verificação não será executada.*
- *(4) Não há interação entre o esforço axial de compressão e o momento fletor para nenhuma combinação. Assim a verificação não será executada.*
- *(5) A verificação não é necessária, já que não existe momento torsor.*
- *(6) Não há interação entre o esforço axial de tração e o momento fletor para nenhuma combinação. Assim a verificação não será executada.*
- *(7) A verificação não será executada, já que não existe esforço axial de tração.*
- *(8) A verificação não será executada, já que não existe esforço cortante.*

Barras	VERIFICAÇÕES (ABNT NBR 8800:2008)											Estado
	λ	N_t	N_c	M_u	M_v	V_u	V_v	NM_uM_v	T	NMVT	σ τ f	
N798/N918	λ ≤ 200.0 Passa	N.A.(1)	x: 0 m η = 0.6	x: 1.1 m η = 0.9	x: 0.55 m η = 0.8	x: 1.1 m η < 0.1	x: 0 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 1.1 m η = 11.9	**PASSA η = 11.9**
N918/N799	λ ≤ 200.0 Passa	N.A.(1)	x: 0 m η = 0.9	x: 1.1 m η = 2.3	x: 0.183 m η = 1.4	x: 1.1 m η < 0.1	x: 0 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.917 m η = 24.6	**PASSA η = 24.6**
N799/N937	λ ≤ 200.0 Passa	N.A.(1)	x: 0 m η = 0.9	x: 1.1 m η = 2.4	x: 1.1 m η = 2.0	x: 1.1 m η = 0.1	x: 1.1 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 1.1 m η = 39.3	**PASSA η = 39.3**
N937/N800	λ ≤ 200.0 Passa	N.A.(1)	x: 0 m η = 0.9	x: 1.1 m η = 3.1	x: 0 m η = 1.7	x: 0 m η = 0.1	x: 0 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 1.1 m η = 38.6	**PASSA η = 38.6**
N800/N956	λ ≤ 200.0 Passa	N.A.(1)	x: 0 m η = 0.7	x: 0 m η = 3.2	x: 1.1 m η = 1.2	x: 1.1 m η = 0.1	x: 1.1 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0 m η = 38.2	**PASSA η = 38.2**
N956/N801	λ ≤ 200.0 Passa	N.A.(1)	x: 0 m η = 0.5	x: 0 m η = 1.9	x: 0 m η = 2.0	x: 0 m η = 0.1	x: 0 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0 m η = 34.6	**PASSA η = 34.6**
N801/N975	λ ≤ 200.0 Passa	x: 1.059 m η < 0.1	x: 0 m η = 0.1	x: 0 m η = 1.6	x: 0.706 m η = 1.1	x: 0 m η < 0.1	x: 1.059 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0 m η = 16.2	**PASSA η = 16.2**
N975/N802	N.A.(5)	x: 0.882 m η = 0.1	N.A.(6)	x: 0 m η = 0.5	x: 0 m η = 1.2	x: 0 m η < 0.1	x: 1.059 m η < 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0 m η = 2.3	**PASSA η = 2.3**
N1080/N803	N.A.(5)	x: 0.882 m η = 0.1	N.A.(6)	x: 1.059 m η = 0.5	x: 1.059 m η = 0.9	x: 1.059 m η < 0.1	x: 0 m η < 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 1.059 m η = 1.9	**PASSA η = 1.9**
N804/N1080	λ ≤ 200.0 Passa	x: 1.059 m η < 0.1	x: 0 m η = 0.2	x: 0.176 m η = 1.3	x: 0 m η = 1.6	x: 1.059 m η < 0.1	x: 1.059 m η < 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.176 m η = 22.5	**PASSA η = 22.5**
N1078/N804	λ ≤ 200.0 Passa	N.A.(1)	x: 0 m η = 0.6	x: 0 m η = 2.6	x: 0 m η = 1.1	x: 0 m η < 0.1	x: 0 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0 m η = 32.7	**PASSA η = 32.7**
N805/N1078	λ ≤ 200.0 Passa	N.A.(1)	x: 0 m η = 0.8	x: 0 m η = 3.5	x: 1.1 m η = 2.0	x: 1.1 m η = 0.1	x: 1.1 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0 m η = 45.9	**PASSA η = 45.9**
N1076/N805	λ ≤ 200.0 Passa	N.A.(1)	x: 0 m η = 1.0	x: 1.1 m η = 3.6	x: 0 m η = 2.1	x: 0 m η = 0.1	x: 0 m η = 0.2	N.A.(2)	N.A.(3)	N.A.(4)	x: 1.1 m η = 45.3	**PASSA η = 45.3**
N806/N1076	λ ≤ 200.0 Passa	N.A.(1)	x: 0 m η = 0.9	x: 1.1 m η = 3.1	x: 1.1 m η = 1.5	x: 1.1 m η < 0.1	x: 1.1 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 1.1 m η = 40.4	**PASSA η = 40.4**
N1074/N806	λ ≤ 200.0 Passa	N.A.(1)	x: 0 m η = 0.9	x: 0.917 m η = 2.1	x: 0.917 m η = 1.7	x: 0 m η = 0.1	x: 0 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.917 m η = 31.6	**PASSA η = 31.6**

Barras	VERIFICAÇÕES (ABNT NBR 8800:2008)											Estado
	λ	N_t	N_c	M_u	M_v	V_u	V_v	NM_uM_v	T	NMVT	σ τ f	
N807/N1074	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 0.6	x: 0.917 m η = 0.5	x: 0.917 m η = 1.1	x: 0 m η < 0.1	x: 1.1 m η < 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.917 m η = 13.8	**PASSA η = 13.8**
N808/N920	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 0.5	x: 1.1 m η = 0.3	x: 1.1 m η = 0.6	x: 0 m η < 0.1	x: 1.1 m η < 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 1.1 m η = 6.9	**PASSA η = 6.9**
N920/N809	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 0.9	x: 1.1 m η = 0.7	x: 1.1 m η = 1.4	x: 1.1 m η < 0.1	x: 1.1 m η < 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 1.1 m η = 19.3	**PASSA η = 19.3**
N809/N939	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 1.3	x: 1.1 m η = 2.6	x: 0.55 m η = 1.2	x: 0 m η < 0.1	x: 0 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 1.1 m η = 26.4	**PASSA η = 26.4**
N939/N810	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 1.5	x: 0 m η = 2.2	x: 0.183 m η = 1.5	x: 1.1 m η = 0.1	x: 1.1 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.183 m η = 28.3	**PASSA η = 28.3**
N810/N958	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 1.4	x: 1.1 m η = 1.5	x: 0.733 m η = 1.2	x: 0 m η < 0.1	x: 0 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.733 m η = 17.0	**PASSA η = 17.0**
N958/N811	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 0.9	x: 1.1 m η = 1.2	x: 1.1 m η = 2.5	x: 1.1 m η = 0.1	x: 1.1 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 1.1 m η = 34.2	**PASSA η = 34.2**
N811/N978	$\lambda \leq 200.0$ Passa	x: 1.059 m η < 0.1	x: 0 m η = 0.4	x: 0 m η = 2.3	x: 1.059 m η = 1.0	x: 1.059 m η < 0.1	x: 0 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0 m η = 22.3	**PASSA η = 22.3**
N978/N812	$\lambda \leq 200.0$ Passa	x: 1.059 m η < 0.1	x: 0 m η = 0.1	x: 0.882 m η = 0.4	x: 0.353 m η = 0.9	x: 1.059 m η < 0.1	x: 0 m η < 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.353 m η = 11.3	**PASSA η = 11.3**
N1073/N813	$\lambda \leq 200.0$ Passa	x: 1.059 m η < 0.1	x: 0 m η = 0.1	x: 0 m η = 1.1	x: 0 m η = 1.0	x: 0 m η < 0.1	x: 1.059 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0 m η = 16.0	**PASSA η = 16.0**
N1071/N814	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 1.0	x: 1.1 m η = 2.2	x: 0.367 m η = 0.9	x: 1.1 m η < 0.1	x: 1.1 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 1.1 m η = 26.5	**PASSA η = 26.5**
N814/N1073	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 0.5	x: 0 m η = 1.3	x: 0 m η = 2.6	x: 0 m η = 0.1	x: 0 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0 m η = 32.8	**PASSA η = 32.8**
N815/N1071	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 1.5	x: 1.1 m η = 1.2	x: 0.917 m η = 1.3	x: 0 m η < 0.1	x: 0 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.917 m η = 20.0	**PASSA η = 20.0**
N1070/N815	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 1.7	x: 0 m η = 2.7	x: 0.367 m η = 1.3	x: 1.1 m η < 0.1	x: 1.1 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0 m η = 29.0	**PASSA η = 29.0**
N816/N1070	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 1.5	x: 1.1 m η = 2.5	x: 0.917 m η = 1.6	x: 0 m η = 0.1	x: 0 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 1.1 m η = 33.2	**PASSA η = 33.2**
N1069/N816	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 0.9	x: 1.1 m η = 1.1	x: 1.1 m η = 0.7	x: 1.1 m η < 0.1	x: 1.1 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 1.1 m η = 15.7	**PASSA η = 15.7**
N817/N1069	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 0.4	x: 1.1 m η = 0.6	x: 0.917 m η = 0.9	x: 0 m η < 0.1	x: 0 m η < 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.917 m η = 11.7	**PASSA η = 11.7**
N818/N922	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 0.5	x: 1.1 m η = 1.7	x: 1.1 m η = 1.6	x: 1.1 m η < 0.1	x: 1.1 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 1.1 m η = 29.1	**PASSA η = 29.1**
N922/N819	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 0.9	x: 1.1 m η = 2.1	x: 0 m η = 1.6	x: 0 m η = 0.1	x: 0 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0 m η = 31.7	**PASSA η = 31.7**
N819/N941	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 1.1	x: 0 m η = 2.4	x: 0.733 m η = 1.5	x: 0 m η < 0.1	x: 1.1 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.55 m η = 29.2	**PASSA η = 29.2**
N941/N820	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 1.1	x: 0 m η = 1.4	x: 0.55 m η = 1.4	x: 0 m η < 0.1	x: 1.1 m η < 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.55 m η = 20.2	**PASSA η = 20.2**
N820/N960	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 0.9	x: 1.1 m η = 3.6	x: 0.733 m η = 2.1	x: 0 m η = 0.1	x: 0 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 1.1 m η = 46.5	**PASSA η = 46.5**
N960/N821	$\lambda \leq 200.0$ Passa	x: 1.1 m η < 0.1	x: 0 m η = 0.3	x: 1.1 m η = 5.5	x: 1.1 m η = 2.9	x: 1.1 m η = 0.1	x: 1.1 m η = 0.2	N.A.(2)	N.A.(3)	N.A.(4)	x: 1.1 m η = 72.0	**PASSA η = 72.0**
N821/N980	$\lambda \leq 200.0$ Passa	x: 1.059 m η < 0.1	x: 0 m η = 0.1	x: 0 m η = 5.1	x: 0 m η = 3.7	x: 0 m η = 0.1	x: 0 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0 m η = 69.9	**PASSA η = 69.9**
N980/N822	$\lambda \leq 200.0$ Passa	x: 1.059 m η < 0.1	x: 0 m η = 0.1	x: 0 m η = 0.5	x: 0 m η = 1.2	x: 0 m η < 0.1	x: 0 m η < 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0 m η = 13.5	**PASSA η = 13.5**
N1068/N823	$\lambda \leq 200.0$ Passa	x: 1.059 m η < 0.1	x: 0 m η = 0.2	x: 0 m η = 0.6	x: 1.059 m η = 0.9	x: 1.059 m η < 0.1	x: 0 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 1.059 m η = 11.7	**PASSA η = 11.7**
N1066/N824	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 0.5	x: 1.1 m η = 5.1	x: 1.1 m η = 3.7	x: 1.1 m η = 0.1	x: 1.1 m η = 0.2	N.A.(2)	N.A.(3)	N.A.(4)	x: 1.1 m η = 76.7	**PASSA η = 76.7**
N824/N1068	$\lambda \leq 200.0$ Passa	x: 1.059 m η < 0.1	x: 0 m η = 0.2	x: 0 m η = 5.6	x: 0 m η = 2.7	x: 0 m η < 0.1	x: 0 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0 m η = 65.8	**PASSA η = 65.8**
N825/N1066	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 1.1	x: 1.1 m η = 3.9	x: 0.733 m η = 2.0	x: 0 m η < 0.1	x: 0 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 1.1 m η = 45.3	**PASSA η = 45.3**
N1064/N825	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 1.3	x: 0.367 m η = 1.5	x: 0.183 m η = 1.5	x: 1.1 m η < 0.1	x: 1.1 m η < 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.367 m η = 22.1	**PASSA η = 22.1**
N826/N1064	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 1.3	x: 0.367 m η = 2.1	x: 0.367 m η = 1.7	x: 1.1 m η < 0.1	x: 0 m η < 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.367 m η = 31.5	**PASSA η = 31.5**
N1062/N826	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 1.0	x: 1.1 m η = 2.3	x: 0 m η = 1.9	x: 0 m η = 0.1	x: 0 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0 m η = 34.1	**PASSA η = 34.1**

Barras	VERIFICAÇÕES (ABNT NBR 8800:2008)											Estado
	λ	N_t	N_c	M_u	M_v	V_u	V_v	NM_uM_v	T	NMVT	σ τ f	
N827/N1062	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 0.4	x: 1.1 m η = 1.9	x: 1.1 m η = 1.6	x: 1.1 m η < 0.1	x: 1.1 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 1.1 m η = 29.8	**PASSA η = 29.8**
N828/N923	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 0.6	x: 1.1 m η = 1.4	x: 1.1 m η = 1.2	x: 1.1 m η < 0.1	x: 1.1 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 1.1 m η = 23.6	**PASSA η = 23.6**
N923/N829	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 1.2	x: 1.1 m η = 1.6	x: 0 m η = 1.8	x: 0 m η = 0.1	x: 0 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0 m η = 28.4	**PASSA η = 28.4**
N829/N942	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 1.3	x: 0 m η = 1.8	x: 0.55 m η = 1.1	x: 1.1 m η < 0.1	x: 1.1 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0 m η = 19.6	**PASSA η = 19.6**
N942/N830	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 1.4	x: 1.1 m η = 1.8	x: 0.917 m η = 1.2	x: 0 m η < 0.1	x: 0 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 1.1 m η = 23.1	**PASSA η = 23.1**
N830/N961	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 1.0	x: 0 m η = 2.0	x: 0.183 m η = 1.0	x: 1.1 m η < 0.1	x: 1.1 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0 m η = 22.7	**PASSA η = 22.7**
N961/N831	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 0.6	x: 1.1 m η = 1.4	x: 1.1 m η = 1.2	x: 1.1 m η < 0.1	x: 1.1 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 1.1 m η = 22.8	**PASSA η = 22.8**
N831/N982	$\lambda \leq 200.0$ Passa	x: 1.059 m η < 0.1	x: 0 m η = 0.2	x: 0 m η = 1.3	x: 0 m η = 1.4	x: 0 m η < 0.1	x: 0 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0 m η = 21.8	**PASSA η = 21.8**
N982/N832	N.A.(5)	x: 1.059 m η < 0.1	N.A.(6)	x: 0.353 m η = 0.5	x: 0.353 m η = 1.0	x: 1.059 m η < 0.1	x: 0 m η < 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.353 m η = 2.3	**PASSA η = 2.3**
N1060/N833	$\lambda \leq 200.0$ Passa	x: 1.059 m η < 0.1	x: 0 m η < 0.1	x: 0 m η = 1.1	x: 0.529 m η = 1.5	x: 0 m η = 0.1	x: 1.059 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.529 m η = 13.9	**PASSA η = 13.9**
N1058/N834	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 0.8	x: 1.1 m η = 1.5	x: 1.1 m η = 2.3	x: 1.1 m η = 0.1	x: 1.1 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 1.1 m η = 34.9	**PASSA η = 34.9**
N834/N1060	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 0.3	x: 0 m η = 1.8	x: 0 m η = 1.6	x: 0 m η = 0.1	x: 0 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0 m η = 28.2	**PASSA η = 28.2**
N835/N1058	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 1.3	x: 0 m η = 2.3	x: 0.367 m η = 1.5	x: 1.1 m η = 0.1	x: 1.1 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.183 m η = 29.9	**PASSA η = 29.9**
N1057/N835	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 1.7	x: 1.1 m η = 2.6	x: 0.55 m η = 1.4	x: 0 m η = 0.1	x: 0 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 1.1 m η = 27.3	**PASSA η = 27.3**
N836/N1057	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 1.6	x: 0 m η = 2.3	x: 0.367 m η = 1.5	x: 1.1 m η = 0.1	x: 1.1 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0 m η = 29.2	**PASSA η = 29.2**
N1056/N836	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 1.4	x: 1.1 m η = 2.7	x: 0 m η = 1.6	x: 0 m η = 0.1	x: 0 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0 m η = 34.2	**PASSA η = 34.2**
N837/N1056	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 0.6	x: 1.1 m η = 1.8	x: 1.1 m η = 2.3	x: 1.1 m η = 0.1	x: 1.1 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 1.1 m η = 37.3	**PASSA η = 37.3**
N838/N925	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 0.6	x: 1.1 m η = 1.2	x: 1.1 m η = 1.9	x: 1.1 m η < 0.1	x: 1.1 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 1.1 m η = 28.1	**PASSA η = 28.1**
N925/N839	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 1.2	x: 1.1 m η = 1.9	x: 0 m η = 1.2	x: 0 m η < 0.1	x: 0 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0 m η = 25.1	**PASSA η = 25.1**
N839/N944	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 1.3	x: 0 m η = 1.6	x: 0.55 m η = 1.0	x: 1.1 m η < 0.1	x: 1.1 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0 m η = 20.7	**PASSA η = 20.7**
N944/N840	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 1.4	x: 1.1 m η = 2.0	x: 0.55 m η = 1.1	x: 0 m η < 0.1	x: 0 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 1.1 m η = 21.3	**PASSA η = 21.3**
N840/N963	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 1.0	x: 0 m η = 1.8	x: 0.367 m η = 1.1	x: 1.1 m η < 0.1	x: 1.1 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0 m η = 22.4	**PASSA η = 22.4**
N963/N841	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 0.6	x: 1.1 m η = 0.8	x: 1.1 m η = 1.7	x: 1.1 m η < 0.1	x: 1.1 m η < 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 1.1 m η = 23.2	**PASSA η = 23.2**
N841/N984	$\lambda \leq 200.0$ Passa	x: 1.059 m η < 0.1	x: 0 m η = 0.2	x: 0 m η = 1.0	x: 0 m η = 1.4	x: 0 m η < 0.1	x: 0 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0 m η = 19.5	**PASSA η = 19.5**
N984/N842	N.A.(5)	x: 1.059 m η < 0.1	N.A.(6)	x: 0 m η = 1.2	x: 0.529 m η = 0.9	x: 0 m η < 0.1	x: 1.059 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.353 m η = 2.2	**PASSA η = 2.2**
N1055/N843	$\lambda \leq 200.0$ Passa	x: 1.059 m η < 0.1	x: 0 m η = 0.1	x: 0.353 m η = 0.8	x: 0.353 m η = 1.6	x: 1.059 m η = 0.1	x: 1.059 m η < 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.353 m η = 16.0	**PASSA η = 16.0**
N1053/N844	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 0.9	x: 1.1 m η = 1.5	x: 1.1 m η = 1.3	x: 1.1 m η = 0.1	x: 1.1 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 1.1 m η = 24.9	**PASSA η = 24.9**
N844/N1055	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 0.4	x: 0 m η = 1.2	x: 0 m η = 1.9	x: 0 m η = 0.1	x: 0 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0 m η = 25.9	**PASSA η = 25.9**
N845/N1053	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 1.4	x: 0 m η = 2.8	x: 0.367 m η = 1.3	x: 1.1 m η = 0.1	x: 1.1 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0 m η = 30.5	**PASSA η = 30.5**
N1051/N845	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 1.8	x: 1.1 m η = 2.5	x: 0.917 m η = 1.5	x: 0 m η = 0.1	x: 0 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 1.1 m η = 31.7	**PASSA η = 31.7**
N846/N1051	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 1.6	x: 0 m η = 2.6	x: 0.55 m η = 1.4	x: 1.1 m η = 0.1	x: 1.1 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0 m η = 26.9	**PASSA η = 26.9**
N1049/N846	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 1.4	x: 1.1 m η = 2.3	x: 0 m η = 2.5	x: 0 m η = 0.1	x: 0 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0 m η = 39.5	**PASSA η = 39.5**

Barras	VERIFICAÇÕES (ABNT NBR 8800:2008)											Estado
	λ	N_t	N_c	M_u	M_v	V_u	V_v	NM_uM_v	T	NMVT	σ τ f	
N847/N1049	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 0.6	x: 1.1 m η = 2.2	x: 1.1 m η = 1.5	x: 1.1 m η = 0.1	x: 1.1 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 1.1 m η = 32.4	**PASSA η = 32.4**
N848/N926	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 0.5	x: 1.1 m η = 1.5	x: 1.1 m η = 1.4	x: 1.1 m η < 0.1	x: 1.1 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 1.1 m η = 25.6	**PASSA η = 25.6**
N926/N849	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 0.9	x: 1.1 m η = 2.3	x: 0 m η = 1.7	x: 0 m η = 0.1	x: 0 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0 m η = 30.2	**PASSA η = 30.2**
N849/N945	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 1.0	x: 0 m η = 1.9	x: 0.55 m η = 1.6	x: 1.1 m η < 0.1	x: 1.1 m η < 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.367 m η = 28.1	**PASSA η = 28.1**
N945/N850	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 1.0	x: 0.55 m η = 1.2	x: 0.183 m η = 1.2	x: 1.1 m η < 0.1	x: 1.1 m η < 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.183 m η = 18.2	**PASSA η = 18.2**
N850/N964	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 0.7	x: 1.1 m η = 3.3	x: 0.733 m η = 1.9	x: 0 m η < 0.1	x: 0 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.917 m η = 39.1	**PASSA η = 39.1**
N964/N851	$\lambda \leq 200.0$ Passa	x: 1.1 m η < 0.1	x: 0 m η = 0.2	x: 1.1 m η = 4.5	x: 1.1 m η = 3.4	x: 1.1 m η = 0.1	x: 1.1 m η = 0.2	N.A.(2)	N.A.(3)	N.A.(4)	x: 1.1 m η = 68.5	**PASSA η = 68.5**
N851/N986	$\lambda \leq 200.0$ Passa	x: 1.059 m η < 0.1	x: 0 m η < 0.1	x: 0 m η = 5.0	x: 0 m η = 2.4	x: 0 m η < 0.1	x: 0 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0 m η = 37.6	**PASSA η = 37.6**
N986/N852	x: 0 m $\lambda \leq 200.0$ Passa	x: 1.059 m η < 0.1	x: 0 m η < 0.1	x: 0 m η = 1.0	x: 0 m η = 0.9	x: 1.059 m η < 0.1	x: 0 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0 m η = 14.7	**PASSA η = 14.7**
N1047/N853	$\lambda \leq 200.0$ Passa	x: 1.059 m η < 0.1	x: 0 m η = 0.2	x: 0 m η = 0.8	x: 0 m η = 1.4	x: 0 m η = 0.1	x: 0 m η < 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0 m η = 16.8	**PASSA η = 16.8**
N1045/N854	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 0.4	x: 1.1 m η = 6.1	x: 1.1 m η = 3.3	x: 1.1 m η = 0.1	x: 1.1 m η = 0.2	N.A.(2)	N.A.(3)	N.A.(4)	x: 1.1 m η = 80.1	**PASSA η = 80.1**
N854/N1047	$\lambda \leq 200.0$ Passa	x: 1.059 m η < 0.1	x: 0 m η = 0.2	x: 0 m η = 5.6	x: 0 m η = 4.2	x: 0 m η = 0.1	x: 0 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0 m η = 78.6	**PASSA η = 78.6**
N855/N1045	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 1.0	x: 1.1 m η = 3.9	x: 0.733 m η = 2.4	x: 0 m η = 0.1	x: 0 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.917 m η = 50.6	**PASSA η = 50.6**
N1044/N855	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 1.3	x: 0.183 m η = 1.7	x: 0.55 m η = 1.6	x: 0 m η < 0.1	x: 1.1 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.55 m η = 24.7	**PASSA η = 24.7**
N856/N1044	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 1.2	x: 0.183 m η = 2.7	x: 0.55 m η = 1.7	x: 0 m η = 0.1	x: 1.1 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.55 m η = 34.5	**PASSA η = 34.5**
N1043/N856	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 1.0	x: 0 m η = 2.4	x: 0 m η = 2.0	x: 0 m η = 0.1	x: 0 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0 m η = 39.3	**PASSA η = 39.3**
N857/N1043	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 0.5	x: 1.1 m η = 2.1	x: 1.1 m η = 2.1	x: 1.1 m η = 0.1	x: 1.1 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 1.1 m η = 36.8	**PASSA η = 36.8**
N858/N928	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 0.5	x: 1.1 m η = 1.1	x: 0.55 m η = 1.0	x: 0 m η < 0.1	x: 0 m η < 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.733 m η = 15.9	**PASSA η = 15.9**
N928/N859	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 0.8	x: 0 m η = 1.2	x: 1.1 m η = 1.0	x: 1.1 m η < 0.1	x: 1.1 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 1.1 m η = 16.0	**PASSA η = 16.0**
N859/N947	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 1.0	x: 1.1 m η = 1.3	x: 0.917 m η = 1.4	x: 0 m η = 0.1	x: 0 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.917 m η = 20.2	**PASSA η = 20.2**
N947/N860	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 1.1	x: 0 m η = 1.6	x: 0.55 m η = 1.0	x: 1.1 m η < 0.1	x: 1.1 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.367 m η = 18.4	**PASSA η = 18.4**
N860/N966	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 0.9	x: 0.55 m η = 1.0	x: 0.733 m η = 1.2	x: 0 m η < 0.1	x: 0 m η < 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.733 m η = 18.5	**PASSA η = 18.5**
N966/N861	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 0.5	x: 1.1 m η = 2.2	x: 1.1 m η = 0.9	x: 1.1 m η < 0.1	x: 1.1 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 1.1 m η = 27.1	**PASSA η = 27.1**
N861/N988	$\lambda \leq 200.0$ Passa	x: 1.059 m η < 0.1	x: 0 m η = 0.1	x: 0 m η = 1.3	x: 0 m η = 2.7	x: 0 m η = 0.1	x: 0 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0 m η = 33.5	**PASSA η = 33.5**
N988/N862	N.A.(5)	x: 1.059 m η < 0.1	N.A.(6)	x: 0 m η = 1.3	x: 0.529 m η = 1.1	x: 0 m η < 0.1	x: 1.059 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.353 m η = 2.4	**PASSA η = 2.4**
N1042/N863	$\lambda \leq 200.0$ Passa	x: 1.059 m η < 0.1	x: 0 m η = 0.1	x: 0 m η = 0.9	x: 0.353 m η = 1.6	x: 1.059 m η = 0.1	x: 1.059 m η < 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.353 m η = 19.7	**PASSA η = 19.7**
N1040/N864	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 0.8	x: 1.1 m η = 1.9	x: 1.1 m η = 2.9	x: 1.1 m η = 0.1	x: 1.1 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 1.1 m η = 43.1	**PASSA η = 43.1**
N864/N1042	$\lambda \leq 200.0$ Passa	x: 1.059 m η < 0.1	x: 0 m η = 0.4	x: 0 m η = 3.1	x: 1.059 m η = 0.9	x: 1.059 m η < 0.1	x: 0 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0 m η = 30.0	**PASSA η = 30.0**
N865/N1040	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 1.3	x: 1.1 m η = 1.8	x: 0.55 m η = 1.4	x: 1.1 m η < 0.1	x: 0 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.733 m η = 21.4	**PASSA η = 21.4**
N1038/N865	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 1.4	x: 0 m η = 1.9	x: 0.183 m η = 1.5	x: 1.1 m η < 0.1	x: 1.1 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.183 m η = 26.9	**PASSA η = 26.9**
N866/N1038	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 1.3	x: 1.1 m η = 2.4	x: 0.55 m η = 1.5	x: 0 m η < 0.1	x: 0 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 1.1 m η = 22.7	**PASSA η = 22.7**
N1036/N866	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 0.9	x: 0 m η = 1.4	x: 0.183 m η = 1.1	x: 1.1 m η = 0.1	x: 1.1 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.183 m η = 19.2	**PASSA η = 19.2**

Barras	VERIFICAÇÕES (ABNT NBR 8800:2008)											Estado
	λ	N_t	N_c	M_u	M_v	V_u	V_v	NM_uM_v	T	NMVT	σ τ f	
N867/N1036	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 0.5	x: 1.1 m η = 1.4	x: 0.55 m η = 1.2	x: 0 m η < 0.1	x: 0 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.733 m η = 18.9	**PASSA η = 18.9**
N868/N929	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 0.7	x: 0.367 m η = 0.2	x: 0.367 m η = 0.5	x: 1.1 m η < 0.1	x: 1.1 m η < 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 1.1 m η = 7.1	**PASSA η = 7.1**
N929/N869	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 1.1	x: 0.917 m η = 1.3	x: 0.917 m η = 0.8	x: 0 m η < 0.1	x: 0 m η < 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.917 m η = 16.8	**PASSA η = 16.8**
N869/N948	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 1.2	x: 0 m η = 1.4	x: 0.55 m η = 1.1	x: 1.1 m η < 0.1	x: 1.1 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.183 m η = 14.2	**PASSA η = 14.2**
N948/N870	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 1.3	x: 1.1 m η = 2.3	x: 0.733 m η = 1.2	x: 0 m η < 0.1	x: 0 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 1.1 m η = 28.5	**PASSA η = 28.5**
N870/N967	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 0.9	x: 0 m η = 2.4	x: 0.55 m η = 1.0	x: 1.1 m η < 0.1	x: 1.1 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0 m η = 28.5	**PASSA η = 28.5**
N967/N871	$\lambda \leq 200.0$ Passa	x: 1.1 m η < 0.1	x: 0 m η = 0.6	x: 0 m η = 1.2	x: 1.1 m η = 1.0	x: 1.1 m η < 0.1	x: 0 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0 m η = 16.6	**PASSA η = 16.6**
N871/N990	$\lambda \leq 200.0$ Passa	x: 1.059 m η < 0.1	x: 0 m η = 0.1	x: 0 m η = 0.5	x: 0 m η = 0.9	x: 1.059 m η < 0.1	x: 0 m η < 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.353 m η = 8.0	**PASSA η = 8.0**
N990/N872	N.A.(5)	x: 1.059 m η = 0.1	N.A.(6)	x: 0 m η = 0.4	x: 0 m η = 0.8	x: 1.059 m η < 0.1	x: 0 m η < 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0 m η = 1.7	**PASSA η = 1.7**
N1034/N873	N.A.(5)	x: 1.059 m η = 0.1	N.A.(6)	x: 0 m η = 0.4	x: 0 m η = 1.4	x: 0 m η < 0.1	x: 1.059 m η < 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0 m η = 2.4	**PASSA η = 2.4**
N1032/N874	$\lambda \leq 200.0$ Passa	x: 1.1 m η < 0.1	x: 0 m η = 0.9	x: 0 m η = 1.2	x: 0 m η = 1.3	x: 0 m η < 0.1	x: 0 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0 m η = 23.3	**PASSA η = 23.3**
N874/N1034	$\lambda \leq 200.0$ Passa	x: 1.059 m η < 0.1	x: 0 m η = 0.3	x: 0 m η = 0.9	x: 0 m η = 0.8	x: 0 m η < 0.1	x: 1.059 m η < 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0 m η = 10.9	**PASSA η = 10.9**
N875/N1032	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 1.4	x: 0 m η = 3.4	x: 0 m η = 1.8	x: 1.1 m η = 0.1	x: 1.1 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0 m η = 42.8	**PASSA η = 42.8**
N1031/N875	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 1.7	x: 1.1 m η = 3.5	x: 1.1 m η = 1.5	x: 0 m η < 0.1	x: 0 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 1.1 m η = 41.8	**PASSA η = 41.8**
N876/N1031	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 1.6	x: 0 m η = 1.8	x: 0.55 m η = 1.4	x: 1.1 m η < 0.1	x: 1.1 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0 m η = 23.1	**PASSA η = 23.1**
N1030/N876	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 1.3	x: 1.1 m η = 2.0	x: 0.183 m η = 1.1	x: 0 m η < 0.1	x: 0 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.917 m η = 23.1	**PASSA η = 23.1**
N877/N1030	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 0.7	x: 1.1 m η = 0.2	x: 1.1 m η = 0.5	x: 0 m η < 0.1	x: 1.1 m η < 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 1.1 m η = 7.2	**PASSA η = 7.2**
N878/N931	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 0.7	x: 1.1 m η = 0.9	x: 0.55 m η = 0.9	x: 1.1 m η < 0.1	x: 0 m η < 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.733 m η = 13.4	**PASSA η = 13.4**
N931/N879	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 1.1	x: 0.917 m η = 1.3	x: 1.1 m η = 0.7	x: 1.1 m η < 0.1	x: 1.1 m η < 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.917 m η = 15.2	**PASSA η = 15.2**
N879/N950	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 1.2	x: 0 m η = 1.0	x: 0.55 m η = 1.0	x: 1.1 m η < 0.1	x: 1.1 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.183 m η = 12.9	**PASSA η = 12.9**
N950/N880	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 1.3	x: 1.1 m η = 2.3	x: 0.367 m η = 1.1	x: 0 m η < 0.1	x: 0 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 1.1 m η = 26.1	**PASSA η = 26.1**
N880/N969	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 0.9	x: 0 m η = 2.2	x: 0.367 m η = 1.1	x: 1.1 m η < 0.1	x: 1.1 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0 m η = 26.8	**PASSA η = 26.8**
N969/N881	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 0.6	x: 0 m η = 0.5	x: 0 m η = 1.0	x: 0 m η < 0.1	x: 1.1 m η < 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0 m η = 13.4	**PASSA η = 13.4**
N881/N992	$\lambda \leq 200.0$ Passa	x: 1.059 m η < 0.1	x: 0 m η < 0.1	x: 0 m η = 0.4	x: 0 m η = 0.8	x: 0 m η < 0.1	x: 0 m η < 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0 m η = 10.5	**PASSA η = 10.5**
N992/N882	N.A.(5)	x: 1.059 m η = 0.1	N.A.(6)	x: 0 m η = 0.7	x: 0 m η = 0.7	x: 0 m η < 0.1	x: 1.059 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0 m η = 1.8	**PASSA η = 1.8**
N1029/N883	N.A.(5)	x: 1.059 m η = 0.1	N.A.(6)	x: 0.882 m η = 0.6	x: 0.176 m η = 1.1	x: 1.059 m η = 0.1	x: 0 m η < 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.176 m η = 2.3	**PASSA η = 2.3**
N1027/N884	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 0.9	x: 0 m η = 0.7	x: 0 m η = 0.8	x: 1.1 m η < 0.1	x: 1.1 m η < 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0 m η = 14.6	**PASSA η = 14.6**
N884/N1029	$\lambda \leq 200.0$ Passa	x: 1.059 m η < 0.1	x: 0 m η = 0.2	x: 1.059 m η = 1.1	x: 0 m η = 0.6	x: 1.059 m η < 0.1	x: 0 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 1.059 m η = 12.8	**PASSA η = 12.8**
N885/N1027	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 1.3	x: 0 m η = 3.3	x: 0 m η = 1.4	x: 1.1 m η < 0.1	x: 1.1 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0 m η = 40.0	**PASSA η = 40.0**
N1025/N885	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 1.7	x: 1.1 m η = 3.2	x: 1.1 m η = 1.8	x: 0 m η = 0.1	x: 0 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 1.1 m η = 40.6	**PASSA η = 40.6**
N886/N1025	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 1.5	x: 0 m η = 1.7	x: 0.55 m η = 1.3	x: 0 m η < 0.1	x: 1.1 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.183 m η = 17.4	**PASSA η = 17.4**
N1023/N886	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 1.3	x: 0.917 m η = 1.7	x: 0.917 m η = 1.1	x: 1.1 m η < 0.1	x: 1.1 m η < 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.917 m η = 23.0	**PASSA η = 23.0**

Barras	VERIFICAÇÕES (ABNT NBR 8800:2008)											Estado
	λ	N_t	N_c	M_u	M_v	V_u	V_v	NM_uM_v	T	NMVT	σ τ f	
N887/N1023	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 0.7	x: 1.1 m η = 1.2	x: 0.733 m η = 1.3	x: 0 m η < 0.1	x: 0 m η < 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.733 m η = 18.5	**PASSA η = 18.5**
N888/N932	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 0.7	x: 1.1 m η = 0.3	x: 1.1 m η = 0.5	x: 1.1 m η < 0.1	x: 1.1 m η < 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 1.1 m η = 7.6	**PASSA η = 7.6**
N932/N889	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 1.1	x: 1.1 m η = 1.4	x: 0.917 m η = 0.8	x: 0 m η < 0.1	x: 0 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.917 m η = 17.8	**PASSA η = 17.8**
N889/N951	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 1.2	x: 0 m η = 1.5	x: 0.55 m η = 1.0	x: 1.1 m η < 0.1	x: 1.1 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0 m η = 15.3	**PASSA η = 15.3**
N951/N890	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 1.3	x: 1.1 m η = 2.4	x: 1.1 m η = 1.2	x: 0 m η < 0.1	x: 0 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 1.1 m η = 30.2	**PASSA η = 30.2**
N890/N970	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 0.9	x: 0 m η = 2.5	x: 0 m η = 1.1	x: 1.1 m η < 0.1	x: 1.1 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0 m η = 30.3	**PASSA η = 30.3**
N970/N891	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 0.6	x: 0 m η = 1.3	x: 1.1 m η = 1.0	x: 1.1 m η < 0.1	x: 0 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0 m η = 19.1	**PASSA η = 19.1**
N891/N994	$\lambda \leq 200.0$ Passa	x: 1.059 m η < 0.1	x: 0 m η < 0.1	x: 0.353 m η = 0.5	x: 1.059 m η = 0.8	x: 1.059 m η < 0.1	x: 0 m η < 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.353 m η = 9.2	**PASSA η = 9.2**
N994/N892	N.A.(5)	x: 1.059 m η = 0.1	N.A.(6)	x: 1.059 m η = 0.3	x: 1.059 m η = 0.7	x: 1.059 m η < 0.1	x: 0 m η < 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 1.059 m η = 1.4	**PASSA η = 1.4**
N1021/N893	N.A.(5)	x: 1.059 m η = 0.1	N.A.(6)	x: 1.059 m η = 0.3	x: 0 m η = 1.2	x: 0 m η = 0.1	x: 1.059 m η < 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0 m η = 2.0	**PASSA η = 2.0**
N1019/N894	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 0.9	x: 0 m η = 1.6	x: 0 m η = 1.3	x: 0 m η < 0.1	x: 0 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0 m η = 26.2	**PASSA η = 26.2**
N894/N1021	$\lambda \leq 200.0$ Passa	x: 1.059 m η < 0.1	x: 0 m η = 0.3	x: 0 m η = 1.3	x: 0.529 m η = 1.1	x: 0 m η < 0.1	x: 1.059 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0 m η = 13.2	**PASSA η = 13.2**
N895/N1019	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 1.3	x: 0 m η = 3.6	x: 0 m η = 1.9	x: 1.1 m η = 0.1	x: 1.1 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0 m η = 45.8	**PASSA η = 45.8**
N1018/N895	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 1.7	x: 1.1 m η = 3.8	x: 1.1 m η = 1.6	x: 0 m η = 0.1	x: 0 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 1.1 m η = 44.8	**PASSA η = 44.8**
N896/N1018	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 1.5	x: 0 m η = 2.0	x: 1.1 m η = 1.4	x: 1.1 m η = 0.1	x: 1.1 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0 m η = 25.0	**PASSA η = 25.0**
N1017/N896	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 1.3	x: 1.1 m η = 2.2	x: 0.183 m η = 1.1	x: 0 m η < 0.1	x: 0 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.917 m η = 24.8	**PASSA η = 24.8**
N897/N1017	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 0.7	x: 1.1 m η = 0.3	x: 1.1 m η = 0.5	x: 0 m η < 0.1	x: 1.1 m η < 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 1.1 m η = 7.6	**PASSA η = 7.6**
N898/N934	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 0.7	x: 1.1 m η = 1.7	x: 0.367 m η = 1.2	x: 0 m η < 0.1	x: 0 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.733 m η = 19.7	**PASSA η = 19.7**
N934/N899	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 1.1	x: 0.183 m η = 1.6	x: 0.183 m η = 1.0	x: 1.1 m η < 0.1	x: 1.1 m η < 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.183 m η = 21.2	**PASSA η = 21.2**
N899/N953	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 1.1	x: 0.183 m η = 1.0	x: 0.55 m η = 0.9	x: 1.1 m η < 0.1	x: 0 m η < 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.55 m η = 13.6	**PASSA η = 13.6**
N953/N900	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 1.2	x: 1.1 m η = 2.1	x: 0.367 m η = 1.1	x: 0 m η < 0.1	x: 0 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 1.1 m η = 24.4	**PASSA η = 24.4**
N900/N972	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 0.8	x: 0 m η = 2.1	x: 0.367 m η = 1.1	x: 1.1 m η < 0.1	x: 1.1 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0 m η = 25.1	**PASSA η = 25.1**
N972/N901	$\lambda \leq 200.0$ Passa	x: 1.1 m η < 0.1	x: 0 m η = 0.4	x: 1.1 m η = 1.7	x: 1.1 m η = 1.1	x: 1.1 m η < 0.1	x: 1.1 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 1.1 m η = 23.8	**PASSA η = 23.8**
N901/N996	N.A.(5)	x: 1.059 m η < 0.1	N.A.(6)	x: 0 m η = 1.2	x: 0 m η = 1.9	x: 0 m η = 0.1	x: 0 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0 m η = 4.5	**PASSA η = 4.5**
N996/N902	N.A.(5)	x: 0.706 m η = 0.1	N.A.(6)	x: 0 m η = 1.3	x: 0.529 m η = 1.1	x: 0 m η < 0.1	x: 1.059 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.529 m η = 2.6	**PASSA η = 2.6**
N1016/N903	N.A.(5)	x: 0.706 m η = 0.1	N.A.(6)	x: 0 m η = 1.4	x: 0 m η = 1.5	x: 1.059 m η = 0.1	x: 1.059 m η < 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0 m η = 4.0	**PASSA η = 4.0**
N1014/N904	$\lambda \leq 200.0$ Passa	x: 1.1 m η < 0.1	x: 0 m η = 0.7	x: 1.1 m η = 1.6	x: 1.1 m η = 2.1	x: 1.1 m η = 0.1	x: 1.1 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 1.1 m η = 33.4	**PASSA η = 33.4**
N904/N1016	$\lambda \leq 200.0$ Passa	x: 1.059 m η < 0.1	x: 0 m η = 0.2	x: 0 m η = 2.1	x: 0 m η = 1.2	x: 0 m η < 0.1	x: 0 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0 m η = 25.2	**PASSA η = 25.2**
N905/N1014	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 1.2	x: 0 m η = 3.2	x: 0.367 m η = 1.4	x: 1.1 m η < 0.1	x: 1.1 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0 m η = 38.0	**PASSA η = 38.0**
N1012/N905	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 1.6	x: 1.1 m η = 3.0	x: 0.917 m η = 1.6	x: 0 m η = 0.1	x: 0 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 1.1 m η = 38.2	**PASSA η = 38.2**
N906/N1012	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 1.5	x: 0 m η = 1.5	x: 0.55 m η = 1.1	x: 0 m η < 0.1	x: 1.1 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.183 m η = 16.7	**PASSA η = 16.7**
N1010/N906	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 1.3	x: 0 m η = 2.5	x: 0.183 m η = 1.2	x: 1.1 m η < 0.1	x: 1.1 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.183 m η = 30.0	**PASSA η = 30.0**

Barras	VERIFICAÇÕES (ABNT NBR 8800:2008)											Estado
	λ	N_t	N_c	M_u	M_v	V_u	V_v	NM_uM_v	T	NMVT	σ τ f	
N907/N1010	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 0.7	x: 1.1 m η = 2.4	x: 0.367 m η = 1.5	x: 0 m η < 0.1	x: 0 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 1.1 m η = 29.6	**PASSA η = 29.6**
N908/N935	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 0.6	x: 1.1 m η = 0.5	x: 1.1 m η = 0.6	x: 0 m η < 0.1	x: 1.1 m η < 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 1.1 m η = 9.7	**PASSA η = 9.7**
N935/N909	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 0.9	x: 1.1 m η = 1.1	x: 0.917 m η = 1.0	x: 0 m η = 0.1	x: 0 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.917 m η = 17.4	**PASSA η = 17.4**
N909/N954	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 0.9	x: 1.1 m η = 1.9	x: 1.1 m η = 1.1	x: 1.1 m η < 0.1	x: 1.1 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 1.1 m η = 26.0	**PASSA η = 26.0**
N954/N910	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 0.9	x: 1.1 m η = 2.1	x: 0 m η = 1.4	x: 0 m η = 0.1	x: 0 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0 m η = 28.3	**PASSA η = 28.3**
N910/N973	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 0.7	x: 0 m η = 2.0	x: 1.1 m η = 1.8	x: 1.1 m η = 0.1	x: 1.1 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 1.1 m η = 33.3	**PASSA η = 33.3**
N973/N911	$\lambda \leq 200.0$ Passa	x: 1.1 m η < 0.1	x: 0 m η = 0.5	x: 0 m η = 2.3	x: 0 m η = 1.1	x: 0 m η < 0.1	x: 0 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0 m η = 29.6	**PASSA η = 29.6**
N911/N998	$\lambda \leq 200.0$ Passa	x: 1.059 m η < 0.1	x: 0 m η = 0.1	x: 0 m η = 1.5	x: 0 m η = 1.4	x: 1.059 m η = 0.1	x: 1.059 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0 m η = 23.0	**PASSA η = 23.0**
N998/N912	N.A.(5)	x: 1.059 m η < 0.1	N.A.(6)	x: 0 m η = 0.8	x: 0 m η = 0.8	x: 1.059 m η < 0.1	x: 0 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0 m η = 1.7	**PASSA η = 1.7**
N1007/N913	x: 0 m $\lambda \leq 200.0$ Passa	x: 1.059 m η < 0.1	x: 0 m η < 0.1	x: 0 m η = 0.4	x: 0 m η = 0.9	x: 0 m η < 0.1	x: 1.059 m η < 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0 m η = 9.7	**PASSA η = 9.7**
N1004/N914	$\lambda \leq 200.0$ Passa	x: 1.1 m η < 0.1	x: 0 m η = 0.8	x: 0 m η = 2.5	x: 0 m η = 2.4	x: 0 m η = 0.1	x: 0 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0 m η = 44.2	**PASSA η = 44.2**
N914/N1007	$\lambda \leq 200.0$ Passa	x: 1.059 m η < 0.1	x: 0 m η = 0.3	x: 0 m η = 3.1	x: 0.529 m η = 1.0	x: 0 m η < 0.1	x: 1.059 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0 m η = 29.8	**PASSA η = 29.8**
N915/N1004	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 1.0	x: 0 m η = 3.3	x: 1.1 m η = 1.6	x: 1.1 m η = 0.1	x: 1.1 m η = 0.2	N.A.(2)	N.A.(3)	N.A.(4)	x: 1.1 m η = 40.3	**PASSA η = 40.3**
N1002/N915	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 1.2	x: 1.1 m η = 3.2	x: 0 m η = 1.5	x: 0 m η = 0.1	x: 0 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 1.1 m η = 38.9	**PASSA η = 38.9**
N916/N1002	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 1.1	x: 1.1 m η = 2.2	x: 1.1 m η = 2.1	x: 1.1 m η = 0.1	x: 1.1 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 1.1 m η = 38.2	**PASSA η = 38.2**
N1000/N916	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 1.0	x: 1.1 m η = 2.4	x: 0.55 m η = 0.7	x: 1.1 m η < 0.1	x: 0 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 1.1 m η = 23.1	**PASSA η = 23.1**
N917/N1000	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 0.6	x: 1.1 m η = 0.4	x: 1.1 m η = 0.8	x: 1.1 m η < 0.1	x: 1.1 m η < 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 1.1 m η = 10.8	**PASSA η = 10.8**
N1258/N1295	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 10.5	x: 0.566 m η = 3.5	x: 0.566 m η = 11.9	x: 0.566 m η = 0.4	x: 0.566 m η = 0.2	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.566 m η = 44.2	**PASSA η = 44.2**
N1258/N1294	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 9.9	x: 0.566 m η = 6.7	x: 0.566 m η = 7.2	x: 0.566 m η = 0.2	x: 0.566 m η = 0.5	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.566 m η = 31.2	**PASSA η = 31.2**
N31/N1296	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0.07 m η = 21.9	x: 0.566 m η = 8.6	x: 0.566 m η = 3.1	x: 0.566 m η = 0.1	x: 0.566 m η = 0.5	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.566 m η = 39.5	**PASSA η = 39.5**
N31/N1297	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0.07 m η = 22.5	x: 0.566 m η = 2.5	x: 0.566 m η = 9.3	x: 0.566 m η = 0.3	x: 0.07 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.566 m η = 48.9	**PASSA η = 48.9**
N1263/N1298	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 9.9	x: 0.566 m η = 9.4	x: 0.566 m η = 11.5	x: 0.566 m η = 0.4	x: 0.566 m η = 0.4	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.566 m η = 44.2	**PASSA η = 44.2**
N1263/N1299	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 10.1	x: 0 m η = 5.3	x: 0.566 m η = 11.9	x: 0.566 m η = 0.3	x: 0.566 m η = 0.3	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.566 m η = 43.6	**PASSA η = 43.6**
N32/N1300	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0.07 m η = 23.4	x: 0.566 m η = 9.3	x: 0.566 m η = 3.9	x: 0.566 m η = 0.1	x: 0.566 m η = 0.6	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.566 m η = 41.5	**PASSA η = 41.5**
N32/N1301	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0.07 m η = 23.7	x: 0.566 m η = 1.9	x: 0.566 m η = 10.6	x: 0.566 m η = 0.4	x: 0.07 m η = 0.2	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.566 m η = 53.4	**PASSA η = 53.4**
N1268/N1302	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 9.7	x: 0.566 m η = 8.2	x: 0.566 m η = 10.0	x: 0.566 m η = 0.2	x: 0.566 m η = 0.5	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.566 m η = 38.9	**PASSA η = 38.9**
N1268/N1303	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 10.8	x: 0.566 m η = 5.7	x: 0.566 m η = 16.3	x: 0.566 m η = 0.6	x: 0.566 m η = 0.2	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.566 m η = 57.0	**PASSA η = 57.0**
N33/N1304	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0.07 m η = 23.8	x: 0.566 m η = 8.7	x: 0.566 m η = 3.4	x: 0.566 m η = 0.1	x: 0.566 m η = 0.8	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.07 m η = 44.9	**PASSA η = 44.9**
N33/N1305	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0.07 m η = 25.1	x: 0.07 m η = 7.2	x: 0.566 m η = 10.9	x: 0.566 m η = 0.4	x: 0.07 m η = 0.4	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.07 m η = 66.5	**PASSA η = 66.5**
N1271/N1306	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 9.2	x: 0.566 m η = 9.4	x: 0.566 m η = 11.8	x: 0.566 m η = 0.4	x: 0.566 m η = 0.4	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.566 m η = 45.6	**PASSA η = 45.6**
N1271/N1307	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 11.8	x: 0 m η = 6.4	x: 0.566 m η = 13.8	x: 0.566 m η = 0.3	x: 0.566 m η = 0.4	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.566 m η = 50.7	**PASSA η = 50.7**
N1289/N1308	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 10.5	x: 0 m η = 5.1	x: 0.566 m η = 13.3	x: 0.566 m η = 0.3	x: 0.566 m η = 0.3	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.566 m η = 48.2	**PASSA η = 48.2**

Barras	VERIFICAÇÕES (ABNT NBR 8800:2008)											Estado
	λ	N_t	N_c	M_u	M_v	V_u	V_v	NM_uM_v	T	NMVT	σ τ f	
N1289/N1309	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 13.0	x: 0.566 m η = 11.8	x: 0.566 m η = 14.2	x: 0.566 m η = 0.5	x: 0.566 m η = 0.5	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.566 m η = 54.6	**PASSA η = 54.6**
N37/N1310	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0.07 m η = 28.5	x: 0.07 m η = 10.8	x: 0.566 m η = 4.5	x: 0.566 m η = 0.1	x: 0.566 m η = 0.9	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.07 m η = 55.5	**PASSA η = 55.5**
N37/N1311	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0.07 m η = 26.6	x: 0.07 m η = 7.1	x: 0.566 m η = 11.4	x: 0.566 m η = 0.4	x: 0.07 m η = 0.4	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.07 m η = 67.8	**PASSA η = 67.8**
N1286/N1312	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 12.3	x: 0.566 m η = 9.7	x: 0.566 m η = 11.5	x: 0.566 m η = 0.2	x: 0.566 m η = 0.7	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.566 m η = 46.1	**PASSA η = 46.1**
N1286/N1313	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 11.0	x: 0.566 m η = 6.5	x: 0.566 m η = 17.7	x: 0.566 m η = 0.6	x: 0.566 m η = 0.3	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.566 m η = 61.2	**PASSA η = 61.2**
N36/N1314	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0.07 m η = 26.7	x: 0.566 m η = 10.5	x: 0.566 m η = 4.3	x: 0.566 m η = 0.1	x: 0.566 m η = 0.7	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.566 m η = 47.3	**PASSA η = 47.3**
N36/N1315	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0.07 m η = 26.5	x: 0.07 m η = 2.2	x: 0.566 m η = 12.0	x: 0.566 m η = 0.4	x: 0.07 m η = 0.2	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.566 m η = 60.1	**PASSA η = 60.1**
N1281/N1316	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 11.2	x: 0.566 m η = 10.6	x: 0.566 m η = 12.7	x: 0.566 m η = 0.5	x: 0.566 m η = 0.4	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.566 m η = 48.8	**PASSA η = 48.8**
N1281/N1317	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 11.3	x: 0 m η = 5.5	x: 0.566 m η = 13.5	x: 0.566 m η = 0.3	x: 0.566 m η = 0.4	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.566 m η = 49.4	**PASSA η = 49.4**
N35/N1318	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0.07 m η = 25.2	x: 0.566 m η = 9.9	x: 0.566 m η = 3.4	x: 0.566 m η = 0.1	x: 0.566 m η = 0.5	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.566 m η = 45.8	**PASSA η = 45.8**
N35/N1319	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0.07 m η = 24.7	x: 0.566 m η = 2.4	x: 0.566 m η = 10.6	x: 0.566 m η = 0.3	x: 0.07 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.566 m η = 54.6	**PASSA η = 54.6**
N1275/N1320	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 11.8	x: 0.566 m η = 7.8	x: 0.566 m η = 8.1	x: 0.566 m η = 0.2	x: 0.566 m η = 0.5	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.566 m η = 35.9	**PASSA η = 35.9**
N1275/N1321	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 11.2	x: 0.566 m η = 4.1	x: 0.566 m η = 13.1	x: 0.566 m η = 0.5	x: 0.566 m η = 0.2	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.566 m η = 48.3	**PASSA η = 48.3**
N51/N1332	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0.07 m η = 18.6	x: 0.07 m η = 5.1	x: 0.566 m η = 7.0	x: 0.566 m η = 0.3	x: 0.07 m η = 0.3	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.07 m η = 47.0	**PASSA η = 47.0**
N51/N1333	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0.07 m η = 16.2	x: 0.07 m η = 5.5	x: 0.07 m η = 1.6	x: 0.566 m η < 0.1	x: 0.566 m η = 0.5	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.566 m η = 28.2	**PASSA η = 28.2**
N1253/N1334	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 9.1	x: 0 m η = 4.6	x: 0.566 m η = 8.5	x: 0.566 m η = 0.2	x: 0.566 m η = 0.2	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.566 m η = 32.8	**PASSA η = 32.8**
N1253/N1335	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 6.1	x: 0.566 m η = 5.8	x: 0.566 m η = 7.0	x: 0.566 m η = 0.3	x: 0.566 m η = 0.2	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.566 m η = 26.7	**PASSA η = 26.7**
N1250/N1336	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 8.1	x: 0.566 m η = 6.2	x: 0 m η = 7.5	x: 0.566 m η = 0.3	x: 0.566 m η = 0.3	N.A.(2)	N.A.(3)	N.A.(4)	x: 0 m η = 30.1	**PASSA η = 30.1**
N1250/N1337	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 4.4	x: 0 m η = 1.9	x: 0.566 m η = 4.7	x: 0.566 m η = 0.1	x: 0.566 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.566 m η = 17.3	**PASSA η = 17.3**
N49/N1338	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0.07 m η = 16.4	x: 0.07 m η = 5.8	x: 0.566 m η = 2.1	x: 0.566 m η < 0.1	x: 0.566 m η = 0.5	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.07 m η = 29.6	**PASSA η = 29.6**
N49/N1339	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0.07 m η = 12.0	x: 0.07 m η = 3.1	x: 0.566 m η = 4.2	x: 0.566 m η = 0.2	x: 0.07 m η = 0.2	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.07 m η = 28.5	**PASSA η = 28.5**
N89/N1360	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0.07 m η = 16.4	x: 0.07 m η = 4.8	x: 0.566 m η = 6.0	x: 0.566 m η = 0.2	x: 0.07 m η = 0.3	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.07 m η = 41.3	**PASSA η = 41.3**
N89/N1361	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0.07 m η = 20.6	x: 0.07 m η = 7.4	x: 0.566 m η = 2.5	x: 0.566 m η < 0.1	x: 0.566 m η = 0.6	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.07 m η = 38.4	**PASSA η = 38.4**
N1211/N1362	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 6.1	x: 0 m η = 2.3	x: 0.566 m η = 6.7	x: 0.566 m η = 0.1	x: 0.566 m η = 0.2	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.566 m η = 24.8	**PASSA η = 24.8**
N1211/N1363	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 10.0	x: 0.566 m η = 7.9	x: 0 m η = 9.3	x: 0.566 m η = 0.3	x: 0.566 m η = 0.3	N.A.(2)	N.A.(3)	N.A.(4)	x: 0 m η = 37.2	**PASSA η = 37.2**
N1208/N1364	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 4.2	x: 0.566 m η = 4.3	x: 0.566 m η = 5.3	x: 0.566 m η = 0.2	x: 0.566 m η = 0.2	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.566 m η = 20.5	**PASSA η = 20.5**
N1208/N1365	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 7.6	x: 0 m η = 4.3	x: 0.566 m η = 6.8	x: 0.566 m η = 0.2	x: 0.566 m η = 0.2	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.566 m η = 26.7	**PASSA η = 26.7**
N87/N1366	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0.07 m η = 12.2	x: 0.566 m η = 4.0	x: 0.566 m η = 1.0	x: 0.566 m η < 0.1	x: 0.566 m η = 0.3	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.566 m η = 21.0	**PASSA η = 21.0**
N87/N1367	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0.07 m η = 15.4	x: 0.07 m η = 3.5	x: 0.566 m η = 5.9	x: 0.566 m η = 0.2	x: 0.07 m η = 0.2	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.07 m η = 36.7	**PASSA η = 36.7**
N1191/N1378	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 13.0	x: 0.566 m η = 8.9	x: 0.566 m η = 9.8	x: 0.566 m η = 0.2	x: 0.566 m η = 0.6	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.566 m η = 42.0	**PASSA η = 42.0**
N1191/N1379	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 12.8	x: 0.566 m η = 4.9	x: 0.566 m η = 15.6	x: 0.566 m η = 0.5	x: 0.566 m η = 0.2	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.566 m η = 57.0	**PASSA η = 57.0**
N111/N1380	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0.07 m η = 28.1	x: 0.566 m η = 11.1	x: 0.566 m η = 4.1	x: 0.566 m η = 0.2	x: 0.566 m η = 0.6	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.566 m η = 50.5	**PASSA η = 50.5**

Barras	VERIFICAÇÕES (ABNT NBR 8800:2008)											Estado
	λ	N_t	N_c	M_u	M_v	V_u	V_v	NM_uM_v	T	NMVT	σ τ f	
N111/N1381	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0.07 m η = 28.6	x: 0.566 m η = 2.8	x: 0.566 m η = 12.4	x: 0.566 m η = 0.4	x: 0.07 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.566 m η = 63.5	**PASSA η = 63.5**
N1197/N1382	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 12.7	x: 0 m η = 6.6	x: 0.566 m η = 15.8	x: 0.566 m η = 0.4	x: 0.566 m η = 0.4	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.566 m η = 57.3	**PASSA η = 57.3**
N1197/N1383	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 12.3	x: 0.566 m η = 12.0	x: 0.566 m η = 14.8	x: 0.566 m η = 0.5	x: 0.566 m η = 0.5	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.566 m η = 57.0	**PASSA η = 57.0**
N112/N1384	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0.07 m η = 30.0	x: 0.07 m η = 2.6	x: 0.566 m η = 13.7	x: 0.566 m η = 0.5	x: 0.07 m η = 0.2	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.566 m η = 68.4	**PASSA η = 68.4**
N112/N1385	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0.07 m η = 29.8	x: 0.566 m η = 11.9	x: 0.566 m η = 5.0	x: 0.566 m η = 0.2	x: 0.566 m η = 0.8	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.566 m η = 52.7	**PASSA η = 52.7**
N1202/N1386	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 13.3	x: 0.566 m η = 7.4	x: 0.566 m η = 20.8	x: 0.566 m η = 0.7	x: 0.566 m η = 0.3	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.566 m η = 72.3	**PASSA η = 72.3**
N1202/N1387	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 12.6	x: 0.566 m η = 10.6	x: 0.566 m η = 13.1	x: 0.566 m η = 0.3	x: 0.566 m η = 0.7	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.566 m η = 50.9	**PASSA η = 50.9**
N113/N1388	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0.07 m η = 31.1	x: 0.07 m η = 8.9	x: 0.566 m η = 13.5	x: 0.566 m η = 0.5	x: 0.07 m η = 0.5	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.07 m η = 82.5	**PASSA η = 82.5**
N113/N1389	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0.07 m η = 31.0	x: 0.07 m η = 11.5	x: 0.566 m η = 4.7	x: 0.566 m η = 0.1	x: 0.566 m η = 1.0	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.07 m η = 59.4	**PASSA η = 59.4**
N1205/N1390	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 13.6	x: 0 m η = 7.4	x: 0.566 m η = 17.1	x: 0.566 m η = 0.4	x: 0.566 m η = 0.5	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.566 m η = 61.8	**PASSA η = 61.8**
N1205/N1391	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 12.4	x: 0.566 m η = 12.4	x: 0.566 m η = 15.7	x: 0.566 m η = 0.6	x: 0.566 m η = 0.5	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.566 m η = 60.1	**PASSA η = 60.1**
N1187/N1392	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 10.7	x: 0.566 m η = 10.0	x: 0.566 m η = 12.2	x: 0.566 m η = 0.5	x: 0.566 m η = 0.4	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.566 m η = 47.0	**PASSA η = 47.0**
N1187/N1393	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 9.4	x: 0 m η = 5.0	x: 0.566 m η = 12.0	x: 0.566 m η = 0.3	x: 0.566 m η = 0.3	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.566 m η = 43.4	**PASSA η = 43.4**
N109/N1394	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0.07 m η = 23.3	x: 0.566 m η = 8.6	x: 0.566 m η = 3.6	x: 0.566 m η = 0.1	x: 0.566 m η = 0.7	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.07 m η = 44.8	**PASSA η = 44.8**
N109/N1395	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0.07 m η = 22.3	x: 0.07 m η = 5.5	x: 0.566 m η = 9.7	x: 0.566 m η = 0.4	x: 0.07 m η = 0.3	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.07 m η = 55.2	**PASSA η = 55.2**
N1184/N1396	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 9.8	x: 0.566 m η = 8.1	x: 0.566 m η = 9.9	x: 0.566 m η = 0.2	x: 0.566 m η = 0.6	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.566 m η = 38.6	**PASSA η = 38.6**
N1184/N1397	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 9.0	x: 0.566 m η = 5.3	x: 0.566 m η = 14.6	x: 0.566 m η = 0.5	x: 0.566 m η = 0.3	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.566 m η = 50.5	**PASSA η = 50.5**
N108/N1398	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0.07 m η = 21.7	x: 0.566 m η = 8.7	x: 0.566 m η = 3.6	x: 0.566 m η = 0.1	x: 0.566 m η = 0.5	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.566 m η = 38.6	**PASSA η = 38.6**
N108/N1399	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0.07 m η = 21.5	x: 0.566 m η = 1.7	x: 0.566 m η = 9.9	x: 0.566 m η = 0.3	x: 0.07 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.566 m η = 49.3	**PASSA η = 49.3**
N1179/N1400	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 9.1	x: 0.566 m η = 8.9	x: 0.566 m η = 10.8	x: 0.566 m η = 0.4	x: 0.566 m η = 0.4	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.566 m η = 41.9	**PASSA η = 41.9**
N1179/N1401	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 9.0	x: 0 m η = 4.8	x: 0.566 m η = 11.3	x: 0.566 m η = 0.3	x: 0.566 m η = 0.3	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.566 m η = 40.9	**PASSA η = 40.9**
N107/N1402	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0.07 m η = 20.6	x: 0.566 m η = 8.3	x: 0.566 m η = 2.9	x: 0.566 m η = 0.1	x: 0.566 m η = 0.4	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.566 m η = 37.6	**PASSA η = 37.6**
N107/N1403	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0.07 m η = 20.3	x: 0.566 m η = 2.0	x: 0.566 m η = 8.9	x: 0.566 m η = 0.3	x: 0.07 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.566 m η = 45.4	**PASSA η = 45.4**
N1174/N1404	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 9.4	x: 0.566 m η = 6.7	x: 0.566 m η = 7.3	x: 0.566 m η = 0.2	x: 0.566 m η = 0.4	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.566 m η = 30.9	**PASSA η = 30.9**
N1174/N1405	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 9.3	x: 0.566 m η = 3.5	x: 0.566 m η = 11.3	x: 0.566 m η = 0.4	x: 0.566 m η = 0.2	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.566 m η = 41.2	**PASSA η = 41.2**
N1642/N1348	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 14.8	x: 0.566 m η = 8.1	x: 0.566 m η = 6.3	x: 0.566 m η = 0.2	x: 0.566 m η = 0.4	N.A.(2)	N.A.(3)	N.A.(4)	x: 0 m η = 34.9	**PASSA η = 34.9**
N1642/N1349	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 11.2	x: 0.566 m η = 1.0	x: 0.566 m η = 8.2	x: 0.566 m η = 0.2	x: 0.566 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.566 m η = 34.1	**PASSA η = 34.1**
N1643/N1376	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 11.2	x: 0.566 m η = 6.4	x: 0.566 m η = 5.1	x: 0.566 m η = 0.2	x: 0.566 m η = 0.3	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.566 m η = 26.6	**PASSA η = 26.6**
N1643/N1377	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 13.8	x: 0 m η = 2.8	x: 0.566 m η = 10.3	x: 0.566 m η = 0.3	x: 0.566 m η = 0.2	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.566 m η = 42.6	**PASSA η = 42.6**
N1660/N1323	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 17.0	x: 0 m η = 3.3	x: 0.566 m η = 12.4	x: 0.566 m η = 0.4	x: 0.566 m η = 0.2	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.566 m η = 53.9	**PASSA η = 53.9**
N1660/N1322	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 14.8	x: 0.566 m η = 8.0	x: 0.566 m η = 6.1	x: 0.566 m η = 0.2	x: 0.566 m η = 0.4	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.566 m η = 50.6	**PASSA η = 50.6**
N1664/N1351	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 15.0	x: 0.566 m η = 1.3	x: 0.566 m η = 11.1	x: 0.566 m η = 0.3	x: 0.566 m η = 0.1	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.566 m η = 48.8	**PASSA η = 48.8**

Barras	VERIFICAÇÕES (ABNT NBR 8800:2008)											Estado
	λ	N_t	N_c	M_u	M_v	V_u	V_v	NM_uM_v	T	NMVT	$\sigma\ \tau$ f	
N1664/N1350	$\lambda \leq 200.0$ Passa	N.A.(1)	x: 0 m η = 18.1	x: 0.566 m η = 9.9	x: 0.566 m η = 7.7	x: 0.566 m η = 0.3	x: 0.566 m η = 0.5	N.A.(2)	N.A.(3)	N.A.(4)	x: 0.566 m η = 62.8	**PASSA η = 62.8**

Notação:
- *λ: Limitação do índice de esbeltez*
- *N_t: Resistência à tração*
- *N_c: Resistência à compressão*
- *M_u: Resistência à flexão eixo U*
- *M_v: Resistência à flexão eixo V*
- *V_u: Resistência ao esforço cortante U*
- *V_v: Resistência ao esforço cortante V*
- *NM_uM_v: 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*

Verificações desnecessárias para o tipo de perfil (N.A.):
- *(1) A verificação não será executada, já que não existe esforço axial de tração.*
- *(2) Este caso não está contemplado pela norma e, portanto, não é possível realizar a verificação.*
- *(3) A verificação não é necessária, já que não existe momento torsor.*
- *(4) Não há interação entre a esforço axial, momento fletor, esforço cortante e momento torsor. Portanto, a verificação não é necessária.*
- *(5) A verificação não procede, já que não há força axial de compressão.*
- *(6) A verificação não será executada, já que não existe esforço axial de compressão.*