

Design No. Y633

CONTINUED FROM T-3.4

W27x161	1.48	0.039	0.072	0.105	0.138	0.263	0.317	N/A	N/A
W36x182	1.55	0.038	0.071	0.102	0.135	0.262	0.316	N/A	N/A
W14x152	1.38	0.038	0.069	0.099	0.147	0.199	0.251	0.303	0.355
W33x201	1.58	0.037	0.068	0.098	0.146	0.197	0.249	0.300	0.352
W21x147	1.63	0.037	0.067	0.096	0.143	0.194	0.246	0.298	0.349
W30x191	1.62	0.037	0.067	0.096	0.143	0.194	0.246	0.298	0.349
W7x41	1.65	0.036	0.066	0.095	0.141	0.192	0.243	0.294	0.345
W27x178	1.63	0.036	0.066	0.095	0.141	0.192	0.243	0.294	0.345
W30x174	1.63	0.036	0.066	0.095	0.141	0.192	0.243	0.294	0.345
W10x100	1.64	0.036	0.066	0.095	0.141	0.192	0.243	0.294	0.345
W14x145	1.64	0.036	0.066	0.095	0.141	0.192	0.243	0.294	0.345
W12x135	1.65	0.036	0.065	0.094	0.140	0.190	0.240	0.290	0.340
W36x230	1.72	0.035	0.063	0.091	0.133	0.184	0.235	0.286	0.337
W31x223	1.73	0.035	0.063	0.091	0.133	0.184	0.235	0.286	0.337
W30x213	1.76	0.034	0.062	0.089	0.133	0.185	0.236	0.287	0.338
W36x210	1.76	0.034	0.062	0.089	0.133	0.185	0.236	0.287	0.338
W14x139	1.78	0.034	0.062	0.089	0.133	0.185	0.236	0.287	0.338
W10x112	1.81	0.034	0.062	0.088	0.130	0.177	0.225	0.271	0.318
W36x245	1.81	0.034	0.062	0.088	0.130	0.177	0.225	0.271	0.318
W12x156	1.83	0.033	0.061	0.084	0.127	0.171	0.219	0.265	0.312
W33x241	1.87	0.033	0.061	0.084	0.127	0.171	0.219	0.265	0.312
W36x260	1.93	0.032	0.061	0.082	0.124	0.168	0.215	0.260	0.306
W14x126	1.96	0.032	0.061	0.081	0.122	0.167	0.212	0.257	0.302
W12x152	2.04	0.031	0.059	0.078	0.118	0.162	0.205	0.249	0.293
W36x280	2.06	0.031	0.059	0.077	0.116	0.160	0.203	0.247	0.290
W12x183	2.14	0.031	0.059	0.075	0.113	0.156	0.199	0.241	0.284
W36x300	2.21	0.029	0.058	0.073	0.110	0.152	0.194	0.236	0.278
W12x170	2.26	0.029	0.058	0.072	0.109	0.150	0.192	0.233	0.275
W14x211	2.32	0.028	0.057	0.069	0.106	0.147	0.187	0.228	0.268
W12x190	2.33	0.027	0.056	0.065	0.103	0.143	0.181	0.221	0.258
W14x233	2.53	0.027	0.056	0.065	0.103	0.143	0.181	0.221	0.258
W12x210	2.73	0.027	0.056	0.065	0.103	0.143	0.181	0.221	0.258

Required Thicknesses (mm)									
Hp/A	Rating Period (hrs)								
	1	1-1/2	2	3	3-1/2	4	4-1/2	5	6
415	3.77	6.67	9.56	N/A	N/A	N/A	N/A	N/A	N/A
410	3.73	6.61	9.47	N/A	N/A	N/A	N/A	N/A	N/A
405	3.69	6.54	9.39	N/A	N/A	N/A	N/A	N/A	N/A
400	3.64	6.48	9.3	N/A	N/A	N/A	N/A	N/A	N/A
395	3.6	6.41	9.21	N/A	N/A	N/A	N/A	N/A	N/A
390	3.56	6.35	9.13	N/A	N/A	N/A	N/A	N/A	N/A
385	3.51	6.28	9.04	N/A	N/A	N/A	N/A	N/A	N/A
380	3.47	6.22	8.95	N/A	N/A	N/A	N/A	N/A	N/A
375	3.43	6.15	8.86	N/A	N/A	N/A	N/A	N/A	N/A
370	3.39	6.09	8.78	N/A	N/A	N/A	N/A	N/A	N/A
365	3.34	6.02	8.69	N/A	N/A	N/A	N/A	N/A	N/A
360	3.3	5.96	8.6	N/A	N/A	N/A	N/A	N/A	N/A
355	3.26	5.89	8.52	N/A	N/A	N/A	N/A	N/A	N/A
350	3.22	5.83	8.43	N/A	N/A	N/A	N/A	N/A	N/A
345	3.17	5.76	8.34	N/A	N/A	N/A	N/A	N/A	N/A
340	3.13	5.7	8.26	N/A	N/A	N/A	N/A	N/A	N/A
335	3.09	5.63	8.17	N/A	N/A	N/A	N/A	N/A	N/A
330	3.04	5.57	8.08	N/A	N/A	N/A	N/A	N/A	N/A
325	3.0	5.5	7.99	N/A	N/A	N/A	N/A	N/A	N/A
320	2.96	5.44	7.91	N/A	N/A	N/A	N/A	N/A	N/A
315	2.92	5.37	7.82	N/A	N/A	N/A	N/A	N/A	N/A
310	2.87	5.31	7.73	N/A	N/A	N/A	N/A	N/A	N/A
305	2.83	5.24	7.65	N/A	N/A	N/A	N/A	N/A	N/A
300	2.79	5.18	7.56	N/A	N/A	N/A	N/A	N/A	N/A
295	2.75	5.11	7.47	N/A	N/A	N/A	N/A	N/A	N/A
290	2.7	5.05	7.38	N/A	N/A	N/A	N/A	N/A	N/A
285	2.66	4.98	7.3	N/A	N/A	N/A	N/A	N/A	N/A
280	2.62	4.92	7.21	N/A	N/A	N/A	N/A	N/A	N/A
275	2.57	4.85	7.12	N/A	N/A	N/A	N/A	N/A	N/A
270	2.53	4.79	7.04	N/A	N/A	N/A	N/A	N/A	N/A
265	2.49	4.72	6.95	N/A	N/A	N/A	N/A	N/A	N/A
260	2.44	4.65	6.86	N/A	N/A	N/A	N/A	N/A	N/A
255	2.4	4.59	6.78	N/A	N/A	N/A	N/A	N/A	N/A
250	2.36	4.53	6.69	N/A	N/A	N/A	N/A	N/A	N/A
245	2.31	4.47	6.6	N/A	N/A	N/A	N/A	N/A	N/A
240	2.27	4.41	6.51	N/A	N/A	N/A	N/A	N/A	N/A
235	2.23	4.35	6.42	N/A	N/A	N/A	N/A	N/A	N/A
230	2.19	4.27	6.34	8.42	10.30	12.17	N/A	N/A	N/A
225	2.15	4.21	6.25	8.30	10.19	12.04	N/A	N/A	N/A
220	2.1	4.1	6.09	8.18	10.08	11.91	N/A	N/A	N/A
215	2.06	4.01	5.96	8.05	10.18	12.29	N/A	N/A	N/A
210	2.02	3.93	5.84	7.93	10.07	12.20	N/A	N/A	N/A
205	1.97	3.84	5.71	7.81	9.96	12.11	N/A	N/A	N/A
200	1.93	3.78	5.63	7.68	9.85	12.01	N/A	N/A	N/A
195	1.89	3.71	5.55	7.56	9.74	11.92	N/A	N/A	N/A
190	1.84	3.63	5.43	7.44	9.64	11.83	N/A	N/A	N/A
185	1.8	3.5	5.2	7.32	9.53	11.74	N/A	N/A	N/A
180	1.75	3.42	5.08	7.19	9.42	11.64	N/A	N/A	N/A

Required Thicknesses (mm)									
Hp/A	Rating Period (hrs)								
	1	1-1/2	2	3	3-1/2	4	4-1/2	5	6
415	3.77	6.67	9.56	N/A	N/A	N/A	N/A	N/A	N/A
410	3.73	6.61	9.47	N/A	N/A	N/A	N/A	N/A	N/A
405	3.69	6.54	9.39	N/A	N/A	N/A	N/A	N/A	N/A
400	3.64	6.48	9.3	N/A	N/A	N/A	N/A	N/A	N/A
395	3.6	6.41	9.21	N/A	N/A	N/A	N/A	N/A	N/A
390	3.56	6.35	9.13	N/A	N/A	N/A	N/A	N/A	N/A
385	3.51	6.28	9.04	N/A	N/A	N/A	N/A	N/A	N/A
380	3.47	6.22	8.95	N/A	N/A	N/A	N/A	N/A	N/A
375	3.43	6.15	8.86	N/A	N/A	N/A	N/A	N/A	N/A
370	3.39	6.09	8.78	N/A	N/A	N/A	N/A	N/A	N/A
365	3.34	6.02	8.69	N/A	N/A	N/A	N/A	N/A	N/A
360	3.3	5.96	8.6	N/A	N/A	N/A	N/A	N/A	N/A
355	3.26	5.89	8.52	N/A	N/A	N/A	N/A	N/A	N/A
350	3.22	5.83	8.43	N/A	N/A	N/A	N/A	N/A	N/A
345	3.17	5.76	8.34	N/A	N/A	N/A	N/A	N/A	N/A
340	3.13	5.7	8.26	N/A	N/A	N/A	N/A	N/A	N/A
335	3.09	5.63	8.17	N/A	N/A	N/A	N/A	N/A	N/A
330	3.04	5.57	8.08	N/A	N/A	N/A	N/A	N/A	N/A
325	3.0	5.5	7.99	N/A	N/A	N/A	N/A	N/A	N/A
320	2.96	5.44	7.91	N/A	N/A	N/A	N/A	N/A	N/A
315	2.92	5.37	7.82	N/A	N/A	N/A	N/A	N/A	N/A
310	2.87	5.31	7.73	N/A	N/A	N/A	N/A	N/A	N/A
305	2.83	5.24	7.65	N/A	N/A	N/A	N/A	N/A	N/A
300	2.79	5.18	7.56	N/A	N/A	N/A	N/A	N/A	N/A
295	2.75	5.11	7.47	N/A	N/A	N/A	N/A	N/A	N/A
290	2.7	5.05	7.38	N/A	N/A	N/A	N/A	N/A	N/A
285	2.66	4.98	7.3	N/A	N/A	N/A	N/A	N/A	N/A
280	2.62	4.92	7.21	N/A	N/A	N/A	N/A	N/A	N/A
275	2.57	4.85	7.12	N/A	N/A	N/A	N/A	N/A	N/A
270	2.53	4.79	7.04	N/A	N/A	N/A	N/A	N/A	N/A
265	2.49	4.72	6.95	N/A	N/A	N/A	N/A	N/A	N/A
260	2.44	4.65	6.86	N/A	N/A	N/A	N/A	N/A	N/A
255	2.4	4.59	6.78	N/A	N/A	N/A	N/A	N/A	N/A
250	2.36	4.53	6.69	N/A	N/A	N/A	N/A	N/A	N/A
245	2.31	4.47	6.6	N/A	N/A	N/A	N/A	N/A	N/A
240	2.27	4.41	6.51	N/A	N/A	N/A	N/A	N/A	N/A
235	2.23	4.35	6.42	N/A	N/A	N/A	N/A	N/A	N/A
230	2.19	4.27	6.34	8.42	10.30	12.17	N/A	N/A	N/A
225	2.15	4.21	6.25	8.30	10.19	12.04	N/A	N/A	N/A
220	2.1	4.1	6.09	8.18	10.08	11.91	N/A	N/A	N/A
215	2.06	4.01	5.96	8.05	10.18	12.29	N/A	N/A	N/A
210	2.02	3.93	5.84	7.93	10.07	12.20	N/A	N/A	N/A
205	1.97	3.84	5.71	7.81	9.96	12.11	N/A	N/A	N/A
200	1.93	3.78	5.63	7.68	9.85	12.01	N/A	N/A	N/A
195	1.89	3.71	5.55	7.56	9.74	11.92	N/A	N/A	N/A
190	1.84	3.63	5.43	7.44	9.64	11.83	N/A	N/A	N/A
185	1.8	3.5	5.2	7.32	9.53	11.74	N/A	N/A	N/A
180	1.75	3.42	5.08	7.19	9.42	11.64	N/A	N/A	N/A

Required Thickness (mm)									
Hp/A	Rating Period (min)								
	30	45	60	90	120	150	180	210	240
303	4.84	4.84	6.0	N/A	N/A	N/A	N/A	N/A	N/A
223	3.4	3.61	4.06	6.76	10.04	N/A	N/A	N/A	N/A
167	2.46	2.51	3.65	5.93	8.21	N/A	N/A	N/A	N/A
165	N/A	2.47	3.60	5.87	8.13	N/A	N/A	N/A	N/A
160	N/A	2.36	3.48	5.72	7.94	N/A	N/A	N/A	N/A
155	N/A	2.25	3.35	5.57	7.75	N/A	N/A	N/A	N/A
150	N/A	2.14	3.23	5.42	7.55	N/A	N/A	N/A	N/A
145	N/A	2.03	3.11	5.26	7.36	N/A	N/A	N/A	N/A
140	N/A	1.92	2.96	5.11	7.17	N/A	N/A	N/A	N/A
135	N/A	1.81	2.86	4.96	6.98	N/A	N/A	N/A	N/A
130	N/A	1.70	2.73	4.81	6.79	N/A	N/A	N/A	N/A
125	N/A	1.58	2.61	4.66	6.60	N/A	N/A	N/A	