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UL Product iQ®



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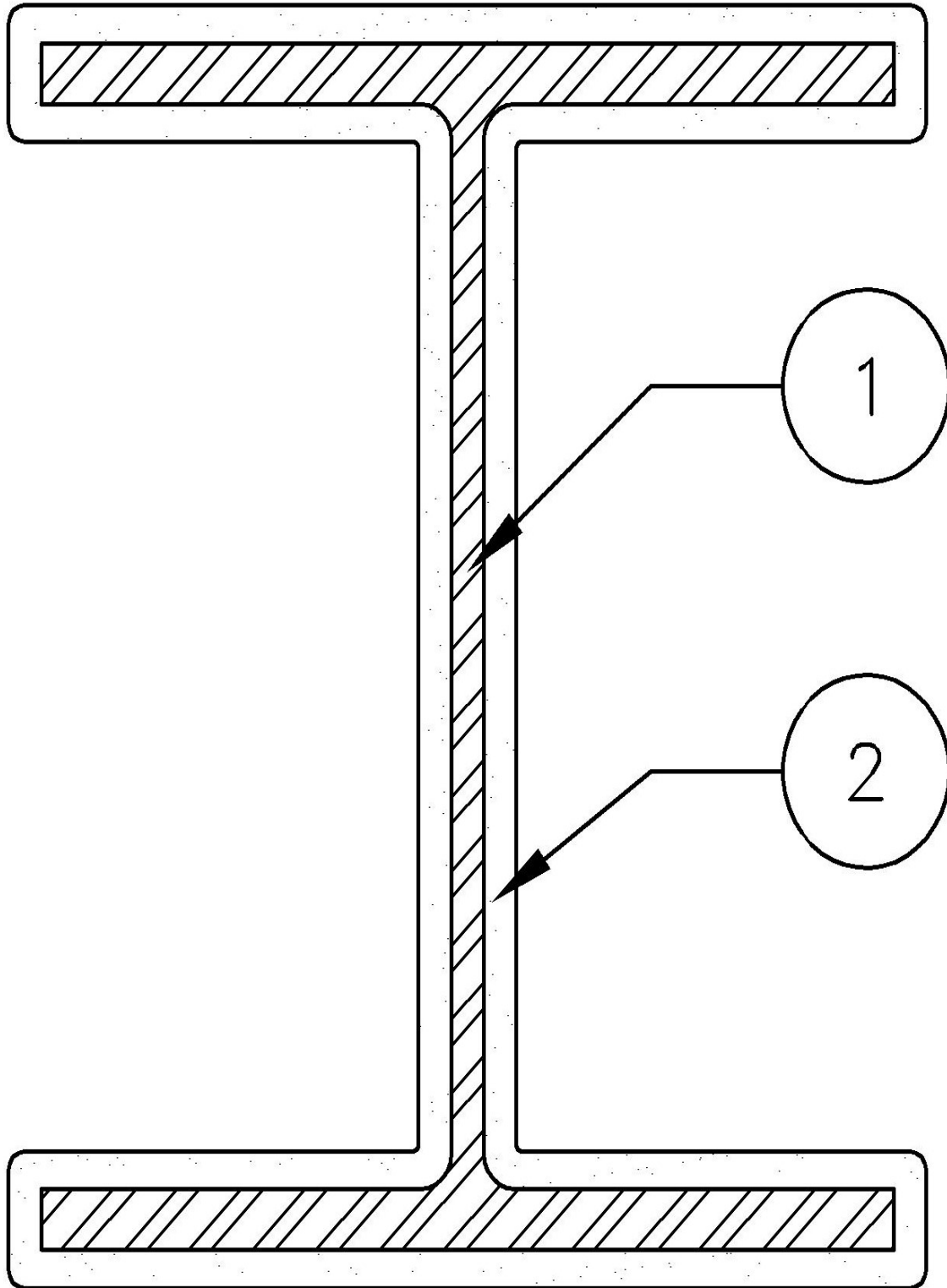
[Design Criteria and Allowable Variances](#)

Design No. Y677

August 22, 2025

Ratings - 1/2, 3/4, 1, 1-1/2, 2, 2-1/2, 3 and 3-1/2 Hr. (See Item 2)

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**



1. **Steel Column** — Wide flange steel columns with the minimum sizes shown in the tables below.

2. **Mastic & Intumescent Coating*** — Coating spray or brush applied in accordance with the manufacturer's instructions at the minimum average dry thickness shown in the table below.

As an alternate to the table below, the required thickness of coating (in mm) to be applied to surfaces of Wide-Flange columns may be determined from the equations listed below. The equations may only be used for the indicated hourly rating, and for the corresponding listed ranges of thickness and H_p/A .

Hourly Rating	Thickness Equation (mm)	Thickness Range (mm)	Hp/A Section Factor Range
1	$T = ((0.0008 * Hp/A) + 3.5825)$	3.92 - 3.83	406 - 298
1	$T = ((0.0142 * Hp/A) - 0.4131)$	3.83 - 1.86	298 - 160
1	$T = ((0.0131 * Hp/A) - 0.225)$	1.86 - 0.47	160 - 53
2	$T = ((0.0283 * Hp/A) + 0.5201)$	8.94 - 2.02	298 - 53

Size	W/D	Required Thickness (inches)							
		Rating Period (hr)							
		1/2	3/4	1	1-1/2	2	2-1/2	3	3-1/2
W8x10	0.33	0.063	0.109	0.154	N/A	N/A	N/A	N/A	N/A
W6x9	0.34	0.061	0.107	0.153	N/A	N/A	N/A	N/A	N/A
W10x12	0.35	0.059	0.106	0.153	N/A	N/A	N/A	N/A	N/A
W12x14	0.36	0.058	0.106	0.153	N/A	N/A	N/A	N/A	N/A
W12x16	0.41	0.053	0.102	0.151	N/A	N/A	N/A	N/A	N/A
W8x13	0.42	0.052	0.102	0.151	N/A	N/A	N/A	N/A	N/A
W10x15	0.43	0.051	0.101	0.151	N/A	N/A	N/A	N/A	N/A
W6x15	0.43	0.051	0.101	0.151	N/A	N/A	N/A	N/A	N/A
W6x12	0.45	0.05	0.1	0.151	0.251	0.352	N/A	N/A	N/A
W10x17	0.48	0.049	0.092	0.140	0.235	0.332	N/A	N/A	N/A
W14x22	0.48	0.049	0.092	0.140	0.235	0.332	N/A	N/A	N/A
W8x15	0.48	0.049	0.092	0.140	0.235	0.332	N/A	N/A	N/A
W12x19	0.49	0.049	0.09	0.137	0.230	0.325	N/A	N/A	N/A
W16x26	0.5	0.049	0.088	0.134	0.226	0.319	N/A	N/A	N/A
W8x18	0.5	0.049	0.088	0.134	0.226	0.319	N/A	N/A	N/A
W10x22	0.52	0.048	0.084	0.128	0.217	0.308	N/A	N/A	N/A
W12x26	0.53	0.048	0.082	0.125	0.213	0.302	N/A	N/A	N/A
W10x19	0.54	0.048	0.08	0.122	0.209	0.297	N/A	N/A	N/A
W5x16	0.55	0.048	0.078	0.120	0.205	0.292	N/A	N/A	N/A
W12x22	0.56	0.048	0.076	0.118	0.201	0.287	N/A	N/A	N/A
W14X26	0.56	0.048	0.076	0.118	0.201	0.287	N/A	N/A	N/A
W14x30	0.56	0.048	0.076	0.118	0.201	0.287	N/A	N/A	N/A
W4x13	0.56	0.048	0.076	0.118	0.201	0.287	N/A	N/A	N/A
W6x20	0.56	0.048	0.076	0.118	0.201	0.287	N/A	N/A	N/A

W6x16	0.58	0.047	0.073	0.113	0.194	0.278	N/A	N/A	N/A
W8x21	0.58	0.047	0.073	0.113	0.194	0.278	N/A	N/A	N/A
W16x31	0.59	0.047	0.071	0.111	0.191	0.274	N/A	N/A	N/A
W8x24	0.59	0.047	0.071	0.111	0.191	0.274	N/A	N/A	N/A
W18x35	0.6	0.047	0.07	0.109	0.188	0.269	N/A	N/A	N/A
W10x26	0.61	0.047	0.068	0.107	0.184	0.265	N/A	N/A	N/A
W12x30	0.61	0.047	0.068	0.107	0.184	0.265	N/A	N/A	N/A
W16x36	0.62	0.047	0.067	0.105	0.181	0.261	N/A	N/A	N/A
W14x34	0.63	0.046	0.065	0.103	0.179	0.257	N/A	N/A	N/A
W5x19	0.64	0.046	0.064	0.101	0.176	0.254	N/A	N/A	N/A
W10x33	0.66	0.046	0.061	0.097	0.170	0.247	N/A	N/A	N/A
W21x44	0.67	0.046	0.06	0.096	0.168	0.243	N/A	N/A	N/A
W8x31	0.67	0.046	0.06	0.096	0.168	0.243	N/A	N/A	N/A
W16x40	0.69	0.046	0.058	0.092	0.163	0.237	N/A	N/A	N/A
W18x40	0.69	0.046	0.058	0.092	0.163	0.237	N/A	N/A	N/A
W8x28	0.69	0.046	0.058	0.092	0.163	0.237	N/A	N/A	N/A
W10x30	0.7	0.046	0.057	0.091	0.160	0.234	N/A	N/A	N/A
W12x35	0.7	0.046	0.057	0.091	0.160	0.234	N/A	N/A	N/A
W6x25	0.7	0.046	0.057	0.091	0.160	0.234	N/A	N/A	N/A
W14x38	0.71	0.045	0.056	0.089	0.158	0.231	N/A	N/A	N/A
W12x40	0.73	0.045	0.054	0.086	0.154	0.225	N/A	N/A	N/A
W14x43	0.75	0.045	0.052	0.084	0.149	0.220	N/A	N/A	N/A
W21x50	0.75	0.045	0.052	0.084	0.149	0.220	N/A	N/A	N/A
W24x55	0.75	0.045	0.052	0.084	0.149	0.220	N/A	N/A	N/A
W8x35	0.75	0.045	0.052	0.084	0.149	0.220	N/A	N/A	N/A
W16x45	0.77	0.045	0.05	0.081	0.145	0.214	N/A	N/A	N/A
W10x39	0.78	0.045	0.049	0.080	0.144	0.212	N/A	N/A	N/A
W18x50	0.78	0.045	0.049	0.080	0.144	0.212	N/A	N/A	N/A
W18x46	0.79	0.045	0.048	0.079	0.142	0.209	N/A	N/A	N/A
W12x45	0.83	0.044	0.045	0.074	0.135	0.200	N/A	N/A	N/A
W10x49	0.84	0.044	0.044	0.073	0.133	0.198	N/A	N/A	N/A
W14x48	0.84	0.044	0.044	0.073	0.133	0.198	N/A	N/A	N/A
W24x62	0.84	0.044	0.044	0.073	0.133	0.198	N/A	N/A	N/A
W24x68	0.84	0.044	0.044	0.073	0.133	0.198	N/A	N/A	N/A
W16x50	0.85	0.044	0.044	0.072	0.132	0.196	N/A	N/A	N/A

W18x55	0.85	0.044	0.044	0.072	0.132	0.196	N/A	N/A	N/A
W21x62	0.85	0.044	0.044	0.072	0.132	0.196	N/A	N/A	N/A
W8x40	0.85	0.044	0.044	0.072	0.132	0.196	N/A	N/A	N/A
W12x53	0.86	0.043	0.043	0.072	0.130	0.194	N/A	N/A	N/A
W21x57	0.86	0.043	0.043	0.072	0.130	0.194	N/A	N/A	N/A
W10x45	0.89	0.042	0.042	0.069	0.126	0.188	N/A	N/A	N/A
W12x50	0.91	0.041	0.041	0.067	0.123	0.185	N/A	N/A	N/A
W10x54	0.92	0.041	0.041	0.066	0.122	0.183	N/A	N/A	N/A
W14x53	0.92	0.041	0.041	0.066	0.122	0.183	N/A	N/A	N/A
W18x60	0.92	0.041	0.041	0.066	0.122	0.183	N/A	N/A	N/A
W27x84	0.92	0.041	0.041	0.066	0.122	0.183	N/A	N/A	N/A
W12x58	0.93	0.04	0.04	0.065	0.121	0.181	N/A	N/A	N/A
W12x65	0.93	0.04	0.04	0.065	0.121	0.181	N/A	N/A	N/A
W14x61	0.93	0.04	0.04	0.065	0.121	0.181	N/A	N/A	N/A
W21x68	0.93	0.04	0.04	0.065	0.121	0.181	N/A	N/A	N/A
W24x76	0.93	0.04	0.04	0.065	0.121	0.181	N/A	N/A	N/A
W16x67	0.94	0.04	0.04	0.065	0.119	0.179	N/A	N/A	N/A
W16x57	0.96	0.039	0.039	0.063	0.117	0.176	N/A	N/A	N/A
W18x76	0.97	0.039	0.039	0.062	0.116	0.174	N/A	N/A	N/A
W21x73	0.99	0.038	0.038	0.061	0.114	0.171	N/A	N/A	N/A
W18x65	1	0.038	0.038	0.060	0.113	0.170	N/A	N/A	N/A
W30x99	1	0.038	0.038	0.060	0.113	0.170	N/A	N/A	N/A
W8x48	1	0.038	0.038	0.060	0.113	0.170	N/A	N/A	N/A
W10x60	1.01	0.038	0.038	0.060	0.112	0.168	N/A	N/A	N/A
W12x72	1.02	0.037	0.037	0.059	0.111	0.167	N/A	N/A	N/A
W24x84	1.02	0.037	0.037	0.059	0.111	0.167	N/A	N/A	N/A
W27x94	1.03	0.037	0.037	0.058	0.109	0.165	N/A	N/A	N/A
W14x68	1.04	0.037	0.037	0.058	0.108	0.164	N/A	N/A	N/A
W16x77	1.07	0.036	0.036	0.056	0.106	0.160	N/A	N/A	N/A
W24x104	1.07	0.036	0.036	0.056	0.106	0.160	N/A	N/A	N/A
W14x90	1.08	0.036	0.036	0.055	0.105	0.159	N/A	N/A	N/A
W18x71	1.08	0.036	0.036	0.055	0.105	0.159	N/A	N/A	N/A
W33x118	1.08	0.036	0.036	0.055	0.105	0.159	N/A	N/A	N/A
W18x86	1.09	0.035	0.035	0.055	0.104	0.157	N/A	N/A	N/A
W30x108	1.09	0.035	0.035	0.055	0.104	0.157	N/A	N/A	N/A

W12x79	1.11	0.035	0.035	0.053	0.102	0.155	N/A	N/A	N/A
W27x102	1.11	0.035	0.035	0.053	0.102	0.155	N/A	N/A	N/A
W14x74	1.12	0.034	0.034	0.053	0.101	0.154	N/A	N/A	N/A
W21x83	1.12	0.034	0.034	0.053	0.101	0.154	N/A	N/A	N/A
W21x101	1.13	0.034	0.034	0.052	0.100	0.153	N/A	N/A	N/A
W24x94	1.14	0.034	0.034	0.052	0.099	0.151	N/A	N/A	N/A
W10x68	1.15	0.034	0.034	0.051	0.099	0.150	N/A	N/A	N/A
W36x135	1.15	0.034	0.034	0.051	0.099	0.150	N/A	N/A	N/A
W30x116	1.16	0.033	0.033	0.051	0.098	0.149	N/A	N/A	N/A
W14x99	1.18	0.033	0.033	0.050	0.096	0.147	N/A	N/A	N/A
W33x130	1.18	0.033	0.033	0.050	0.096	0.147	N/A	N/A	N/A
W24x117	1.2	0.033	0.033	0.049	0.095	0.145	N/A	N/A	N/A
W8x58	1.2	0.033	0.033	0.049	0.095	0.145	N/A	N/A	N/A
W12x87	1.22	0.032	0.032	0.048	0.093	0.143	N/A	N/A	N/A
W16x89	1.22	0.032	0.032	0.048	0.093	0.143	N/A	N/A	N/A
W18x97	1.22	0.032	0.032	0.048	0.093	0.143	N/A	N/A	N/A
W14x82	1.23	0.032	0.032	0.047	0.093	0.142	N/A	N/A	N/A
W27x114	1.23	0.032	0.032	0.047	0.093	0.142	N/A	N/A	N/A
W21x111	1.24	0.032	0.032	0.047	0.092	0.141	N/A	N/A	N/A
W21x93	1.24	0.032	0.032	0.047	0.092	0.141	N/A	N/A	N/A
W30x124	1.24	0.032	0.032	0.047	0.092	0.141	N/A	N/A	N/A
W10x77	1.28	0.031	0.031	0.045	0.089	0.137	N/A	N/A	N/A
W33x141	1.28	0.031	0.031	0.045	0.089	0.137	N/A	N/A	N/A
W36x150	1.28	0.031	0.031	0.045	0.089	0.137	N/A	N/A	N/A
W14x109	1.29	0.031	0.031	0.045	0.089	0.136	N/A	N/A	N/A
W30x132	1.32	0.03	0.03	0.043	0.087	0.134	N/A	N/A	N/A
W18x106	1.33	0.03	0.03	0.043	0.086	0.133	N/A	N/A	N/A
W24x131	1.33	0.03	0.03	0.043	0.086	0.133	N/A	N/A	N/A
W12x96	1.34	0.03	0.03	0.043	0.085	0.132	N/A	N/A	N/A
W21x122	1.35	0.03	0.03	0.042	0.085	0.131	N/A	N/A	N/A
W27x146	1.35	0.03	0.03	0.042	0.085	0.131	N/A	N/A	N/A
W36x160	1.36	0.029	0.029	0.042	0.084	0.130	N/A	N/A	N/A
W16x100	1.37	0.029	0.029	0.042	0.084	0.129	N/A	N/A	N/A
W33x152	1.37	0.029	0.029	0.042	0.084	0.129	N/A	N/A	N/A
W8x67	1.37	0.029	0.029	0.042	0.084	0.129	N/A	N/A	N/A

W14x120	1.42	0.028	0.028	0.040	0.081	0.126	N/A	N/A	N/A
W36x170	1.44	0.028	0.028	0.039	0.080	0.124	N/A	N/A	N/A
W10x88	1.45	0.028	0.028	0.039	0.079	0.123	N/A	N/A	N/A
W21x132	1.45	0.028	0.028	0.039	0.079	0.123	N/A	N/A	N/A
W30x173	1.45	0.028	0.028	0.039	0.079	0.123	N/A	N/A	N/A
W12x106	1.47	0.028	0.028	0.038	0.078	0.122	N/A	N/A	N/A
W18x119	1.48	0.027	0.027	0.038	0.078	0.121	N/A	N/A	N/A
W24x146	1.48	0.027	0.027	0.038	0.078	0.121	N/A	N/A	N/A
W27x161	1.48	0.027	0.027	0.038	0.078	0.121	N/A	N/A	N/A
W36x182	1.53	0.027	0.027	0.036	0.076	0.118	N/A	N/A	N/A
W14x132	1.56	0.026	0.026	0.035	0.074	0.116	N/A	N/A	N/A
W33x201	1.58	0.026	0.026	0.035	0.073	0.115	N/A	N/A	N/A
W21x147	1.61	0.026	0.026	0.034	0.072	0.113	N/A	N/A	N/A
W30x191	1.62	0.026	0.026	0.034	0.072	0.113	N/A	N/A	N/A
W24x162	1.63	0.025	0.025	0.034	0.071	0.112	N/A	N/A	N/A
W27x178	1.63	0.025	0.025	0.034	0.071	0.112	N/A	N/A	N/A
W36x194	1.63	0.025	0.025	0.034	0.071	0.112	N/A	N/A	N/A
W10x100	1.64	0.025	0.025	0.033	0.071	0.112	N/A	N/A	N/A
W14x145	1.64	0.025	0.025	0.033	0.071	0.112	N/A	N/A	N/A
W12x120	1.65	0.025	0.025	0.033	0.070	0.111	N/A	N/A	N/A
W36x230	1.72	0.024	0.024	0.031	0.068	0.107	N/A	N/A	N/A
W33x221	1.73	0.024	0.024	0.031	0.067	0.107	N/A	N/A	N/A
W30x211	1.76	0.024	0.024	0.030	0.066	0.105	N/A	N/A	N/A
W36x210	1.76	0.024	0.024	0.030	0.066	0.105	N/A	N/A	N/A
W14x159	1.78	0.024	0.024	0.030	0.066	0.104	N/A	N/A	N/A
W10x112	1.81	0.023	0.023	0.029	0.065	0.103	N/A	N/A	N/A
W36x245	1.81	0.023	0.023	0.029	0.065	0.103	N/A	N/A	N/A
W12x136	1.86	0.023	0.023	0.028	0.063	0.101	N/A	N/A	N/A
W33x241	1.87	0.023	0.023	0.028	0.063	0.100	N/A	N/A	N/A
W36x260	1.93	0.022	0.022	0.027	0.061	0.098	N/A	N/A	N/A
W14x176	1.96	0.022	0.022	0.026	0.060	0.097	N/A	N/A	N/A
W12x152	2.04	0.021	0.021	0.025	0.058	0.094	N/A	N/A	N/A
W36x280	2.06	0.021	0.021	0.025	0.057	0.093	N/A	N/A	N/A
W14x193	2.14	0.021	0.021	0.023	0.056	0.090	N/A	N/A	N/A
W36x300	2.21	0.02	0.02	0.022	0.054	0.088	N/A	N/A	N/A

W12x170	2.26	0.02	0.02	0.022	0.053	0.087	N/A	N/A	N/A
W14x211	2.32	0.02	0.02	0.021	0.052	0.085	N/A	N/A	N/A
W12x190	2.5	0.019	0.019	0.019	0.048	0.080	N/A	N/A	N/A
W14x233	2.55	0.018	0.018	0.019	0.048	0.080	0.111	0.143	0.175

Hp/A	Required Thickness (mm)							
	Rating Period (hr)							
	1/2	3/4	1	1-1/2	2	2-1/2	3	3-1/2
406	1.6	2.76	3.92	N/A	N/A	N/A	N/A	N/A
400	1.56	2.73	3.9	N/A	N/A	N/A	N/A	N/A
395	1.55	2.72	3.9	N/A	N/A	N/A	N/A	N/A
390	1.53	2.71	3.89	N/A	N/A	N/A	N/A	N/A
385	1.52	2.7	3.89	N/A	N/A	N/A	N/A	N/A
380	1.5	2.69	3.89	N/A	N/A	N/A	N/A	N/A
375	1.49	2.69	3.88	N/A	N/A	N/A	N/A	N/A
370	1.47	2.68	3.88	N/A	N/A	N/A	N/A	N/A
365	1.46	2.67	3.87	N/A	N/A	N/A	N/A	N/A
360	1.44	2.66	3.87	N/A	N/A	N/A	N/A	N/A
355	1.43	2.65	3.87	N/A	N/A	N/A	N/A	N/A
350	1.41	2.64	3.86	N/A	N/A	N/A	N/A	N/A
345	1.4	2.63	3.86	N/A	N/A	N/A	N/A	N/A
340	1.38	2.62	3.85	N/A	N/A	N/A	N/A	N/A
335	1.37	2.61	3.85	N/A	N/A	N/A	N/A	N/A
330	1.35	2.6	3.85	N/A	N/A	N/A	N/A	N/A
325	1.34	2.59	3.84	N/A	N/A	N/A	N/A	N/A
320	1.32	2.58	3.84	N/A	N/A	N/A	N/A	N/A
315	1.31	2.57	3.83	N/A	N/A	N/A	N/A	N/A
310	1.29	2.56	3.83	N/A	N/A	N/A	N/A	N/A
305	1.28	2.55	3.83	N/A	N/A	N/A	N/A	N/A
300	1.28	2.55	3.82	N/A	N/A	N/A	N/A	N/A
295	1.27	2.51	3.78	6.32	8.87	N/A	N/A	N/A
290	1.27	2.46	3.7	6.21	8.73	N/A	N/A	N/A
285	1.26	2.41	3.63	6.10	8.59	N/A	N/A	N/A

280	1.25	2.35	3.56	5.99	8.44	N/A	N/A	N/A
275	1.25	2.3	3.49	5.89	8.30	N/A	N/A	N/A
270	1.24	2.25	3.42	5.78	8.16	N/A	N/A	N/A
265	1.24	2.2	3.35	5.67	8.02	N/A	N/A	N/A
260	1.23	2.15	3.28	5.56	7.88	N/A	N/A	N/A
255	1.23	2.1	3.21	5.45	7.74	N/A	N/A	N/A
250	1.22	2.05	3.14	5.34	7.60	N/A	N/A	N/A
245	1.22	1.99	3.07	5.24	7.45	N/A	N/A	N/A
240	1.21	1.94	2.99	5.13	7.31	N/A	N/A	N/A
235	1.21	1.89	2.92	5.02	7.17	N/A	N/A	N/A
230	1.2	1.84	2.85	4.91	7.03	N/A	N/A	N/A
225	1.19	1.79	2.78	4.80	6.89	N/A	N/A	N/A
220	1.19	1.74	2.71	4.69	6.75	N/A	N/A	N/A
215	1.18	1.68	2.64	4.58	6.60	N/A	N/A	N/A
210	1.18	1.63	2.57	4.48	6.46	N/A	N/A	N/A
205	1.17	1.58	2.5	4.37	6.32	N/A	N/A	N/A
200	1.17	1.53	2.43	4.26	6.18	N/A	N/A	N/A
195	1.16	1.48	2.36	4.15	6.04	N/A	N/A	N/A
190	1.16	1.43	2.28	4.04	5.90	N/A	N/A	N/A
185	1.15	1.38	2.21	3.93	5.76	N/A	N/A	N/A
180	1.14	1.32	2.14	3.82	5.61	N/A	N/A	N/A
175	1.14	1.27	2.07	3.72	5.47	N/A	N/A	N/A
170	1.13	1.22	2	3.61	5.33	N/A	N/A	N/A
165	1.13	1.17	1.93	3.50	5.19	N/A	N/A	N/A
160	1.12	1.12	1.86	3.38	5.04	N/A	N/A	N/A
155	1.09	1.09	1.81	3.29	4.91	N/A	N/A	N/A
150	1.06	1.06	1.74	3.19	4.77	N/A	N/A	N/A
145	1.03	1.03	1.67	3.08	4.62	N/A	N/A	N/A
140	1	1	1.61	2.98	4.48	N/A	N/A	N/A
135	0.97	0.97	1.54	2.88	4.34	N/A	N/A	N/A
130	0.94	0.94	1.48	2.78	4.20	N/A	N/A	N/A
125	0.91	0.91	1.41	2.68	4.06	N/A	N/A	N/A
120	0.88	0.88	1.35	2.58	3.92	N/A	N/A	N/A
115	0.85	0.85	1.28	2.47	3.77	N/A	N/A	N/A
110	0.82	0.82	1.22	2.37	3.63	N/A	N/A	N/A

105	0.79	0.79	1.15	2.27	3.49	N/A	N/A	N/A
100	0.76	0.76	1.09	2.17	3.35	N/A	N/A	N/A
95	0.72	0.72	1.02	2.07	3.21	N/A	N/A	N/A
90	0.69	0.69	0.95	1.97	3.07	N/A	N/A	N/A
85	0.66	0.66	0.89	1.87	2.93	N/A	N/A	N/A
80	0.63	0.63	0.82	1.76	2.78	N/A	N/A	N/A
75	0.6	0.6	0.76	1.66	2.64	N/A	N/A	N/A
70	0.57	0.57	0.69	1.56	2.50	N/A	N/A	N/A
65	0.54	0.54	0.63	1.46	2.36	N/A	N/A	N/A
60	0.51	0.51	0.56	1.36	2.22	N/A	N/A	N/A
55	0.48	0.48	0.5	1.26	2.08	N/A	N/A	N/A
53	0.47	0.47	0.47	1.22	2.02	2.83	3.63	4.44

CARBOLINE GLOBAL INC — Thermo-Sorb HB, INVESTIGATED FOR INTERIOR GENERAL PURPOSE, INTERIOR CONDITIONED SPACE and EXTERIOR ENVIRONMENTAL

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