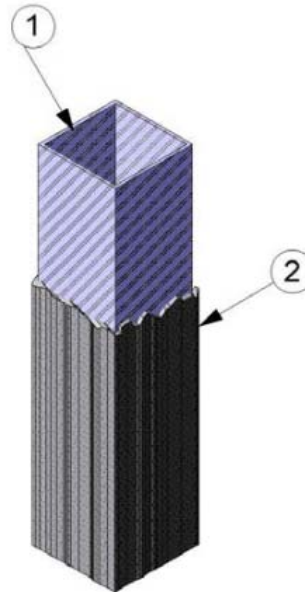

Carboline Company
Design No. CC/IF 180-03
Column
Thermo-Lag E100 and Thermo-Lag E100 S
ASTM E119
CAN/ULC S101
Rating: See Table CC/IF 180-03



1. HOLLOW STRUCTURAL STEEL COLUMN: Use hollow steel sections, rectangular-shape (shown) or circular-shape (not shown), having nominal H_p/A or W/D , or A/P section factors based on four-sided exposure. Refer to Table CC/IF 180-03 for specific application thickness of intumescent mastic fireproofing (Item 2) based on nominal H_p/A , W/D , or A/P section factors.

2. CERTIFIED MANUFACTURER: Carboline Company

CERTIFIED PRODUCT: Fire-Resistive Coating

CERTIFIED MODEL: Thermo-Lag E100 and Thermo-Lag E100 S

Intumescent Fireproofing: Spray or paint in one or more coats according to manufacturer's instructions to required final thickness



Table CC/IF 180-03											
HP/A	W/D	60 min.		90 min.		120 min.		150 min.		180 min.	
		1/m	lb/ft/in	mm	in	mm	in	mm	in	mm	in
22	6.08	0.6	0.02	1.5	0.06	2.4	0.09	3.3	0.13	4.3	0.17
25	5.35	0.7	0.03	1.7	0.07	2.7	0.11	3.7	0.15	4.8	0.19
30	4.46	0.9	0.04	2.0	0.08	3.2	0.13	4.3	0.17	5.6	0.22
35	3.82	1.1	0.04	2.4	0.09	3.5	0.14	4.9	0.19	6.4	0.25
40	3.34	1.3	0.05	2.7	0.11	3.9	0.15	5.5	0.22	7.1	0.28
45	2.97	1.4	0.05	2.9	0.11	4.2	0.17	6.0	0.24	7.8	0.31
50	2.67	1.5	0.06	3.0	0.12	4.6	0.18	6.5	0.26	8.5	0.33
55	2.43	1.6	0.06	3.1	0.12	5.0	0.20	7.0	0.28	9.1	0.36
60	2.23	1.7	0.07	3.2	0.13	5.3	0.21	7.5	0.30	9.7	0.38
65	2.06	1.8	0.07	3.2	0.13	5.6	0.22	8.0	0.31	10.3	0.41
70	1.91	1.9	0.07	3.4	0.13	5.9	0.23	8.4	0.33	10.9	0.43
75	1.78	2.0	0.08	3.6	0.14	6.2	0.24	8.8	0.35	11.4	0.45
80	1.67	2.1	0.08	3.8	0.15	6.5	0.26	9.2	0.36	11.9	0.47
85	1.57	2.1	0.08	3.9	0.15	6.8	0.27	9.6	0.38	12.4	0.49
90	1.49	2.2	0.09	4.1	0.16	7.0	0.28	9.9	0.39	12.9	0.51
95	1.41	2.2	0.09	4.2	0.17	7.3	0.29	10.3	0.41	13.3	0.52
100	1.34	2.2	0.09	4.4	0.17	7.5	0.30	10.6	0.42	13.8	0.54
110	1.22	2.3	0.09	4.6	0.18	8.0	0.31	11.3	0.44	14.6	0.57
120	1.11	2.4	0.10	4.9	0.19	8.4	0.33	11.9	0.47	15.4	0.61
130	1.03	2.5	0.10	5.1	0.20	8.8	0.35	12.4	0.49	16.1	0.63
140	0.95	2.6	0.10	5.3	0.21	9.2	0.36	13.0	0.51	16.8	0.66
150	0.89	2.7	0.11	5.5	0.22	9.5	0.37	13.5	0.53	17.4	0.69
160	0.84	2.8	0.11	5.7	0.22	9.8	0.39	13.9	0.55	18.0	0.71
170	0.79	2.9	0.11	5.9	0.23	10.1	0.40	14.4	0.57	18.6	0.73
180	0.74	2.9	0.12	6.1	0.24	10.4	0.41	14.8	0.58	19.1	0.75
190	0.70	3.0	0.12	6.2	0.24	10.7	0.42	15.2	0.60	19.6	0.77
200	0.67	3.1	0.12	6.4	0.25	10.9	0.43	15.5	0.61		
210	0.64	3.2	0.13	6.5	0.26	11.2	0.44	15.9	0.63		

Note: A/P = W/D x 144/490

Consult the listing report on the Directory of Building Products (<https://bpdirectory.intertek.com>) for the edition of the standard(s) evaluated.