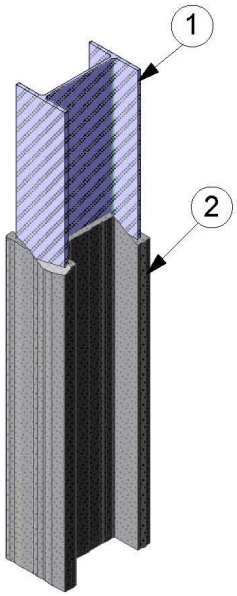
Carboline Global Inc.
Design No. CC/IF 180-02
Column
Thermo-Lag E100 and Thermo-Lag E100 S
ASTM E119
CAN/ULC S101-07
Rating: See Table CC/IF 180-02



1. **SOLID STRUCTURAL STEEL COLUMN:** Use solid steel sections, I-shape or W-shape, having nominal Hp/A, W/D, or A/P section factors based on four-sided exposure. Refer to Table CC/IF 180-02 for specific application thickness of intumescent fireproofing (Item 2A) based on nominal Hp/A, W/D, or A/P section factors.

2. **CERTIFIED MANUFACTURER:** Carboline Global Inc.

CERTIFIED PRODUCT: Fire-Resistive Coating

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

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

Table CC/IF 180-02											
HP/A	W/D	60 minutes		90 minutes		120 minutes		150 minutes		180 minutes	
1/m	lb/ft/in	mm	in	mm	in	mm	in	mm	in	mm	in
30	4.46	1.0	0.04	2.2	0.09	3.0	0.12	3.0	0.12	3.3	0.13
40	3.34	1.1	0.04	2.4	0.10	3.0	0.12	3.5	0.14	4.2	0.17
50	2.67	1.3	0.05	2.7	0.10	3.3	0.13	4.2	0.17	5.0	0.20
60	2.23	1.5	0.06	2.9	0.11	3.8	0.15	4.8	0.19	5.8	0.23
70	1.91	1.7	0.07	3.1	0.12	4.3	0.17	5.4	0.21	6.5	0.26
75	1.78	1.9	0.07	3.2	0.13	4.5	0.18	5.7	0.22	6.8	0.27
80	1.67	2.0	0.08	3.4	0.13	4.7	0.19	5.9	0.23	7.2	0.28
85	1.57	2.1	0.08	3.5	0.14	4.9	0.19	6.2	0.24	7.5	0.30
90	1.49	2.2	0.08	3.6	0.14	5.1	0.20	6.5	0.26	7.8	0.31
95	1.41	2.2	0.09	3.7	0.15	5.3	0.21	6.7	0.26	8.1	0.32
100	1.34	2.3	0.09	3.8	0.15	5.5	0.22	6.9	0.27	8.4	0.33
110	1.22	2.5	0.10	4.1	0.16	5.9	0.23	7.4	0.29	8.9	0.35
120	1.11	2.7	0.11	4.3	0.17	6.2	0.24	7.8	0.31	9.4	0.37
130	1.03	2.9	0.11	4.6	0.18	6.5	0.26	8.2	0.32	9.9	0.39
140	0.95	3.0	0.12	4.8	0.19	6.8	0.27	8.6	0.34	10.3	0.41
150	0.89	3.2	0.13	5.0	0.20	7.1	0.28	8.9	0.35	10.7	0.42
160	0.84	3.4	0.13	5.3	0.21	7.3	0.29	9.2	0.36	11.2	0.44
170	0.79	3.7	0.15	5.6	0.22	7.4	0.29	9.5	0.37	11.6	0.46
180	0.74	3.9	0.15	5.8	0.23	7.7	0.30	9.8	0.39	12.0	0.47
190	0.7	4.0	0.16	6.0	0.24	8.0	0.31	10.1	0.40	12.3	0.48
200	0.67	4.1	0.16	6.2	0.24	8.2	0.32	10.4	0.41	12.7	0.50
210	0.64	4.2	0.17	6.3	0.25	8.5	0.33	10.6	0.42	13.0	0.51
220	0.61	4.3	0.17	6.5	0.26	8.7	0.34	10.9	0.43	13.4	0.53
230	0.58	4.5	0.18	6.7	0.26	8.9	0.35	11.1	0.44	13.7	0.54
240	0.56	4.6	0.18	6.9	0.27	9.1	0.36	11.4	0.45	14.0	0.55
250	0.53	4.7	0.19	7.0	0.28	9.3	0.37	11.7	0.46	14.3	0.56
260	0.51	4.8	0.19	7.2	0.28	9.5	0.37	11.9	0.47	14.6	0.57
270	0.5	4.9	0.19	7.3	0.29	9.7	0.38	12.2	0.48	14.9	0.59
280	0.48	5.0	0.20	7.4	0.29	9.9	0.39	12.4	0.49	15.1	0.59
290	0.46	5.0	0.20	7.6	0.30	10.1	0.40	12.6	0.50	15.1	0.59
300	0.45	5.1	0.20	7.7	0.30	10.3	0.41	12.8	0.50	15.4	0.61
302	0.44	5.2	0.20	7.7	0.30	10.3	0.41	12.9	0.51	15.5	0.61

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.

Compliance of the assembly described in this Design Listing with the referenced standard relies on verification that the assembly constructed in the field is consistent with that described herein. Intertek certified products may be verified by the approved Intertek label; other products must be verified by the Authority Having Jurisdiction as meeting the specifications stated herein.