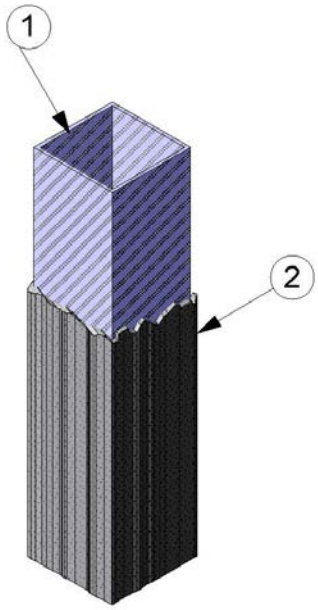
Carboline Company
CC/IF 180-03
Column
Thermo-Lag E100 and Thermo-Lag E100 S
ASTM E119-16
CAN/ULC S101-14
Assembly Rating – See Table CC/IF 180-03



1. **HOLLOW RECTANGULAR STRUCTURAL STEEL COLUMN –** Use hollow steel sections, rectangular-shape, having nominal Hp/A, 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 2B) based on nominal Hp/A or W/D section factors. This table is applicable for circular-shape hollow steel sections as well.

2. **FIRE-RESISTIVE COATING –** Refer to Table CC/IF 180-03 for specific application thickness of fire resistive coating.

CERTIFIED MANUFACTURER: Carboline Company

CERTIFIED PRODUCT: Fire-resistive Coating

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**	**mm**	**in**
22	6.08	3.2	0.13	3.2	0.13	3.2	0.13	3.3	0.13	4.3	0.17
25	5.35	3.2	0.13	3.2	0.13	3.2	0.13	3.7	0.15	4.8	0.19
30	4.46	3.2	0.13	3.2	0.13	3.2	0.13	4.3	0.17	5.6	0.22
35	3.82	3.2	0.13	3.2	0.13	3.5	0.14	4.9	0.19	6.4	0.25
40	3.34	3.2	0.13	3.2	0.13	3.9	0.15	5.5	0.22	7.1	0.28
45	2.97	3.2	0.13	3.2	0.13	4.2	0.17	6.0	0.24	7.8	0.31
50	2.67	3.2	0.13	3.2	0.13	4.6	0.18	6.5	0.26	8.5	0.33
55	2.43	3.2	0.13	3.2	0.13	5.0	0.20	7.0	0.28	9.1	0.36
60	2.23	3.2	0.13	3.2	0.13	5.3	0.21	7.5	0.30	9.7	0.38
65	2.06	3.2	0.13	3.2	0.13	5.6	0.22	8.0	0.31	10.3	0.41
70	1.91	3.2	0.13	3.4	0.13	5.9	0.23	8.4	0.33	10.9	0.43
75	1.78	3.2	0.13	3.6	0.14	6.2	0.24	8.8	0.35	11.4	0.45
80	1.67	3.2	0.13	3.8	0.15	6.5	0.26	9.2	0.36	11.9	0.47
85	1.57	3.2	0.13	3.9	0.15	6.8	0.27	9.6	0.38	12.4	0.49
90	1.49	3.2	0.13	4.1	0.16	7.0	0.28	9.9	0.39	12.9	0.51
95	1.41	3.2	0.13	4.2	0.17	7.3	0.29	10.3	0.41	13.3	0.52
100	1.34	3.2	0.13	4.4	0.17	7.5	0.30	10.6	0.42	13.8	0.54
110	1.22	3.2	0.13	4.6	0.18	8.0	0.31	11.3	0.44	14.6	0.57
120	1.11	3.2	0.13	4.9	0.19	8.4	0.33	11.9	0.47	15.4	0.61
130	1.03	3.2	0.13	5.1	0.20	8.8	0.35	12.4	0.49	16.1	0.63
140	0.95	3.2	0.13	5.3	0.21	9.2	0.36	13.0	0.51	16.8	0.66
150	0.89	3.2	0.13	5.5	0.22	9.5	0.37	13.5	0.53	17.4	0.69
160	0.84	3.2	0.13	5.7	0.22	9.8	0.39	13.9	0.55	18.0	0.71
170	0.79	3.2	0.13	5.9	0.23	10.1	0.40	14.4	0.57	18.6	0.73
180	0.74	3.2	0.13	6.1	0.24	10.4	0.41	14.8	0.58	19.1	0.75
190	0.7	3.2	0.13	6.2	0.24	10.7	0.42	15.2	0.60	19.6	0.77
200	0.67	3.2	0.13	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		