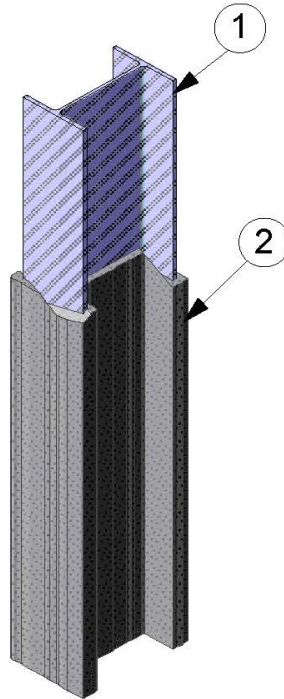

Carboline Global Inc.
Design No. CC/IF 120-02
Column
FireFilm IV
ASTM E-119-18a, UL 263 June 21, 2011, 14th Edition, CAN/ULC-S101-14
Rating: See Table CC/IF 120-02



1. SOLID STRUCTURAL STEEL COLUMN: Use solid steel sections, I-shape or W-shape, having nominal H_p/A or W/D section factors based on four-sided exposure. Prior to application of FireFilm IV (Item 1), column shall be prepared and coated with a compatible primer recommended by the manufacturer.

2. CERTIFIED MANUFACTURER: Carboline Global Inc.

CERTIFIED PRODUCT: Intumescent Fireproofing

CERTIFIED MODEL: FireFilm IV

Spray or paint in one or more coats according to manufacturer's instructions to the required thickness specified in Table CC/IF 120-02.



Table CC/IF 120-02

HP/A	W/D	60 minutes		90 minutes		120 minutes	
		mm	in.	mm	in.	mm	in.
30	4.466	0.43	0.017	0.85	0.033	1.28	0.050
40	3.349	0.54	0.021	1.08	0.043	1.62	0.064
45	2.977	0.59	0.023	1.19	0.047	1.78	0.070
50	2.679	0.64	0.025	1.29	0.051	1.93	0.076
60	2.233	0.74	0.029	1.48	0.058	2.22	0.087
70	1.914	0.83	0.033	1.66	0.065	2.48	0.098
80	1.675	0.91	0.036	1.82	0.072	2.73	0.107
90	1.489	0.91	0.036	1.94	0.076	2.98	0.117
100	1.340	1.03	0.040	2.09	0.082	3.16	0.124
110	1.218	1.14	0.045	2.22	0.087	3.30	0.130
120	1.116	1.24	0.049	2.33	0.092	3.42	0.135
130	1.031	1.32	0.052	2.42	0.095	3.52	0.139
140	0.957	1.39	0.055	2.50	0.098	3.61	0.142
150	0.893	1.45	0.057	2.57	0.101	3.69	0.145
160	0.837	1.50	0.059	2.63	0.104	3.77	0.148
162	0.827	1.51	0.059	2.67	0.105	3.83	0.151
165	0.812	1.52	0.060	2.72	0.107	3.92	0.154
170	0.788	1.54	0.061	2.80	0.110	4.06	0.160
175	0.766	1.56	0.061	2.88	0.113	4.20	0.165
180	0.744	1.57	0.062	2.95	0.116	4.33	0.170
185	0.724	1.59	0.063	3.02	0.119	4.45	0.175
190	0.705	1.60	0.063	3.08	0.121	4.56	0.180
195	0.687	1.62	0.064	3.14	0.124	4.67	0.184
200	0.670	1.63	0.064	3.20	0.126	4.77	0.188
205	0.654	1.65	0.065	3.26	0.128	4.87	0.192
220	0.609	1.61	0.063				
230	0.582	1.64	0.064				
240	0.558	1.67	0.066				
250	0.536	1.70	0.067				
260	0.515	1.72	0.068				
270	0.496	1.75	0.069				
280	0.478	1.77	0.070				
290	0.462	1.80	0.071				
300	0.447	1.82	0.072				
305	0.439	1.83	0.072				



07 80 00 Fire and Smoke Protection
07 81 00 Applied Fire Proofing
07 81 23 Intumescent Fireproofing

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.