

Contego International, Inc.
Design No. CII/IF 120-02
Column

High Solids (HS) Reactive Fire Barrier (RFB) Intumescent
ASTM E119/UL263/CAN-ULC-S101
Assembly Rating: See Table CII/IF 120-02

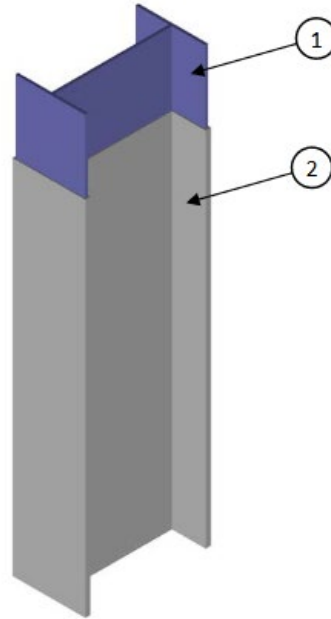


Figure 1

- 1. SOLID STRUCTURAL STEEL COLUMN:** Use solid steel sections, I-shape or W-shape, having nominal Hp/A or W/D section factors based on four-sided exposure. Refer to Table CII/IF 120-02 for specific Hp/A or W/D section factors.
- 2. FIRE RESISTIVE COATING:** Refer to Table CII/IF 120-02 for specific application thickness.

CERTIFIED MANUFACTURER: Contego International, Inc.

CERTIFIED PRODUCT: Fire Resistive Coating

CERTIFIED MODEL: High Solids (HS) Reactive Fire Barrier (RFB) Intumescent

APPLICATION: Blast and clean structural steel per the manufacturer's instructions. Apply 2-4 mils wet film thickness of Contego Rustex 710 primer (not shown) per the manufacturer's instructions. Apply High Solids (HS) Reactive Fire Barrier (RFB) Intumescent to primed steel to the required final dry coating thicknesses per the manufacturer's instructions.



Table CII/IF 120-02
Dry Coating Thickness and Fire Resistance Time in Minutes

Hp/A	W/D lb./in./ft.	60 min		90 min		120 min	
		mm	mils	mm	mils	mm	mils
45	2.98	0.41	16	0.89	35	1.39	55
50	2.68	0.41	16	0.96	38	1.50	59
55	2.44	0.45	18	1.02	40	1.61	63
60	2.23	0.50	19	1.09	43	1.72	68
65	2.06	0.54	21	1.16	46	1.83	72
70	1.91	0.58	23	1.22	48	1.94	76
75	1.79	0.63	25	1.29	51	2.05	81
80	1.67	0.67	27	1.36	54	2.16	85
85	1.58	0.72	28	1.43	56	2.27	89
90	1.49	0.76	30	1.49	59	2.38	94
95	1.41	0.81	32	1.56	61	2.49	98
100	1.34	0.85	34	1.63	64	2.60	102
105	1.28	0.90	35	1.70	67	2.71	107
110	1.22	0.94	37	1.76	69	2.82	111
115	1.17	0.99	39	1.83	72	2.93	116
120	1.12	1.03	41	1.90	75	3.04	120
125	1.07	1.08	42	1.96	77	3.16	124
130	1.03	1.12	44	2.03	80	3.27	129
135	0.99	1.17	46	2.10	83	3.38	133
140	0.96	1.21	48	2.17	85	3.49	137
145	0.92	1.26	49	2.23	88	3.60	142
150	0.89	1.30	51	2.30	91	3.71	146
155	0.86	1.35	53	2.37	93	3.82	150
160	0.84	1.39	55	2.44	96	3.93	155
165	0.81	1.44	57	2.50	99	4.04	159
170	0.79	1.48	58	2.57	101	4.15	163
175	0.77	1.53	60	2.64	104	4.26	168
180	0.74	1.57	62	2.70	106	4.37	172
185	0.72	1.62	64	2.77	109	4.48	176



Hp/A	W/D	60 min		90 min		120 min	
1/m	lb./in./ft.	mm	mils	mm	mils	mm	mils
190	0.71	1.66	65	2.84	112	4.59	181
195	0.69	1.71	67	2.91	114	4.70	185
200	0.67	1.75	69	2.97	117	4.81	190
205	0.65	1.79	71	3.04	120	4.92	194
210	0.64	1.84	72	3.11	122	5.04	198
215	0.62	1.88	74	3.18	125	5.15	203
220	0.61	1.93	76	3.24	128	5.26	207
225	0.60	1.97	78	3.31	130	5.37	211
230	0.58	2.01	79	3.38	133	5.46	215
235	0.57	2.04	80	3.45	136	5.54	218
240	0.56	2.07	81	3.51	138	5.62	221
245	0.55	2.10	83	3.58	141	5.71	225
250	0.54	2.13	84	3.65	144	5.79	228
255	0.53	2.16	85	3.71	146	5.88	231
260	0.52	2.19	86	3.78	149	5.96	235
265	0.51	2.22	87	3.85	152	6.04	238
270	0.50	2.25	89	3.92	154	6.13	241
275	0.49	2.28	90	3.98	157	6.21	245
280	0.48	2.31	91	4.05	159	6.29	248
285	0.47	2.34	92	4.12	162	6.38	251
290	0.46	2.37	93	4.19	165	6.46	254
295	0.45	2.40	95	4.25	167	6.55	258
300	0.45	2.43	96	4.32	170	6.63	261
305	0.44	2.46	97	4.39	173	6.71	264
310	0.43	2.50	98	4.45	175	6.80	268
315	0.43	2.53	99	4.52	178	6.88	271
320	0.42	2.56	101	4.59	181	6.97	274
325	0.41	2.59	102	4.66	183	7.05	278
330	0.41	2.62	103	4.72	186	7.13	281
335	0.40	2.65	104	4.79	189	7.22	284
340	0.39	2.68	105	4.86	191	7.30	287



Hp/A	W/D	60 min		90 min		120 min	
1/m	lb./in./ft.	mm	mils	mm	mils	mm	mils
345	0.39	2.71	107	4.93	194	7.39	291
350	0.38	2.74	108	4.99	197	7.47	294
355	0.38	2.77	109	5.06	199	7.55	297
360	0.37	2.80	110	5.13	202	7.64	301
365	0.37	2.83	111	5.19	205	7.72	304
370	0.36	2.86	113	5.26	207	7.81	307
375	0.36	2.89	114	5.33	210	7.89	311
380	0.35	2.92	115	5.40	212	7.97	314
385	0.35	2.95	116	5.46	215	8.06	317
390	0.34	2.98	117	5.53	218	8.14	321
395	0.34	3.01	119	5.60	220	8.23	324
400	0.33	3.04	120	5.67	223	8.31	327
405	0.33	3.08	121	5.73	226	8.39	330
410	0.33	3.11	122	5.80	228	8.48	334
415	0.32	3.14	123	5.87	231	8.56	337
420	0.32	3.17	125	5.94	234	8.65	340
425	0.32	3.20	126	6.00	236	8.73	344
430	0.31	3.23	127	6.07	239	8.81	347
435	0.31	3.26	128	6.14	242	8.90	350
440	0.30	3.29	129	6.20	244	8.98	354
445	0.30	3.32	131	6.27	247	9.07	357
450	0.30	3.35	132	6.34	250	9.15	360
455	0.29	3.38	133	6.41	252	9.23	363
460	0.29	3.41	134	6.47	255	9.32	367
465	0.29	3.44	135	6.54	258	9.40	370



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.