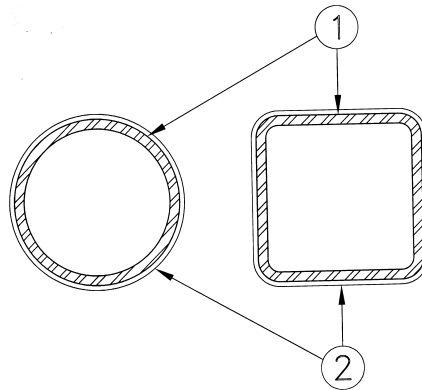


Design No. X650

Ratings - 1, 1-1/2, 2 and 3 Hr. (See Item 2)



1. **Steel Column** — Steel tube (ST) or steel pipe (SP) with the minimum sizes shown in the table below. Columns shall be free of dirt, loose scale and oil. Columns shall be primed with a phenolic modified alkyd resin primer.
2. **Mastic and Intumescent Coatings*** — Coating spray, brush or trowel applied directly from containers to desired thickness. See table below for appropriate final dry thickness and applicable rating.

FOR STEEL PIPE

Steel Size	A/P	Hp/A	1 Hr		1-1/2 Hr		2 Hr	
			in.	mm	in.	mm	in.	mm
SP 4.5 x 0.313	0.29	135	0.117	2.99	—	—	—	—
SP 8 x 0.875	0.79	49	0.097	2.46	0.097	2.46	0.120	3.05
SP 8.625 x 0.5	0.47	85	0.097	2.46	0.138	3.50	0.202	5.14

FOR SQUARE AND RECTANGULAR STEEL TUBE

Steel Size	A/P	Hp/A	1 Hr		1-1/2 Hr		2 Hr		3 Hr	
			in.	mm	in.	mm	in.	mm	in.	mm
ST3.5x3.5x3/16	0.18	224	0.165	4.18	—	—	—	—	—	—
ST5x3x1/4	0.23	169	0.104	2.65	0.252	6.39	0.400	10.15	—	—
ST5x3x5/16	0.29	135	0.084	2.13	0.218	5.54	0.353	8.96	—	—
ST8x6x3/8	0.35	114	0.074	1.87	0.173	4.40	0.280	7.12	—	—
ST8x6x7/16	0.41	100	0.074	1.87	0.151	3.84	0.244	6.21	—	—
ST5x3x1/2	0.44	93	0.074	1.87	0.127	3.23	0.207	5.27	—	—
ST8x8x1/2	0.47	85	0.074	1.87	0.095	2.41	0.164	4.17	0.327	8.31

BERLIN CO LTD —Type WB 3, Investigated for Interior General Purpose. Type WB 4, Investigated for Interior General Purpose. Type WB 4, Investigated for Exterior Use with top coat as described in Item 3.

ISOLATEK INTERNATIONAL —Type SprayFilm-WB 3 and Type WB 3, Investigated for Interior General Purpose. Type SprayFilm-WB 4 and Type WB 4, Investigated for Interior General Purpose. Type SprayFilm-WB 4 and Type WB 4, Investigated for Exterior Use with top coat as described in Item 3.

3. **Top Coat** — Type SprayFilm - TOPSEAL and Type TOPSEAL required for Exterior Use, applied at a minimum dry thickness of 14 mils (0.34 mm) over the intumescent material. See Classification information in the Mastic and Intumescent Coating (CDWZ) category, Isolatek International, for mixing requirements. Investigated for Interior General Purpose.

*Bearing the UL Classification Mark