BXUV.Y601
Fire Resistance Ratings - ANSI/UL 263

Page Bottom

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Listed or Classified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered as Classified, Listed, or Recognized.

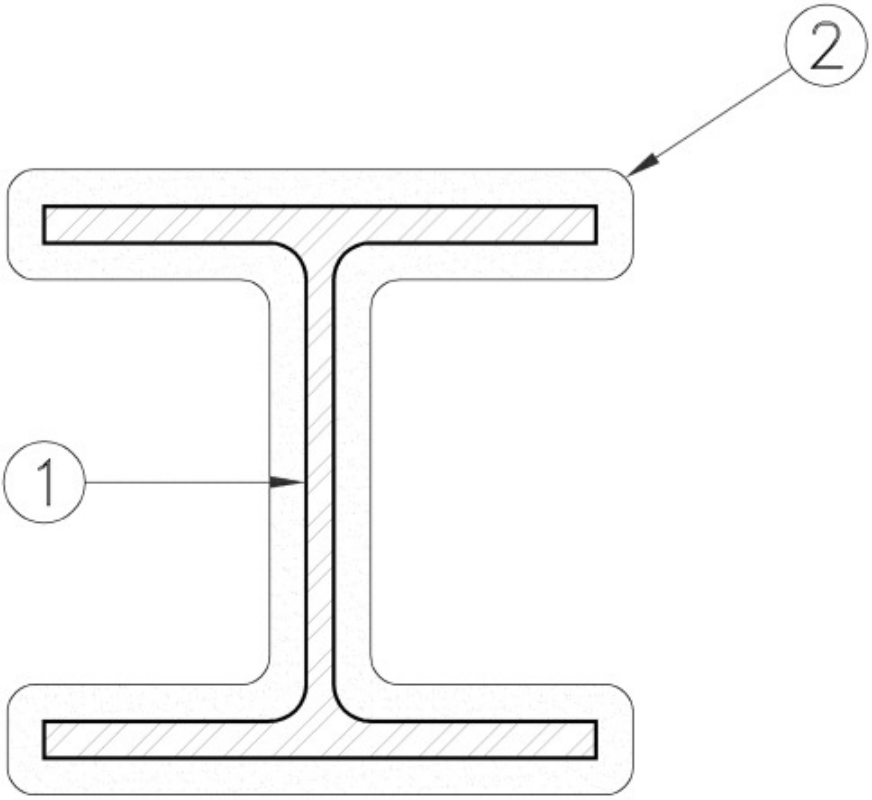
Fire Resistance Ratings - ANSI/UL 263

See General Information for Fire Resistance Ratings - ANSI/UL 263

Design No. Y601

September 19, 2008

Ratings - 3/4, 1, 1-1/2 and 2 Hr (See Item 2)



1. **Steel Column —** W-shaped columns with minimum M/D as specified in Item 2. Columns should be free of dirt, loose scale and oily deposits. Columns should be primed with an alkyd based primer and as per the coating manufacturer's specification and instructions.

2. **Mastic and Intumescent Coatings* —** Coating applied in accordance with manufacturer's instructions to the minimum dry film thicknesses shown below:

Ratings, h	Min Column Size	Min W/D	Required Min Dry Film Thickness, in.
3/4	W8 x 10	0.32	0.067
1	W8 x 10	0.32	0.128
1	W10 x 49	0.84	0.049
1-1/2	W14 x 233	2.52	0.032
1-1/2	W10 x 49	0.84	0.095
2	W10 x 49	0.84	0.141
2	W14 x 233	2.52	0.047

Alternatively, the required dry film thickness "t" may be determined by the following equation for W-Shaped columns within the parameters given below:

$$t = [\ T - 28.276\ ] \div [\ 773.29 \times (W/D)\ ]$$

45 mins	≤	T	≤	120 mins
0.32min	≤	W/D	≤	2.52 max
0.030 in.	≤	t	≤	0.153 in.

t = Minimum dry film thickness in inch and within 0.03 in. to 0.153 in. range. If the dry film thickness computed by the formula is outside this thickness range the formulae is not applicable.

T = Rating period in minutes and within 45 minutes and 120 minutes range.

W = Weight of column section in lb/ft.

D = Heated perimeter of column section, in.

3M CANADA COMPANY — Type "3M FireDam Intumescent Coating WB1000". Investigated for Interior General Purpose and Interior Conditioned Space Purpose.

3. **Finish Coating —** (Not shown) — Optional — For Interior General Purpose and Interior Conditioned Space Purpose, Type "Sherwin Williams Steel-Master 9500" or "ICI Devflex HP 4216". Top Coat applied over intumescent coating (Item 2) to max 0.003 in. dry film thickness.

*Bearing the UL Classification Mark

Last Updated on 2008-09-19

Copyright © 2008 Underwriters Laboratories Inc.®

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL's Follow-Up Service. Only those products bearing the UL Mark should be considered to be Listed and covered under UL's Follow-Up Service. Always look for the Mark on the product.

UL permits the reproduction of the material contained in the Online Certification Directory subject to the following conditions: 1. The Guide Information, Designs and/or Listings (files) must be presented in their entirety and in a non-misleading manner, without any manipulation of the data (or drawings). 2. The statement "Reprinted from the Online Certifications Directory with permission from Underwriters Laboratories Inc." must appear adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "Copyright © 2008 Underwriters Laboratories Inc.®"

An independent organization working for a safer world with integrity, precision and knowledge.