



**Design No. XR744**  
**BYBU.XR744**  
**Fire-resistance Ratings - ANSI/UL 1709**

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- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified 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 Certified.

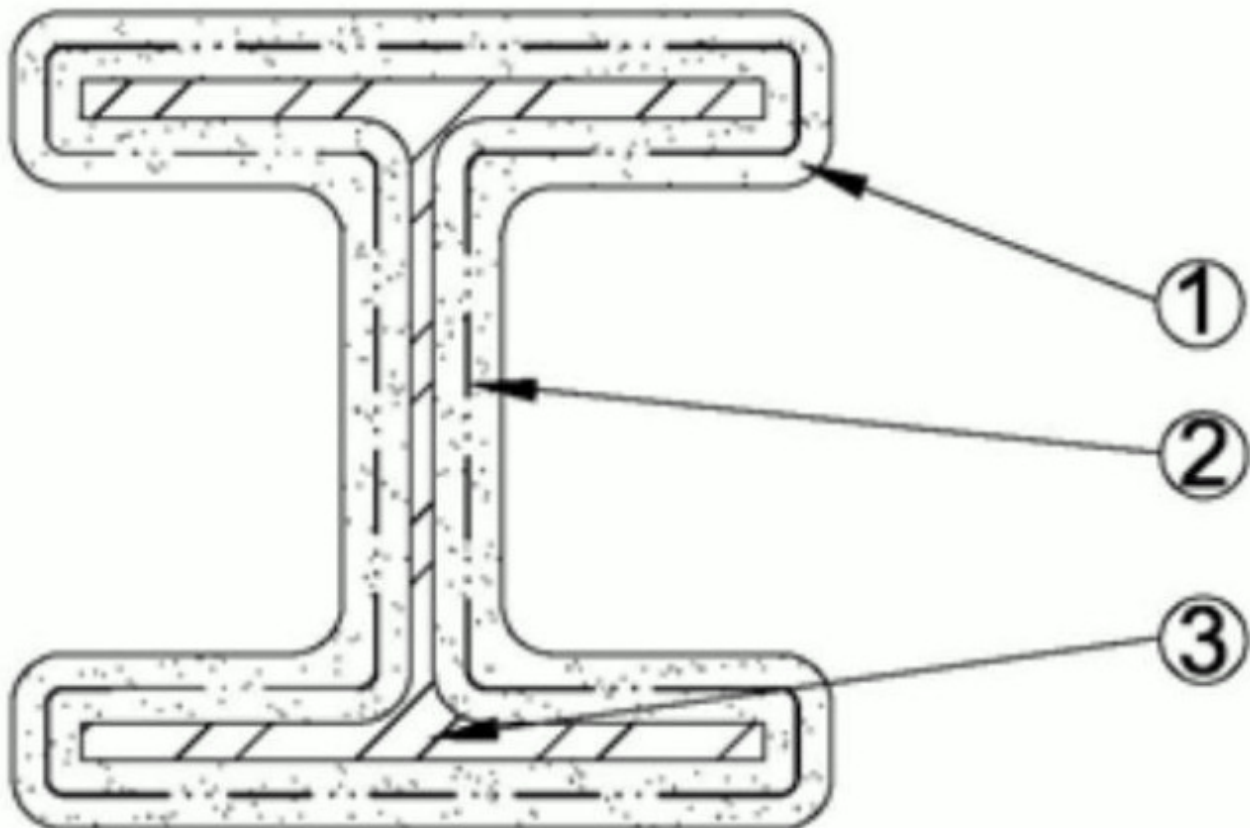
**BYBU - Fire-resistance Ratings - ANSI/UL 1709**

[See General Information for Fire-resistance Ratings - ANSI/UL 1709](#)

**Design No. XR744**

September 25, 2017

**Ratings-1, 1-1/2, 2, 2-1/2, 3, 3-1/2 and 4 Hr.**



**1. Spray-Applied Fire-Resistive Materials\*** — See table below for appropriate thicknesses. Applied by mixing with water according to instructions printed on each bag of mixture and sprayed in one or more coats, as necessary, directly

to the column which must be clean and free of dirt, loose scale and oil. Min avg and min ind density of 54.5/50.0 pcf, respectively. For method of density determination, see Design Information Section.

Rating, Hr	Min Thickness, mm (in.)
1	23 (7/8)
1-1/2	28 (1-1/8)
2	34 (1-5/16)
2-1/2	39 (1-9/16)
3	44 (1-3/4)
3-1/2	50 (2)
4	55 (2-3/16)

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2. **Reinforcing Mesh** — Min No. 23 SWG, 1in. wide by 2 in. tall galvanized steel wire with steel pin fixings (welded fixing) to hold the mesh spaced vertically 12-14 in. O.C on each surface of the column. Mesh to be overlapped 3 in. at joints and embedded at approximate mid-depth in Spray-Applied Fire Resistive Material.

3. **Steel Column** — Min size W10x49

**\* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

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