

## BYBU.XR749 - Fire-resistance Ratings - ANSI/UL 1709

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 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.

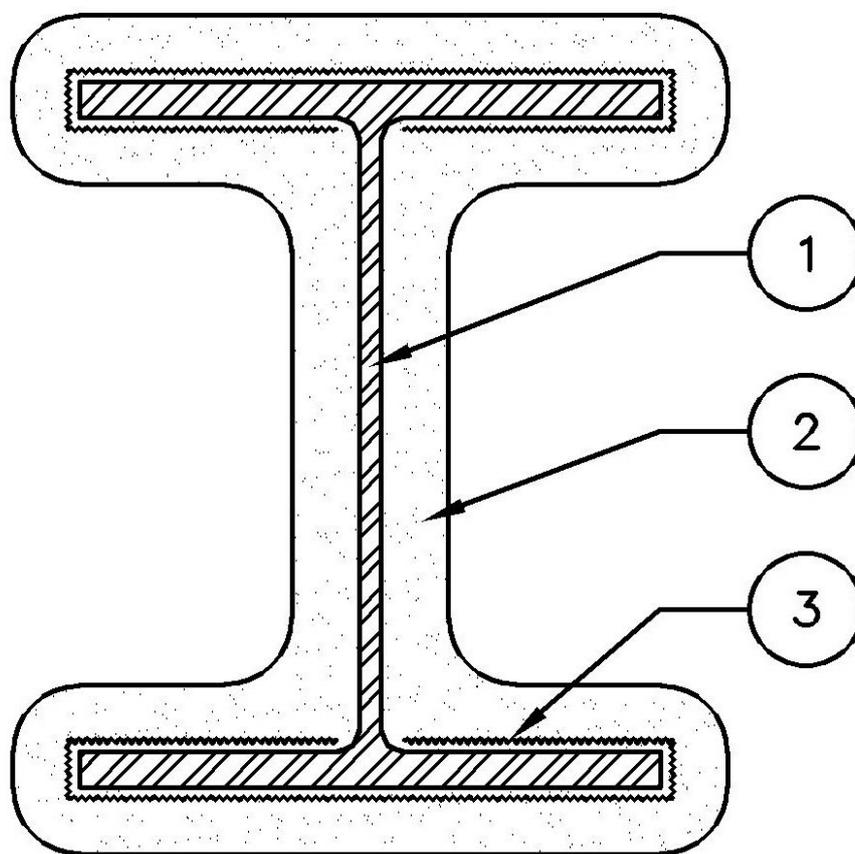
### Fire-resistance Ratings - ANSI/UL 1709

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

Design No. **XR749**

February 1, 2022

#### Ratings — 1, 1-1/2, 2, 2-1/2, 3, 3-1/2 & 4 Hr



1. **Steel Column** — size of column W10x49.

2. **Spray-Applied Fire-Resistive Materials\*** — See table below for appropriate thickness. Thicknesses measured to the steel. Prepared by mixing with water according to instructions provided by the manufacturer. Mixture is spray-applied in one or more coats, as necessary, directly to the column surface through the reinforcing mesh, which must be clean and free of dirt, loose scale, and oil. Min avg density of 42 pcf, with min individual density of 39 pcf. For method of density determination, see Design Information Section, Sprayed Material. Surface of material may be lightly finished with a trowel.

Rating (Hr)	Min Thickness (mm)
1	20
1-1/2	26
2	33
2-1/2	39
3	44
3-1/2	49
4	54

**THERMAL CERAMICS UK LTD** — Type FireMaster FB 100, investigated for UL 2431 Classification Category I-A and Exterior Environmental Purpose.

3. **Reinforcing Mesh** — Hexagonal shaped (50 mm x 50 mm) galvanised steel mesh, formed from 1.0 mm wire, installed approximately mid-depth along the contour of the column flanges. Mesh secured with power-actuated retaining clips and anchors, located at the flange edges and web corners, spaced 600 mm to 800 mm vertically along the flange edge with a web clip centered between the flange clips.

**\* 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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