

# BXUV.Y747 - Fire-resistance Ratings - ANSI/UL 263

## 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.

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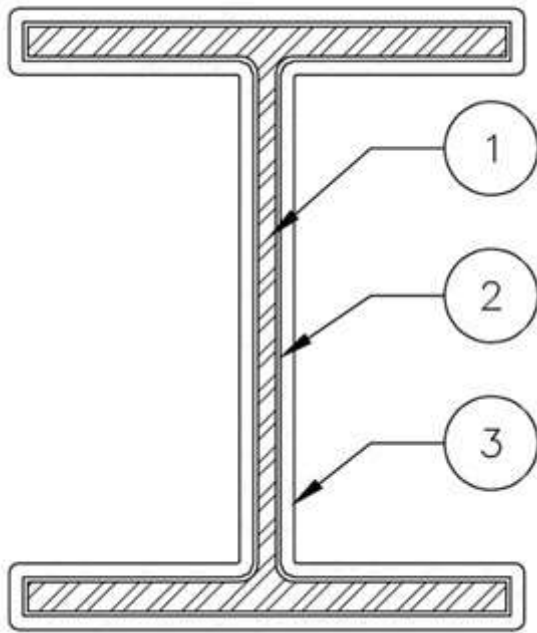
[See General Information for Fire-resistance Ratings - ANSI/UL 263](#)

Design No. **Y747**

October 17, 2022

Ratings — 2 and 3 Hr

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



1. **Steel Column** — Min size of column as shown in table above. Blast cleaned and primed with an appropriate 2 pack epoxy primer (0.075 mm).
2. **Reinforced Mesh** — Hexagonal shaped (50mm wide x 70-80 mm long) galvanised mesh, formed from 1.0 mm wire. Wires twisted 25mm between adjacent hexagonal shapes. Mesh has longitudinal 1.6 mm galvanised wires installed 75mm on centre. Longitudinal wires twisted into overlap between adjacent hexagonal shapes. Length of twist 35mm at longitudinal wires. Mesh installed longitudinally (vertically) and continuously following the column contour at approximate mid depth of protective material. Mesh sheets wire tied together at vertical joints with 1mm diameter wire. Mesh installed prior to application of protective material with 30mm long galvanised pins with 50x50mm perforated galvanised base plates and 30mm diameter galvanised, non-return, round steel washers. Approximately 9 pins per m<sup>2</sup> evenly spread on web and inside/outside of flanges. Pins attached using HTA System (High Temperature Adhesive) or welding.
3. **Spray-Applied Fire-Resistive Materials\*** — See table below for appropriate thickness. Prepared by mixing with water according to instructions on each bag of mixture and spraying in one or more coats, as necessary, to the column surfaces, which must be clean and free of dirt, loose scale and oil. Application to follow the column profile. Min avg. density of 762 kg/m<sup>3</sup> (47.6 pcf), with min ind. value of 700 kg/m<sup>3</sup> (43.7 pcf). For method of density determination, see Design Information Section, Sprayed Material.

Rating Hr	Size W10 x 49	Size W16 x 36
	HP/A = 160	HP/A = 223
	Min Thkns, mm	Min Thkns, mm
2	36	38
3	50	54

**NESTAAN NV** — Type SLV External, Investigated for Exterior Use.

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