

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.

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States

BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States

Design Criteria and Allowable Variances

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

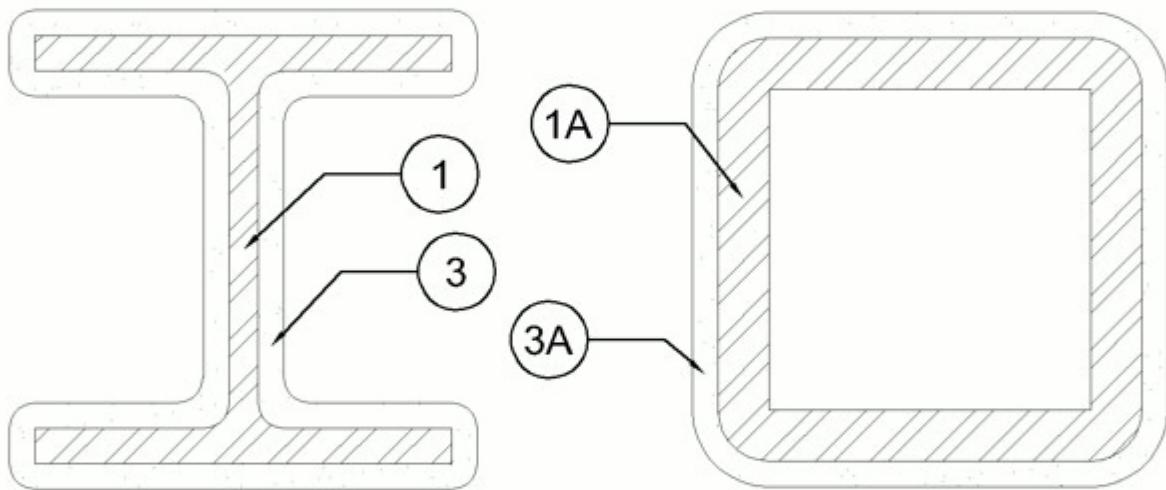
Design Criteria and Allowable Variances

Design No. Y658

March 25, 2022

Ratings — 1, 1-1/2, 2 (See Items 3, 3A)

*** 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 — Wide flange steel column with a minimum W/D ratio as specified in the table below. Columns shall be sandblasted to remove dirt, loose scale and oil.

1A. Steel Tube or Pipe — Square, rectangular, or circular tube (HSS) with an A/P ratio of 0.46 or greater. Tubes shall be sandblasted to remove dirt, loose scale and oil.

2. Primer Coating — (Not Shown) Beam shall be primed with a single component alkyd primer to an approximate dry film thickness of 3 mils.

3. **Mastic and Intumescent Coating*** — Coating spray applied to wide flanged steel columns (Item 1) in accordance with the manufacturer's instructions at the minimum dry thickness shown in the table below. The thickness shown includes primer thickness.

| Min Column Size | W-D | 1 Hr | 1-1/2 Hr | 2 Hr |
|--------------------|------|------|----------|------|
| W10x49 | 0.84 | 56 | 118 | 160 |

FLAMEOFF COATINGS INC — Type FlameOFF Fire Barrier evaluated for Interior Conditioned Space and Interior General Purpose

3A. **Mastic and Intumescent Coating*** — Coating spray applied to tube or pipe columns (Item 1A) in accordance with the manufacturer's instructions at the minimum dry thickness shown in the table below. The thickness shown includes primer thickness.

| Min Column Size | A/P | 1 Hr |
|--------------------|------|------|
| HSS 6x6x1/2 | 0.44 | 76 |

FLAMEOFF COATINGS INC — Type FlameOFF Fire Barrier evaluated for Interior Conditioned Space and Interior General Purpose. Also investigated for UL 2431 exterior Salt Spray and Industrial Atmosphere exposures when used with Type Enduratone topcoat (item 4).

4. **Top Coat** — (Not Shown) Not required for Interior Conditioned Space Purpose. For Interior General Purpose Type FlameOFF WB Topcoat applied over the intumescent coating at 10 mil thickness or Type Enduratone Series 1028 (White) by Tnemec applied over the intumescent coating at 4 mil thickness.

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Last Updated on 2022-03-25

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