

BXUV.S803 - 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.

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. S803

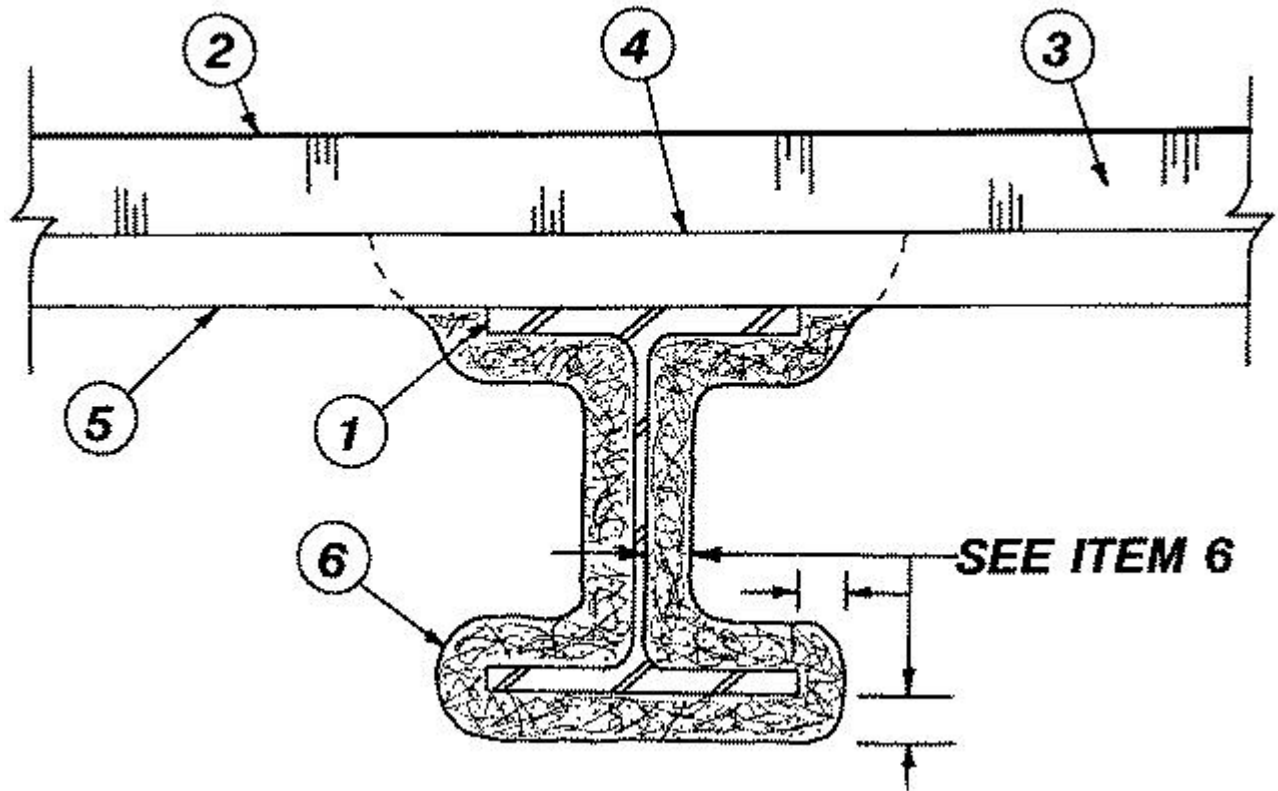
May 08, 2018

Restrained Beam Ratings — 1, 1-1/2, 2, 3 or 4 Hr. (See Item 6)

Unrestrained Beam Ratings — 1, 1-1/2, 2, 3 or 4 Hr. (See Item 6)

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

*** 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 Beam** — W8X28 min size.

2. **Roof Covering*** — Consisting of hot mopped, cold application or single-ply materials compatible with insulation(s) described herein which provide Class A, B or C coverings. See Roofing Materials and Systems Directory-Roof Covering Materials (TEVT).

3. **Roof Insulation*** — Consisting of mineral and fiber boards, applied in one or more layers. When multiple layers are used, end and side joints shall be offset a min of 12 in. in both directions in order to lap all joints. See Category for names of companies providing Classified Products — Mineral and Fiberboards (CERZ). Roof Insulation shall be compatible with Roof Covering Materials Class A, B or C System. See Roofing Materials and Systems Directory-Roof Covering Materials (TEVT).

4. **Adhesive*** — (Optional) — May be applied to crests of steel roof deck units or between insulation layers at a max application rate of 0.4 gal per 100 sq ft. See Adhesives (BYWR) category for name of manufacturers.

5. **Steel Roof Deck** — (Unclassified) — Fluted, 22 MSG, galv, 1-1/2 in. deep with 3-1/2 in. wide flutes spaced 6 in. OC. Ends overlapped at supports a min 1-1/2 in. and welded to supports, min 12 in. OC. Adjacent units mechanically fastened at midspan along side joints.

6. **Spray-Applied Fire Resistive Materials*** — Applied to wetted steel surfaces which are free of dirt, oil or loose scale by spraying with water to the final thickness on beams as shown in table below. Areas between the underside of the roof units and the beam shall be filled with material. The use of adhesive and sealer and the tamping of fiber are optional. Min avg density of 13 pcf with min. ind density of 11 pcf for Types DC/F, II and II HS. Min avg density of 22 pcf with min ind density of 19 pcf for Type HP. For method of density determination refer to Design Information Section.

Min Thkns In.

Rating Hr	Restrained Beam Rating Hr	Unrestrained Beam Rating Hr
1	1/2	1/2
1-1/2	3/4	13/16
2	1-3/16	1-1/2
3	2-1/16	2-7/8
4	2-7/8	4-11/16

ISOLATEK INTERNATIONAL — Types DC/F, II, II HS, or HP. Type EBS or Type X adhesive/sealer is optional.

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Last Updated on 2018-05-08

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 Certified and covered under UL's Follow-Up Service. Always look for the Mark on the product.

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