UL Product iQ™

BXUV.S720 - 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. S720

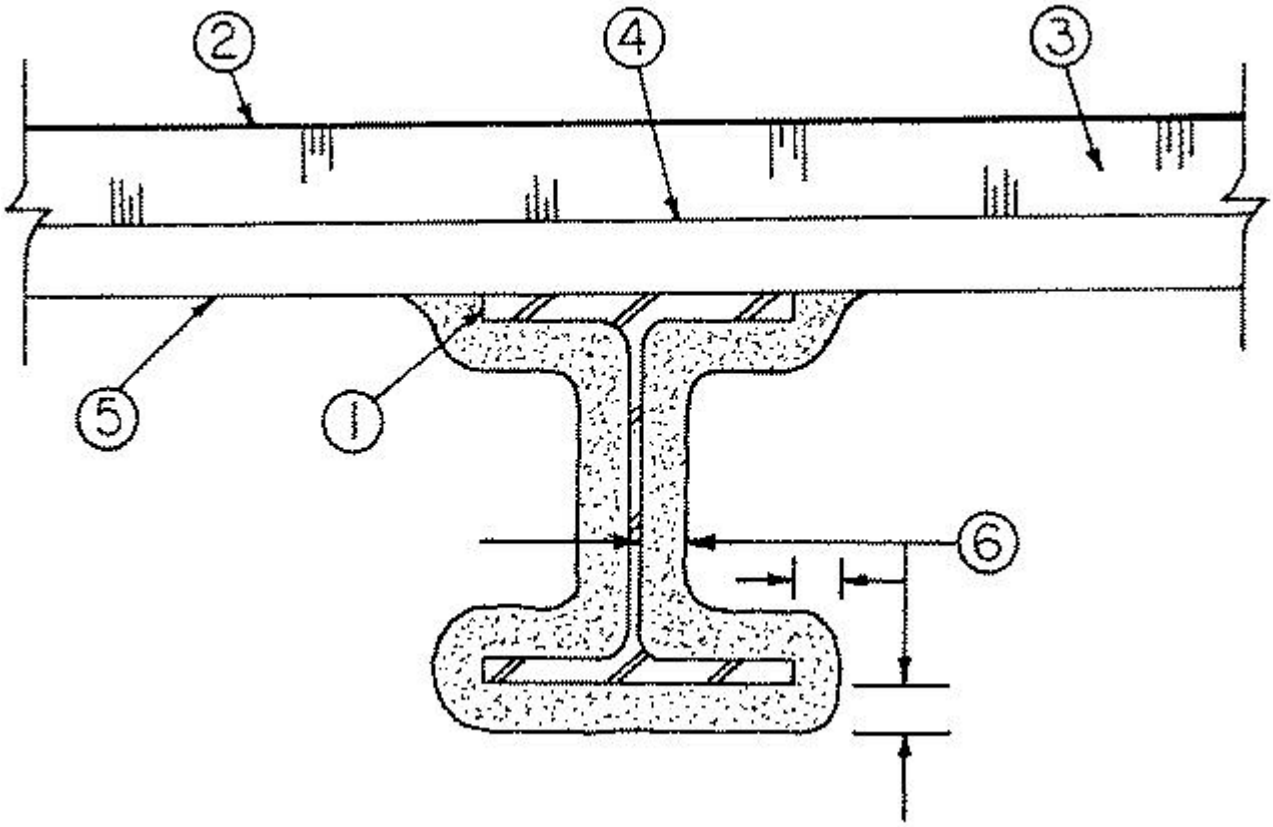
November 12, 2014

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

Unrestrained Beam Ratings — 1, 1-1/2, 2 or 3 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* —** 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 **Mineral and Fiber Boards** (CERZ) category in the Fire Resistance Directory for names of manufacturers. Roof insulation shall be compatible with Roof Covering (Item 2). See Roofing Materials and Systems Directory-Roof Covering Materials (TEVT).

4. **Adhesive* —** Applied to crests of roof deck units and/or insulation in 1/2 in. wide ribbons at 0.4 gal per 100 sq ft.
See Adhesives (BYWR) category for names of companies which can supply adhesive.

5. **Steel Roof Deck —** (Unclassified) — Fluted, No. 22 MSG, galv, 1-1/2 in. deep with 3-1/2 in. wide flutes spaced 6 in. OC. Ends overlapped 1-1/2 min, at supports and welded 12 in. OC to supports. Adjacent units welded or button punched together 18 in. OC max.

6. **Spray-Applied Fire Resistive Materials* —** See table below for appropriate thicknesses. Prepared by mixing with water and spray or trowel applied in one or more coats to beam surfaces which must be clean and free of dirt, loose scale and oil. Flute areas above the beam shall be filled with Spray-Applied Fire Resistive Materials. Min average density of 38 pcf with min individual density of 35 pcf for Type 800. Min avg density of 44 pcf with min ind value of 40 pcf for Type M-II. Min avg density of 44 pcf with min ind value of 42 pcf for Type TG . For method of density determination, see Design Information Section, Sprayed Material.

Restrained & Unrestrained Beam Rating Hr	Min Thkns In.
1	9/16
1-1/2	15/16
2	1-5/8
3	2-9/16

GREENTECH THERMAL INSULATION PRODUCTS MFG CO L L C — Types M-II or TG investigated for exterior use.

ISOLATEK INTERNATIONAL — Types 800, M-II or TG investigated for exterior use.

NEWKEM PRODUCTS CORP — Types M-II or TG investigated for exterior use.

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

Last Updated on 2014-11-12