

# BXUV.P807 - 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. P807**

May 07, 2018

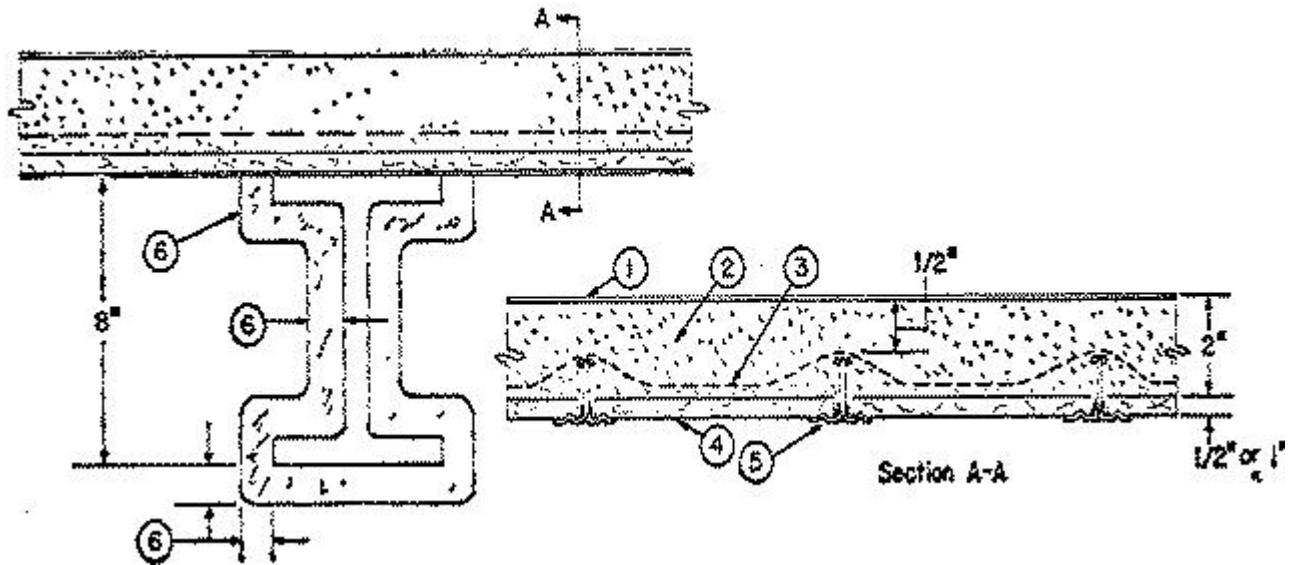
**Restrained Assembly Rating — 2 Hr.**

**Unrestrained Assembly Rating — 2 Hr.**

**Unrestrained Beam Rating — 2 Hr.**

**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.**



**Beam** — W8x20, minimum size.

**1. Roof Covering\*** — Consisting of hot mopped or cold application 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).

**2. Gypsum Concrete** — Air dry density and strength approx 50 pcf and 500 psi, respectively. Dry gypsum mixture supplied in bags containing not more than 5 per cent by weight of wood shavings or chips.

**3. Wire Mesh** — No. 19 SWG galv steel wire twisted to form hexagons with 2-in. sides. In addition, straight 16 SWG galv steel wire woven into the mesh and spaced 3 in. apart as stiffeners. Mesh installed without attachment and overlapped 6 in. at the sides.

**4. Gypsum Board\*** — 1 in. thick gypsum panels nom 24 in. wide placed between sub-purlins, with end joints staggered in adjacent courses

**CGC INC** — Type SLX.

**UNITED STATES GYPSUM CO** — Type SLX.

**USG BORAL DRYWALL SFZ LLC** — Type SLX

**USG MEXICO S A DE C V** — Type SLX

**5. Sub-purlins** — Spaced 24-1/2 in. OC. Maximum spacing of supports not to exceed 8 ft. 0 in. Sub-purlins welded to supports with 1-1/2 in. long fillet welds on each side of each support.

Form Board Thkns In.	Subpurlin Type
1/2	5-6-17-2
	2-5-17-2
	1-5-17-2
	000-5-14-2
1	2-3-17-2-1/2
	1-3-17-2-1/2
	000-3-14-2-1/2

**6. Spray-Applied Fire Resistive Materials\*** — Applied by spraying with water, in one coat to a final untamped thickness as shown above, to steel surfaces which are free of dirt, oil or scale. Use of adhesive is required. Use of tamping is optional. For method of density

determination refer to Design Information Section.

**ISOLATEK INTERNATIONAL** — Type D-C/F, Type II, or Type II HS, min avg density of 13 pcf with a min ind density of 11 pcf. Min thickness 1-5/8 in. Type HP, min avg and min ind densities of 22 and 19 pcf, respectively. Min thickness is 1-5/8 in., Type EBS or Type X adhesive/sealer optional.

**\* 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 2018-05-07

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