

BXUV.N308 - 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. N308

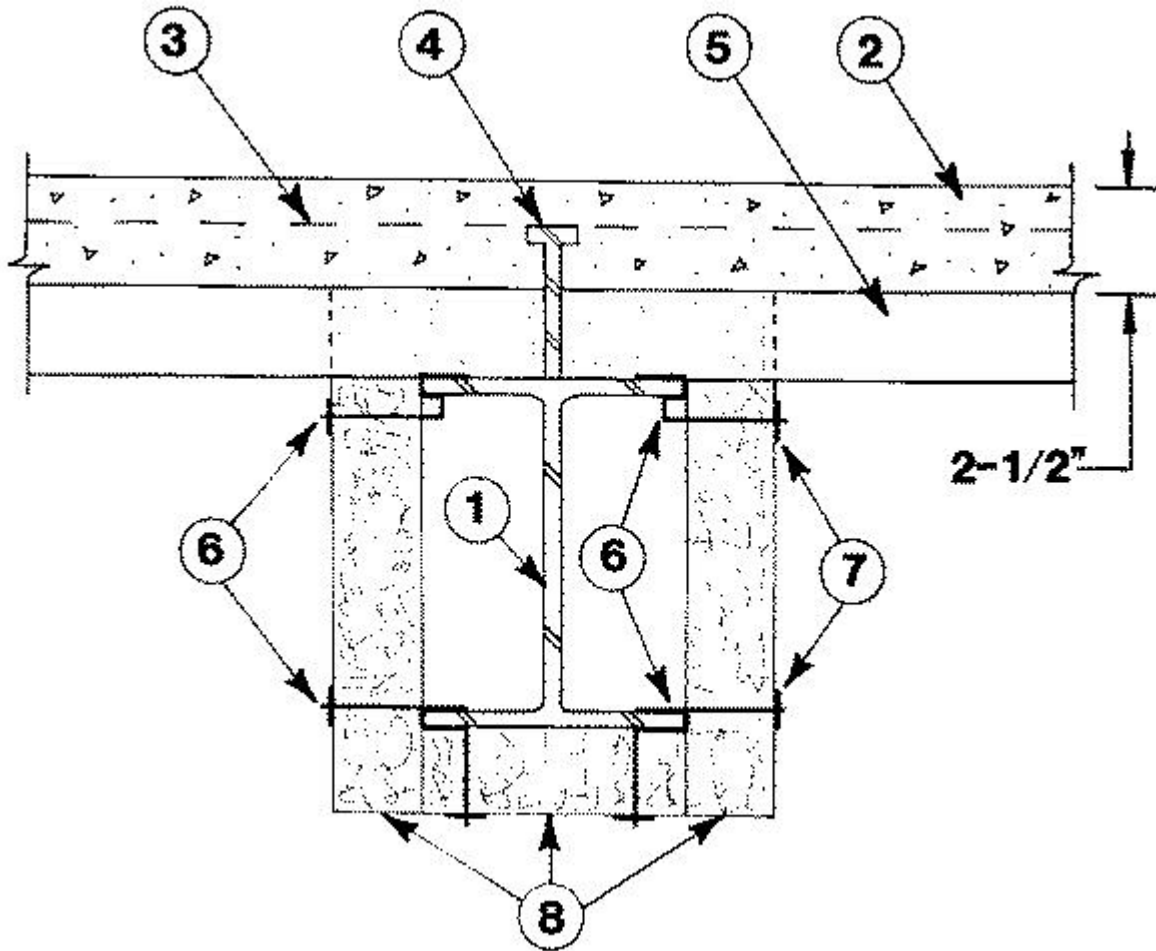
May 18, 2017

Restrained Beam Ratings — 1, 1-1/2 and 2 Hr (See Item 8)

Unrestrained Beam Ratings — 1, 1-1/2 and 2 Hr (See Item 8)

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. **Beam** — W8x24, minimum size.

2. **Normal Weight or Lightweight Concrete** — Normal weight (carbonate or siliceous aggregate), or lightweight (expanded shale, clay or slate aggregate by rotary kiln method). Minimum 104 pcf unit weight and minimum 3700 compressive strength.

3. **Welded wire Fabric** — 6x6 in., No. 10/10 SWG.

4. **Shear Connectors** — (Optional) — Studs, 3/4 in. diameter headed type or equivalent per AISC specification. Welded to the top flange of beam through the steel floor units.

5. **Steel Floor and Form Units*** — Composite or noncomposite, minimum 1-1/2 in. deep fluted units, minimum 22 MSG welded to the beam.

6. **Fasteners** — Type Cafclip (No. 11 SWG) fasteners attached to the top and bottom beam flange edges and spaced lengthwise not greater than 14 in. O.C. and 3 in. from the ends of the batts. Batts impaled over studs and fastened with clinch shields (Item 7). Excess length of the stud is not required to be cut or bent. If the excess is cut, a min of 1/4 in. is required from the face of the clinch shields. Refer to Design No. D915 for illustrations of the Cafclip .

7. **Clinch Shields** — No. 28 MSG galvanized steel, 1-1/2 in. square, or 1-1/2 in. diameter round clinch shields.

8. **Batts and Blankets*** — Mineral wool batts attached to the beam to the thicknesses shown below by impaling over wire fasteners. Minimum 4-pcf mineral wool shall be stuffed between the crests of the fluted steel deck and the beam.

Restrained & Unrestrained Beam Rating, Hr	Min Thkns of Type CB On Beam, In.
1	1
1-1/2	1
2	1-1/2

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Last Updated on 2017-05-18

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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