

## **BXUV.N307 Fire Resistance Ratings - ANSI/UL 263**

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### **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 Listed or Classified 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 as Classified, Listed, or Recognized.

### **Fire Resistance Ratings - ANSI/UL 263**

[See General Information for Fire Resistance Ratings - ANSI/UL 263](#)

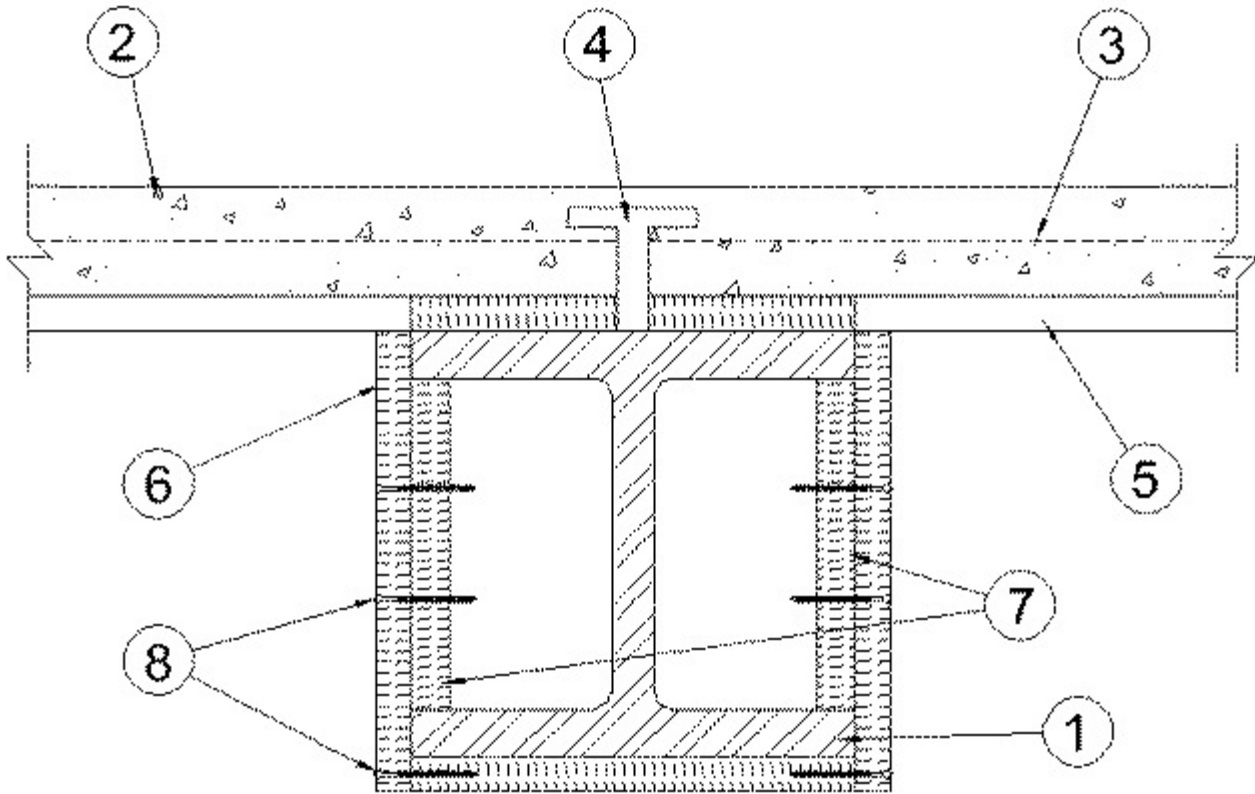
**Design No. N307**

February 07, 2003

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

**Unrestrained Beam Ratings — 1, 1-1/2 & 2 Hr (See Item 6)**

**Load Restricted for Canadian Applications — See Guide [BXUV7](#)**



1. **Beam** — W8x28, min size.

2. **Normal Weight or Lightweight Concrete** — Normal weight concrete, carbonate or siliceous aggregate, 150 (+ or -) 3 pcf unit weight, 4500 psi compressive strength. Lightweight concrete, expanded shale, clay or slate aggregate by Rotary-Kiln method, 120 (+ or -) 3 pcf unit weight, 4500 psi compressive strength, vibrated.

3. **Welded Wire Fabric** — 6 by 6 in., No. 10/10 SWG.

4. **Shear Connectors** — (Optional) — Studs, 3/4 in. diam by 3-3/8 in. long, headed type or equivalent per AISC specification. Welded to top flange of beam through the deck.

5. **Steel Floor and Form Units\*** — Composite or noncomposite 1-1/2 in. deep fluted types min No. 22 MSG welded to beam.

6. **Mineral and Fiber Boards** — Boards cut in various widths to be compatible with the size of beam being protected. Boards placed parallel with the flange of the beams are cut the width of the flange. Boards placed parallel with the web of the beams are cut the width of the beam (web side) plus twice the board thickness. The voids created by the flutes above the beam to be filled with mineral wool batts having a nom density of 4 lb per cu ft.

Restrained Beam Ratings, Hr	Min. Thickness, In.
1	3/4
1-1/2	3/4
2	3/4
3	1-5/8
Unrestrained Beam Rating Hr	Min Thkns In.
1	3/4
1-1/2	3/4
2	1-5/8

ALBI MFG, DIV OF STANCHEM INC — Type Dri-Clad

7. **Noggings** — Min 1-1/2 in. thick, pieces of mineral and fiber board (See Item 6). Cut to friction fit between beam

flanges; located at horizontal butted joints of adjacent mineral and fiber board sections (Item 6) on the web sides of the beam.

8. **Fasteners** — The boards are fastened to the noggings and to each other by means of spiral screw type fasteners, spaced a max of 4-6 in. OC. The fasteners are installed on both sides of horizontal joints.

\*Bearing the UL Classification Mark

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