

**Design No. N862
BXUV.N862
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 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

BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

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

[See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada](#)

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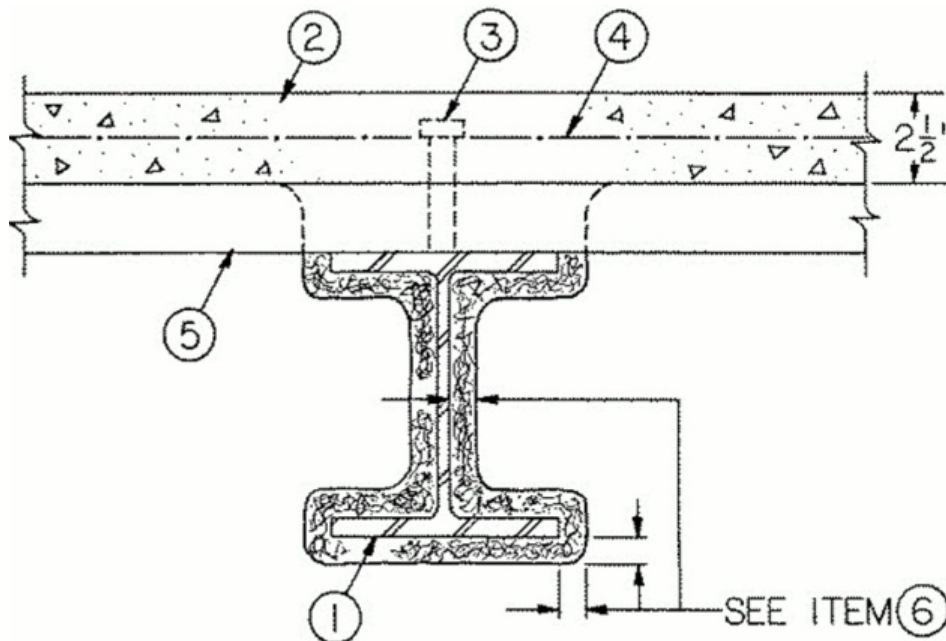
January 20, 2016

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

Unrestrained Beam Ratings - 1, 1-1/2, 2, 2-1/2 & 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** — W8 x 28 min size.
- 2. Normal Weight Concrete** — 2-1/2 in. min thickness normal weight concrete, min compressive strength 4000 psi, unit weight 148 +/- 3 pcf, may use either carbonate or silicious aggregate.
- 3. Shear Connector** — (Optional) — Studs, 3/4 in. diam headed type or equivalent per AISC specification. Welded to the top flange of beam through the steel floor units.
- 4. Welded Wire Fabric** — 6 x 6 - W1.4 x W1.4.
- 5. Steel Floor or Form Units*** — 1-1/2 to 3 in. deep fluted units, welded to beam.
- 6. Spray-Applied Fire Resistive Materials*** — See tables below for appropriate thicknesses. Applied by mixing with water in accordance with instructions on each bag of material and spraying in one or more coats to beam. Surface of applied material may be lightly finished with a trowel.

Crest areas above the beam shall be filled with Spray-Applied Fire Resistive Materials. Min avg and min ind density of 36/33 pcf, respectively. For method of density determination, see Design Information Section, Sprayed Material.

FLUTED FLOOR UNITS ONLY

Rating Hr	Min Thk, mm	
	Restrained Beam Rating Hr	Unrestrained Beam Rating Hr
1	9	9
1-1/2	10	15
2	15	20
2-1/2	19	26
3	24	31
3-1/2	29	NR
4	33	NR

Rating Hr	Min Thk, In.	
	Restrained Beam Rating Hr	Unrestrained Beam Rating Hr
1	3/8	3/8
1-1/2	7/16	9/16
2	5/8	13/16
2-1/2	3/4	1
3	15/16	1-1/4
3-1/2	1-1/8	NR
4	1-5/16	NR

NR - Not Rated

BOVIA INC — Type BOVIA 279

LUCKY CORE INSULATING MATERIALS MANUFACTURING LLC — Type BOVIA 279

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