

BXUV.N607

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

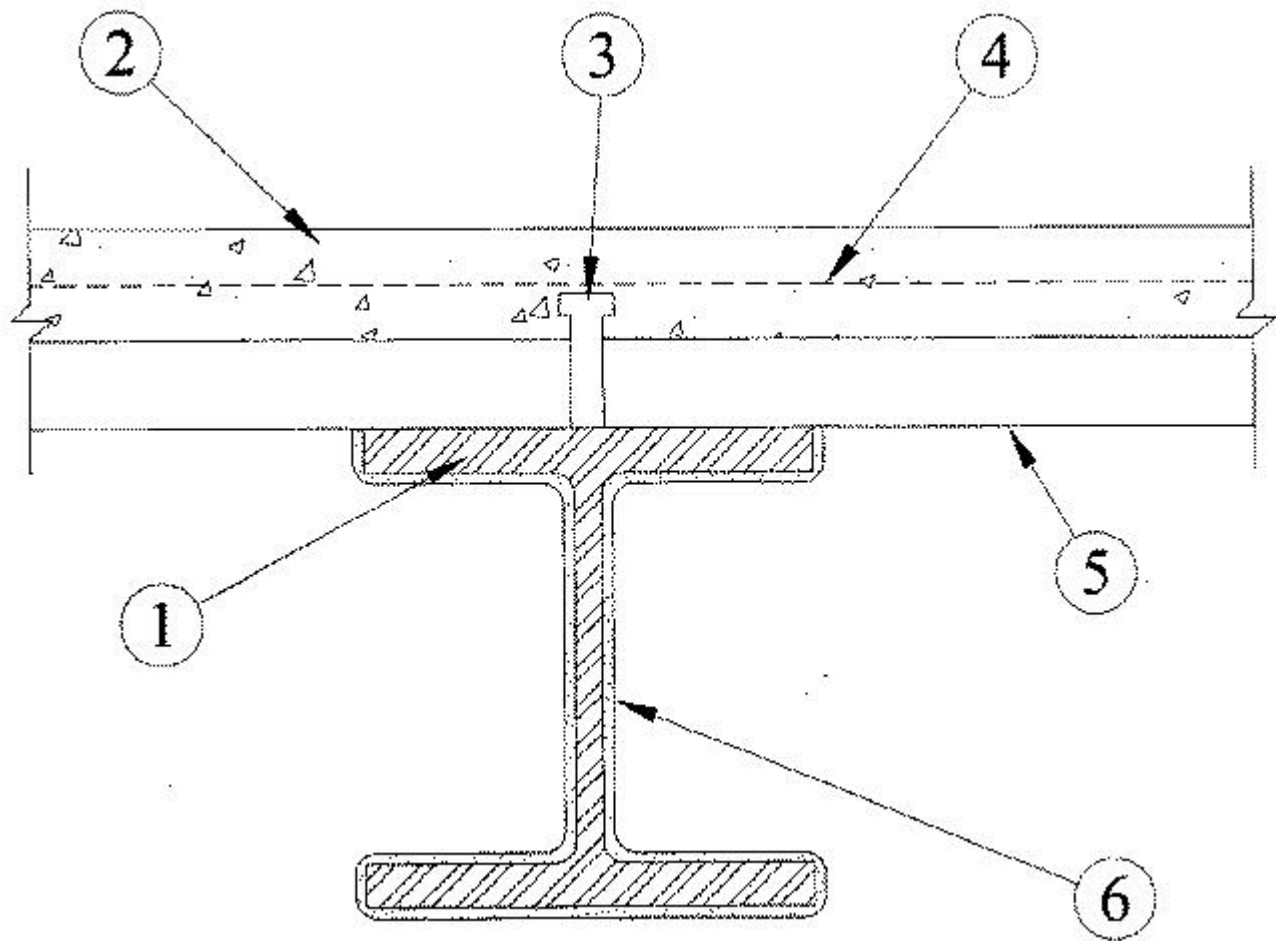
Design No. N607

April 28, 2020

Restrained Beam Rating - 1-1/2, 2 Hr. (See Item 6)**Unrestrained Beam Rating - 1, 1-1/2 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** — Minimum sizes shown in the table below. Steel beam surface to be free of loose scale and oil and shall be primed with a red oxide primer.
2. **Normal Weight Concrete** — Compressive strength, 3000 psi. For normal weight concrete either carbonate or siliceous aggregate may be used. Unit weight, 148 pcf.
3. **Shear Connector (Optional)** — Studs, 3/4 in. diam headed type or equivalent per AISC specifications. Welded to the top flange of beam through the steel floor units.
4. **Welded Wire Fabric (Optional)** — 6x6-10/10 SWG.
5. **Steel Floor and Form Units** — 1-1/2, 2, 3 in. deep fluted, welded to beam per SDI specification.
6. **Mastic and Intumescent Coating*** — Coating spray applied directly to the beam in multiple applications to the desired final dry thickness. Flutes above the beam to be completely filled with mineral wool insulation having a min avg density of 6 lbs/ft³. Coating may be sprayed on to the mineral wool insulation. After each application the surface may be lightly brushed or lightly rolled with a paint roller. See table below for thicknesses:

Beam Size	W/D	Material Thickness In.	Unrestrained Rating Hr.	Restrained Rating Hr.
W8x31	0.8	0.09	1	1-1/2
W8x31	0.8	0.14	1	2
W10x88	1.75	0.149	1-1/2	2

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Last Updated on 2020-04-28

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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