

BXUV.X314 - 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

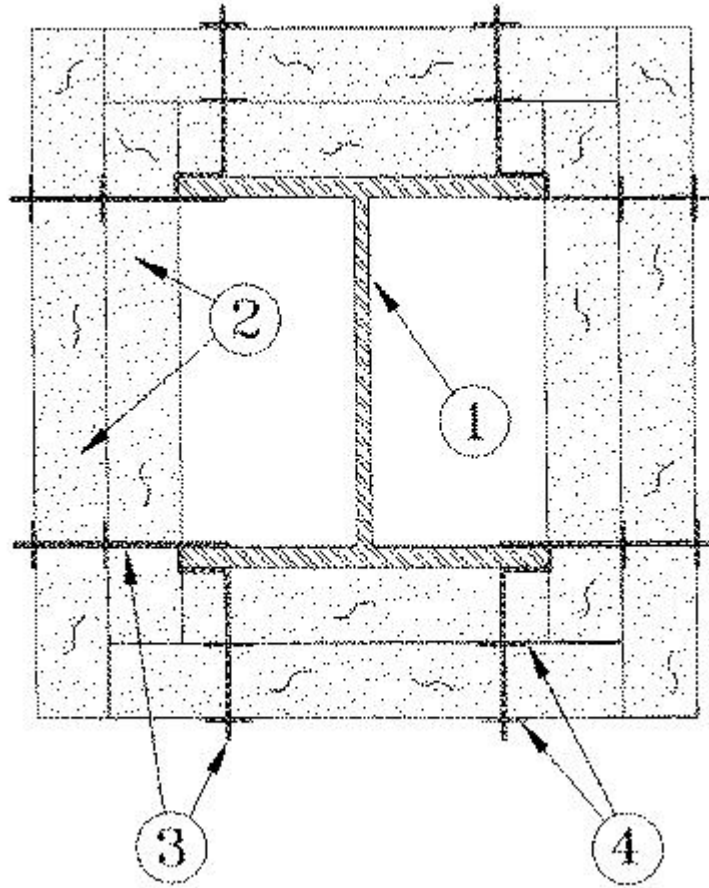
See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variances

Design No. X314

May 18, 2017

Rating — 1, 2, 3 or 4 Hr

*** 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 Column** — Wide flange steel column, min sizes as shown in the table in Item No. 2.

2. **Batts and Blankets*** — Nom 2 ft by 4 ft mineral wool batts cut and attached to column in one or multiple layers with wire impaling fasteners (Item No. 3). Spacing of horizontal joints not to exceed two (2) per layer of batt per 8 ft of column height when dimensions permit the batts to be installed with the 2 ft dimension horizontally. Spacing of horizontal joints not to exceed four (4) per layer of batt per 8 ft of column height when dimensions do not permit the batts to be installed with the 2 ft dimension horizontally. For multi-layer application, horizontal joints shall be staggered. Vertical joints are only allowed at the corners and are ship lapped, as shown in the illustration. Min thickness required for various fire resistance ratings may be determined from the table below:

Column Size	W/D	Min Thkns In.			
		1-Hr	2 Hr	3 Hr	4 Hr
W6X16	0.57	2	4	—	—
W8X28	0.67	1-1/2	3-1/2	—	—
W10X49	0.83	1-1/2	2-1/2	4	—
W12X106	1.44	1	1-1/2	2-1/2	3
W14X228	2.44	1	1	1-1/2	2

UNITED STATES MINERAL PRODUCTS CO, DBA ISOLATEK INTERNATIONAL — Type CB

3. **Fasteners** — (Refer to Design No. D301 for illustration of Cafclip and Type C fasteners).

Type C, 1/8 in. diam steel wire stud, 1-3/16 in. greater in length than the thickness of the batt, welded to flange edges and 3/4 in. from edges on flange faces, spaced not greater than 24 in. OC and 3-3/4 in. from ends of batts. Batts impaled over studs and held in place with 1-1/2 in. square or 1-1/2 in. diam, 26 MSG galv steel clinch shields. As an alternative, Type " Cafclip ", 11 SWG spring steel clip on stud with impaling spikes to accommodate the batt thickness with additional 1 in. excess spike length. Fitted onto column flange edges and spaced not greater than 24 in. OC and 3-3/4 in. from ends of batts. Batts impaled over spikes and held in place with clinch shields.

4. **Clinch Shield** — 1-1/2 in. diam or 1-1/2 in. square, formed from 28 MSG galv steel. For use with Type C and " Cafclip " fasteners (Item No. 3). One clinch shield required per layer per impaling stud.

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Last Updated on 2017-05-18

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