



Design No. H504
BXUV.H504
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](#)

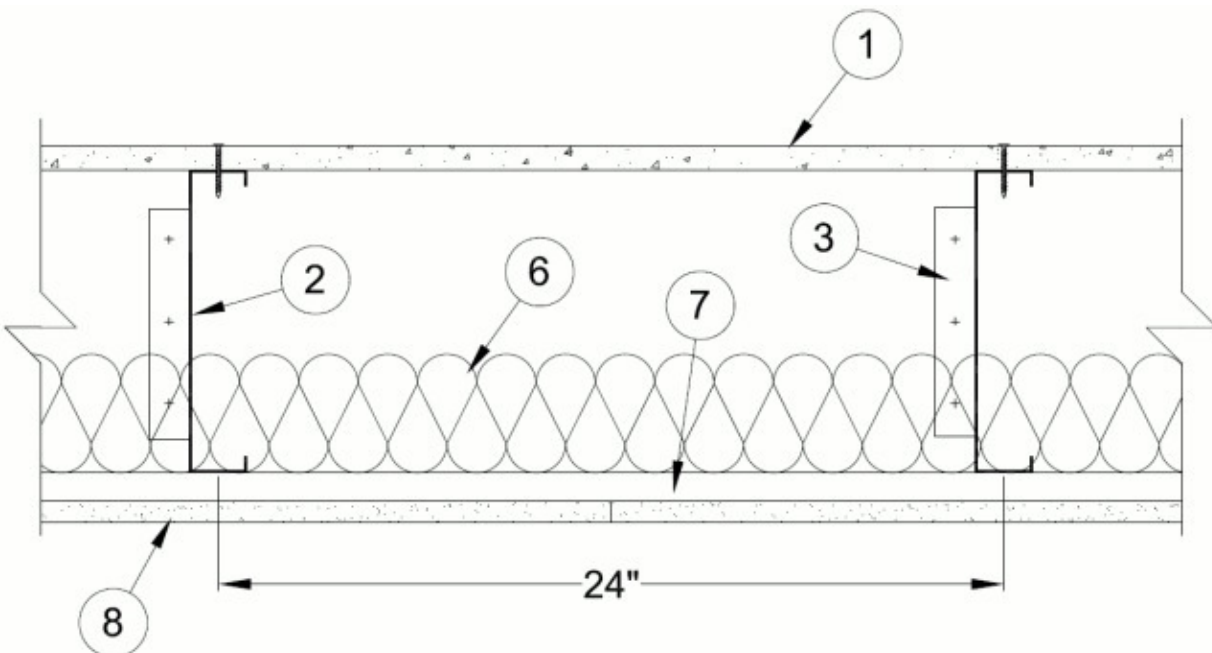
[See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada](#)

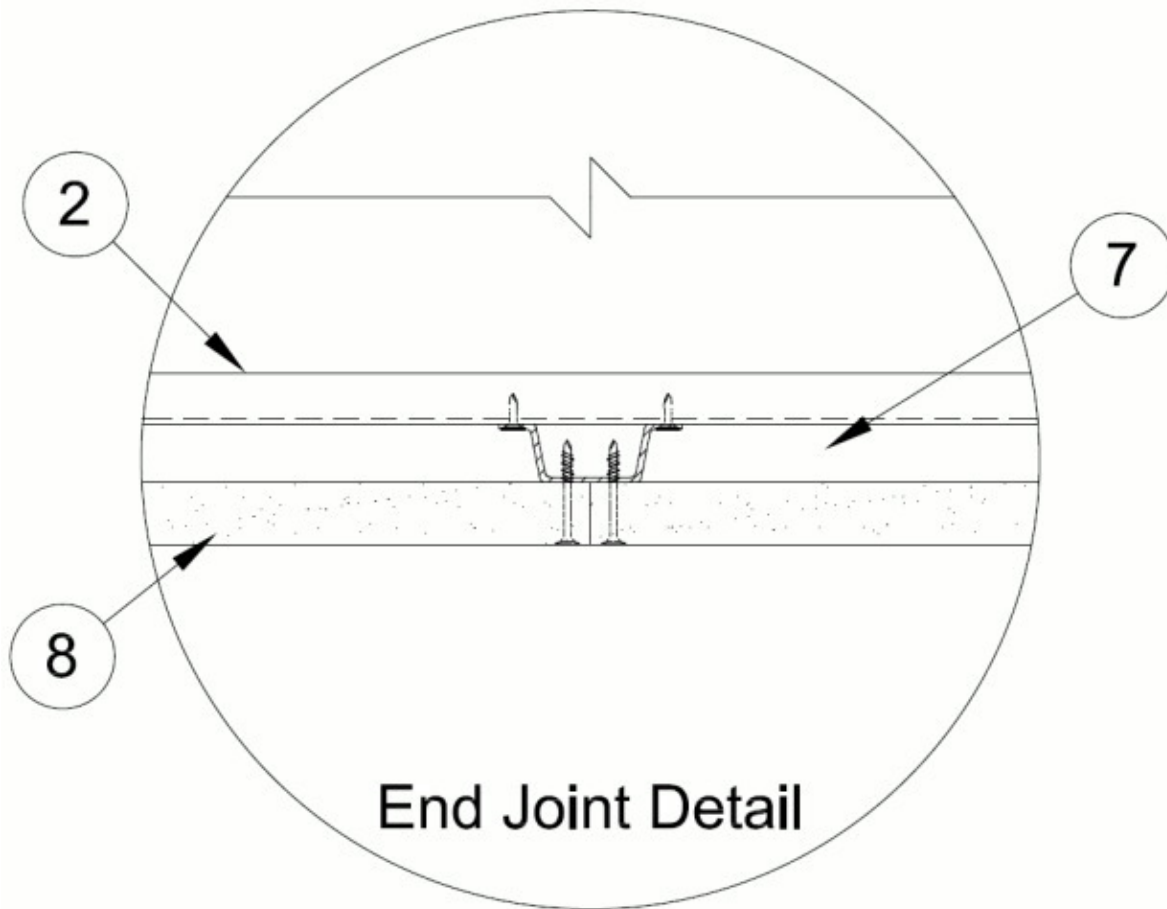
Design No. H504

September 22, 2016

Unrestrained Assembly Rating — 3/4 or 1 Hr (See Items 1 and 6)

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**





1. **Flooring System* — Mineral and Fiber Boards** — Nom 20 mm thick. Long dimension of panels to be perpendicular to joists with end joints centered over the joists. Bead of construction adhesive applied to edges of panels. Panels secured to joists with 1-5/8 in. long No. 8 self-drilling, self-countersinking steel screws spaced a max of 8 in. OC with a screw located 2 in. from each edge at end joints, and a screw located 1 in. from the edge in the field. For 3/4 Hr Rating, panel side joints may be tongue-and-groove or square edge. For 1 Hr Rating, panel side joints required to be tongue-and-groove.

THE PLYCEM COMPANY INC — Types Plycem Flooring, Plyrock Flooring

2. **Steel Joists — Non-Composite Design** — Channel-shaped, min 8 in. deep with min 2 in. wide flanges and 5/8 in. long stiffening flanges. Fabricated from min No. 16 MSG galv steel. Min yield strength of 50,000 psi. Joists spaced max 24 in. OC. Supplied with appropriate rim tracks of same size and gauge.

3. **Support Clip** — Angle-shaped, 7 in. high with 1-1/2 in. and 4 in. long leg. Clips fabricated from No. 16 MSG galv steel. Clips used to fasten steel joists to joist rim track. The clip section is connected using a min of four #10 by 1/2 in. low profile head, self-drilling screw in each leg of clip at each connection.

4. **Blocking** — (Not Shown) — Channel-shaped 6 in. deep with min 1-3/8 in. flanges and 3/8 in. long stiffening flanges. Blocking fabricated from min No. 16 MSG galv steel. Min yield strength of steel is 50,000 psi. Blocking to span two joists cavities, spaced max 12 ft OC perpendicular to the joists. Nom 4 by 4 by 4 in. long angle clips shall be used to connect web of steel joists to blocking with a min of four #10 by 1/2 in. low profile head, self-drilling screw at each connection.

5. **Bridging** — (Not Shown) — Flat steel strap 4 in. wide fabricated from No. 20 MSG galv steel located between rows of blocking (Item 4). The flat strap is connected to the bottom flange of the steel joist with a min of one 3/4 in. self-tapping screw.

6. **Batts and Blankets*** — Mineral wool batt insulation, 3-1/2 in. thick, minimum density 2.6 pcf, bearing the UL Classification Marking for Surface Burning Characteristics and/or Fire Resistance. Insulation fitted in the concealed space, draped over the furring channels (Item 7). For 1 Hr Rating, butted end joints of insulation batts to be centered over furring channels.

See **Batts and Blankets** (BKNV or BZJZ) Categories for names of Classified companies.

7. **Furring Channels** — Formed of No. 25 MSG galv steel, 2-5/8 in. wide at top and 1-3/16 in. wide at bottom by 7/8 in. deep, spaced max 16 in. OC, perpendicular to joists. Channel splices located beneath joists and overlapped 4 in. Channels secured to each joist with one #10 by 1/2 in. low profile head, self-drilling screw in each leg of each channel.

8. **Gypsum Board*** — One layer of nom 5/8 in. thick by 48 in. wide gypsum panels installed with long dimension perpendicular to furring channels. Gypsum panels secured to furring channels with 1-1/4 in. long Type S bugle-head screws spaced 12 in. OC, with screws located 1 in. from side edges of the board. End joints secured to furring channels as shown in end joint detail. Side joints centered between joists.

UNITED STATES GYPSUM CO — Type C

9. **Finishing System** — (Not Shown) — Vinyl, dry or premixed joint compound, applied in two coats to joints and screw-heads. Nom 2 in. wide paper tape embedded in first layer of compound over all joints. As an alternate, nom 3/32 in. thick veneer plaster may be applied to the entire surface of gypsum panels.

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Last Updated on 2016-09-22

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