

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. V340

December 29, 2025

Bearing Wall Rating – 1 Hr Exposed to Fire on Either Face

**Bearing Wall Rating – 2 Hr Rating Exposed to Fire on Interior Face and 1 Hr Rating
Exposed to Fire on Exterior Face (See Item 2)**

**Bearing Wall Rating – 2 Hr Rating Exposed to Fire on Exterior Face and 1 Hr Rating
Exposed to Fire on Interior Face (See Item 6)**

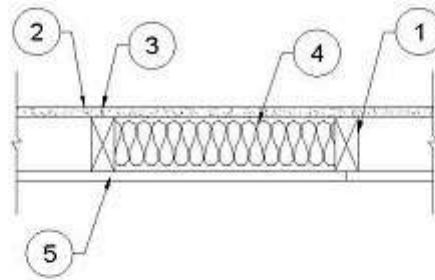
For Wood Studs, Finish Rating – 4 min (Exposed to Fire on Exterior Face)

Loaded Per 2012 NDS Supplement, ASD Method, Wall Braced by Sheathing, 40% of Design Load Applied to Wall

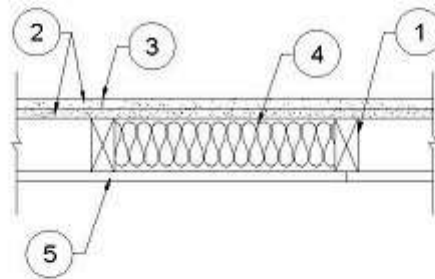
**This design was evaluated using a load design method other than the Limit States Design Method (e.g.,
Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada,
a load restriction factor shall be used – See Guide BXUV or BXUV7**

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

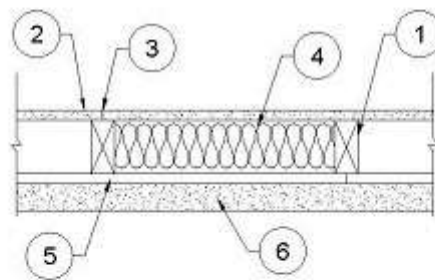
1-HOUR
(FIRE FROM EITHER SIDE)

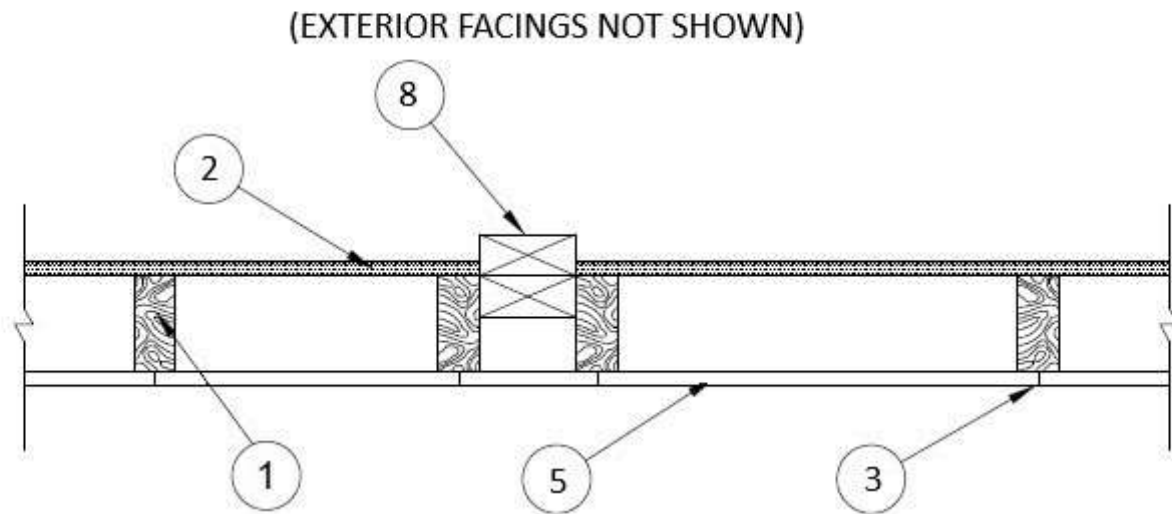


2-HOUR INTERIOR
1-HOUR EXTERIOR



2-HOUR EXTERIOR
1-HOUR INTERIOR





1. **Wood Studs** — Nom 2 by 4 in., spaced 16 in. OC with double 2 by 4 top and single 2 by 4 in, bottom plates. Studs effectively firestopped.

2. **Gypsum Board*** — Any $\frac{5}{8}$ in. thick UL Classified Gypsum Board that is eligible for use in Design Nos. L501, G512 or U305. **1 Hr rating** — Nom. $\frac{5}{8}$ in. thick, 4 ft. wide, applied vertically, or horizontally if all joints (side and butt end joints) of applied gypsum board are backed by the same type studs as specified in Item 1, and nailed to studs and bearing plates 7 in. OC. with 6d cement coated nails, 1- $\frac{7}{8}$ in. long, 0.0915 in. shank diam. and $\frac{1}{4}$ in. diam. head. Vertical joints centered over studs and staggered min. 1 stud cavity from the vertical joints of the building units (Item #5). **2 Hr rating** — two layers required, base layer nailed 6 in. OC. with 6d cement coated nails, 1- $\frac{7}{8}$ in. long, 0.0915 in. shank diam. and $\frac{1}{4}$ in. diam. head. The face layer nailed to the studs and bearing plates over the base layer, 8 in. OC with 8d cement coated nails, 2- $\frac{3}{8}$ in. long, 0.113 in. shank diam. $\frac{9}{32}$ in. diam. head. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity.

3. **Joints and Nail Heads** — Wallboard joints covered with tape and joint compound. Nail heads covered with joint compound.

4. **Batts and Blankets*** — Faced or unfaced mineral fiber insulation, 3-1/2 in. thick, minimum 2.87 pcf, friction fit in the wall cavity between stud, plates.

See **Batts and Blankets*** (BZJZ) category for names of Classified manufacturers.

5. **Building Units*** — Building units placed with the laminate face against or laminate face away from, and nailed to, the wood framing, with 1-7/8 in. long, 6d nails, spaced 6 in. OC. on the perimeter and 12 in. OC. in the field. Vertical joints centered on studs. Horizontal joints backed with nom. 2 by 4 wood blocking. **Areas of damage to laminate, no larger than the width between studs, may be repaired by the following:**

Damaged areas shall be backed with either one-sided LP FlameBlock/ BlazeGuard sheathing or minimum 1/2-inch gypsum board. When using BlazeGuard or FlameBlock, the laminated face must be installed in the same orientation as the initially installed building units. The gypsum board or building unit sheathing shall be securely fastened to 2x dimensional lumber on two sides with fasteners spaced 6 inches on center (OC), the lumber is then attached to the wall studs with fasteners at a minimum of 6 inches OC. Any repair shall extend a minimum of 6 in. above and below the damaged laminate and span the full width of the stud cavity.

LOUISIANA-PACIFIC CORP — Type BlazeGuard 1-Side

LOUISIANA-PACIFIC CORP — Type LP FlameBlock 1-Side

6. **Exterior Facings** — Required for 2 Hour Rating on the Exterior Face. The following exterior facing shall be installed in accordance with the manufacturer's installation instructions:

6A. **Brick** — Brick veneer, minimum thickness of 3.4 inches, meeting the requirements of local code agencies. Brick veneer attached to the studs with corrugated metal wall ties attached to each stud with 8d cement coated nails, every sixth course of bricks and max 32 in. OC horizontally. One in. air space provided between brick veneer and sheathing.

7. **Steel Framing Members*** — (Optional, Not Shown) — (For use with 1 hour rating only) – Resilient Channels — For use on the Gypsum Board (Item 2) side only. Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced 16 in. OC perpendicular to studs. Channels are attached to each stud (Item 1) at 16 in. OC with 1-1/4 in. Type W screws. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 2.

8. **Non-Bearing Wall Partition Intersection** — (Optional) — Two nominal 2 by 4 in. studs or nominal 2 by 6 in. studs nailed together with two 3 in. long 10d nails spaced a max. 16 in. OC. vertically and fastened to one side of the minimum 2 by 4 in. stud with 3 in. long 10d nails spaced a max. 16 in. OC. vertically. Intersection between partition wood studs to be flush with the 2 by 4 in. studs. The wall partition wood studs are to be framed by with a second 2 by 4 in. wood stud fastened with 3 in. long 10d nails spaced a max. 16 in. OC. vertically. Maximum one non-bearing wall partition intersection per stud cavity. Non-bearing wall partition stud depth shall be at a minimum equal to the depth of the bearing wall.

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

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