UL Product iQ®

UL Solutions

BXUV.V343 - 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.

Fire-resistance Ratings - ANSI/UL 263

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

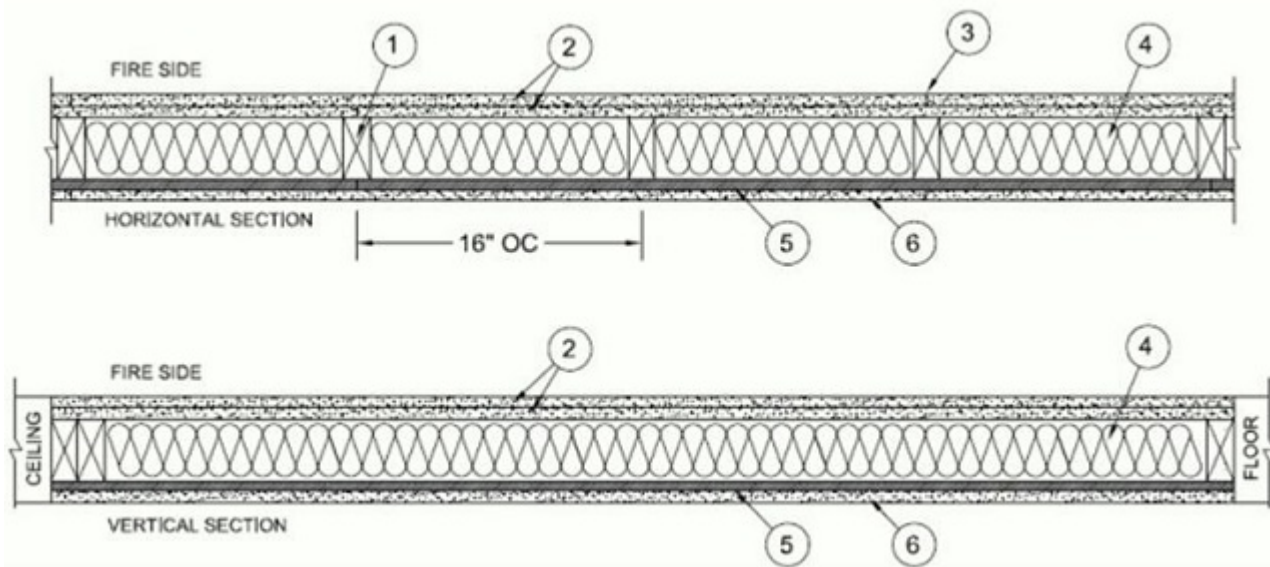**Design No. V343**

November 8, 2021

Bearing Wall Rating — 2 Hr Rating Exposed to Fire on Interior Face

Bearing Wall Rating - 1 Hr Rating Exposed to Fire on Exterior Face (See Item 7)

Finish Rating — 53 min (Exposed to Fire on Interior Face)

Loaded Per 2018 NDS Supplement, ASD Method, Wall Braced Mid-Height

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

1. **Structural Wood Members*** — Pressure-treated, fire-retardant Wood Studs - nominal 2 by 4 in., spaced 16 in. OC effectively fire-stopped. As an option, pressure-treated, fire-retardant Wood Studs nominal 2 by 6 in., spaced 24 in. OC effectively fire-stopped.

> **UFP INDUSTRIES INC** — ProWood® FR treated lumber

2. **Gypsum Board*** — Nom 5/8 in. thick, 4 ft. wide, two layers applied vertically. Base layer nailed to wood studs and bearing plates 6 in. OC. with 6d cement coated nails, 1-7/8 in. long, 0.0915 in. shank diam. and 1/4 in. diam. head. The face layer, with joints staggered from base layer, nailed to the studs and bearing plates over the base layer, 8 in. OC with 8d cement coated nails, 2-3/8 in. long, 0.113 in. shank diam. 9/32 in. diam. head.

> **AMERICAN GYPSUM CO –** Type AG-C
>
> **CERTAINTEED GYPSUM INC –** Type C
>
> **GEORGIA-PACIFIC GYPSUM L L C –** Type TG-C
>
> **NATIONAL GYPSUM CO** - Type FSW-C
>
> **PANEL REY S A** – Type PRC
>
> **UNITED STATES GYPSUM CO** – Type C

3. **Joints and Nail heads —** Gypsum board joints covered with tape and joint compound. Nail heads covered with joint compound.

4. **Batts and Blankets*** — Faced or unfaced glass fiber batts min. 3-1/2 in. thick, nom 0.8 pcf, friction fit in the wall cavity between stud, plates, and cross bracing. Insulation may be applied in multiple layers to achieve final thickness.

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

5. **Structural Wood Members*** — Pressure-treated, fire-retardant plywood installed vertically 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 and horizontal joints are backed by framing. Panels provided in nominal size of 48 in. wide by 96 in. long by 15/32 in. thick.

> **UFP INDUSTRIES INC** — ProWood® FR treated plywood

6. **Exterior Facings —** Any exterior facing, as authorized by the Authority Having Jurisdiction and installed in accordance with the manufacturer's installation instructions are allowed. Exterior facings may include, but are not limited to the following examples:

> 6A. **Molded Plastic*** — Solid vinyl siding mechanically secured to framing members in accordance with manufacturer's recommended installation details.
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> 6B. **Brick** — Brick veneer, 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.
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> 6C. **Particle Board Siding** — Oriented strand board, wafer board, or hard board exterior building sidings including patterned panels.

6D. **Plywood —** American Plywood Association rated siding including T1-11 and series 303 textures, rough sawn, MDO, brushed, channel grooved, and lap siding.

6E. **Cementitious Stucco —** Portland cement or synthetic stucco systems (e.g. EIFS) with self-furring metal lath or adhesive base coat. Thickness from 3/8 in. to 3/4 in. depending on system.

6F. **Fiber Cement Siding —** Fiber Cement Lap or Vertical Siding. Minimum 5/16 in. thick, fastened to studs through the Building Units, Item 5, with nails or screws, at the locations specified by the manufacturer.

7. **Exterior Facings** — (Not Shown) — Required for 1 Hour Rating on the Exterior Face. The following exterior facing shall be installed in accordance with the manufacturer's installation instructions:

7A. **Brick** — Brick veneer, minimum thickness of 2.3 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.

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Last Updated on 2021-11-08