

# BXUV.U401 - 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

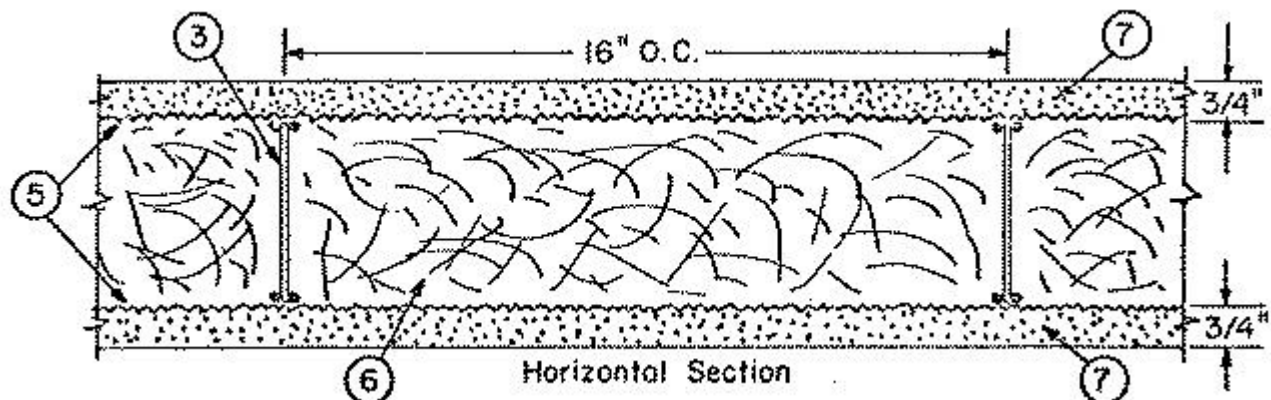
See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada  
Design Criteria and Allowable Variances

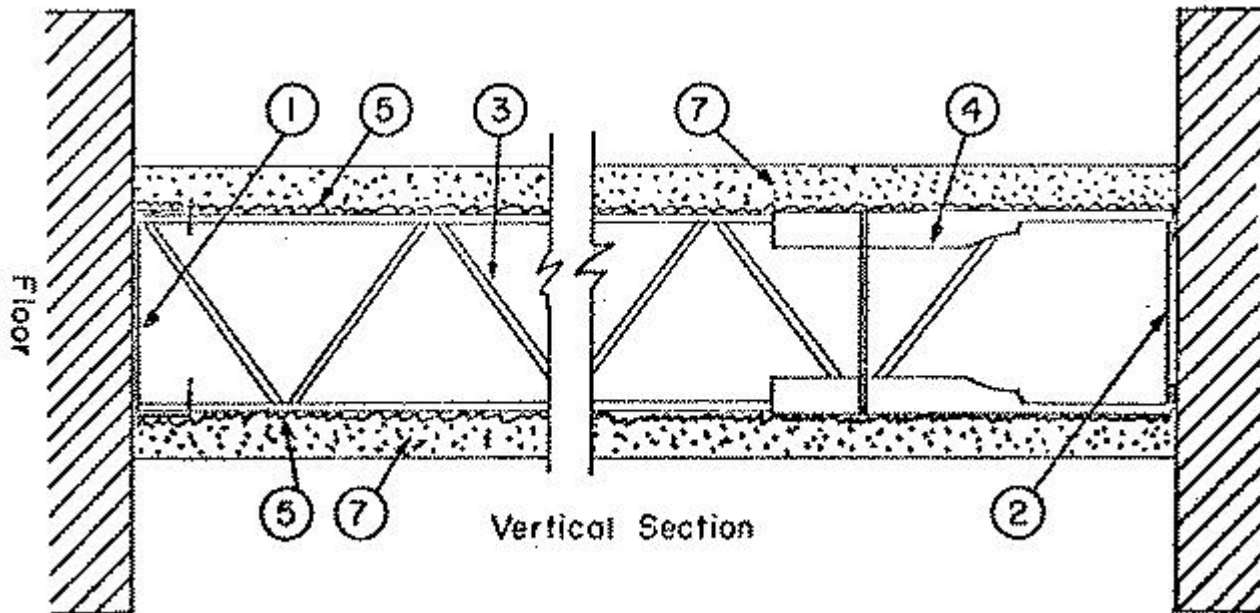
### Design No. U401

May 08, 2018

### Nonbearing Wall Rating — 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. **Floor Runner** — Channel shaped, snap-in type, 1-1/8 in. deep by 4 in. wide, No. 24 MSG painted steel, legs notched to form 3/16 by 9/16 in. rectangular cutouts spaced 2 in. OC. Secured with 1 in. long masonry fasteners spaced 24 in. OC.

2. **Ceiling and Side Wall Runners** — Channel shaped 1/2 in. deep by 4 in. wide, No. 22 MSG painted steel, secured with 1 in. long masonry fasteners spaced 24 in. OC.

3. **Wire Studs** — 4 in. wide, fabricated from No. 7 SWG painted steel wire, cut into lengths 3 in. less than wall height. Snapped in floor runner and attached to ceiling runner with tie wire and two stud shoes.

3B. **Channel Studs** — (Not shown) — As an alternate to wire studs. 4 in wide, No. 18GSG. Attached to runners with stud shoes and tie wire. Or 3-5/8 in. wide No. 18GSG, provided 4 in. cavity depth is maintained by means of 3/8 in. rib lath attached per Item 5, with ribbed side against the studs; or with steel spacer bars welded to the studs 16 in OC.

4. **Stud Shoes** — 7 in. long, No. 24 MSG galv steel, shaped to fit contour of stud. L-shaped legs inserted under ceiling runner and shoes tied in place with two strands of No. 18 SWG wire, double wrapped.

5. **Metal Lath** — Diamond mesh, expanded steel, 3.4 lbs per sq yd, 27- by 96-in. sheets tied to studs and at laps 6 in. OC with No. 18 SWG wire. Secured to the runners with 1/2 in. long, self-drilling, self-tapping sheet-metal screws and washers spaced 6 in. OC.

6. **Spray-Applied Fire Resistive Materials\*** — Sprayed to completely fill interior of wall. Minimum density of 11 pcf (Type D-C/F, II, or II HS). As an individual value. Min avg and min ind densities of 22 and 19 pcf, respectively, for Type HP. For method of density determination, refer to Design Information Section.

**ISOLATEK INTERNATIONAL** — Type D-C/F, II, II HS, or HP. Type EBS or Type X adhesive/sealer is optional.

7. **Plaster** — Scratch and brown coat of 2 cu ft of **vermiculite aggregate\*** to 100 lb of fibered or unfibered gypsum.

**SPECIALTY VERMICULITE CORP**

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Last Updated on 2018-05-08

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