



**Design No. W414
Design No. W414
BXUV.W414
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.
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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](#)

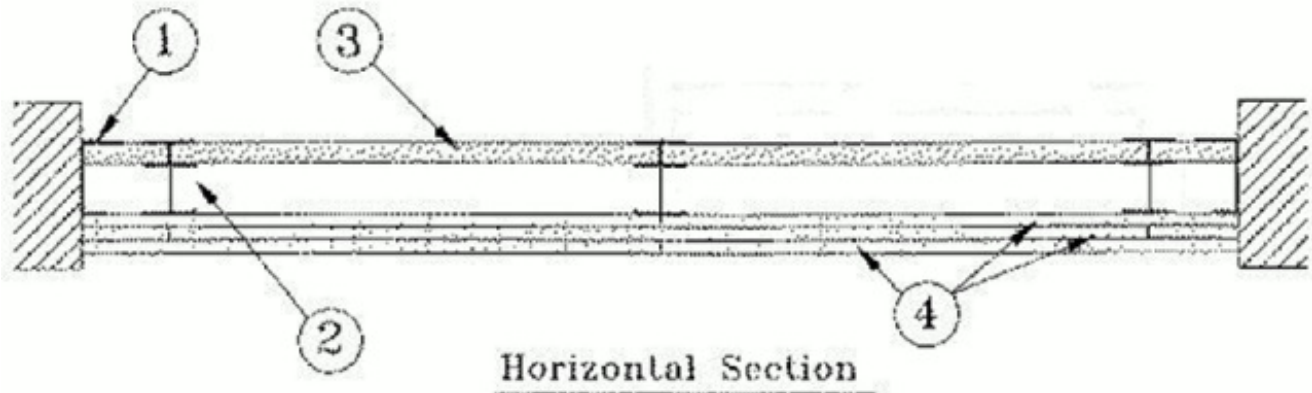
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Design No. W414

January 20, 2015

Nonbearing Wall Rating – 3 Hr

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1. **Floor, Side and Ceiling Runners** — "J" shaped channel, min 2-1/2 in. deep, with unequal legs of nominal 1 in. and 2 in., fabricated from min 25 MSG galv steel. Runners positioned with short leg toward finished side of wall. Runners attached to structural supports with steel fasteners located not greater than 2 in. from ends and not greater than 24 in. OC.

2. **Steel Studs** — "I" shaped studs, min 2-1/2 in. deep by 1-1/2 in. wide, fabricated from min 25 MSG galv steel. Cut to lengths 3/4 in. less than floor-to-ceiling height and spaced 24 in. OC.

2A. **Steel Studs** — (Not Shown) — As an alternate to Item 2 - "C-H" shaped studs, min 2-1/2 in. deep by 1-1/2 in. wide, fabricated from min 25 MSG galv steel. Cut to lengths 3/4 in. less than floor-to-ceiling height and spaced 24 in. OC

2B. **Steel Studs** — (Not Shown) — As an alternate to Item 2 - "C-T" shaped studs, min 2-1/2 in. deep by 1-1/2 in. wide, fabricated from min 25 MSG galv steel. Cut to lengths 3/4 in. less than floor-to-ceiling height and spaced 24 in. OC.

3. **Gypsum Board*** — 1 in. thick gypsum wallboard liner panels, supplied in nominal 24 in. widths. Vertical edges inserted in "I", "C-H", or "C-T" studs. Free edge of end panels attached to long leg of channel track with 1-5/8 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced not greater than 12 in. OC.

NATIONAL GYPSUM CO — Types FSW, FSW-7

4. **Gypsum Board*** — 5/8 in. thick, 4 ft wide wallboard applied vertically in three layers. Vertical joints centered over steel studs (Item 2, 2A, or 2B) and staggered min 24 in. First layer secured to studs with 1 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 24 in. OC at the perimeter and in the field. Second layer secured to studs with 1-5/8 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 12 in. OC at the perimeter and in the field. Joints in second layer shall be secured to first layer of gypsum board with 1-1/2 in. long Type G screws spaced 12 in. OC vertically, 2 in. from each side of the joint. Third layer secured to studs with 2-1/4 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 12 in. OC at the perimeter and in the field starting with a 6 in. stagger so as not to hit previous layers' screws. Joints in third layer also secured to inner layers with 1-1/2 in. long Type G screws spaced 12 in. OC vertically, 2 in. from each side of the joint.

NATIONAL GYPSUM CO — Types eXP-C, FSW-C, FSW-G, FSK-C, and FSK-G

5. **Joint Tape and Compound** — (Not Shown) — Joints on outer layer of gypsum board (Item 4) covered with paper tape and joint compound. Exposed screw heads covered with joint compound.

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