

## 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](#)

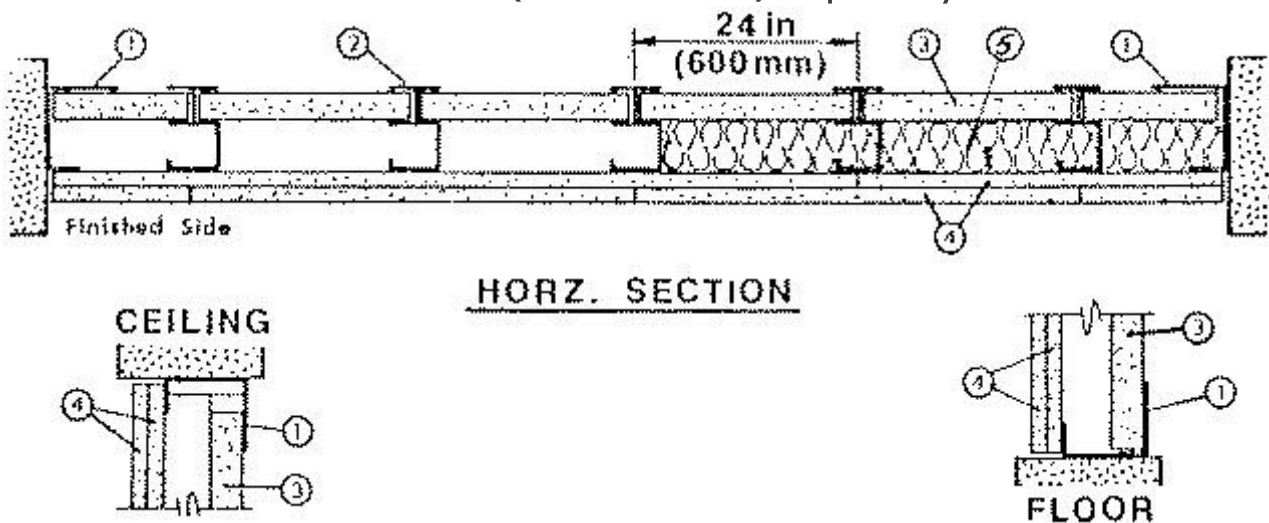
[See General Information for Fire Resistance Ratings – CAN/ULC-S101 Certified for Canada Design Criteria and Allowable Variances](#)

### Design No. U428

November 14, 2025

#### Nonbearing Wall Rating – 2 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 and Ceiling Runners** — "J" -shaped runners, min. 2-1/2 in. wide with unequal legs of 1 in. and 2-1/4 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 more than 2 in. from ends and not more than 24 in. OC.

**1A. Framing Members\* — Floor and Ceiling** — Not shown — As an alternate to Item 1 — For use with Item 2A, proprietary "J" -shaped runners, galv steel. Runners positioned with short leg toward finished side of wall. Runners attached to structural supports with steel fasteners located not more than 2 in. from ends and not more than 24 in. OC.

**RONDO BUILDING SERVICES PTY LTD** — Type J Runner Track

**1B. Steel Framing Members (Floor, Side and Ceiling Runners)\*** — As an alternate to Item 1. "J"-shaped runner, min 2-1/2 in. deep, with unequal legs of 1 in. and min 2-1/4 in. fabricated from min 25 MSG galv steel (0.0179 in. bare steel thickness). 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. Runners may be supplied with securement tabs for gypsum liner panels (refer to Item 3).

**SCAFCO STEEL STUD MANUFACTURING CO** — I-Stud Shaftwall Steel Framing System

**2. Steel Studs** — "C-T" or "C-H" shaped studs 1-5/8 in. wide by min. 2-1/2 in. deep, fabricated from min. 25 MSG galv steel. Cut to lengths 3/4 in. less than floor to ceiling height and spaced 24 in. or 600 mm OC.

**2A. Framing Members\* — Steel Studs** — As an alternate to Item 2 — Proprietary "C-H" shaped studs, galv steel. Cut to lengths 3/4 in. less than floor to ceiling height and spaced 24 in. or 600 mm OC.

**RONDO BUILDING SERVICES PTY LTD** — Type CH Stud

**2B. Steel Framing Members (Steel Studs)\*** — As an alternate to Item 2. For use with Item 1B - "I"-shaped studs fabricated from min 25 MSG galv steel, min 2-1/2 in. deep, 1-1/2 in. wide. Studs contain 3/4 in. wide by 2-1/4 in. high holding tabs spaced 2-3/4 in. OC. Cut to lengths 5/8 in. less than floor-to-ceiling height and spaced 24 in.

**SCAFCO STEEL STUD MANUFACTURING CO** — I-Stud Shaftwall Steel Framing System

**3. Gypsum Board\*** — 1 in. thick gypsum wallboard liner panels, supplied in nom. 24 in. or 600 mm (for metric spacing) widths. Panels cut 1 in. less in length than the floor to ceiling height. Vertical edges of the panels inserted into "T" shaped section of C-T studs or the "H" section of the C-H studs. Free edge of end panels secured to long leg of J runner with tabs in runner or 1-5/8 in. long Type S self-tapping bugle head steel screws spaced not more than 12 in. OC. When J-shaped runners (Item 1B) are supplied with securement tabs, free edge of end panels may be secured by bending the securement tabs, max 12 in. OC, to a 90 degree angle to securely friction-fit panels into J-shaped runners.

**AMERICAN GYPSUM CO** — Types AG-S, M-Glass

**CERTAINTEED GYPSUM INC** — Types ShaftlinerLGFCSL .

**GEORGIA-PACIFIC GYPSUM L L C** — Types TP-6, DGUSL, and TRSL

**NATIONAL GYPSUM CO** — Types FSW, FSW-B, FSW-7, FSW-9

**PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM** — Types PG-10 and PG-10G

**THAI GYPSUM PRODUCTS PCL** — Type Shaftliner

4. **Gypsum Board\*** — 1/2 or 5/8 in. thick, 4 ft wide, applied in two layers. Base layer attached horizontally to studs and side "J" runners with 1 in. long Type S self-tapping steel screws starting at 2 in. from the floor and ceiling runners and spaced a maximum 24 in. OC along the vertical edges and in the field of the boards.

Face layer installed vertically to studs and side "J" runners and attached with 1-5/8 in. long Type S self-tapping steel screws, starting at 3 in. from the floor and ceiling runners and spaced a maximum 12 in. OC along the vertical edges and in the field of the boards. Face layer joints covered with paper tape and two coats of joint compound. Exposed screw heads covered with two coats of joint compound.

**AMERICAN GYPSUM CO** — Types AG-C

**CABOT MANUFACTURING ULC** — 1/2 in Type C, 5/8 in. Type C.

**CERTAINTED GYPSUM INC** — Type C, Type X-1

**GEORGIA-PACIFIC GYPSUM L L C** — Types DAPC, TG-C.

**NATIONAL GYPSUM CO** — Types eXP-C, FSK, FSL, FSMR-C, FSW-3, FSW-6, FSW-8, FSK-C, FSW-C, FSW-G.

**PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM** — Types PG-C, 5/8 in. Type C.

**THAI GYPSUM PRODUCTS PCL** — Type C

4A. **Gypsum Board\*** — (As an alternate to Item 4) - Installed vertically only as described in Item 4. 5/8 in. thick, 4 ft. wide, paper surfaced.

**NATIONAL GYPSUM CO** — Type SBWB

4B. **Gypsum Board\*** — (As an alternate to Item 4) - For use with 1 in. Type FSW-7 gypsum board (Item 3) only. 5/8 in. thick, 4 ft wide, applied in two layers. Base layer attached vertically to studs and side "J" runners with 1 in. long Type S self-tapping steel screws spaced 16 in. OC. Face layer installed vertically to studs and side "J" runners and attached with 1-5/8 in. long Type S self-tapping steel screws spaced 12 in. OC. Face layer vertical joints staggered minimum one stud cavity from base layer vertical joints. Face layer joints covered with paper tape and two coats of joint compound. Exposed screw heads covered with two coats of joint compound.

**5. Batts and Blankets\*** — (optional) — Mineral wool or glass fiber batts partially or completely filling stud cavity. Any mineral wool or glass fiber batt material bearing the UL Classification Marking as to Fire Resistance.

**5A. Fiber, Sprayed\*** — As an alternate to Batts and Blankets (Item 5) — (100% Borate Formulation) — Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product with a nominal dry density of 2.7 lb/ft<sup>3</sup>. Alternate Application Method: The fiber is applied without water or adhesive at a nominal dry density of 3.5 lb/ft<sup>3</sup>, in accordance with the application instructions supplied with the product.

**Applegate Greenfiber Acquisition LLC** — Insulmax and SANCTUARY for use with wet or dry application.

**5B. Fiber, Sprayed\*** — As an alternate to Batts and Blankets (Item 5) and Item 5A – Spray applied cellulose insulation material. The fiber is applied with water to interior surfaces in accordance with the application instructions supplied with the product. Applied to completely fill the enclosed cavity. Minimum dry density of 4.3 pounds per cubic ft.

**NU-WOOL CO INC** — Cellulose Insulation

**5C. Fiber, Sprayed\*** — As an alternate to Batts and Blankets (Item 5) – Spray applied cellulose fiber. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. The minimum dry density shall be 4.30 lbs/ft<sup>3</sup>.

**INTERNATIONAL CELLULOSE CORP** — Celbar-RL

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Last Updated on 2025-11-14

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