



BXUV.V410 Fire Resistance Ratings - ANSI/UL 263

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- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Listed or Classified 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 as Classified, Listed, or Recognized.

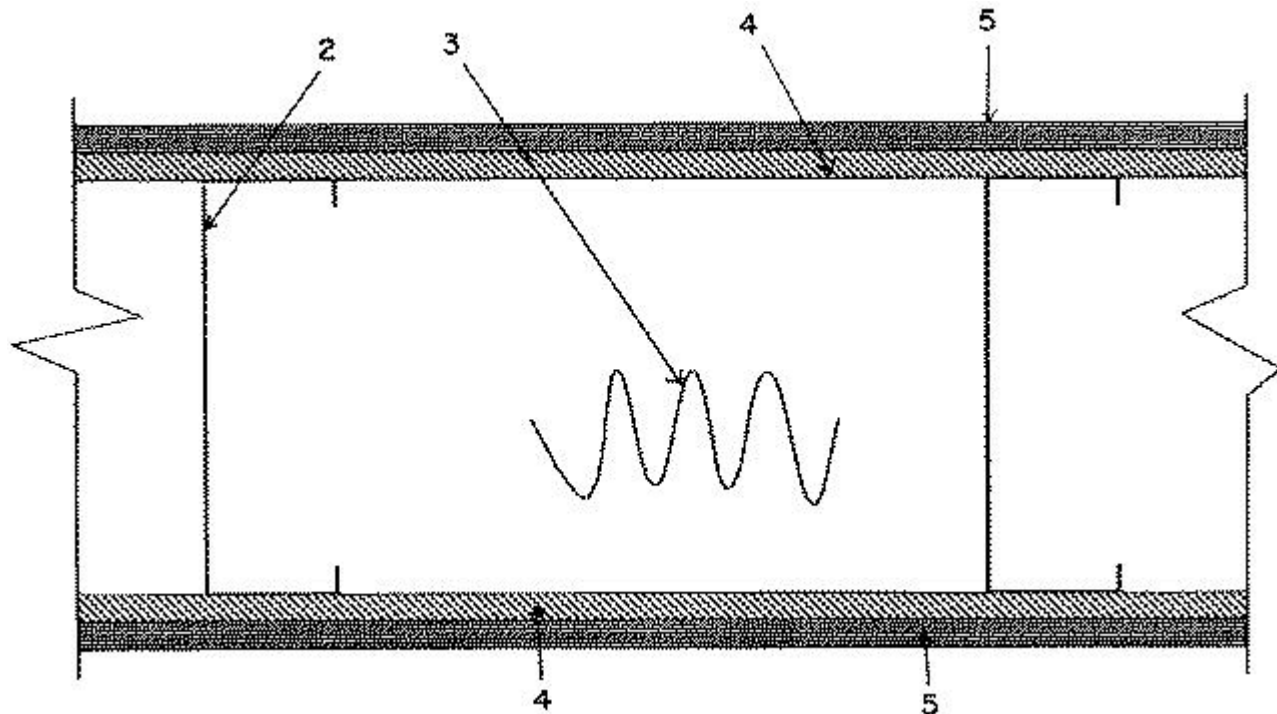
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Design No. V410

March 23, 2009

Nonbearing Wall Rating 2 HR.



1. **Floor and Ceiling Runner** — (Not Shown) — 25 MSG (min) galv steel 1 in. high, return legs 1-5/8 in. wide (min) attached to floor and ceiling with fasteners 24 in. OC.

1A. **Framing Members - Floor and Ceiling Runner*** — Not shown - In lieu of Item 1 — For use with Item 2A, proprietary channel shaped runners, 1-1/4 in. deep by 1-5/8 in. wide fabricated from min 0.0200 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

MARINO\WARE A DIV OF WARE INDUSTRIES

INC — Viper20S™ Track, Viper20D™ Track

2. **Steel Studs** — 1-5/8 in. wide (min), 1-1/4 in. legs, 1/4 in. return, formed of 25 MSG (min) galv steel max stud spacing 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

2A. **Framing Members - Metal Studs*** — Not shown - In lieu of Item 2 — For use with Item 1A, proprietary channel shaped steel studs, 1-1/4 in. deep by 1-5/8 in. wide fabricated from min 0.0200 in. thick galv steel. Studs 3/4 in. less in lengths than assembly heights. Spaced 24 in. OC max.

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3. **Batts and Blankets*** — (Optional) — Mineral wool or glass fiber batts, partially or completely filling stud cavity. Fasten each batt to building unit with a min 9/16 in. long staple. Use five staples for each 4 ft long piece. Drive one staple in the center of each piece and a staple at each corner, approx 3 in. from edges.

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

3A. **Fiber, Sprayed*** — As an alternate to Batts and Blankets (Item 3) — 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. Nominal dry density of 3.0 lb/ft³. Alternate application method: The fiber is applied with U.S. Greenfiber LLC Type AD100 hot melt adhesive at a nominal ratio of one part adhesive to 6.6 parts fiber to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. Nominal dry density of 2.5 lb/ft³.

U S GREENFIBER L L C — Cocoon2 Stabilized or Cocoon-FRM (Fire Rated Material)

3B. **Fiber, Sprayed*** — As an alternate to Batts and Blankets (Item 3) and Item 3A - 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

4. **Building Unit*** — Nom 1/2 in. thick, faced gypsum wallboard panel with the faced side on the interior wall cavity. Panel vertically attached to studs with 1 in. long Type S steel screws spaced 24 in. OC along vertical edges and 24 in. OC in the field.

GENERAL ELECTRIC CO — Type LexCore

MOMENTIVE PERFORMANCE MATERIALS — Type CoreGuard

5. **Gypsum Board*** — 1/2 in. thick. (Laminated System) Wallboard laminated to building unit with joint compound, applied with a notched spreader producing continuous beads of compound about 3/8 in. diam, spaced not greater than 2 in. OC. Joints of wallboard offset 12 in. from building unit joints. Wallboard attached to building unit with 1-1/2 in. long Type G steel screws spaced 24 in. OC along edges and center line of each sheet.

Optional (Direct Attached System) Wallboard attached to the studs over the building unit with 1-5/8 long Type S steel screws spaced 12 in. OC in the field, along the vertical edges, and to the floor and ceiling runners. Joints of screw-attached wallboard offset from inner building unit joints.

Optional (Direct Attached System) Wallboard attached to the studs over the building unit with 1-5/8 in. long Type S steel screws spaced 12 in. OC in the field, along the vertical edges, and to the floor and ceiling runners. Wallboard secured to building unit with 1-1/2 in. long Type G steel screws located midway between studs and 1 in. from the horizontal joint.

Wallboard joints covered with joint tape and min two coats of joint compound and screw heads covered with min two coats of joint compound. As an alternate, nom 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard. Joints reinforced.

CANADIAN GYPSUM COMPANY — Types C, IP-X2, IPC-AR.

UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR.

USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR.

*Bearing the UL Classification Mark

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