BXUV.V481
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 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.

Fire Resistance Ratings - ANSI / UL 263

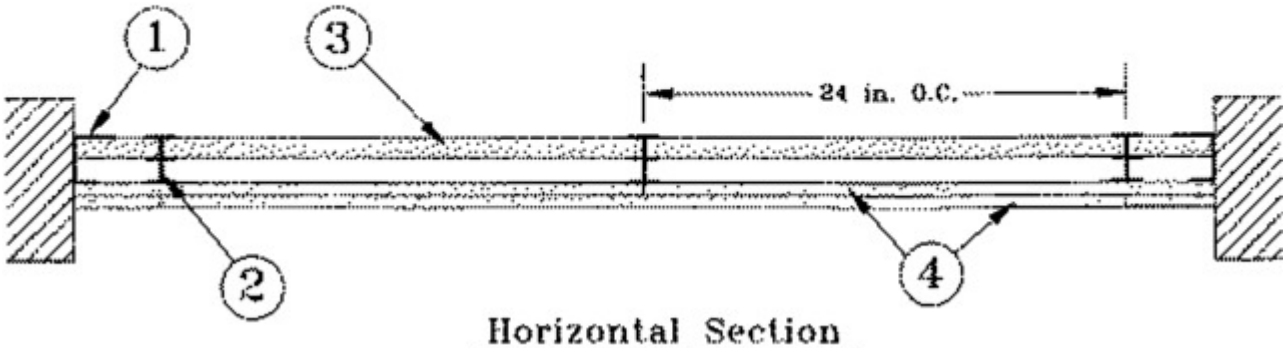
See General Information for Fire Resistance Ratings - ANSI/UL 263

Design No. V481

July 01, 2010

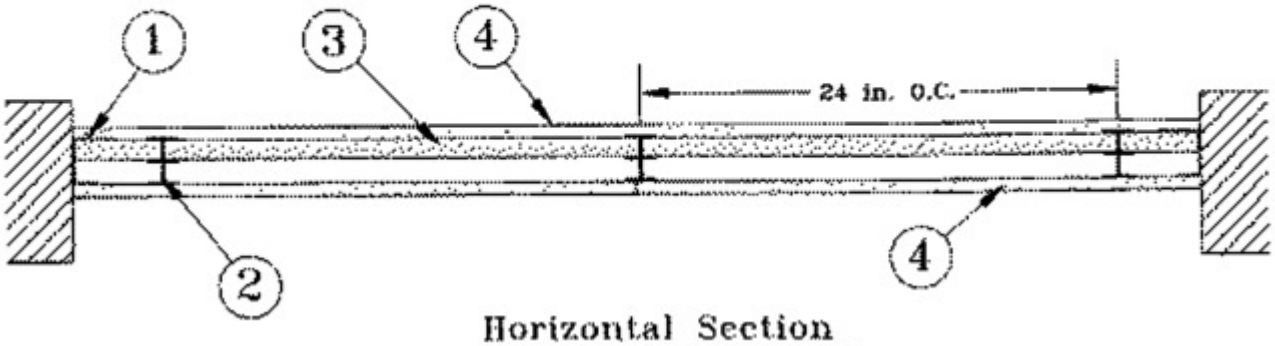
Nonbearing Wall Ratings — 1, 2 and 3 Hr (See Items 3 and 4)

System A – 2 Hr.



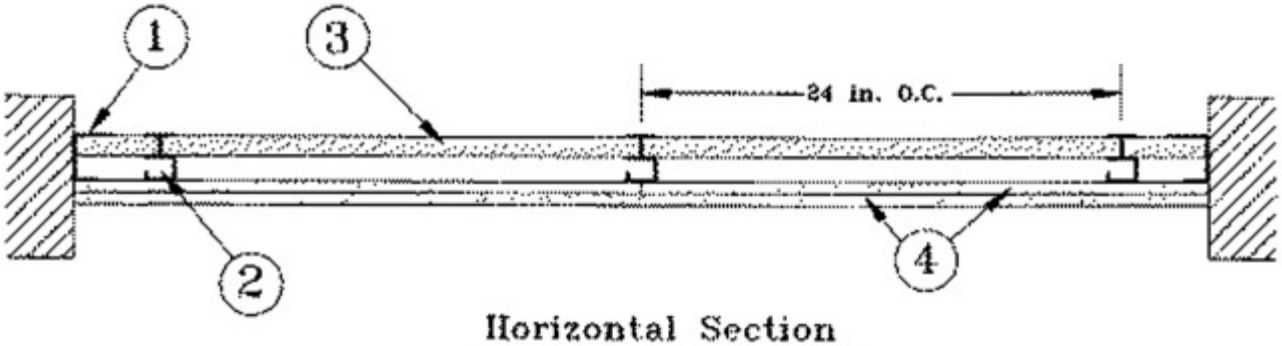
Horizontal Section

System B – 2 Hr.



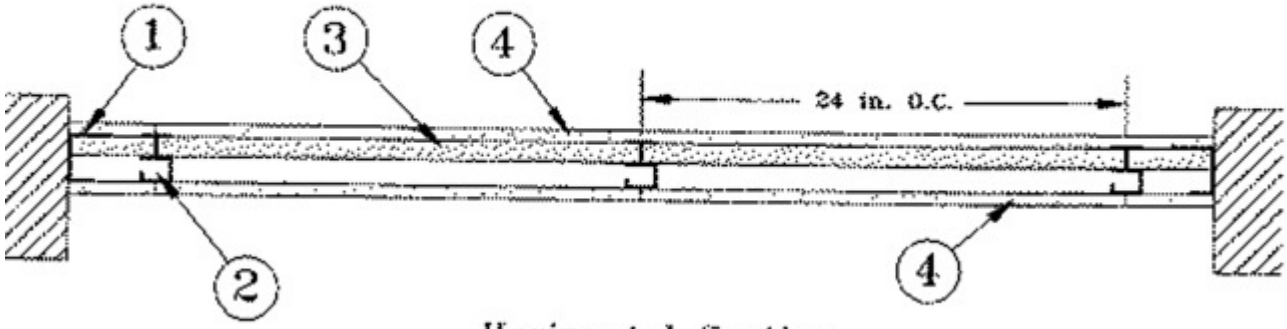
Horizontal Section

System C – 2 Hr.



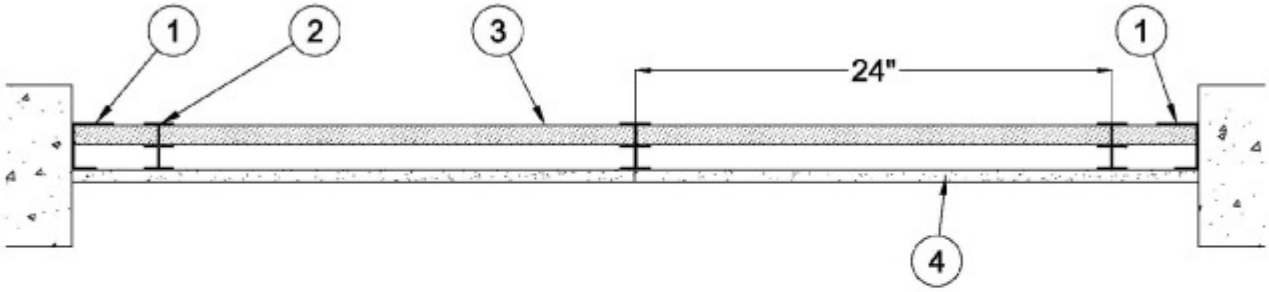
Horizontal Section

System D – 2 Hr.

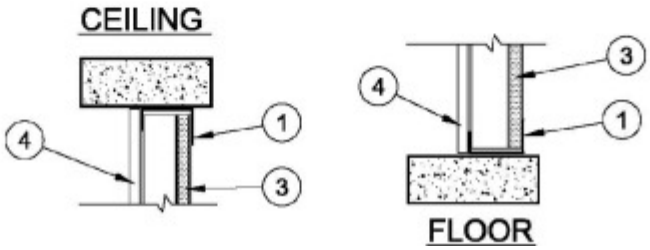


Horizontal Section

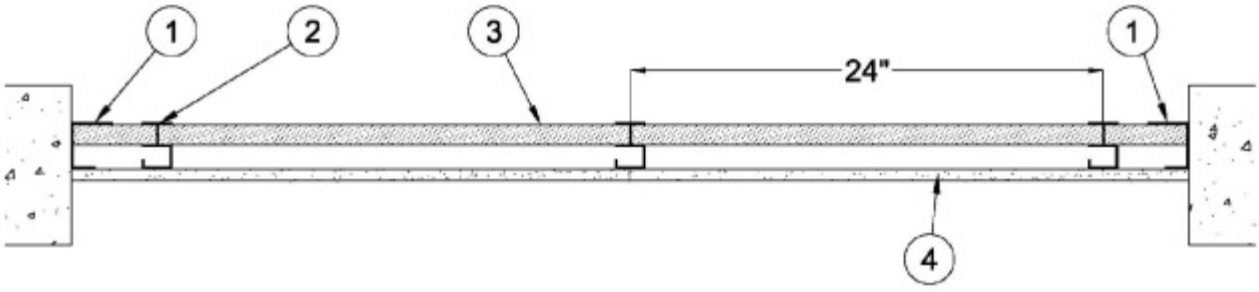
SYSTEM E - 1 HR.



HORIZONTAL SECTION

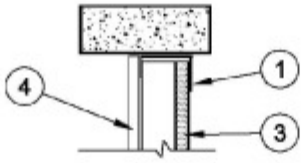


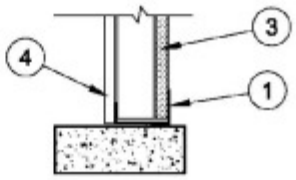
SYSTEM F - 1 HR.



HORIZONTAL SECTION

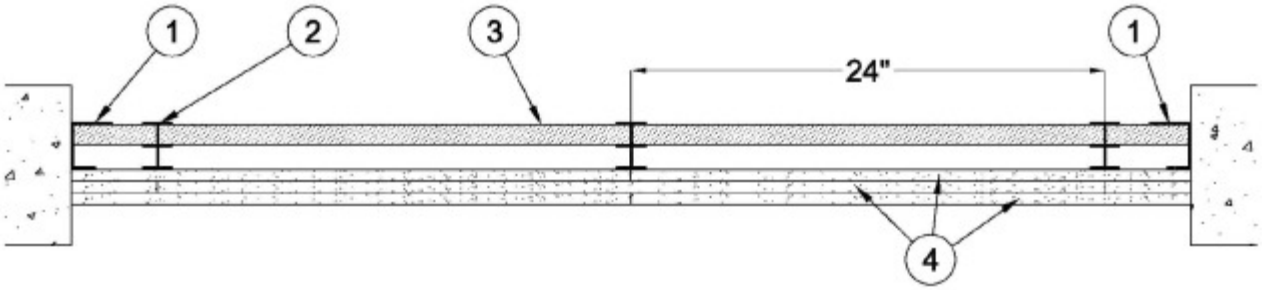
CEILING





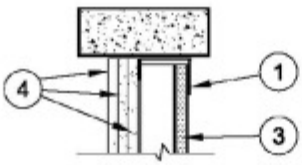
FLOOR

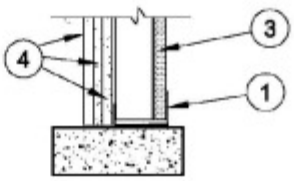
SYSTEM G - 3 HR.



HORIZONTAL SECTION

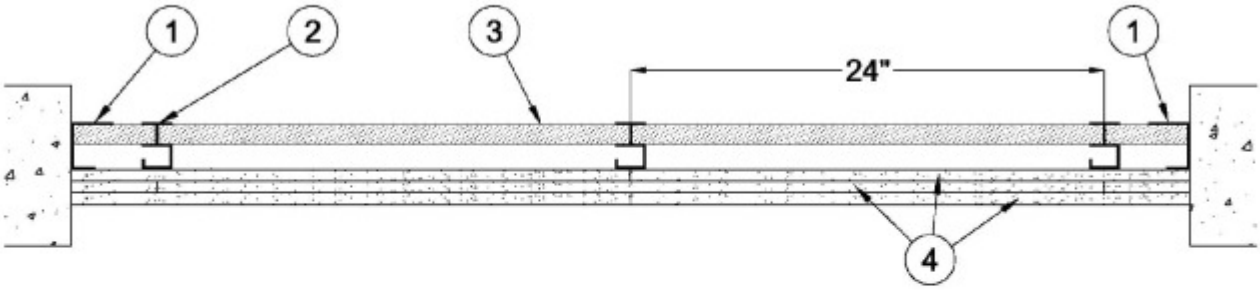
CEILING



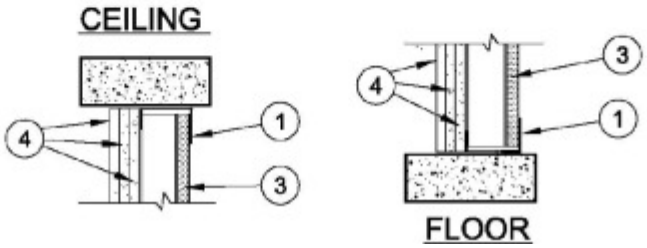


FLOOR

SYSTEM H - 3 HR.



HORIZONTAL SECTION



1. **Floor, Side and Ceiling Runners —** "J" -shaped runner, min 2-1/2 in. deep, with unequal legs of 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 —**

Systems A B , E and G

"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 3/4 in. less than floor-to-ceiling height and spaced 24 in.

Systems C, D, F, and H

"C-T" or "C-H" -shaped studs, min 2-1/2 in. deep, 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.

3. **Gypsum Board* —** Gypsum liner panels, nom 1 in. thick, 24 in. wide. Panels cut max 1 in. less in length than floor to ceiling height. Vertical edges inserted in "T" -shaped section of "C-T" studs or holding tabs of "I" studs. Shaftliner held in place by the tabs of the steel studs, spaced 24 in. OC.

LAFARGE NORTH AMERICA INC — Type LGFCSL

4. **Gypsum Board* —**

Systems A and C

Gypsum panels, nom 1/2 or 5/8 in. thick, 48 in. wide, applied in one of the following methods. Method 1 — Base layer installed horizontally to steel studs with 1 in. long Type S self-drilling, self-tapping bugle head steel screws spaced 24 in. OC. Face layer installed vertically to steel studs with 1-5/8 in. long Type S self-drilling, self-tapping bugle head steel screws spaced 12 in. OC. Method 2 — Base layer installed vertically to steel studs with 1 in. long Type S self-drilling, self-tapping bugle head steel screws spaced 24 in. OC. Face layer installed horizontally to steel studs with 1-5/8 in. long Type S self-drilling, self-tapping bugle head steel screws spaced 12 in. OC.

LAFARGE NORTH AMERICA INC — 1/2 in. thick Type LGFC-C/A, 5/8 in. thick Type LGFC6A

Systems B and D

Gypsum panels, nom 1/2 or 5/8 in. thick, 48 in. wide, applied vertically or horizontally to steel studs with 1 in. long Type S self-drilling, self-tapping bugle head steel screws spaced 12 in. OC.

LAFARGE NORTH AMERICA INC — 1/2 in. thick Type LGFC-C/A, 5/8 in. thick Type LGFC6A

Systems E and F

Gypsum panels, 5/8 in. thick, 48 in. wide, applied in the following method for a 1 Hour Rating — One layer installed vertically to steel studs with 1 in. long Type S self-drilling, self-tapping bugle head steel screws spaced 12 in. OC.

LAFARGE NORTH AMERICA INC — Types LGFC6A, LGFC-C/A

Systems G and H

Gypsum panels, 5/8 in. thick, 48 in. wide, applied horizontally or vertically for a 3 Hour Rating — Base layer attached to the steel studs with 1 in. long Type S self-drilling, self-tapping bugle head steel screws spaced 24 in. OC.; 2nd layer installed with 1-5/8 in long Type S self-drilling, self-tapping bugle head steel screws spaced 24 in. OC and staggered 12 in. from base layer; Face layer installed to steel studs with 2-1/4 in. long Type S self-drilling, self-tapping bugle head steel screws spaced 24 in. OC in the perimeter and 16 in. OC. in the field and staggered 12 in. from 2nd layer and 24 in. from base layer. Horizontal joints need not be backed by steel framing.

LAFARGE NORTH AMERICA INC — Type LGFC-C/A

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) — 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/ft^3. 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/ft^3.

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

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

6. **Joint Tape and Compound —** (Not shown) — Joints covered with joint compound and paper or mesh tape. Screw heads covered with joint compound.

*Bearing the UL Classification Mark

Last Updated on 2010-07-01