



BXUV.V444 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.
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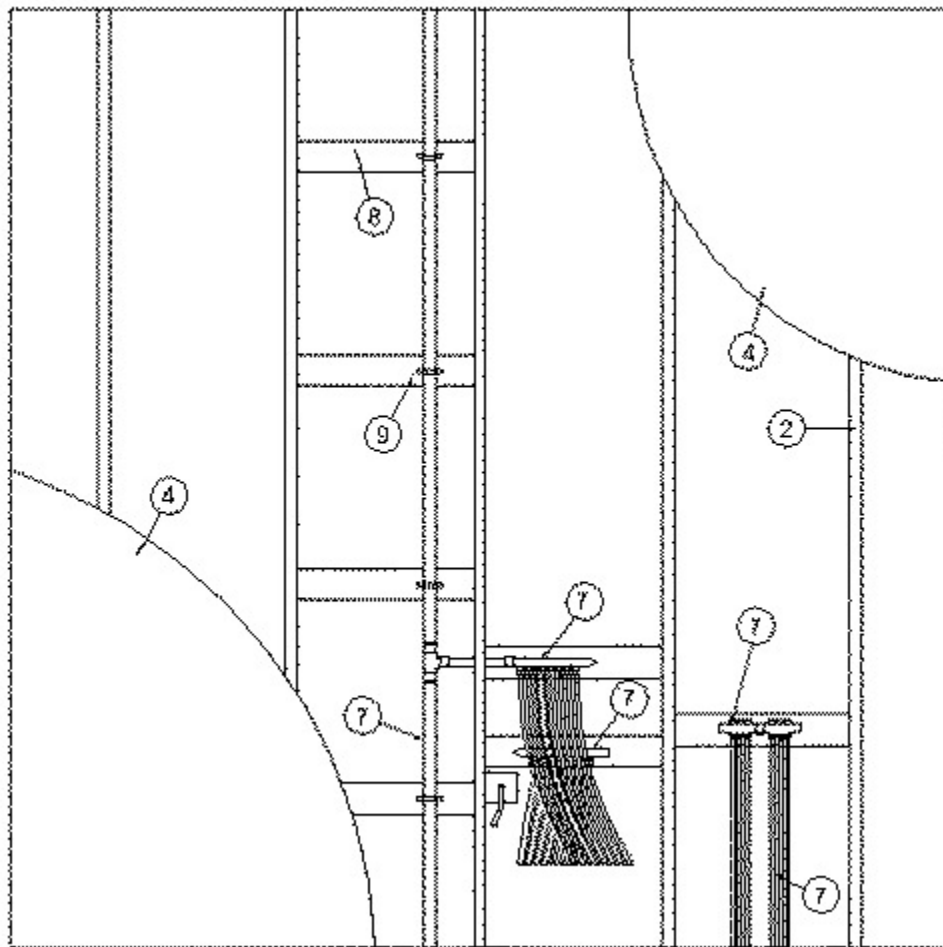
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[See General Information for Fire Resistance Ratings - ANSI/UL 263](#)

Design No. V444

March 23, 2009

Nonbearing Wall Rating — 1 HR.



1. **Floor and Ceiling Runners** — (not shown) - Channel shaped runners, 3-5/8 in. wide (min), 1-1/4 in. legs, formed from min No. 25 MSG (min No. 20 MSG when Item 4C is used) galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

1A. **Framing Members - Floor and Ceiling Runner*** — Not shown - In lieu of Item 1 - Not for use with Item 4C — For use with Item 2A, proprietary channel shaped runners, 1-1/4 in. deep by 3-5/8 in. wide fabricated from min 0.0200 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

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INC — Viper20S™ Track, Viper20D™ Track

2. **Steel Studs** — Channel shaped, 3-5/8 in. wide (min), 1-1/4 in. legs, 3/8 in. folded back returns, formed from min No. 25 MSG (min No. 20 MSG when Item 4C is used) galv steel spaced 24 in. OC max.

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

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INC — Viper20S™, Viper20D™

3. **Batts and Blankets*** — (Optional, Not shown) - Mineral wool or glass fiber batts partially or completely filling stud cavity.

See **Batts and Blankets (BZJZ)** category for names of Classified companies.

4. **Gypsum Board*** — 5/8 in. thick, 4 ft wide, attached to steel studs and floor and ceiling track with 1 in. long, Type S steel screws spaced 8 in. OC. along edges of board and 12 in. OC in the field of the board. Joints oriented vertically and staggered on opposite sides of the assembly. When attached to item 6 (resilient channels) or 6A (furring channels), wallboard is screw attached to furring channels with 1 in. long, Type S steel screws spaced 12 in. OC.

CANADIAN GYPSUM COMPANY — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or WRX.

UNITED STATES GYPSUM CO — Type AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX, USGX (Joint tape and compound, Item 5, optional for use with Type USGX).

USG MEXICO S A DE C V — Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or WRX.

4A. Gypsum Board* — (As an alternate to Items 4 or 4A) - Nom 3/4 in. thick, 4 ft wide, installed as described in Item 4A with screw length increased to 1-1/4 in.

CANADIAN GYPSUM COMPANY — Types AR, IP-AR.

UNITED STATES GYPSUM CO — Types AR, IP-AR.

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

5. Joint Tape and Compound — (Not Shown) - Vinyl, dry or premixed joint compound, applied in two coats to joints and screw heads; paper tape, 2 in. wide, embedded in first layer of compound over all joints. As an alternate, nominal 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard. Joints reinforced.

6. Resilient Channel — (Optional-Not Shown) - 25 MSG galv steel resilient channels spaced vertically max 24 in. OC, flange portion attached to each intersecting stud with 1/2 in. long type S-12 panhead steel screws. Not for use with Type FRX gypsum panels.

7. Non-Metallic Plumbing System Components * — 1/2 in., 5/8 in., 3/4 in., 1 in., 1-1/4 in. 1-1/2 in. and 2 in. diameter tubing attached to cross bracing (item 8) with steel or copper fasteners (item 9). The tubing may be connected to standard copper or brass plumbing components, tees, bend supports and manifolds within the cavity. Plastic manifolds and fittings with a weight not exceeding 1.0 lb. per cavity, may be used in lieu of or in addition to copper or brass manifolds. The maximum amount of tubing per stud cavity shall be 1.3 lbs./ft and shall not exceed a total weight per stud cavity of 8.0 lbs.

UPONOR WIRSBO, DIV OF UPONOR CANADA

INC — Types AquaPex, AquaPex Plus and HePex Plus

8. Cross Bracing — Standard No. 25 MSG, 3-5/8 in. wide (min), 1-1/4 in. legs, 3/8 in. folded back returns, or 2x4 dimensional lumber cut to fit within the stud cavity. The maximum spacing between cross bracing in cavities that contain tubing shall be 29 in. OC. The bracing shall be screw attached to the studs using standard 1 in. long Type S screws.

9. Fasteners — Standard copper, brass or steel plumbing fasteners. The shall be screw attached to the bracing using a minimum 7/8 in long screw.

*Bearing the UL Classification Mark

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