

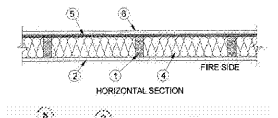
WALL LEGEND table with columns: Detail Mark, Symbol, Description, Rtg Rating, System, Sound Rating, Sound Test, Thickness (Finished), Detail Number. Includes items A through G.

Notes: 1. Wall types are noted on the partial plans for each enlarged area. 2. Elevator Shaft wall (Wall Type E) when adjacent to a unit will have an additional 2x4 wall with 1 layer of 5/8" gyp. bd. and R-13 Batt insulation...

Design No. U356 March 18, 2016 (Exposed to Fire on Interior Face Only)

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used.

\*Indicates such products shall bear the UL or eUL Certification Mark for jurisdictions employing the UL or eUL Certification (such as Canada), respectively.



laterally braced by wood structural panel sheathing (Item 5). When Mineral and Fiberglass (Item 5A) are considered as bracing for the studs, the load is restricted to 70% of allowable axial load. Walls effectively fire exposed on exterior side of wall with 1-1/2 in. long galvanized roofing nails spaced 6 in. OC at perimeter of panels and 12 in. OC along interior studs...

U355, Nom 5/8 in., thick, 4 in. wide, applied vertically and nailed to studs and bearing plates 2 in. OC with 6d cement-coated nails, 1-7/8 in. long with 1/4 in. diam head.

When Item 7, Steel Framing Members\*, is used, gypsum panels attached to furring channels with 1 in. long Type S high-head steel screws spaced 12 in. OC.

When Item 7A, 7B, or 7C Steel Framing Members\*, is used, two layers of gypsum panels attached to furring channels. Rear layer attached to furring channels with 1 in. long Type S high-head steel screws spaced 12 in. OC. Face layer attached to furring channels with 1-3/8 in. long Type S high-head steel screws spaced 12 in. OC. All joints in face layers staggered with joints in base layer.

See Item 7, Steel Framing Members\*, is used, gypsum panels attached to furring channels with 1 in. long Type S high-head steel screws spaced 12 in. OC.

See Design Nos. U351, G312 or U355, supplied by the Classified Companies listed below, using the Gypsum Board (CKX) category. Applied vertically and attached to studs and bearing plates with 1-1/4 in. long Type V coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board.

CGC INC UNITED STATES GYPSUM CO USG MEXICO SA DE CV attached to studs and bearing plates with 1-1/4 in. long Type V coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board.

Soft-T-Type X, Type X ComfortGuard Sound Densifying Gypsum Board panels applied horizontally and attached to studs and bearing plates with 1-1/4 in. long Type V coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board. Fasten Rating to 25 min.

Type X-Shaft-Type X applied vertically only and fastened to the studs and plates with 6d cement coated nails 1-7/8 in. long, 0.9915 in. shank diam and 1/4 in. diam heads, 2 in. OC.

described in Item 2.

applied vertically only and fastened to the studs and plates with 6d cement coated nails 1-7/8 in. long, 0.9915 in. shank diam and 1/4 in. diam heads, 2 in. OC.

wide panels, secured as described in Item 2.

applied either horizontally or vertically. Gypsum panels fastened to framing with 1 in. long Type V coarse thread gypsum panel steel screws spaced a maximum 18 in. OC with the last two screws 2 in. from the edge of the board.

LGFC-A, Type LGFC-C, Type LGFC-W, Type LGLX joint compound.

and plates. Mineral fiber insulation to be on both sides of a minimum of 3 plies of fire-rated insulation to be faced with aluminum foil or kraft paper and to have a min density of 2.0 lb./cu. ft. (0.3 normal insulation rating).

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 2.0 lb./cu. ft. (0.3 normal insulation rating).

INS35, (INS45, INS74D, and INS74D are to be used for dry application only).

to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. Nominal dry density of 4.5 lb./cu. ft.

"Sheeting". Installed with long dimension of sheet (rough axis) or face grain of ply and parallel with or perpendicular to studs. Vertical joints center of an inch. Horizontal joints spaced with 2 in. 4 in. wood blocking. Attached to studs on exterior side of wall with 6d cement coated nails spaced 6 in. OC at perimeter of panels and 12 in. OC along interior studs.

4 Exterior Bearing Wall 1 Hour Rated Wall Assembly

Design No. Y624 March 22, 2013 Ratings = 1, 1-1/2 and 2 Hr (See Item 3) \* Indicates such products shall bear the UL or eUL Certification Mark for jurisdictions employing the UL or eUL Certification (such as Canada), respectively.



minimum sizes shown in the tables below: 1. thickness of a modified alkyl primer or 50 micron (2 mil) of an acrylic primer; 2. the manufacturer's instructions at the minimum average dry thickness shown in the thickness below. The thickness shown does not include primer thickness.

Table listing required thickness (min) for various pipe sizes (1/2 to 3) and wall thicknesses (60 min, 90 min, 120 min).

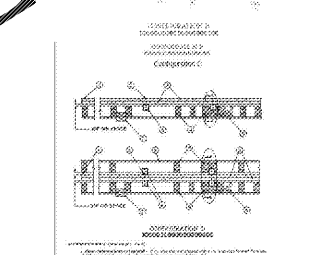
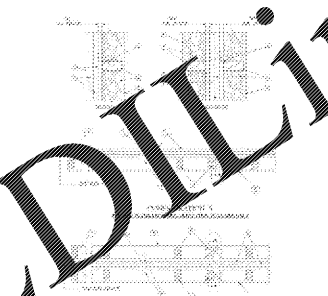
Table listing required thickness (min) for various pipe sizes (1/2 to 3) and wall thicknesses (60 min, 90 min, 120 min).

CONDITIONED SPACE AND INTERIOR GENERAL PURPOSE \* Indicates such products shall bear the UL or eUL Certification Mark for jurisdictions employing the UL or eUL Certification (such as Canada), respectively.

INTERIOR CONDITIONED SPACE AND INTERIOR GENERAL PURPOSE \* Indicates such products shall bear the UL or eUL Certification Mark for jurisdictions employing the UL or eUL Certification (such as Canada), respectively.

3 Typical Steel Column 2 Hour Rated Column Assembly

Design No. U336 March 08, 2016 Exposed to fire from separation wall side only \* Indicates such products shall bear the UL or eUL Certification Mark for jurisdictions employing the UL or eUL Certification (such as Canada), respectively.



Corrosion resistant steel studs, min No. 20 MSG (0.8329 in. min. bare metal thickness) and steel min 3/16 in. wide, min No. 20 G/G (0.818 in. thick) galv steel or No. 20 MSG (0.8329 in. thick) primed steel, cold form steel, shall be installed in accordance with the current edition of the Specification for the Design of Cold-Formed Steel Structural Members by the American Iron and Steel Institute. All design details enhancing the structural integrity of the wall assembly, including the axial design load of the studs, shall be as specified by the steel stud manufacturer and/or producer, and shall meet the requirements of all applicable local code agencies. The max spacing of all assemblies shall not exceed 24 in. OC, studs attached to floor and ceiling tracks shall be attached to floor and ceiling tracks on both sides of studs or by welded or bolted connections designed in accordance with the AISI specification. Top and bottom tracks shall consist of steel members, min No. 20 MSG (0.8329 in. min. bare metal thickness) steel or min No. 20 G/G (0.818 in. thick) galv steel or No. 20 MSG (0.8329 in. thick) primed steel, that provide a rigid structural connection between stud ends, and to adjacent assemblies such as floor, ceiling and/or other walls. Attached to floor and ceiling assemblies with steel hangers spaced no greater than 24 in. OC. Studs or end studs shall extend through the full height and where necessary for clip attachment. Min 3/4 in. separation between steel framing and area separation wall. Flash rating has not been evaluated for Steel Studs.

drywall installed vertically. Gypsum board attached to studs with 1-1/4 in. long steel drywall nails spaced 8 in. OC. Vertical joints located over studs. (Optional) Joints over studs with paper tape and joint compound. Nail heads covered with joint compound.

legs, clips secured with Type Screws 5/8 in. long to Type W screws 1/4 in. long with wood framing through holes provided in clip. 4A, Clip placement (Item 4B for separation walls up to 23 ft high. Space clips a max of 18 in. apart. For upper 24 ft, space clips as described in Item 4B for 20 ft, below the upper 24 ft. Remaining wall area below requires clip spacing a max of 48 in. OC, vertically between wood framing and 1/4" studs. 4B, Clip placement (Item 4B for separation walls up to 44 ft high. Space clips as described in Item 4A, for upper 24 ft, Below remaining wall area below requires clip spacing a max of 48 in. OC, vertically between wood framing and 1/4" studs. 4C, Clip placement (Item 4B for separation walls up to 66 ft high. Space clips as described in Item 4A, for upper 24 ft, Below remaining wall area below requires clip spacing a max of 48 in. OC, vertically between wood framing and 1/4" studs. 4D, Clip placement (Item 4B for separation walls up to 44 ft high. Space clips as described in Item 4A, for upper 24 ft, Below remaining wall area below requires clip spacing a max of 48 in. OC, vertically between wood framing and 1/4" studs.

2 Building Separation / Horizontal Exit Wall 2 Hour Rated Wall Assembly

Design No. U905 March 11, 2016

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used.

\*Indicates such products shall bear the UL or eUL Certification Mark for jurisdictions employing the UL or eUL Certification (such as Canada), respectively.



Where combustible members are framed in wall, plastic sheathings shall be applied on the face opposite framing joist cavity. Classification: D-2 (3A). Attached to concrete blocks (Item 1).

expanded cork sheath (Bosty's King) or other equal fire-resistant vermiculite masonry fill insulation, or silicone treated perlite loose fill insulation and 2 hr fire classification.

Pre 2 Wall System

"E-COMAX", "Thermoshield-3", "DuraShield-3"

Insulation, Thermax Heavy Duty Insulation, Thermax Metal Building Board, Thermax White Fibre Insulation, Thermax Exterior Insulation, Thermax XAMOR or Exterior Insulation, Thermax HI Insulation, Thermax Plus Liner Board, Thermax Heavy Duty Plus

compatible framed plastic insulation board, min. 48 by 48 or 96 in.

\* Indicates such products shall bear the UL or eUL Certification Mark for jurisdictions employing the UL or eUL Certification (such as Canada), respectively.

Thickness 9 1/2" Approx. Weight 7.67 lbs/ft² Base WSP 3885 UL R319-4, 5, 6, 11-12, UL R2717-30, 1-30, 68, UL R351-52, 3-15-65, UL Design U206, ULG Design W301

Walls and interior partitions, wood-framed

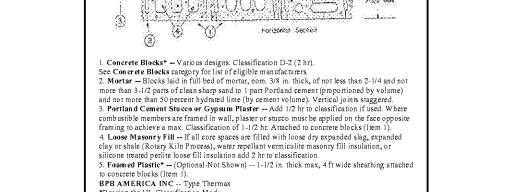
Gypsum wallboard, wood studs

Resilient channels 1" x 2" attached at right angles to one side of 2 x 4 wood studs 16" or 24" o.c. with 1" Type S drywall screws. One layer 5/8" type X gypsum wallboard or gypsum veneer base applied at right angles to channels with 1" Type S drywall screws (1" o.c. with vertical joints located midway between studs. Edg joints machined with resilient channels. 3" mineral or glass fiber insulation in stud space.

OPPOSITE SIDE: One layer 5/8" type X gypsum wallboard or gypsum veneer base applied at right angles to studs with 6d cement coated nails, 1" long, 0.9915 in. shank diam, 1/4 in. diam heads, 2 in. OC.

Vertical joints staggered 24" on opposite side. Sound tested with studs spaced 24" o.c. (ST-50). Also sound tested with studs spaced 16" o.c. and with two layers of 5/8" type X gypsum board on the resilient channels side (ST-50). (LOAD-BEARING)

Design No. U905 January 02, 1997 Bearing Wall Rating - 2 HR. Nonbearing Wall Rating - 2 HR



1. Concrete Block\* - Various designs. Classification D-2 (2A). See Concrete Block category for list of eligible manufacturers. 2. Mortar - Blocks laid in full bed of mortar, min. 3/4 in. thick, of not less than 3-1/4 and not more than 3-1/2 parts of clean sharp sand to 1 part (by volume) of cement. Mortar joints staggered and not more than 50 percent hydrated lime (by volume). Vertical joints staggered. 3. Lumber Masonry Fill - If all open spaces are filled with lower dry expanded shrapnel, expanded clip or shale (Bosty's King Process), water repellent vermiculite masonry fill insulation, or silicone treated perlite loose fill insulation and 2 hr fire classification. 4. Foam of Plastifil\* - (Optional Test Show) - 1-1/2 in. thick, max. 47 mil sheathing attached to concrete blocks (Item 1). BPA AMERICA INC. - Type Thermax \*Bearing the UL, Classification Mark

legs, clips secured with Type Screws 5/8 in. long to Type W screws 1/4 in. long with wood framing through holes provided in clip. 4A, Clip placement (Item 4B for separation walls up to 23 ft high. Space clips a max of 18 in. apart. For upper 24 ft, space clips as described in Item 4B for 20 ft, below the upper 24 ft. Remaining wall area below requires clip spacing a max of 48 in. OC, vertically between wood framing and 1/4" studs. 4B, Clip placement (Item 4B for separation walls up to 44 ft high. Space clips as described in Item 4A, for upper 24 ft, Below remaining wall area below requires clip spacing a max of 48 in. OC, vertically between wood framing and 1/4" studs. 4C, Clip placement (Item 4B for separation walls up to 66 ft high. Space clips as described in Item 4A, for upper 24 ft, Below remaining wall area below requires clip spacing a max of 48 in. OC, vertically between wood framing and 1/4" studs. 4D, Clip placement (Item 4B for separation walls up to 44 ft high. Space clips as described in Item 4A, for upper 24 ft, Below remaining wall area below requires clip spacing a max of 48 in. OC, vertically between wood framing and 1/4" studs.

1" x 2" attached at right angles to one side of 2 x 4 wood studs 16" or 24" o.c. with 1" Type S drywall screws. One layer 5/8" type X gypsum wallboard or gypsum veneer base applied parallel or at right angles to studs with 1" Type S drywall screws (1" o.c. with vertical joints located midway between studs. Edg joints machined with resilient channels. 3" mineral or glass fiber insulation in stud space.

OPPOSITE SIDE: One layer 5/8" type X gypsum wallboard or gypsum veneer base applied at right angles to studs with 6d cement coated nails, 1" long, 0.9915 in. shank diam, 1/4 in. diam heads, 2 in. OC.

Vertical joints staggered 24" on opposite side. (LOAD-BEARING)

1 Interior Bearing Wall 1 Hour Rated Wall Assembly

Professional seal and contact information for POOLE & POOLE ARCHITECTURE, 3736 Winterfield Road, Suite 102, Middleton, Virginia 23113. Project: 1928.00. CADD File: CODE. Drawing: SCS. Checked By: GA. Project location: 1928.00, CODE, SCS, GA. Permits: 1928.00, CODE, SCS, GA. Construction Release Set: 1928.00, CODE, SCS, GA. Revisions: No. Date Description. ASI / RFI Revisions: No. Date Description. Drawing Title: Rated Assemblies Wall/columns. Project location: 1928.00, CODE, SCS, GA. Permits: 1928.00, CODE, SCS, GA. Construction Release Set: 1928.00, CODE, SCS, GA. Revisions: No. Date Description. ASI / RFI Revisions: No. Date Description. Drawing Title: Rated Assemblies Wall/columns. Project location: 1928.00, CODE, SCS, GA. Permits: 1928.00, CODE, SCS, GA. Construction Release Set: 1928.00, CODE, SCS, GA. Revisions: No. Date Description. ASI / RFI Revisions: No. Date Description. Drawing Title: Rated Assemblies Wall/columns. Project location: 1928.00, CODE, SCS, GA. Permits: 1928.00, CODE, SCS, GA. Construction Release Set: 1928.00, CODE, SCS, GA. Revisions: No. Date Description. ASI / RFI Revisions: No. Date Description. Drawing Title: Rated Assemblies Wall/columns.

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