Gypsum Board Partitions - Wood Framing

45 MIN FIRE	Design # UL U317	GA File # N/A	STC - 34
			Sound Test # NGC - 2161

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1/2" (12.7 mm) Fire-Shield C Gypsum Board applied vertically to each side of 2x4 wood studs 16" o.c. with 5d coated nails, 1-5/8" long, 0.086" shank, 15/64" heads, 7" o.c. at edges and intermediate studs. Joints of square edge, bevel edge or predecorated gypsum board may be left exposed.

1 Hour FIRE	Design # UL U305	GA File # WP 3605	STC - 35
			Sound Test # NGC - 2403

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5/8" (15.9 mm) Fire-Shield Gypsum Board or 5/8" XP Fire-Shield Gypsum Board applied horizontally or vertically to each side of 2x4 wood studs 16" o.c. with 6d coated nails, 1-7/8" long, 0.0915" shank, 1/4" heads, 7" o.c. at edges. Joints of square edge, bevel edge or predecorated gypsum board may be left exposed. Joints staggered 16" on opposite sides.

1 Hour FIRE	Design # UL U309	GA File # WP 3510	STC - 38
			Sound Test # NGC - 2404

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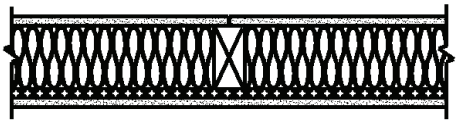
5/8" (15.9 mm) Fire-Shield Gypsum Board or 5/8" XP Fire-Shield Gypsum Board applied horizontally or vertically to each side of 2x4 wood studs 24" o.c. with 6d coated nails, 1-7/8" long, 0.0915" shank, 1/4" heads, 7" o.c. at edges. Joints of square edge, bevel edge or predecorated gypsum board may be left exposed. Joints staggered 24" on opposite sides.

1 Hour FIRE	Design # UL U311	GA File # WP 3241	STC - 50
			Sound Test # TL-93-196



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Resilient furring channels attached 24" o.c. horizontally to one side of 2x4 wood studs 16" or 24" o.c. with 1-1/4" type W screws. 1/2" x 3" gypsum board filler strips attached to floor and ceiling plates with 1-1/4" type W screws 3'-0" o.c. 5/8" (15.9 mm) Fire-Shield C Gypsum Board applied horizontally to channel with 1" type S screws 12" o.c. on all edges and intermediate channels and atttached to top and bottom plates with 1-7/8" type S screws 12" o.c. Vertical butt joints between studs back-blocked with 20" long piece of resilient channel. 5/8" (15.9 mm) Fire-Shield C Gypsum Board applied horizontally on opposite side directly to wood studs with 1-1/4" type W screws spaced 12" o.c. Horizontall joints in line, vertical joints staggered each side. Mineral wool insulation 3" thick friction fit between studs.

Gypsum Board Partitions - Wood Framing (Continued)

1 Hour FIRE	Design #	GA File #	STC - 45
	UL U312	WP 3341	Sound Test # NGC - 2321

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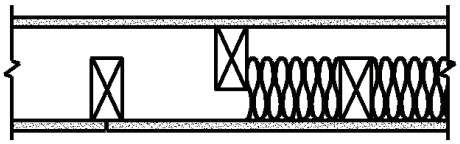
1/4" gypsum board base layer applied vertically to each side of 2x4 wood studs 16"o.c. with 4d coated nails, 1-1/2" long, 0.099" shank, 1/4" heads, 12"o.c. Joinst staggered 16" on opposite sides. 1/2" (12.7 mm) Fire-Shield C Gypsum Board or 1/2" Fire-Shield C Durasan face layer applied vertically to each side with 1/4" beads of laminating compound 2" o.c. and with 6d coated nails, 1-7/8" long, 0.0915" shank, 1/4" heads, 6" o.c. at top and bottom plates only. Offset joints 24" from base layer joints.

1 Hour FIRE	Design #	GA File #	STC - 45
	UL U340	WP 3510	Sound Test # Based on NGC-2375



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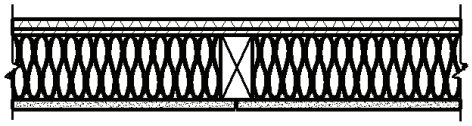
5/8" (15.9 mm) Fire-Shield C Gypsum Board applied vertically to each side of 2x4 wood studs 24" o.c. on each side of 2x6 wood plates, staggered 12"o.c. on opposite sides, with 6d coated nails, 1-7/8" long, 0.0915" shank, 1/4" heads, 7" o.c. Joints of square edge, bevel edge or predecorated gypsum board may be left exposed. Joints staggered 16" on opposite sides.
*Sound rating with 3 1/2" glass fiber in cavity.

1 Hour FIRE	Design #	GA File #	STC - N/A
	UL U356	N/A	Sound Test # N/A



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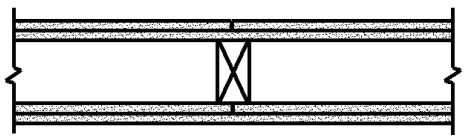
5/8" (15.9 mm) Fire-Shield Gypsum Board applied vertically to interior side of 2x4 wood studs 16" o.c. with 6d coated nails, 1-7/8" long, 1/4" heads, 7" o.c. 3-1/2" insulation installed in stud cavity.
7/16" wood panels applied horizontally or vertically to exterior side with 6d coated box nails 6" o.c. Exterior to be finished with vinyl siding, Particle board siding, wood structural panel (lap siding), cementitious stucco, brick veneer, exterior insulation and finish system (EIFS), steel/aluminum siding, fiber cement siding.

2 Hour FIRE	Design #	GA File #	STC - 40
	FM WP-360	WP 4135	Sound Test # NGC - 2363



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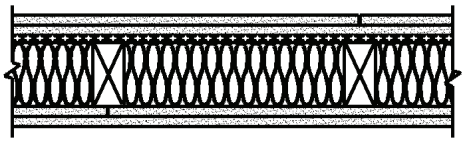
5/8" (15.9 mm) Fire-Shield Gypsum board, two layers applied horizontally to each side of 2x4 wood studs 24" o.c. Base layer attached with 6d coated nails, 1-7/8" long, 0.085" shank, 1/4" heads, 24" o.c. Face layer 5/8" Fire-Shield Gypsum Board attached with 8d coated nails 2-3/8" long, 0.100 shank, 1/4" heads, 8" o.c. Joints staggered 24" on opposite sides.

Gypsum Board Partitions - Wood Framing (Continued)

2 Hour FIRE	Design #	GA File #	STC - 59
	UL U334	N/A	Sound Test # TL-93-115



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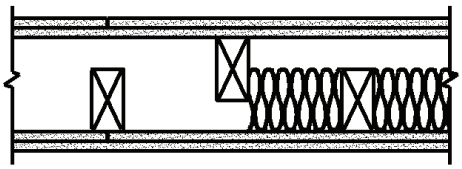
5/8" (15.9 mm) Fire-Shield C Gypsum Board base layers applied vertically, to 2x4 wood studs 16" o.c. one side with 6d coated nails, 1-7/8" long, 14" o.c. other side over resilient furring channels 24" o.c. attached perpendicular to studs with 1" type S screws, gypsum board attached to furring channel with 1" type S screws 24" o.c. 5/8" Fire-Shield C Gypsum Board face layers applied horizontally, on stud side with 8d coated nails, 2-3/8" long, 7" o.c. Face layer on channel side applied with 1-5/8" type S screws 12" o.c. Face layer butt joints offset 16" from base layers. 2" thick mineral wool insulation friction fit in stud cavity.

2 Hour FIRE	Design #	GA File #	STC - 51
	FM WP-360	WP 3910	Sound Test # NGC-2377



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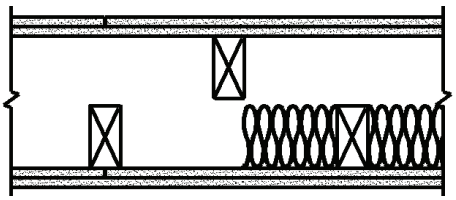
5/8" (15.9 mm) Fire-Shield Gypsum Board, two layers applied horizontally to each side of 2x4 wood studs 16" o.c. ,staggered 8" o.c. on 2x6 wood plates. Base layer attached with 6d coated nails, 1-7/8" long, 0.085" shank, 1/4" heads, 24" o.c. Face layer 5/8" Fire-Shield Gypsum Board attached with 8d coated nails 2-3/8" long, 0.100 shank, 1/4" heads, 8" o.c. Joints staggered 16" each layer and side.

2 Hour FIRE	Design #	GA File #	STC - 58
	FM WP-360	WP 3820	Sound Test # NGC-3056



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5/8" (15.9 mm) Fire-Shield Gypsum Board, two layers applied horizontally to each side of double row of 2x4 wood studs 16" o.c., separate plates 1" apart. Base layer attached with 6d coated nails, 1-7/8" long, 0.085" shank, 1/4" heads, 24" o.c. Face layer 5/8" Fire-Shield Gypsum Board attached with 8d coated nails 2-3/8" long, 0.100 shank, 1/4" heads, 8" o.c. Joints staggered 16" each layer and side.

2 Hour FIRE	Design #	GA File #	STC - 40
	UL U301	N/A	Sound Test # NGC - 2363

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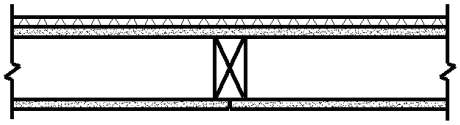
5/8" (15.9 mm) Fire-Shield Gypsum Board, two layers applied either horizontally or vertically to each side of 2x4 wood studs 16" o.c. Base layer attached with 6d coated nails, 1-7/8" long, 0.0915" shank, 1/4" heads, 6" o.c. Face layer 5/8" Fire-Shield Gypsum Board attached with 8d coated nails 2-3/8" long, 0.113 shank, 9/32" heads, 8" o.c. Vertical joints located over studs. Joints staggered 16" each layer and side.

Gypsum Board Partitions - Wood Framing (Exterior Walls)

1 Hour FIRE	Design # UL U309	GA File # WP 8105	STC - N/A
			Sound Test # N/A



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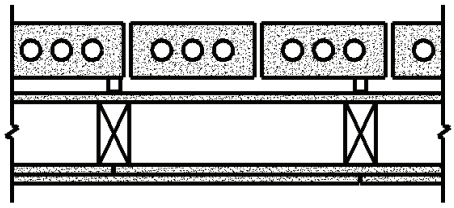
5/8" (15.9 mm) Fire-Shield Gypsum Board applied either horizontally or vertically to the interior side of 2x4 wood studs 24" o.c. with 6d coated nails, 1-7/8" long, 0.0915" shank, 1/4" heads, 7" o.c.
5/8" Gypsum Sheathing applied to exterior side with 1-3/4" galvanized roofing nails 0.125" shank, 7/16" head, 4" o.c. at vertical joints and 7" o.c. at intermediate studs and top and bottom plates. Exterior cladding to be attached through sheathing to studs.

2 Hour FIRE	Design # UL U302	GA File # WP 8410	STC - N/A
			Sound Test # N/A



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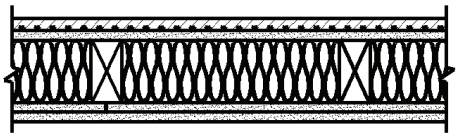
5/8" (15.9 mm) Fire-Shield Gypsum Board, two layers applied either horizontally or vertically to the interior side of 2x4 wood studs 16" o.c. Base layer attached with 6d coated nails, 1-7/8" long, 0.0915" shank, 1/4" heads, 8" o.c. Face layer 5/8" Fire-Shield Gypsum Board attached with 8d coated nails 2-3/8" long, 0.113 shank, 9/32" heads, 8" o.c. Vertical joints located over studs. Vertical and horizontal joints between inner and outer staggered.
1/2" Gypsum Sheathing applied horizontally to stud exterior side with 1-3/4" galvanized roofing nails 0.125" shank, 7/16" head, 6" o.c. Vertical joints located over studs and and staggered between adjacent rows. Exterior clay face brick laid with 1" air space between brick and exterior sheathing , 20 gauge corrugated wall ties attached to each stud with 8d coated nails, 2-3/8" long, 0.113 shank, 9/32" head, at every 6th course of bricks.

2 Hour FIRE	Design # UL U371	GA File # WP 8417	STC - N/A
			Sound Test # N/A



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5/8" (15.9 mm) Fire-Shield Gypsum Board, two layers applied either horizontally or vertically to the interior side of 2x4 wood studs 16" o.c. Base layer attached with 1-1/4" type S screws 12" o.c. Face layer attached with 2" type S screws 12" o.c.
5/8" Gypsum Sheathing applied to exterior side with 1-3/4" galvanized roofing nails 0.125" shank, 7/16" head, 8" o.c. or 2" type S screws 8" o.c. Joints staggered 16" each side and layer. Pre-furred wire stucco netting attached with 1-1/4", 1" long steel staples 7" o.c. Portland cement stucco, 3/4" thick applied over stucco netting.