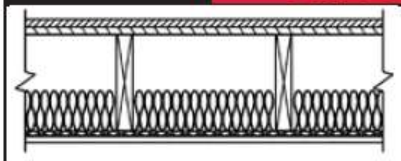
Floor/Ceiling Assemblies - Wood Framing

1 Hour	Design #	GA File #	STC - 50-54	IIC - 73
	FM FC-181	FC 5120	Sound Test # G&H OC-3MT	Test # G&H OC-3MT



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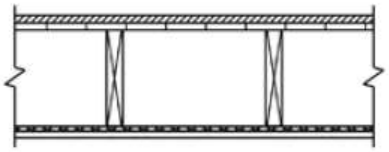
1/2"(12.7 mm) Fire-Shield C Gypsum Board applied at right angles to resilient furring channels 24"o.c. with 1" type S drywall screws 8"o.c. at ends and 12"o.c. at intermediate furring channels. Gypsum board end joints located midway between continuous channels and attached to additional pieces of channels 64" inches long with screws 8"o.c. Resilient furring channels applied at right angles to 2x10 wood joists 16"o.c. with 6d coated nails, 1-7/8" long, .085" shank, 1/4" heads, per joist. Wood joists supporting 5/8" plywood with exterior glue subfloor and 3/8" particle board. 3-1/2" fiberglass insulation friction fit in joist cavities supported alternately every 12" by wire rods and resilient furring channels. Sound and IIC tested with Carpet and pad.

1 Hour	Design #	GA File #	STC - 45	IIC - 39
	UL L515	FC 5300	Sound Test # NGC 4107	Test # NGC 5161



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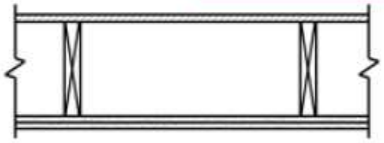
1/2"(12.7 mm) Fire-Shield C Gypsum Board applied at right angles to resilient furring channels 24"o.c. with 1" type S drywall screws 8"o.c. at ends and 12"o.c. at intermediate furring channels. Gypsum board end joints located midway between continuous channels and attached to additional pieces of channels 64" inches long with screws 8"o.c. Resilient furring channels applied at right angles to 2x10 wood joists 16"o.c. with 6d coated nails, 1-7/8" long, .085" shank, 1/4" heads, per joist. Wood joists supporting 5/8" plywood with exterior glue subfloor and 3/8" particle board. 3-1/2" fiberglass insulation friction fit in joist cavities supported alternately every 12" by wire rods and resilient furring channels.

Sound test with carpet/pad, 3-1/2" fiberglass insulation= STC 50 (NGC-4110)
IIC test with Carpet and pad= 63 (NGC 5165)

1 Hour	Design #	GA File #	STC - N/A	IIC - N/A
	FM FC-172	FC 5406	Sound Test # N/A	Test # N/A



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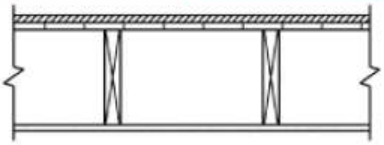
Base Layer 5/8"(15.9 mm) Fire-Shield Gypsum Board applied at right angles to 2x10 wood joists 24"o.c. with 1-1/4" Type W or S drywall screws 24"oc. Face layer 5/8" Fire-Shield Gypsum Board applied at right angles to joists with 1-7/8" Type W or S drywall Screws 12"o.c. at joints and intermediate joists and 1-1/2" Type G screw 12" o .c placed 2" back on either side of end joints. Joints offset 24" from base layer joints. Wood joists supporting 1/2" wood structural panels applied at right angle to joists with 8d nails. Ceiling provides one hour fire resistance protection for framing, including trusses.

1 Hour	Design #	GA File #	STC - 37	IIC - 32
	UL L522	FC 5410	Sound Test # NGC 4024	Test # NGC 5032A



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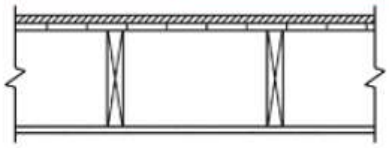
1/2"(12.7 mm) Fire-Shield C Gypsum Board applied at right angles to 2x10 wood joists 16"o.c. with 5d nails, 1-5/8" long, .099" shank, 1/4" heads, 6"oc. Nails placed 3/4" from board edge joints and 1/2" from board end joints. Wood joists supporting 1" nominal T&G wood subfloor and 1" nominal wood finish floor, or 19/32" plywood finished floor with long edges T&G and 19/32" interior plywood with exterior glue subfloor perpendicular to joists with joints staggered.

IIC test with Carpet and pad= 66 (NGC 5033)

Floor/Ceiling Assemblies - Wood Framing

1 Hour	Design #	GA File #	STC - 37	IIC - 32
	UL L501	FC 5420	Sound Test # Based on NGC 4024	Test # Based on NGC 5032



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5/8"(15.9 mm) Fire-Shield Gypsum Board applied at right angles to 2x10 wood joists 16"o.c. with 6d nails, 1-7/8" long, .0915" shank, 1/4" heads, 6"oc. Wood joists supporting 1" nominal T&G wood subfloor and 1" nominal wood finish floor, or 19/32" plywood finished floor with long edges T&G and 19/32" interior plywood with exterior glue subfloor perpendicular to joists with joints staggered.

IIC test with Carpet and pad= 66 (Based on NGC 5033)

1 Hour	Design #	GA File #	STC - N/A	IIC - N/A
	FM FC-172	FC 5407	Sound Test # N/A	Test # N/A

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Base Layer 5/8"(15.9 mm) Fire-Shield Gypsum Board applied at right angles to wood I-joists 24"o.c. with 1-1/4" Type W or S drywall screws 24"oc. Face layer 5/8" Fire-Shield Gypsum Board applied at right angles to I-joists with 1-7/8" Type W or S drywall Screws 12"o.c. at joints and intermediate I-joists and 1-1/2" Type G screw 12" o .c placed 2" back on either side of end joints. Joints offset 24" from base layer joints. Wood I-joists supporting 1/2" wood structural panels applied at right angle to trusses with 8d nails. Ceiling provides one hour fire resistance protection for trusses.

1 Hour	Design #	GA File #	STC - 53	IIC - 46
	N/A	FC 5241	Sound Test # TLF-02-043a	Test # 02-027

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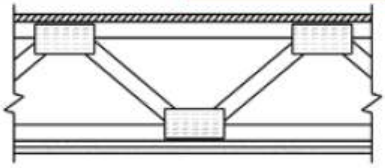
Base Layer 1/2"(12.7 mm) Fire-Shield C Gypsum Board applied at right angles to resilient furring channels with 1-1/4" Type S drywall screws 12"o.c. Resilient furring channels applied at right angles to joists and spaced 16"o.c. with 1-1/4" Type W drywall screws to wood I-joists 24"o.c. Face layer 1/2" Fire-Shield C Gypsum Board applied at right angles to channels with 1-5/8" Type S drywall Screws 12"o.c. Face layer end joints located midway between channels and attached to base layer with 1-1/2" Type G screws 12"o.c. Edge joints offset 24" from base layer edge joints. Wood I-joists supporting 5/8" oriented strand board applied at right angles to I-joists with 8d common nails 12"o.c. Sound test with 3-1/2" mineral wool or fiberglass insulation in joist cavity.

1 Hour	Design #	GA File #	STC - N/A	IIC - N/A
	FM FC-172	FC 5408	Sound Test # N/A	Test # N/A



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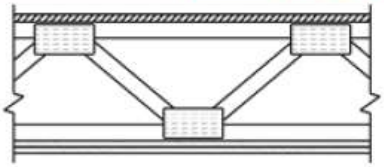
Base Layer 5/8"(15.9 mm) Fire-Shield Gypsum Board applied at right angles to parallel chord wood trusses 24"o.c. with 1-1/4" Type W or S drywall screws 24"oc. Face layer 5/8" Fire-Shield Gypsum Board applied at right angles to trusses with 1-7/8" Type W or S drywall Screws 12"o.c. at joints and intermediate trusses and 1-1/2" Type G screw 12" o .c placed 2" back on either side of end joints. Joints offset 24" from base layer joints. Trusses supporting 1/2" wood structural panels applied at right angle to trusses with 8d nails. Ceiling provides one hour fire resistance protection for trusses.

Floor/Ceiling Assemblies - Wood Framing

1 Hour	Design #	GA File #	STC - N/A	IIC - N/A
	FM FC-214	FC 5512	Sound Test # N/A	Test # N/A



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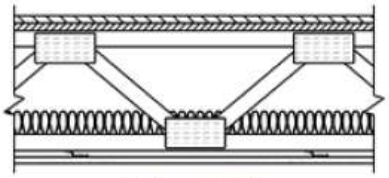
Base Layer 1/2"(12.7 mm) Fire-Shield C Gypsum Board applied at right angles to parallel chord wood trusses 24"o.c. with 1-1/4" Type S drywall screws 24"oc. Face layer 1/2" Fire-Shield C Gypsum Board applied at right angles to trusses with 1-7/8" Type S drywall Screws 12"o.c. and 1-1/2" Type G screws 12"o.c. placed 3" back on either side of end joints. Joints offset 24" from base layer joints. Trusses supporting 19/32" T&G plywood with exterior glue applied at right angle to trusses with 6d nails 6"o.c. Plywood joints staggered 48".

1 Hour	Design #	GA File #	STC - N/A	IIC - N/A
	UL L558	FC 5514	Sound Test # N/A	Test # N/A



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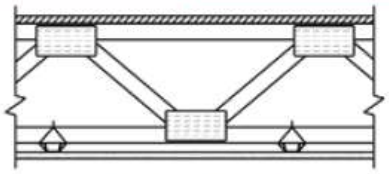
5/8"(15.9 mm) Fire-Shield C Gypsum Board applied at right angles to resilient furring channels 12"o.c. with 1" type S drywall screws 8"o.c. Gypsum board end joints attached with screws 8"o.c. to additional pieces of channel 60" long located 3" back on either side of end joint. Resilient furring channels applied at right angles to 18" deep parallel chord wood trusses 24"o.c. with 1-1/4" Type S or W drywall screws. Glass fiber or mineral fiber batt or loose fill insulation applied directly over gypsum board. Wood trusses supporting 23/32" wood structural panel subfloor, long edges T&G, applied at right angle to trusses with construction adhesive and 6d ring shank nails 12"o.c. Either 3/4" gypsum floor topping or 15/32" wood structural panel underlayment applied over subfloor.

1 Hour	Design #	GA File #	STC - N/A	IIC - N/A
	UL L528	FC 5516	Sound Test # N/A	Test # N/A



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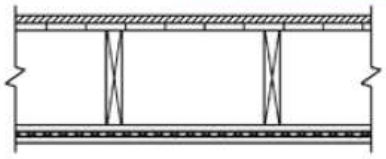
5/8"(15.9 mm) Fire-Shield C Gypsum Board applied at right angles to rigid furring channels 24"o.c. with 1" type S drywall screws 12"o.c. and 1-1/2" from edges. Gypsum board end joints located midway between continuous channels and attached to additional pieces of channels 60" inches long with screws 12"o.c. Rigid furring channels applied at right angles to 12" deep parallel chord wood trusses 24"o.c. with double strand 18 gage galvanized steel wire ties 48" o.c. Wood trusses supporting 3/4" nominal interior plywood with exterior glue, T&G edges, applied at right angle to trusses with construction adhesive and either 6d smooth shank nails 6"o.c. at end joints and 12"o.c. at intermediate trusses or 6d ring shank nails 12"o.c. Adhesive applied to each top chord and grooved edges of plywood. Plywood joints staggered 48".

2 Hour	Design #	GA File #	STC - N/A	IIC - N/A
	UL L505	FC 5724	Sound Test # N/A	Test # N/A



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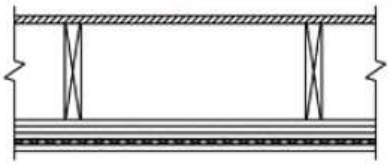
Base layer 5/8"(15.9 mm) Fire-Shield C Gypsum Board applied at right angles to 2x10 wood joists 16"o.c. with 8d nails, 2-1/2" long, 0.113" shank, 19/64" heads, 7"o.c. Resilient furring channels at 24"o.c. applied at right angles to wood joists through base layer with 8d nails, 2-1/2" long, 0.113" shank, 19/64" head, at each joist. Face layer 5/8" Fire-Shield C Gypsum Board applied at right angles to resilient furring channels with 1" type S drywall screws 12"o.c. Wood joists supporting 1" nominal T&G wood subfloor and 1" nominal wood finish floor, or 19/32" plywood finished floor with long edges T&G and 15/32" interior plywood with exterior glue subfloor perpendicular to joists with joints staggered.

Floor/Ceiling Assemblies - Wood Framing

2 Hour	Design #	GA File #	STC - N/A	IIC - N/A
	UL L556	FC 5725	Sound Test # N/A	Test # N/A



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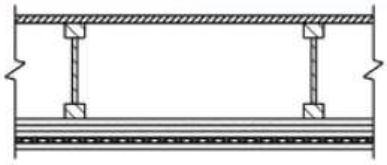
Base Layer 5/8"(15.9 mm) Fire-Shield Gypsum Board applied at right angles to 2x10 wood joists 24"o.c. with 1-1/4" Type W drywall screws 12"oc. Second layer 5/8" Fire-Shield Gypsum Board applied at right angles to joists with 2" Type W drywall Screws 12"o.c. Joints staggered 24" from base layer. Third layer 5/8" Fire-Shield Gypsum Board applied at right angles to joists with 2-1/2" Type W drywall Screws 12"o.c. Joints staggered 12" from second layer. Rigid furring channels 24"o.c. applied at right angles to joists over third layer with two 2-1/2" Type W drywall Screws at each joist. Face layer 5/8" Fire-Shield Gypsum Board applied at right angles to furring channels with 1-1/8"Type S drywall Screws 12"o.c. Steel joists supporting 3/4" T&G plywood floor applied at right angle to joists with 8d nails 6"o.c. at joints and 12"o.c. at intermediate joists.

2 Hour	Design #	GA File #	STC - N/A	IIC - N/A
	UL L556	FC 5750	Sound Test # N/A	Test # N/A



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Base Layer 5/8"(15.9 mm) Fire-Shield Gypsum Board applied at right angles to wood I-joists 24"o.c. with 1-1/4" Type W drywall screws 12"oc. Second layer 5/8" Fire-Shield Gypsum Board applied at right angles to I-joists with 2" Type W drywall Screws 12"o.c. Joints staggered 24" from base layer. Third layer 5/8" Fire-Shield Gypsum Board applied at right angles to I-joists with 2-1/2" Type W drywall Screws 12"o.c. Joints staggered 12" from second layer. Rigid furring channels 24"o.c. applied at right angles to I-joists over third layer with two 2-1/2"
Type W drywall Screws at each joist. Face layer 5/8" Fire-Shield Gypsum Board applied at right angles to furring channels with 1-1/8"Type S drywall Screws 12"o.c. Wood I-joists supporting 3/4" T&G plywood floor applied at right angle to joists with 8d nails 6"o.c. at joints and 12"o.c. at intermediate joists.

2 Hour	Design #	GA File #	STC - N/A	IIC - N/A
	UL L538	N/A	Sound Test # N/A	Test # N/A

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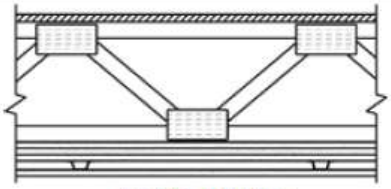
Base Layer 5/8"(15.9 mm) Fire-Shield C Gypsum Board applied at right angles to wood I-joists 19.2"o.c. with 1-5/8" Type S drywall screws 8"o.c. Resilient furring channels at 16"o.c. applied at right angles to wood joists through base layer with 1-7/8" Type S drywall screws at each joist. Second layer 5/8" Fire-Shield C Gypsum Board applied at right angles to resilient furring channels with 1" type S drywall screws 8"o.c. Face layer 5/8" Fire-Shield C Gypsum Board applied at right angles to resilient channels with 1-5/8"Type S drywall Screws 12"o.c. through second layer. Joints staggered in adjacent rows and between layers. Wood I-joists supporting 5/8" wood structural panel floor applied at right angle to joists.

2 Hour	Design #	GA File #	STC - N/A	IIC - N/A
	UL L556	FC 5751	Sound Test # N/A	Test # N/A



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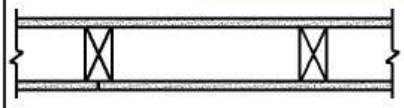
Base Layer 5/8"(15.9 mm) Fire-Shield Gypsum Board applied at right angles to parallel chord wood trusses 24"o.c. with 1-1/4" Type W drywall screws 12"oc. Second layer 5/8" Fire-Shield Gypsum Board applied at right angles to trusses with 2" Type W drywall Screws 12"o.c. Joints staggered 24" from base layer. Third layer 5/8" Fire-Shield Gypsum Board applied at right angles to trusses with 2-1/2" Type W drywall Screws 12"o.c. Joints staggered 12" from second layer. Rigid furring channels 24"o.c. applied at right angles to trusses over third layer with two 2-1/2" Type W drywall Screws at each truss. Face layer 5/8" Fire-Shield Gypsum Board applied at right angles to furring channels with 1-1/8"Type S drywall Screws 12"o.c. Trusses supporting 3/4" T&G plywood floor applied at right angle to trusses with 8d nails 6"o.c. at joints and 12"o.c. at intermediate trusses.

Gypsum Board Partitions - Wood Framing

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



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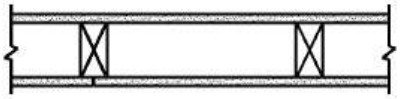
1/2" (12.7 mm) Fire-Shield C Gypsum Board applied vertically to each side of 2x4 wood studs 16" o.c. with 5d coated nails, 1-5/8" long, 0.086" shank, 15/64" heads, 7" o.c. at edges and intermediate studs. Joints of square edge, bevel edge or predecorated gypsum board may be left exposed.

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



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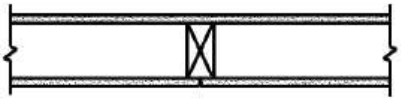
5/8" (15.9 mm) Fire-Shield Gypsum Board or 5/8" XP Fire-Shield Gypsum Board applied horizontally or vertically to each side of 2x4 wood studs 16" o.c. with 6d coated nails, 1-7/8" long, 0.0915" shank, 1/4" heads, 7" o.c. at edges. Joints of square edge, bevel edge or predecorated gypsum board may be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

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



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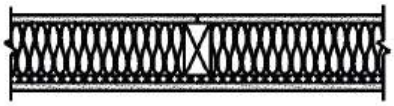
5/8" (15.9 mm) Fire-Shield Gypsum Board or 5/8" XP Fire-Shield Gypsum Board applied horizontally or vertically to each side of 2x4 wood studs 24" o.c. with 6d coated nails, 1-7/8" long, 0.0915" shank, 1/4" heads, 7" o.c. at edges. Joints of square edge, bevel edge or predecorated gypsum board may be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

1 Hour FIRE	Design #	GA File #	STC - 50
	UL U311	WP 3241	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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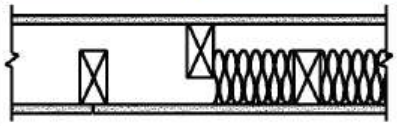
1/4" gypsum board base layer applied vertically to each side of 2x4 wood studs 16"o.c. with 4d coated nails, 1-1/2" long, 0.099" shank, 1/4" heads, 12"o.c. Joinst staggered 16" on opposite sides. 1/2" (12.7 mm) Fire-Shield C Gypsum Board or 1/2" Fire-Shield C Durasan face layer applied vertically to 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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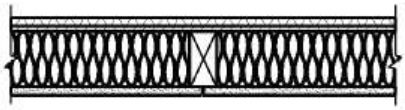
5/8" (15.9 mm) Fire-Shield C Gypsum Board applied vertically to each side of 2x4 wood studs 24" o.c. on each side of 2x6 wood plates, staggered 12"o.c. on opposite sides, with 6d coated nails, 1-7/8" long, 0.0915" shank, 1/4" heads, 7" o.c. Joints of square edge, bevel edge or predecorated gypsum board 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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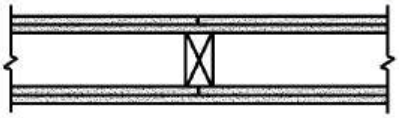
5/8" (15.9 mm) Fire-Shield Gypsum Board applied vertically to interior side of 2x4 wood studs 16" o.c. with 6d coated nails, 1-7/8" long, 1/4" heads, 7" o.c. 3-1/2" insulation installed in stud cavity.
7/16" wood panels applied horizontally or vertically to exterior side with 6d coated box nails 6" o.c. 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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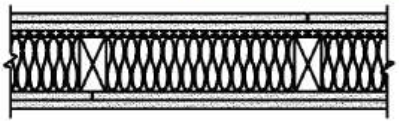
5/8" (15.9 mm) Fire-Shield Gypsum board, two layers applied horizontally to each side of 2x4 wood studs 24" o.c. Base layer attached with 6d coated nails, 1-7/8" long, 0.085" shank, 1/4" heads, 24" o.c. Face layer 5/8" Fire-Shield Gypsum Board attached with 8d coated nails 2-3/8" long, 0.100 shank, 1/4" 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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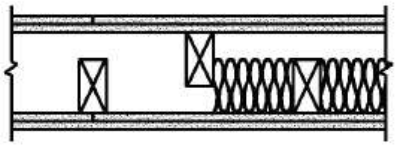
5/8" (15.9 mm) Fire-Shield C Gypsum Board base layers applied vertically, to 2x4 wood studs 16" o.c. one side with 6d coated nails, 1-7/8" long, 14" o.c. other side over resilient furring channels 24" o.c. attached perpendicular to studs with 1" type S screws, gypsum board attached to furring channel 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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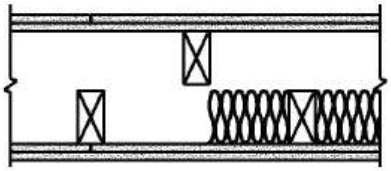
5/8" (15.9 mm) Fire-Shield Gypsum Board, two layers applied horizontally to each side of 2x4 wood studs 16" o.c. ,staggered 8" o.c. on 2x6 wood plates. Base layer attached with 6d coated nails, 1-7/8" long, 0.085" shank, 1/4" heads, 24" o.c. Face layer 5/8" Fire-Shield Gypsum Board attached with 8d coated 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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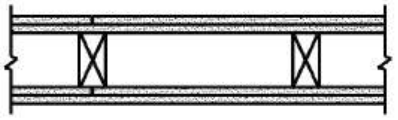
5/8" (15.9 mm) Fire-Shield Gypsum Board, two layers applied horizontally to each side of double row of 2x4 wood studs 16" o.c., separate plates 1" apart. Base layer attached with 6d coated nails, 1-7/8" long, 0.085" shank, 1/4" heads, 24" o.c. Face layer 5/8" Fire-Shield Gypsum Board attached with 8d 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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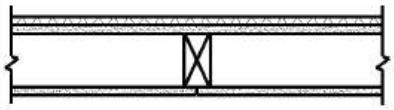
5/8" (15.9 mm) Fire-Shield Gypsum Board, two layers applied either horizontally or vertically to each side of 2x4 wood studs 16" o.c. Base layer attached with 6d coated nails, 1-7/8" long, 0.0915" shank, 1/4" heads, 6" o.c. Face layer 5/8" Fire-Shield Gypsum Board attached with 8d coated nails 2-3/8" 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 #	GA File #	STC - N/A
	UL U309	WP 8105	Sound Test # N/A



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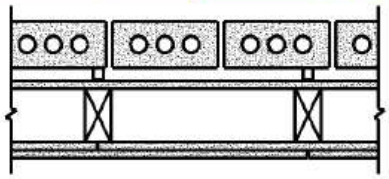
5/8" (15.9 mm) Fire-Shield Gypsum Board applied either horizontally or vertically to the interior side of 2x4 wood studs 24" o.c. with 6d coated nails, 1-7/8" long, 0.0915" shank, 1/4" heads, 7" o.c.
5/8" Gypsum Sheathing applied to exterior side with 1-3/4" galvanized roofing nails 0.125" shank, 7/16" 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 #	GA File #	STC - N/A
	UL U302	WP 8410	Sound Test # N/A



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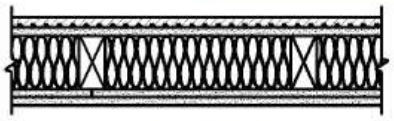
5/8" (15.9 mm) Fire-Shield Gypsum Board, two layers applied either horizontally or vertically to the interior side of 2x4 wood studs 16" o.c. Base layer attached with 6d coated nails, 1-7/8" long, 0.0915" shank, 1/4" heads, 8" o.c. Face layer 5/8" Fire-Shield Gypsum Board attached with 8d coated nails 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 #	GA File #	STC - N/A
	UL U371	WP 8417	Sound Test # N/A



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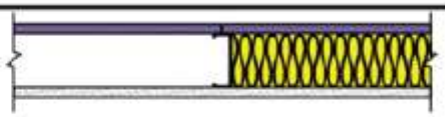
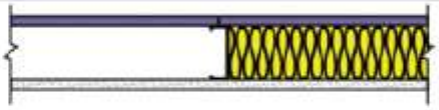
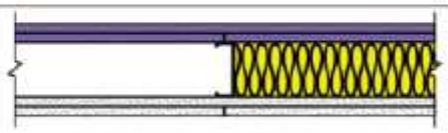
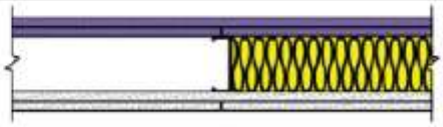
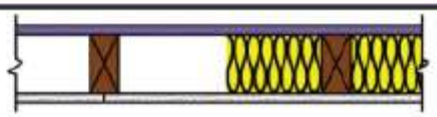
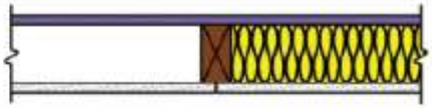
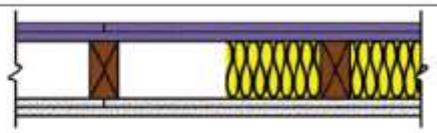
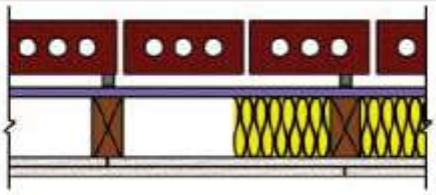
5/8" (15.9 mm) Fire-Shield Gypsum Board, two layers applied either horizontally or vertically to the interior side of 2x4 wood studs 16" o.c. Base layer attached with 1-1/4" type S screws 12" o.c. Face layer attached with 2" type S screws 12" o.c.
5/8" Gypsum Sheathing applied to exterior side with 1-3/4" 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.

Fire-Rated Assemblies

UL LISTED e²XP SHEATHING EXTERIOR PARTITIONS – STEEL FRAMING

Fire Rating	UL Design No.		Description
1 hr. Load Bearing	U425		5/8" e²XP Sheathing applied vertically to exterior side of 3-1/2", 20 gauge steel studs 24"o.c. 5/8" Fire-Shield Gypsum Board applied vertically to interior side. Joints staggered on opposite side.
1 hr.	U465		5/8" e²XP Sheathing applied vertically to exterior side of 3-5/8" steel studs 24"o.c. 5/8" Fire-Shield Gypsum Board applied vertically to interior side. Joints staggered on opposite side.
2 hr. Load Bearing	U425		Two layers 5/8" e²XP Sheathing applied vertically to exterior side of 3-1/2", 20 gauge steel studs 24"o.c. Two layers 5/8" Fire-Shield Gypsum Board applied vertically to interior side. Joints staggered each layer and side.
2 hr.	U411		Two layers 5/8" e²XP Sheathing applied vertically to exterior side of 2-1/2" steel studs 24"o.c. Two layers 5/8" Fire-Shield Gypsum Board applied vertically to interior side. Joints staggered each layer and side.

UL LISTED e²XP SHEATHING EXTERIOR PARTITIONS – WOOD FRAMING

Fire Rating	UL Design No.		Description
1 hr.	U305		5/8" e²XP Sheathing applied horizontally or vertically to exterior side of 2x4 wood steel studs 16"o.c. 5/8" Fire-Shield Gypsum Board applied horizontally or vertically to interior side. Joints staggered on opposite side.
1 hr.	U309		5/8" e²XP Sheathing applied horizontally or vertically to exterior side of 2x4 wood steel studs 24"o.c. 5/8" Fire-Shield Gypsum Board applied horizontally or vertically to interior side. Joints staggered on opposite side.
2 hr.	U301		Two layers 5/8" e²XP Sheathing applied horizontally or vertically to exterior side of 2x4 wood studs 16"o.c. Two layers 5/8" Fire-Shield Gypsum Board applied horizontally or vertically to interior side. Joints staggered each layer and side.
2 hr.	U302		1/2" or 5/8" e²XP Sheathing applied horizontally or vertically with portland cement stucco, brick veneer, thin brick finishes to exterior side of 2x4 wood steel studs 16"o.c. Two layers 5/8" Fire-Shield Gypsum Board applied horizontally or vertically to interior side. Joints staggered each layer and side.

UL Listed Assemblies

The 5/8" e²XP Fire-Shield Sheathing is classified as Type X for use in the following UL listings: U301, U302, U305, U309, U322, U323, U324, U325, U326, U330, U332, U338, U339, U341, U342, U344, U351, U354, U355, U356, U357, U358, U360, U364, U368, U369, U371, U379, U405, U411, U418, U420, U421, U422, U425, U434, U439, U449, U450, U460, U465, U466, U475, U487, U494, U499, U505, U524, U525, U531, U646, U647, U648, U649, U651, U652, U926, V408, V415, V419, V420, V421, V425, V430, V432, V433, V434, V435, V438, V449, V450, X510, X526, X528.

In addition, 5/8 e²XP Fire-Shield Sheathing can be used as an insulation underlayment in properly designed/specified roof assemblies to replace gypsum board panels listed in the following UL "P" assemblies: P225, P227, P230, P235, P254, P257, P259, P266, P302, P508, P510, P512, P514, P521, P525, P527, P529, P532, P536, P540, P541, P542, P543, P701, P713, P714, P717, P718, P719, P720, P722, P725, P727, P728, P729, P730, P731, P732, P733, P734, P7325, P739, P740, P741, P742, P743, P811, P819, P824, P825, P826, P827, P828. Consult the roof system manufacturer or specifier for proper compatibility and application requirements of other roofing components.