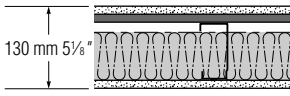
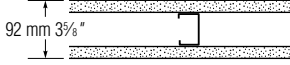
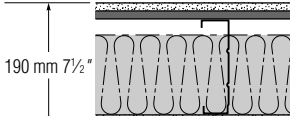
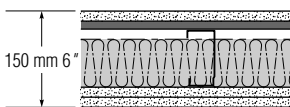
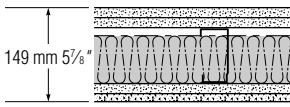
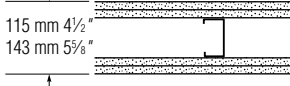

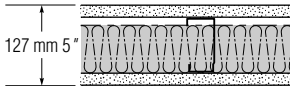
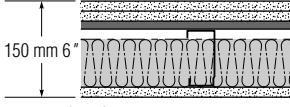


Selector Guide to Sound-Rated Partitions⁽¹⁾

STC range	60-69	55-59	50-54	45-49
Drywall or Veneer Plaster	24, 25, 28, 29, 30, 34, 49, 50, 64, 90, 92, 111	14, 16, 17, 19, 20, 21, 24, 25, 26, 31, 46, 49, 64, 84, 91, 102, 103, 104A, 106, 107, 111	1, 8, 9, 12, 14, 19, 21, 23, 34, 43, 46, 53, 57, 64, 65, 81, 100, 103, 104A, 108, 112, 117	1, 3, 6, 7, 10, 11, 13, 20, 32, 39, 40, 54, 55, 64, 81, 82, 97, 102, 104A, 109, 112

(1) Assemblies are identified by numbers in right outside margin, 1 to 117, pages 6 through 16.

Fire-rated construction		Acoustical performance		Folder reference		
Detail & physical data	Description & test no.	STC	Description & test no.			
Gypsum Drywall or Veneer Plaster						
Steel Stud Partitions (Non-Load-Bearing) – 1-Hour Rating						
wt. 29 kg/m ² (6 PSF)		Steel Stud—15.9 mm (5/8") SHEETROCK brand gypsum panels, FIRECODE core, or Abuse-Resistant veneer plaster base, FIRECODE core—92 mm (3 3/4") 0.45 mm (25 ga) steel studs 600 mm (24") o.c.—panels screw att—joints stag & fin—perimeter caulked— ULC Des W407 UL Des U419 or U465 —rating also applies with GRAND PRIX base and veneer finish surface plaster.	40 49 51	USG-860808 Based on 76 mm (3") SAFB in cavity panels— SA-870717 Based on FIRECODE C core panels and 76 mm (3") SAFB 635 mm (25") wide, creased to fit cavity— TL-90-166	SA923 SA923	1 2
wt. 24 kg/m ² (5 PSF)		Steel Stud—15.9 mm (5/8") SHEETROCK brand gypsum panels, FIRECODE core—41 mm (1 3/4") 25-ga steel studs 600 mm (24") o.c.—single layer panels vert appl & screw att 305 mm (12") o.c.—joints fin—perimeter caulked— U of C 7-31-62	38	USG-860809	SA923	2
wt. 24 kg/m ² (5 PSF)		Steel Stud—veneer plaster only (not drywall) 12.7 mm (1/2") GRAND PRIX FIRECODE C veneer base & veneer plaster—64 mm (2 1/2") 0.45 mm (25 ga) steel studs—base screw att—joints stag & taped—2 mm (1/4") veneer finish—perimeter caulked—stud spacing at 400 mm (16") recommended— GA-WP-1240	45	Based on 92 mm (3 3/4") studs 600 mm (24") o.c. with 25.4 mm (1") SAFB incavity— CK-664-1	SA920	3
wt. 39 kg/m ² (8 PSF)		90 mm (3 1/2") 20-ga. steel studs 16 o.c.—15.9 mm (5/8") SHEETROCK Brand Gypsum Panels, FIRECODE Core one side—DUROCK cement board other side—gypsum panels and cement board screw-attached to studs—76 mm (3") THERMAFIBER SAFB. Gypsum Panel joints finished with tape & joint compound—Cement Board joints finished with DUROCK tape & latex modified Portland Cement mortar or Type 1 organic adhesive— UL Des U404			SA920	4
wt. 34 kg/m ² (7 PSF)		Steel Stud—15.9 mm (5/8") DUROCK—90 mm (3 3/4") 0.9 mm (20-ga.) studs—76 mm (3") THERMAFIBER SAFB—board screw-attached 200 mm (8") o.c. with 41 mm (1 1/2") DUROCK screws—USG Plaster Bonder over untreated joint areas—joints treated with CGC setting-type joint compound and paper tape—USG Plaster Bonder over cement board and treated joints—DIAMOND veneer basecoat with veneer or conventional finish. In lieu of veneer plaster you may substitute ceramic tile or CGC Exterior Basecoat and Finish— UL Des U407			SA920	5
wt. 24 kg/m ² (5 PSF)		Steel Stud—12.7 mm (1/2") SHEETROCK brand gypsum panels, FIRECODE C core—64 mm (2 1/2") studs 600 mm (24") o.c.—single layer panels ea side screw att—38 mm (1 1/2") THERMAFIBER SAFB—joints fin—perimeter caulked— ULC W408, UL Des U419 or U448 —rating also applies with GRAND PRIX FIRECODE C base and veneer plaster.	45 48	TL-69-42 Based on 92 mm (3 3/4") studs & 51 mm (2") SAFB— SA-800422	SA923	6
wt. 24 kg/m ² (5 PSF)		Steel Stud—15.9 mm (5/8") SHEETROCK brand gypsum panels, FIRECODE core—64 mm (2 1/2") 25 ga steel studs 600 mm (24") o.c.—38 mm (1 1/2") THERMAFIBER SAFB—panels apply horiz & screw-att—joints opp—horiz joints fin— CEG 8-11-83 —rating also applies to assembly with 12.7 mm (1/2") SHEETROCK brand gypsum panels, FIRECODE C core, panels and joints fin— CEG 5-9-84 —rating also applies with GRAND PRIX FIRECODE base and veneer plaster.	47	SA-831001	SA923	7
wt. 29 kg/m ² (6 PSF)		Steel Stud—12.7 mm (1/2") SHEETROCK brand gypsum panels, FIRECODE C core—64 mm (2 1/2") 25 ga steel studs 600 mm (24") o.c.—single layer panels one side screw att—38 mm (1 1/2") THERMAFIBER SAFB—2 layers opp side—panels screw att—joints stag & fin—perimeter caulked— ULC W408, UL Des U419 or U448 —rating also applies with GRAND PRIX FIRECODE C base and veneer plaster.	50 41	SA-800504 Based on same construction without SAFB— TL-69-148	SA923	8
wt. 34 kg/m ² (7 PSF)		12.7 mm (1/2") DURACRETE Exterior or DUROCK Interior Cement board and 6 mm (1/4") ceramic tile exterior/board screw-attached with 32 mm (1 1/4") DUROCK steel screws 200 mm (8") o.c. to 92 mm (3 3/4") 0.9 mm (20 ga.) min. non-load bearing steel studs spaced 400 mm (16") o.c. 76 mm (3") THERMAFIBER SAFB insulation between studs 15.9 mm (5/8") SHEETROCK brand Gypsum Panels, FIRECODE Core— ULC W423	50	SA-840313		9
T = 130 mm (5 1/4")		12.7 mm (1/2") DURACRETE Exterior or DUROCK Cement board—92 mm (3 3/4") 0.9 mm (20 ga.) min. non-load bearing studs 400 mm (16") o.c.—76 mm (3") THERMAFIBER SAFB/board screw attached with 32 mm (1 1/4") DURACRETE steel screws 200 mm (8") o.c.—joints taped/15.9 mm (5/8") SHEETROCK brand gypsum Panels, FIRECODE "C" Core—Note: ULI design allows for optional 12.7 mm (1/2") foamed plastic insulation between cement board and stud face— UL U457	47	840222		10
T = 120 mm (4 3/4")		12.7 mm (1/2") DURACRETE Exterior or DUROCK Cement board and 6 mm (1/4") ceramic tile both sides—board screw-attached with 32 mm (1 1/4") DUROCK steel screws 200 mm (8") o.c. to 92 mm (3 3/4") min. 0.9 mm (20 ga.) non-load bearing steel studs spaced 400 mm (16") o.c. 76 mm (3") THERMAFIBER SAFB between studs— ULC W419	48	SA-840321		11
T = 130 mm (5 1/4")						

Fire-rated construction		Acoustical performance		Folder reference
Detail & physical data	Description & test no.	STC	Description & test no.	
Gypsum Drywall or Veneer Plaster (continued)				
Steel Stud Partitions (Non-Load-Bearing) – 1-Hour Rating				
 <p>130 mm 5⁸/₈"</p>	Resil Stud Drywall—12.7 mm (½") SHEETROCK brand gypsum panels, FIRECODE C core—92 mm (3¾") 0.9 mm (20 ga.) steel studs 600 mm (24") o.c.—76 mm (3") THERMAFIBER SAFB—RC-1 chan or equiv one side spaced 600 mm (24") o.c. screw-att to studs—gypsum panels screw-att to studs & RC-1 chan or equiv—joints stag and fin—perimeter caulked— UL Des U419 or U451 —rating also applies with GRAND PRIX FIRECODE C base and veneer plaster.	50	RAL-TL-87-156 Based on 15.9 mm (¾") thick panels—	SA920 SA923
		wt. 29 kg/m ² (6 PSF)		
 <p>92 mm 3⁸/₈"</p>	Steel Stud—19.1 mm (¾") SHEETROCK brand gypsum panels, ULTRACODE core—41 mm (1½") studs 600 mm (24") o.c.—panels screw att with 38 mm (1½") Type S screws 200 mm (8") o.c. perim, 300mm (12") o.c. field—joints stag & fin— UL Des U496			SA923
15				
 <p>190 mm 7⁸/₈"</p>	Resil Stud Drywall—12.7 mm (½") SHEETROCK brand gypsum panels, FIRECODE C core—152 mm (6") 0.9 mm (20 ga.) steel studs 600 mm (24") o.c.—127 mm (5") THERMAFIBER SAFB—RC-1 chan or equiv one side spaced 600 mm (24") o.c. screw-att to studs—gypsum panels screw-att to studs & RC-1 chan or equiv—joints stag and fin—perimeter caulked— UL Des U419 or U451	56	RAL-TL-87-139 Based on 15.9 mm (¾") thick SHEETROCK brand gypsum panels, FIRECODE C core—	SA923
		wt. 29 kg/m ² (6 PSF)		
16				
Steel Stud Partition (Non-Load-Bearing) – 1½-Hour Rating				
 <p>150 mm 6"</p>	Resil Stud Drywall—12.7 mm (½") SHEETROCK brand gypsum panels, FIRECODE C core—92 mm (3¾") 20 ga studs 600 mm (24") o.c.—76 mm (3") THERMAFIBER SAFB—RC-1 chan or equiv one side spaced 600 mm (24") o.c. screw-att to studs—2 layers gypsum panels screw-att to studs, 1 layer screw-att to chan—joints stag and fin—perimeter caulked— UL U452 —rating also applies with GRAND PRIX FIRECODE C base and veneer plaster.	58	RAL-TL-83-215 213 mm (8½") wall with 150 mm (6") 20-ga struc studs & 127 mm (5") SAFB— RAL-TL-84-140	SA920 SA923
		wt. 39 kg/m ² (8 PSF)		
17				
Steel Stud Partitions (Non-Load-Bearing) – 2-Hour Rating				
 <p>149 mm 5⁸/₈"</p>	90 mm (3½") 20 ga. steel studs 400 mm (16") o.c.—double-layer 15.9 mm (¾") FIRECODE Gypsum Panels one side—DUROCK Cement Board face layer, 15.9 mm (¾") SHEETROCK brand gypsum panels, FIRECODE core, base layer other side—gypsum panels and cement board screw-attached to studs—76 mm (3") THERMAFIBER SAFB gypsum panel joints finished with tape & joint compound—cement board joints finished with DUROCK tape & latex modified Portland Cement mortar or Type 1 organic adhesive—load limited to 80% of design load— UL Des U404			SA920
		wt. 54 kg/m ² (11 PSF)		
18				
 <p>115 mm 4¹/₂" 143 mm 5⁸/₈"</p>	Steel Stud—2 layers 12.7 mm (½") SHEETROCK brand gypsum panels, FIRECODE C core, ea side—41 mm (1½") 25-ga steel studs 600 mm (24") o.c.—joints stag—base layer screw att—face layer strip lamin or screw att—joints fin—perim caulked— ULC Des W406 (min 64 mm [2½"] studs)— UL Des U412 or U419 —rating also applies with GRAND PRIX FIRECODE C base and veneer plaster.	50	Based on 92 mm (3¾") stud assembly without SAFB— USG-840817 Based on 92 mm (3¾") studs and 38 mm (1½") SAFB— SA-800421 Based on lamin. face layer, 38 mm (1½") SAFB and 64 mm (2½") studs— SA-860932 Based on 64 mm (2½") studs, screw-att face layer and 38 mm (1½") SAFB— CK-654-40	SA920 SA923
		wt. 49 kg/m ² (10 PSF)		55
				52
				54
19				
 <p>106 mm 4¹/₈" 156 mm 6³/₈"</p>	Steel Stud—2 layers 15.9 mm (¾") SHEETROCK brand gypsum panels, FIRECODE core, plain or vinyl faced appl ea side—41 mm (1½") steel studs 600 mm (24") o.c.—base layers screw att—face layer lamin or screw att—joints stag & fin or unfin—perimeter caulked— UL Des U411 or U419 —rating also applies with GRAND PRIX FIRECODE or FIRECODE C base and veneer plaster.	48	Based on 92 mm (3¾") studs and 15.9 mm (¾") SHEETROCK brand gypsum panels, FIRECODE C core— BBN-770408 Based on 92 mm (3¾") studs and 76 mm (3") SAFB— USG-840818	SA920 SA923
		wt. 59 kg/m ² (12 PSF)		56
20				
 <p>127 mm 5"</p>	Steel Stud—19.1 mm (¾") SHEETROCK brand gypsum Panels, ULTRACODE Core, ea. side—min. 90 mm (3½") 0.45 mm (25 ga) steel studs 600 mm (24") o.c.—76 mm (3") THERMAFIBER SAFB—panels screw att—joints stag & fin—perimeter caulked— ULC Des W440—UL Des U419 or U491	50	USG-910617	SA923
		wt. 34 kg/m ² (7 PSF)		51
21				
 <p>150 mm 6"</p>	Resil Stud Drywall—12.7 mm (½") SHEETROCK brand gypsum panels, FIRECODE C core—92 mm (3¾") 0.9 mm (20 ga) studs 600 mm (24") o.c.—76 mm (3") THERMAFIBER SAFB—RC-1 chan or equiv one side spaced 600 mm (24") o.c. screw-att to studs—single-layer gypsum panels screw-att to studs, double layer screw-att to chan—joints stag and fin—perimeter caulked— UL Des U453	60	Based on 12.7 mm (½") thick panels, 152 mm (6") 20 ga struc studs, 127 mm (5") SAFB— RAL-TL-87-140 Based on 15.9 mm (¾") thick panels, 152 mm (6") 20-ga struc studs, 127 mm (5") SAFB— RAL-TL-84-136	SA923
		wt. 44 kg/m ² (9 PSF)		59
24				

Fire-rated construction

Detail & physical data

Description & test no.

Acoustical performance

STC Description & test no.

Folder reference

Gypsum Drywall or Veneer Plaster (continued)

Steel Stud Partitions (Non-Load-Bearing) – 2-Hour Rating

	Resil Stud Drywall—12.7 mm (½") SHEETROCK brand gypsum panels, FIRECODE C core—92 mm (3¾") 0.9 mm (20-ga) steel studs 600 mm (24") o.c.—min.	60	RAL-TL-87-154	SA923	25
	25mm (1") THERMAFIBER SAFB—RC-1 chan or equiv one side, spaced 600 mm (24") o.c. screw-att to studs—2 layers gypsum panels screw-att to chan, 2 layers screw-atto steel studs—joints stag and fin—perimeter caulked— UL Des U454	61	Based on 15.9 mm (¾") thick panels— RAL-TL-83-214		
		57	Based on 15.9 mm (¾") thick panels— USG-871207		
		63	Based on 152 mm (6") 0.9 mm (20 ga) struc studs & 127 mm (5") SAFB— RAL-TL-87-141		
		62	Based on 15.9 mm (¾") thick panels, 152 mm (6") 20 ga struc studs & 127 mm (5") SAFB— RAL-TL-84-139		

wt. 49 kg/m² (10 PSF)

Steel Stud Partitions (Non-Load-Bearing) – 3-Hour Rating

	Steel Stud—3 layers 12.7 mm (½") SHEETROCK brand gypsum panels, FIRECODE C core, ea side—41 mm (1½") 0.45 mm (25-ga) steel studs 600 mm (24") o.c.—panels screw-att with joints stag & fin—perimeter caulked—rating based on assembly with or without sound atten fire blankets— ULC Des W417, UL Des U419 or U435 —rating also applies with GRAND PRIX FIRECODE C base and veneer plaster.	59	Based on assembly with 38 mm (1½") SAFB in cavity— SA-830112	SA920 SA923	26
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wt. 63 kg/m² (13 PSF)

	Steel stud—2 layers 19.1 mm (¾") SHEETROCK brand gypsum panels, ULTRACODE core, ea side—41 mm (1½") 0.45 mm (25-ga) steel studs 600 mm (24") o.c.—Panels screw att with joints stag and fin—perimeter caulked— UL Des U419 or U435			SA923	27
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	Resil Stud Drywall—12.7 mm (½") SHEETROCK brand gypsum panels, FIRECODE C core—92 mm (3¾") 0.9 mm (20-ga) studs 600 mm (24") o.c.—76 mm (3") THERMAFIBER SAFB—RC-1 chan or equiv one side, spaced 600 mm (24") o.c. screw-att to studs—3 layers gypsum panels screw-att to studs, double layer screw-att to chan—joints stag and fin—perimeter caulked— UL Des U455	61	RAL-TL-87-153	SA920	28
		62	Based on 15.9 mm (¾") thick panels— RAL-TL-83-213	SA923	
		64	Based on 150 mm (6") 20 ga struc studs & 127 mm (5") SAFB— RAL-TL-87-142		
		63	Based on 15.9 mm (¾") thick panels, 150 mm (6") 20-ga struc studs & 127 mm (5") SAFB— RAL-TL-84-138		
		65	Based on 15.9 mm (¾") thick panels, 152 mm (6") 0.9 mm (20-ga) struc studs, 127 mm (5") SAFB, acoustical sealant bead between panels and studs, dabs 200 mm (8") o.c. between panel layers on stud side— RAL-TL-84-150		

wt. 59 kg/m² (12 PSF)

	Resil Stud Drywall—12.7 mm (½") SHEETROCK brand gypsum panels, FIRECODE C core—92 mm (3¾") 0.9 mm (20-ga) studs 600 mm (24") o.c.—76 mm (3") THERMAFIBER SAFB—RC-1 chan or equiv one side, spaced 600 mm (24") o.c. screw-att to studs—3 layers gypsum panels screw-att to studs, 3 layers screw-att to chan—joints stag and fin—perimeter caulked— UL Des U419 or U455	63	RAL-TL-87-152	SA923	29
		65	152 mm (6") 20 ga struc studs, 127 mm (5") SAFB RAL-TL-87-143		

wt. 68 kg/m² (14 PSF)

Steel Stud Partitions (Non-Load-Bearing) – 4-Hour Rating

	Steel Stud—4 layers 12.7 mm (½") SHEETROCK brand gypsum panels, FIRECODE C core, ea side—41 mm (1½") 0.45 mm (25-ga) steel studs 600 mm (24") o.c.—panels screw att with joints stag & fin—perimeter caulked— ULC Des W417, UL Des U419 or U435 —rating also applies with GRAND PRIX FIRECODE C base and veneer plaster.	62	Based on assembly with 38 mm (1½") SAFB in cavity— SA-830113	SA920 SA923	30
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wt. 83 kg/m² (17 PSF)

	Steel Stud—2 layers 19.1 mm (¾") SHEETROCK brand gypsum panels, ULTRACODE core, ea side—64 mm (2½") 0.45 mm (25-ga) steel studs 600 mm (24") o.c.—50 mm (2") THERMAFIBER SAFB—panels screw att with joints stag and fin— ULC Des W441, UL Des U419 or U490	56	SA-910907	SA923	31
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wt. 54 kg/m² (11 PSF)

Steel Stud Partition (Load-Bearing) – 45-Minute Rating

	12.7 mm (½") SHEETROCK brand gypsum panels, FIRECODE C core—90 mm (3½") 0.9 mm (20-ga) steel studs 600 mm (24") o.c.—panels screw att—joints fin— UL Des U423 or U425 —rating also applies with GRAND PRIX FIRECODE C base and veneer plaster.	47	Based on 76 mm (3") SAFB in cavity— SA-861001	SA923	32
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wt. 29 kg/m² (6 PSF)

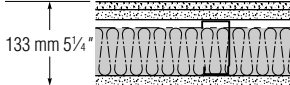


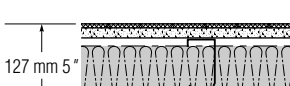
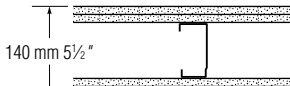


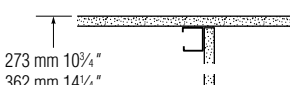

Steel Stud Partitions (Load-Bearing) – 1-Hour Rating

	Load-bearing Steel Stud—15.9 mm (¾") SHEETROCK brand gypsum panels, FIRECODE core—90 mm (3½") 0.9 mm (20-ga) steel studs 600 mm (24") o.c.—panels screw att—joints stag & fin— ULC Des W424, UL Des U423 or U425 —rating also applies with GRAND PRIX FIRECODE base and veneer plaster.	40	USG-810519	SA923	33
		41	Based on 50 mm (2") SAFB in cavity— USG-810518		

wt. 29 kg/m² (6 PSF)

	Dbl layer 12.7 mm (½") SHEETROCK brand gypsum panels, FIRECODE C core—90 mm (3½") 0.9 mm (20-ga) steel studs 600 mm (24") o.c.—THERMAFIBER SAFB optional—RC-1 chan or equiv one side, spaced 600 mm (24") o.c. screw-att to studs—panels screw att—joints stag and fin— UL Des U423 or U440 —rating also applies with GRAND PRIX FIRECODE C base and veneer plaster.	61	Based on 90 mm (3½") 16-ga struc studs, 15.9 mm (¾") thick panels, lateral bracing and 76 mm (3") SAFB— SA-830628	SA923	34
		51	Based on 90 mm (3½") 16-ga struc studs and lateral bracing— SA-840715		

wt. 49 kg/m² (10 PSF)

Fire-rated construction		Acoustical performance		Folder reference
Detail & physical data	Description & test no.	STC	Description & test no.	
Gypsum Drywall or Veneer Plaster (continued)				
Steel Stud Partition (Load-Bearing) – 1 Hour Rating				
	Steel Stud—12.7 mm (1/2") DUROCK cement board—base layer 15.9 mm (5/8") SHEETROCK brand gypsum panels or sheathing, FIRECODE core—min. 90 mm (3 3/8") 0.9 mm (20 ga) steel studs 400 mm (16") o.c.—76 mm (3") THERMAFIBER SAFB— UL Des U473 —rating also applies with GRAND PRIX FIRECODE base and veneer plaster.	N/A		SA932 35
wt. 44 kg/m ² (9 PSF)				
	15.9 mm (5/8") SHEETROCK brand gypsum panels, FIRECODE core—base layer 12.7 mm (1/2") DUROCK cement board—board att with 32 mm (1 1/4") DUROCK screws—min. 90 mm (3 3/8") 0.9 mm (20 ga) steel studs 400 mm (16") o.c.—76 mm (3") THERMAFIBER SAFB— UL Des U485 —rating also applies with GRAND PRIX FIRECODE base and veneer plaster.	N/A		SA932 36
wt. 44 kg/m ² (9 PSF)				
	12.7 mm (1/2") or 15.9 mm (5/8") DUROCK cement panel—90 mm (3 3/8") studs 400 mm (16") o.c.—76 mm (3") THERMAFIBER SAFB—panel attached with 32 mm (1 1/4") DUROCK screws—joints taped and treated—15.9 mm (5/8") SHEETROCK brand gypsum panels, FIRECODE core, other side— UL Des U404	N/A		SA932 37
wt. 34 kg/m ² (7 PSF)				
	15.9 mm (5/8") DUROCK cement panel and 6 mm (1/4") ceramic tile (or CGC veneer plaster system)—90 mm (3 3/8") studs 400 mm (16") o.c.—76 mm (3") THERMAFIBER SAFB—panel attached with 32 mm (1 1/4") DUROCK screws— UL Des U407	N/A		SA932 38
wt. 44 kg/m ² (9 PSF)				
Steel Stud Partitions (Load-Bearing) – 1 1/2-Hour Rating				
	Load-bearing Steel Stud—Dbl layer 12.7 mm (1/2") SHEETROCK brand gypsum panels, FIRECODE C core—90 mm (3 3/8") 0.9 mm (20-ga) steel studs 600 mm (24") o.c.—panels screw att—joints stag and fin— ULC Des W424, UL Des U425	49 49	Based on 50 mm (2") SAFB— USG-811009 Based on 50 mm (2") SAFB and 152 mm (6") 20 ga steel studs— USG-810940	SA923 39
wt. 44 kg/m ² (9 PSF)				
Steel Stud Partitions (Load-Bearing) – 2-Hour Rating				
	Dbl layer 15.9 mm (5/8") SHEETROCK brand gypsum panels, FIRECODE core—90 mm (3 3/8") 0.9 mm (20-ga) steel studs 600 mm (24") o.c.—panels screw att—joints stag and fin— load-bearing up to 100% allowable stud axial load when min 51 mm (2") THERMAFIBER SAFB is used in stud cavities; otherwise load-bearing up to 80% allowable steel axial load—ULC Des W424, UL Des U423 or U425	48 49	Based on 51 mm (2") SAFB in cavity— USG-811006 Based on 51 mm (2") SAFB and 152 mm (6") 0.9 mm (20 ga) steel stud— USG-810937 Note: Refer to ULC listing for specific design, detail requirements and load restrictions.	SA923 40
wt. 49 kg/m ² (10 PSF)	Alternate based on three layers 12.7 mm (1/2") SHEETROCK brand gypsum panels, FIRECODE C core— ULC Des W424, UL Des U423			SA923 41
Steel Stud Partition (Load-Bearing) – 3-Hour Rating				
	Four layers 12.7 mm (1/2") SHEETROCK brand gypsum panels, FIRECODE C core, ea side—90 mm (3 3/8") 0.9 mm (20-ga) steel studs 600 mm (24") o.c.—panels screw att—joints stag and fin— load-bearing up to 100% allowable stud UL Des U426 —rating also applies with GRAND PRIX FIRECODE C axial load—base and veneer plaster.	N/A		SA923 42
wt. 88 kg/m ² (18 PSF)				
Steel Stud Double Wall Chases – 1-Hour Rating				
	Steel Stud Chase Wall—15.9 mm (5/8") SHEETROCK brand gypsum panels, FIRECODE core, ea side—41 mm (1 1/8") 0.45 mm (25-ga) steel studs 600 mm (24") o.c. in 2 rows spaced 160 mm (6 3/4") apart—15.9 mm (5/8") gypsum panel gussets or steel run braces spanning chase screw-att to studs—panels screw att—joints stag & fin— UL Des U420	52	Based on 90 mm (3 3/8") insulation one side— TL-76-155	SA923 43
wt. 88 kg/m ² (18 PSF)	Steel Stud—15.9 mm (5/8") SHEETROCK brand gypsum panels, FIRECODE C core, ea side— fireproofed steel truss —64 mm (2 1/2") 25-ga steel studs 600 mm (24") o.c. in 2 rows spaced 200 mm (8") apart—15.9 mm (5/8") gypsum panel gussets spanning chase att to stud at qtr & ctr points—panels screw-att—joints stag & fin—includes 3 hr. truss— UL Des U805	N/A		SA923 44
Steel Stud Double Wall Chases – 2-Hour Rating				
	Steel Stud Chase Wall—2 layers 15.9 mm (5/8") SHEETROCK brand gypsum panels, FIRECODE core, ea side—41 mm (1 1/8") 0.45 mm (25-ga) steel studs 600 mm (24") o.c. in 2 rows spaced 160 mm (6 3/4") apart—15.9 mm (5/8") gypsum panel gussets or stl run braces spanning chase screw-att to studs—panels appl screw att—joints stag & fin— UL Des U420	52 57	TL-76-162 Based on 90 mm (3 3/8") insulation one side— TL-76-156	SA923 46
wt. 59 kg/m ² (12 PSF)				

Fire-rated construction

Detail & physical data

Description & test no.

Acoustical performance

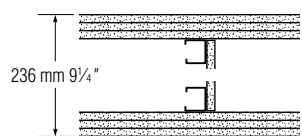
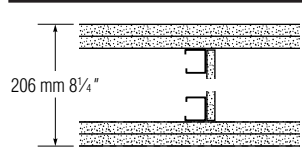
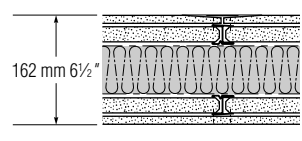
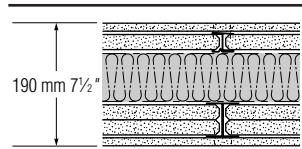
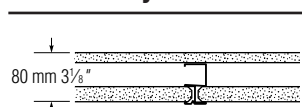
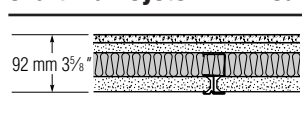
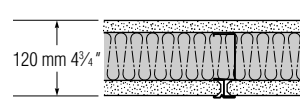
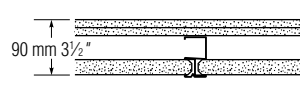
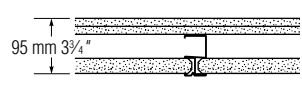
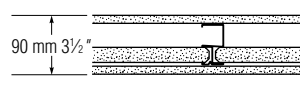
STC Description & test no.

Folder

reference

Gypsum Drywall or Veneer Plaster (continued)

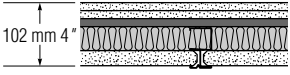
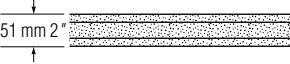
Steel Stud Double Wall Chases – 3-Hour Rating

 <p>236 mm 9 1/4"</p> <p>wt. 63 kg/m² (13 PSF)</p>	<p>Steel Stud—3 layers 12.7 mm (1/2") SHEETROCK brand gypsum panels, FIRECODE C core, ea side—41 mm (1 1/2") studs 600 mm (24") o.c. in 2 rows spaced 76 mm (3") apart—steel truss member—gypsum panel gussets or stl run braces spanning chase screw-att to studs—panels screw att—joints stag & fin—2 hr. rating applies with 2 layers panels ea side—1 hr. rating applies with single layer 15.9 mm (5/8") panels ea side—UL Des U436</p>	N/A	SA923	47	
 <p>206 mm 8 1/4"</p>	<p>Steel stud chase wall—2 layers 19.1 mm (3/4") SHEETROCK brand gypsum panels, ULTRACODE core, ea side—41 mm (1 1/2") studs 24" o.c. in two rows spaced 52 mm (2") apart—steel truss member—gypsum panel gussets or stl run braces spanning chase screw-att to studs—panels screw att—joints stag & fin—UL Des U436</p>		SA923	48	
 <p>162 mm 6 1/2"</p>	<p>Double Wall Drywall—12.7 mm (1/2") SHEETROCK brand gypsum panels, FIRECODE C core—two rows of 25.4 mm (1") SHEETROCK brand gypsum liner panels spaced 90 mm (3 3/4") apart and screw-att to steel angle runners—liner panels set betw 25.4 mm (1") H-splines 600 mm (24") o.c.—76 mm (3") THERMAFIBER SAFB in cavity—face panels screw-att to H-splines—perim caulked—joints fin—UL Des U441</p>	57 60 62	<p>TL-83-211 TL-83-313 Based on vertical cntrline acoust sealant beads TL-83-232 Based on liner panels spaced 165 mm (6 1/2"), 150 mm (6") SAFB in cavity, and vertical cntrline acoust sealant beads Based on liner panels spaced 318 mm (12 1/2"), 300 mm (12") SAFB in cavity, and vertical cntrline acoust sealant beads—TL-83-229</p>	SA923	49
 <p>190 mm 7 1/2"</p>	<p>Double Wall Drywall—12.7 mm (1/2") SHEETROCK brand gypsum panels, FIRECODE C core—one row of single-layer, one row of double-layer 25.4 mm (1") SHEETROCK brand gypsum liner panels spaced 90 mm (3 3/4") apart and screw-att to steel angle runners—single-layer liner panels set betw 25.4 mm (1") H-splines 600 mm (24") o.c., double-layer liner panels set betw 50 mm (2") H-splines 600 mm (24") o.c.—76 mm (3") THERMAFIBER SAFB in cavity—face panels screw-att to H-splines—perim caulked—joints fin—UL Des U441</p>	63 66 69	<p>TL-83-222 Based on liner panels spaced 165 mm (6 1/2"), 150 mm (6") SAFB in cavity, and vertical cntrline acoust sealant beads—TL-83-231 Based on liner panels spaced 318 mm (12 1/2"), 300 mm (12") SAFB in cavity, and vertical cntrline acoust sealant beads—TL-83-226</p>	SA923	50
Shaft Wall System – 1-Hour Rating					
 <p>80 mm 3 1/8"</p> <p>wt. 39 kg/m² (8 PSF)</p>	<p>Cavity Shaft Wall Gypsum Drywall—15.9 mm (5/8") SHEETROCK brand gypsum panels, FIRECODE core, one side—25.4 mm (1") SHEETROCK brand gypsum liner panels set betw CGC steel C-H studs 600 mm (24") o.c.—panels appl to side opp liner panels & screw att—joints fin—UL Des U415 or U469—rating also applies with GRAND PRIX FIRECODE base and veneer plaster.</p>	N/A	SA926	51	
Shaft Wall System – 2-Hour Rating					
 <p>92 mm 3 5/8"</p>	<p>Cavity Shaft Wall Cement Board/Gypsum Drywall—12.7 mm (1/2") DUROCK cement board—15.9 mm (5/8") SHEETROCK brand gypsum panels, FIRECODE core—25.4 mm (1") SHEETROCK brand gypsum liner panels set betw CGC steel 20-ga. min C-H studs 600 mm (24") o.c.—38 mm (1 1/2") THERMAFIBER SAFB—cementboard screw att with 40 mm (1 1/2") DUROCK screws & laminated to gypsum panel with 100 mm (4") strip ceramic tile mastic applied with 6 mm (1/4") notched trowel midway betw studs—joints fin—UL Des U415 or U459</p>	N/A	SA926	52	
 <p>120 mm 4 3/4"</p> <p>wt. 39 kg/m² (8 PSF)</p>	<p>Cavity Shaft Wall—25.4 mm (1") SHEETROCK brand gypsum liner panels, set betw 102 mm (4") CGC steel C-H studs 600 mm (24") o.c. one side—19.1 mm (3/4") SHEETROCK brand gypsum panels, ULTRACODE Core, other side—76 mm (3") THERMAFIBER SAFB—panels screw att—joints stag & fin—perimeter caulked—ULC Des W508, UL Des U415 or U492</p>	52	SA-910913	SA923 SA926	53
 <p>90 mm 3 3/8"</p> <p>wt. 44 kg/m² (9 PSF)</p>	<p>Cavity Shaft Wall Gypsum Drywall—2 layers 12.7 mm (1/2") SHEETROCK brand gypsum panels, FIRECODE C core, one side—25.4 mm (1") SHEETROCK brand liner panels set betw CGC 25-ga. steel C-H studs 600 mm (24") o.c.—joints fin—UL Des U415 or U438—rating also applies with GRAND PRIX FIRECODE C base and veneer plaster.</p>	39 47	USG-750302 Based on 25 mm (1") SAFB in cavity— BBN-750706	SA926	54
 <p>95 mm 3 3/4"</p> <p>wt. 49 kg/m² (10 PSF)</p>	<p>CGC 25.4 mm (1") shaftwall liner panels set between 64 mm (2-1/2") CGC steel C-H studs 600 mm (24") o.c. 2 layers 15.9 mm (5/8") SHEETROCK FIRECODE "C" Panels screwed to studs, both layers parallel to framing and joints offset. Acoustical sealant around perimeter. Joints finished—ULC Des W507 Same as above with 38 mm (1-1/2") THERMAFIBER sound Attenuation Fire Blanket in stud cavity.</p>	39 47	USG 750302 BBN-750706	SA926	54A
<p>Same as above except utilizes 12.7 mm (1/2") SHEETROCK FIRECODE "C" panels—ULC Des W507</p>			SA926	54B	
 <p>90 mm 3 3/8"</p> <p>wt. 44 kg/m² (9 PSF)</p>	<p>Cavity Shaft Wall Gypsum Drywall—15.9 mm (5/8") SHEETROCK brand gypsum panels, FIRECODE core, one side—25.4 mm (1") SHEETROCK brand gypsum liner panels set betw CGC steel C-H studs 600 mm (24") o.c. and 15.9 mm (5/8") SHEETROCK brand Gypsum Panels, FIRECODE, other side—joints stag on opp sides & fin—UL Des U415 or U467—rating also applies with GRAND PRIX FIRECODE base and veneer plaster.</p>	47	Based on 25 mm (1") SAFB in cavity— BBN-750704	SA926 SA925	55

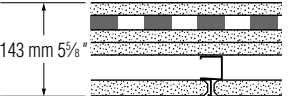
Fire-rated construction		Acoustical performance		Folder reference
Detail & physical data	Description & test no.	STC	Description & test no.	

Gypsum Drywall or Veneer Plaster (continued)


Shaft Wall Systems – 2-Hour Rating

 <p>102 mm 4"</p> <p>wt. 49 kg/m² (10 PSF)</p>	<p>Cavity Shaft Wall Gypsum Drywall—2 layers 12.7 mm (1/2") SHEETROCK brand gypsum panels, FIRECODE C core, one side—25.4 mm (1") SHEETROCK brand gypsum liner panels set betw CGC 25-ga. steel C-H studs 600 mm (24") o.c.—RC-1 chan or equiv spaced 600 mm (24") o.c.—panels & RC-1 chan or equiv screw-att to side opp liner panels—joints fin—est. fire rating based on UL Des U415 or U438—rating also applies with GRAND PRIX FIRECODE C base and veneer plaster</p>	51	Based on 38 mm (1 1/2") SAFB in cavity— BBN-750412	SA926	57
 <p>51 mm 2"</p>	<p>Vent Shaft Gypsum Drywall—41 mm (1 1/2") steel runners—25-ga. steel angles—12.7 mm (1/2") SHEETROCK brand gypsum panels, FIRECODE C core—25.4 mm (1") SHEETROCK brand gypsum liner panel—UL Des U529</p>			SA926	58

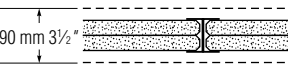
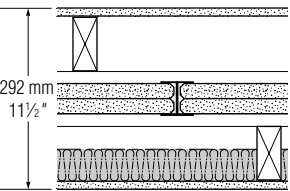
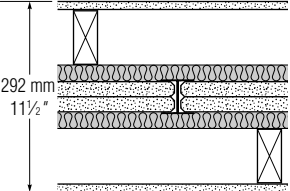
Shaft Wall Systems – 3-Hour Rating

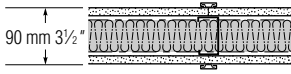
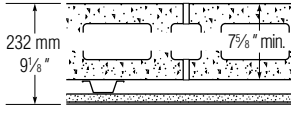
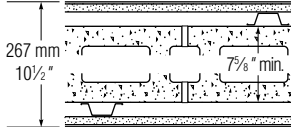
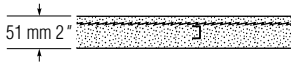
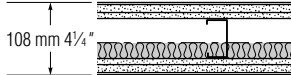
 <p>143 mm 5 3/8"</p> <p>wt. 59 kg/m² (12 PSF)</p>	<p>Cavity Shaft Wall Gypsum Drywall—25.4 mm (1") SHEETROCK brand gypsum liner panels set betw CGC 25-ga. steel C-H studs 600 mm (24") o.c. one side—2 layers SHEETROCK brand gypsum panels, ULTRACODE core—furring channel 600 mm (24") o.c.—1 layer SHEETROCK brand gypsum panels, ULTRACODE core, other side—1st and 2nd layers appl vert or horiz over stl studs—if appl vert joints over stds, stag min. 300 mm (12")—fin with paper tape and joint compound—UL Des U408</p>	N/A		SA926	60
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Shaft Wall System – 4-Hour Rating

 <p>162 mm 6 3/8"</p> <p>wt. 78 kg/m² (16 PSF)</p>	<p>Cavity Shaft Wall Gypsum Drywall—25.4 mm (1") SHEETROCK brand gypsum liner panels set betw CGC 25-ga. steel C-H studs 600 mm (24") o.c. one side—2 layers SHEETROCK brand gypsum panels, ULTRACODE core—furring channel 600 mm (24") o.c.—2 layers SHEETROCK brand gypsum panels, ULTRACODE core, other side—1st 3 layers appl as for 3 hr rating—4th layer appl vert or horiz—if appl vert joints over stds, stag min 600 mm (24") from 3rd layer—otherwise joints stag min. 300 mm (12")—joints fin with paper tape and joint compound—UL Des U408</p>	N/A		SA926	62
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Solid Area Separation Wall Systems – 2-Hour Rating

 <p>90 mm 3 1/2"</p>	<p>Solid Area Separation Wall—two 25.4 mm (1") SHEETROCK brand gypsum liner panels betw CGC one-piece steel H-studs 600 mm (24") o.c.—min. 19.1 mm (3/4") air space both sides separating liner panels from any adjacent construction—UL Des U336</p>	N/A		SA925	63
 <p>292 mm 11 1/2"</p>	<p>Basic design #58 plus 2x4 wd studs 400 mm (16") o.c. each side on 2x4 plates min. 19.1 mm (3/4") from liner panels—50 mm (2") THERMAFIBER SAFB in one cavity—gypsum panels att with 32 mm (1 1/4") Type W screws 300 mm (12") o.c.—joints stag & fin.—perm caulked—UL Des U336</p>	54 46 58	TL-88-348 Based on 2x4s and no SAFB— TL-88-353 Based on 2x4s and 50 mm (2") SAFB on both sides— TL-88-347 Based on 2x4s and 76 mm (3") SAFB one side— TL-88-351 Based on 2x4s and 76 mm (3") SAFB on both sides— TL-88-350		64
 <p>292 mm 11 1/2"</p>	<p>Basic design #58 plus 2x4 wd studs 400 mm (16") o.c. each side on 2x4 plates min. 12.7 mm (1/2") from liner panels—25 mm (1") THERMAFIBER SAFB stapled to both sides of liner panels—12.7 mm (1/2") SHEETROCK brand gypsum panels, facing ea side—UL Des U336</p>	45 54 57	Based on 2x3s, 15.9 mm (5/8") gypsum panels, no SAFB— BBN-730104 Based on 2x3s, 15.9 mm (5/8") gypsum panels, 50 mm (2") SAFB one side— BBN-730103 Based on 2x3s, 15.9 mm (5/8") gypsum panels, 50 mm (2") SAFB both sides— BBN-730102		65
		53 50	TL-88-346 Based on 2x5 mm (1") SAFB one side— TL-88-344		

Fire-rated construction		Acoustical performance		Folder reference
Detail & physical data	Description & test no.	STC	Description & test no.	
Relocatable Walls – 1-Hour Rating				
	12.7 mm (1/2") SHEETROCK brand gypsum panels, FIRECODE C core— alum battens 600 mm (24") o.c.—64 mm (2 1/2") 25-ga steel studs 600 mm (24") o.c.—51 mm (2") THERMAFIBER insulation— ULC Des U406 or UL Des U406		N/A	69
Furred Masonry – 3-Hour Rating				
	Concrete Blk (UL Classified)—12.7 mm (1/2") SHEETROCK brand gypsum panels, FIRECODE C core, or 12.7 mm (1/2") GRAND PRIX FIRECODE C veneer base & veneer plaster—22 mm (3/4") deep met fur chan 600 mm (24") o.c.—base att with 25 mm (1") drywall screws 200 mm (8") o.c. at butt joints, 300 mm (12") o.c. in field—2 mm (1/8") veneer finish—joints taped— UL Des U914	N/A	SA920	74
Furred Masonry – 4-Hour Rating				
	Concrete Blk (UL Classified)—12.7 mm (1/2") SHEETROCK brand gypsum panels, FIRECODE C core, or 12.7 mm (1/2") GRAND PRIX FIRECODE C gypsum base & veneer plaster—22 mm (3/4") deep met fur chan 600 mm (24") o.c.—base att with 25 mm (1") drywall screws 200 mm (8") o.c. at butt joints, 300 mm (12") o.c. in field—2 mm (1/8") veneer finish—joints taped— UL Des U910	N/A	SA920	75
Conventional Lath & Plaster				
Steel Stud Partitions – 1-Hour Rating				
	51 mm (2") Solid Metal Lath & Plaster—19 mm (3/8") or chan 400 mm (16") o.c.—2.5 lb. metal lath wire-tied to chan—100:2-100:2 gypsum sand plaster— OSU-T-129	37	NBS-523 F45	SA920 76
wt.88 kg/m ² (18 PSF)				
	9.5 mm (3/8") ROCKLATH Type X base, both sides, 200 mm (8") o.c.—64 mm (2 1/2") 20 ga steel studs 400 mm (16") o.c.—25 mm (1") THERMAFIBER insulation—11 mm (7/8") plaster base coat, 2 mm (1/8") veneer plaster finish coat— UL Des U488		N/A	77