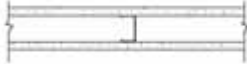
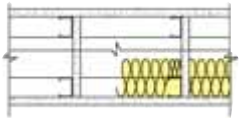
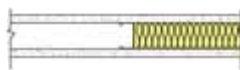
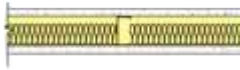
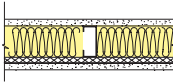
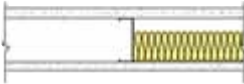
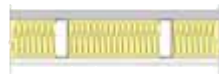
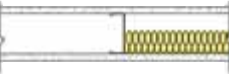
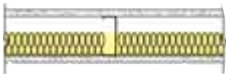
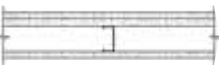
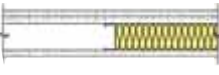



Gypsum Wallboard Partitions-Steel Framing (CAD FILE NAME **GOLDJ.DWG** OR **GOLDJ.DXF**)

No.	Fire Rating		Ref.	Design No.	Description	STC	Test No.
1	1 hr.		OSU GA	T-3296 WP 1340	5/8" (15.9 mm) Fire-Shield Gypsum Wallboard, 5/8" (12.7 mm) Fire-Shield Kal-Kore plaster base, or 5/8" Fire-Shield MR Wallboard screw attached vertically to both sides 1 5/8" (41.3 mm) steel studs, 24" o.c. (610 mm). Wallboard joints staggered.	38	NGC 2384
2	1 hr.		UL GA	U420 WP 5015	Chase wall, 5/8" (15.9 mm) Fire-Shield Gypsum Wallboard screw attached vertically to both sides. Air space 9 1/2" (241.3 mm) between inside wallboard faces. Sound rating with 3 1/2" (88.9 mm) mineral wool or glass fiber. 1 5/8" (41.3 mm) steel studs, 24" o.c., (610 mm) cross braced at third points with 5/8" (15.9 mm) wallboard gussets 9 1/2" x 12" (241.3 mm x 305 mm) or 9 1/2" (241.3 mm) long stud track.	52	TL 76-155
3	1 hr.		OSU GA	Based On T-3296 WP 1340	5/8" (15.9 mm) Fire-Shield Gypsum Wallboard, 5/8" (12.7 mm) Fire-Shield Kal-Kore plaster base or 5/8" (15.9 mm) Fire-Shield MR Board screw attached vertically to both sides 2 1/2" (63.5 mm) steel studs, 24" o.c. (610 mm). Wallboard joints staggered. With 2 1/2" (63.5 mm) of mineral wool or glass fiber in cavity.	40 45	NGC 2438 NGC 2391
4	1 hr.		UL UL FM GA	V401 V438 WP-51 WP 1070	1/2" (12.7 mm) Fire-Shield C Gypsum Wallboard or 1/2" (12.7 mm) Fire-Shield C Kal-Kore plaster base screw attached vertically to both sides 2 1/2" (63.5 mm) steel studs, 24" o.c. (610 mm). 2" (51 mm) mineral wool [2.5 pcf (40 kg/m³)] in stud cavity. Wallboard joints staggered.	45	NGC 2179
	1 hr.		UL UL FM GA	V401 V438 WP-731 WP 1071	1/2" (12.7 mm) Fire-Shield C Gypsum Wallboard or 1/2" (12.7 mm) Fire-Shield C Kal-Kore plaster base screw attached horizontally to both sides, 2 1/2" (63.5 mm) steel studs, 24" o.c. (610 mm). 2" (51 mm) mineral wool [3 pcf (48 kg/m³)] in stud cavity. Horizontal joints not staggered with those on the opposite side of partition.		
5	1 hr.		UL	U451	1/2" (12.7 mm) Fire-Shield C Gypsum Wallboard screw applied to resilient furring channel spaced 24" o.c. (610 mm) one side only, on 2 1/2" (63.5 mm) steel studs spaced 24" o.c. (610 mm). Other side 1/2" (12.7 mm) Fire-Shield C Wallboard screw attached direct to studs 3" (76 mm) mineral wool (3pcf) in stud cavity.	est. 50	

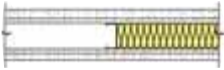
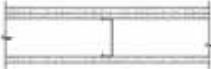
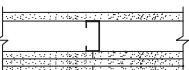


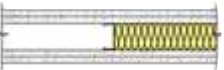
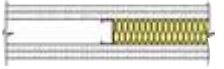
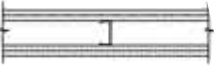
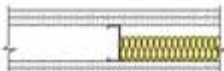
QUICK SELECTOR FOR FIRE AND SOUND RATED SYSTEMS

Gypsum Wallboard Partitions-Steel Framing (cont'd) (CAD FILE NAME GOLDJ.DWG OR GOLDJ.DXF)

No.	Fire Rating		Ref.	Design No.	Description	STC	Test No.
FIRE – SOUND							
6	1 hr.		FM	WP 45	5/8" (15.9 mm) Fire-Shield Gypsum Wallboard, 5/8" (15.9 mm) Fire-Shield Kal-Kore plaster base or 5/8" (15.9 mm) Fire-Shield MR Board screw attached horizontally to both sides 3 5/8" (92.1 mm) steel studs, 24" o.c. (610 mm). All wallboard joints staggered.	42	NGC 2385
			GA	WP-1200			
			OSU	T-1770		5/8" (15.9 mm) Fire-Shield Gypsum Wallboard screw attached vertically to both sides 3 5/8" (92.1 mm) steel studs, 24" o.c. (610 mm). Wallboard joints staggered. 2 1/2" (63.5 mm) mineral wool or glass fiber in cavity.	47
			UL	U465	5/8" (15.9 mm) Fire-Shield Wallboard, 5/8" (15.9 mm) Fire-Shield Kal-Kore plaster base or 5/8" (15.9 mm) Hi-Impact XP Fire-Shield Wallboard screw attached vertically with fasteners 8" o.c. (203 mm) at edges and 12" o.c. (305 mm) in the field of the board to 3 5/8" (92.1 mm) board to 3 5/8" (92.1 mm) steel studs spaced maximum 24" o.c. (610 mm) with joints staggered on opposite sides of the wall.		
			UL	V438			
7	1 hr.		UL	V452	1/2" (12.7 mm) PermaBase cement board screw attached horizontally or vertically on one side to 3 5/8" steel studs 16" o.c. (406 mm) and 5/8" (15.9 mm) Fire-Shield Wallboard screw attached vertically on opposite side, joints staggered, 3" (76 mm) thick mineral wool batts [2.5 pcf (40 kg/m³)] in stud cavity.	45	NGC 2099015
			ITS/WHI	J99-4001			
8	45 min.		FM	Based on WP-51	1/2" (12.7 mm) Fire-Shield C Gypsum Wallboard or 1/2" (12.7 mm) Fire-Shield C Kal-Kore plaster base screw attached vertically to both sides 3 5/8" (92.1 mm) steel studs, 24" o.c. (610 mm). 2" (51 mm) glass fiber in stud cavity. Wallboard joints staggered.	45	NGC 2146
9	1 hr.		UL	Based on V401	1/2" (12.7 mm) Fire-Shield C Gypsum Wallboard or 1/2" (12.7 mm) Fire-Shield C Kal-Kore plaster base screw attached vertically to both sides 3 5/8" (92.1 mm) steel studs, 24" o.c. (610 mm). 2" (51 mm) mineral wool [2.5 pcf (40 kg/m³)] in stud cavity. Wallboard joints staggered.	45	NGC 2149
			FM	Based on WP-51			
			GA	WP 1070			
10	1 hr.		FM	WP-66	1/2" (12.7 mm) Fire-Shield C Gypsum Wallboard screw vertically applied to 2 1/2" (63.5 mm) steel stud. Double layer on one side, single layer on the other. Base layer screw attached, face layer and single layer screwed at edges, adhesively attached along center. Wallboard joints staggered.	43	Based on NGC 2248
			GA	WP 1021			
			FM	WP-733	2 1/2" (63.5 mm) screw studs, 24" o.c. (610 mm) double layer of 1/2" (12.7 mm) Fire-Shield Gypsum Wallboard screw applied horizontally one side with face layer staggered 2' (610 mm) from base layer. Other side one layer screw applied horizontally. Face layer horizontal joints each side not staggered.		
			GA	WP 1022			
11	1 hr.		FM	Based on WP-66	1/2" (12.7 mm) Fire-Shield C Gypsum Wallboard screw attached vertically to both sides 2 1/2" (63.5 mm) steel studs, spaced 24" o.c. (610 mm). Second layer screw attached vertically to one side only and 3" (76 mm) glass fiber in cavity. Wallboard joints staggered.	50	NGC 2253
			GA	Based on WP 1021			
12	1 hr.		FM	Based on WP-66	1/2" (12.7 mm) Fire-Shield C Gypsum Wallboard screw attached vertically to both sides 3 5/8" (92.1 mm) steel studs, spaced 24" o.c. (610 mm). Second layer screw attached vertically to one side only. Wallboard joints staggered.	44	NGC 2323
			GA	Based on WP 1021			
					3" (76 mm) glass fiber cavity.	50	Based on NGC 2253

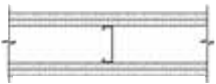
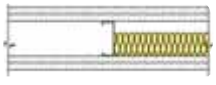


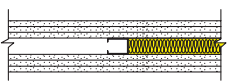
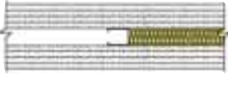
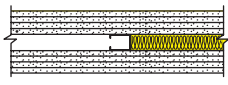
QUICK SELECTOR FOR FIRE AND SOUND RATED SYSTEMS

Gypsum Wallboard Partitions-Steel Framing (cont'd) (CAD FILE NAME **GOLDJ.DWG** OR **GOLDJ.DXF**)

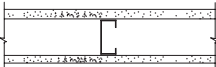

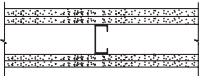
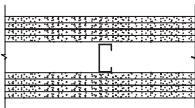
No.	Fire Rating		Ref.	Design No.	Description	STC	Test No.
FIRE – SOUND							
13	1 hr.		UL FM GA	U410 WP-152 WP 1051	1/2" (12.7 mm) Fire-Shield C Wallboard, 1/2" (12.7 mm) Fire-Shield C Kal-Kore plaster base or 1/2" (12.7 mm) Fire-Shield Durasan laminated to 1/4" (6.35 mm) Gypsum Wallboard screw attached both sides 2 1/2" (63.5 mm) steel studs, 24" o.c. (610 mm). Wallboard joints staggered. 2" (51 mm) mineral wool or glass fiber in cavity.	45 53	NGC 2328 NGC 2318
14	1 1/2 hr.		OSU	T-3240	5/8" (15.9 mm) Fire-Shield Gypsum Wallboard or 5/8" (15.9 mm) Fire-Shield MR Board screw attached vertically to both sides 3 5/8" (92.1 mm) steel studs, 24" o.c. (610 mm). Second layer one side only, laminated vertically. Wallboard joints staggered.	44	NGC 2388
15	2 hr.		UL	V449	5/8" (15.9 mm) Fire-Shield Gypsum Wallboard screw attached vertically to both sides 3 1/2" (88.9 mm) steel studs, spaced 24" o.c. (610 mm) Triple layer one side, single layer on the other. Wallboard joints staggered.		
16	2 hr.		UL	V438	Two layers 1/2" (12.7 mm) Fire-Shield C Gypsum Wallboard screw attached both sides 1 5/8" (41.3 mm) steel studs 24" o.c. (610 mm). Base layers applied vertically, face layers applied vertically or horizontally. Vertical joints staggered.		45 est.
17	2 hr.		UL GA	U420 WP 5105	Chase wall. Two layers 5/8" (15.9 mm) Fire-Shield Gypsum Wallboard screw attached vertically to 1 5/8" (41.3 mm) steel studs, 24" o.c. (610 mm). Air space 9 1/2" (241.3 mm). 3 1/2" (88.9 mm) mineral wool or glass fiber in cavity. Wallboard joints staggered.	57	TL-76-156
18	2 hr.		UL FM GA	U412 WP-635 Based on WP 1615	Two layers 1/2" (12.7 mm) Fire-Shield C Gypsum Wallboard or 1/2" (12.7 mm) Fire-Shield C MR Board screw attached both sides 2 1/2" (63.5 mm) steel studs, spaced 24" o.c. (610 mm). Base layers vertical, face layers horizontal. All vertical joints staggered.	46	NGC 2250
			U. of Cal. GA	UC9-7-64 Based on WP 1545	3" (76 mm) glass fiber in cavity.	53	NGC 2252
19	2 hr.		UL GA	U411 Based on WP 1711	Base layer 5/8" (15.9 mm) Fire-Shield Gypsum Wallboard screw attached vertically both sides to 2 1/2" (63.5 mm) steel studs 24" o.c. (610 mm). Face layer laminated or screw attached vertically both sides. 2 1/2" (63.5 mm) mineral wool or glass fiber in cavity. Wallboard joints staggered.	55	NGC 2382
			WHI GA	495-0236 WP 1548	Two layers 5/8" (15.9 mm) Fire-Shield Gypsum Wallboard screw attached horizontally with vertical and horizontal joints staggered and 3" (76 mm) mineral wool or glass fiber in cavity.	56	NGC 3022
20	2 hr.		UL	V438	Two layers 5/8" (15.9 mm) Fire-Shield Gypsum Wallboard or 5/8" (15.9 mm) Hi-Impact XP Fire-Shield Wallboard base layer screw attached vertically to both sides 2 1/2" (63.5 mm) steel studs 24" o.c. (610 mm). Vertical joints staggered.		
21	2 hr.		UL FM	U412 Based on WP-635	Two layers 1/2" (12.7 mm) Fire-Shield C Gypsum Wallboard or 1/2" (12.7 mm) Fire-Shield C MR Board screw attached both sides 3 5/8" (92.1 mm) steel studs, spaced 24" o.c. (610 mm). Base layers vertical, face layers horizontal. All vertical joints staggered.	48	NGC 2282
			GA	Based on WP 1630	3" (76 mm) mineral wool or glass fiber in cavity.	53	NGC 2288

QUICK SELECTOR FOR FIRE AND SOUND RATED SYSTEMS

Gypsum Wallboard Partitions-Steel Framing (cont'd) (CAD FILE NAME GOLDJ.DWG OR GOLDJ.DXF)

No.	Fire Rating		Ref.	Design No.	Description	STC	Test No.
FIRE – SOUND							
22	2 hr.		OSU GA	T-1771 Based on WP 1711	First layer 5/8" (15.9 mm) Fire-Shield Gypsum Wallboard screw attached vertically both sides 3 5/8" (92.1 mm) steel studs, spaced 24" o.c. (610 mm). Second layer laminated vertically both sides. Vertical joints staggered.	48	NGC 2282
23	2 hr.		UL GA	U411 WP 1711	First layer 5/8" (15.9 mm) Fire-Shield Gypsum Wallboard screw attached vertically both sides 3 5/8" (92.1 mm) steel studs, spaced 24" o.c. (610 mm). Second layer laminated or screw attached vertically both sides and 3" (76 mm) mineral wool or glass fiber in cavity. Vertical joints staggered.	56	NGC 3022
24	2 hr.		UL ITS/WHI	V452 J98-32931	1/2" (12.7 mm) PermaBase cement board face layer screw attached vertically over 1/2" (12.7 mm) Fire-Shield C Wallboard base layer on one side to 3 5/8" steel studs 16" o.c. (406 mm) and double layer of 1/2" (12.7 mm) Fire-Shield C Wallboard applied vertically to opposite side with 3" (76 mm) thick mineral wool insulation batts [2.5 pcf (40 kg/m³)] in stud cavity. All joints staggered between face and base layers.	52	NGC 2099016
25	3 hr.		UL WHI GA	U435 694-0084 WP 2921	Three layers of 1/2" (12.7 mm) Fire-Shield C Gypsum Wallboard screw attached to each side of 1 5/8" (41.3 mm) steel studs, 24" o.c. (610 mm). Base and second layer vertical, face layer horizontal. All wallboard joints staggered.	48	NGC 2631
					1 1/2" (38.1 mm) mineral wool or glass fiber in cavity.	53	NGC 2636
26	3 hr.		UL	V438	Three layers of 5/8" (15.9 mm) Fire-Shield Gypsum Wallboard screw attached to each side of 1 5/8" (41.3 mm) steel studs, 24" o.c. (610 mm). Base and second layer vertical, face layer vertical or horizontal. All wallboard joints staggered.	48	Based on NGC 2631
					1 1/2" (38.1 mm) mineral wool or glass fiber in cavity.	53	Based on NGC 2633
27	4 hr.		UL WHI GA	U435 694-108.1 WP 2970	Four layers of 1/2" (12.7 mm) Fire-Shield C Gypsum Wallboard screw attached to each side of 1 5/8" (41.3 mm) steel studs, 24" o.c. (610 mm). Base, second and third layer vertical, face layer horizontal. All wallboard joints staggered except long joints of base and second layer fall on the same studs.	51	NGC 2633
			GA	WP 2960	1 1/2" (38.1 mm) mineral wool or glass fiber in cavity.	55	NGC 2634
28	4 hr.		UL	V438	Four layers of 5/8" (15.9 mm) Fire-Shield Gypsum Wallboard screw attached to each side of 1 5/8" (41.3 mm) steel studs, 24" o.c. (610 mm). Base, second and third layer vertical, face layer vertical or horizontal. All wallboard joints staggered.	51	Based on NGC 2633
					1 1/2" (38.1 mm) mineral wool or glass fiber in cavity.	55	Based on NGC 2633

Gypsum Wallboard Partitions-Steel Framing (load-bearing) (CAD FILE NAME **GOLDJ.DWG** OR **GOLDJ.DXF**)

No.	Fire Rating		Ref.	Design No.	Description	STC	Test No.
FIRE – SOUND							
1	1 hr.		UL GA	U425 WP 1206	One layer 5/8" (15.9 mm) Fire-Shield Gypsum Wallboard screw applied vertically to each side of 3 1/2" (88.9 mm) 20 gauge steel studs spaced 24" o.c. (610 mm), studs laterally braced and fastened to tracks. All wallboard joints staggered on opposite sides.		
2	2 hr.		FM GA	WP-199 WP 1714	Two layers 5/8" (15.9 mm) Fire-Shield Gypsum Wallboard screw applied vertically to each side of 18 gauge 2 1/2" (63.5 mm) steel studs spaced 16" o.c. (406 mm). Base layer joints staggered 16" (406 mm) from joints of base layer. Steel bridging required.	40 est.	
3	2 hr.		UL GA	U425 WP 1716	Two layers 5/8" (15.9 mm) Fire-Shield Gypsum Wallboard screw attached vertically to each side of 3 1/2" (88.9 mm) 20 gauge steel studs spaced 24" o.c. (610 mm), studs laterally braced and fastened to tracks. All wallboard joints staggered on opposite sides. (Tested at 80 percent of design load.)		
4	3 hr.		UL	U426	Four layers of 1/2" (12.7 mm) Fire-Shield C Gypsum Wallboard screw attached to each side of 3 1/2" (88.9 mm) 20 gauge steel studs spaced 24" o.c. (610 mm), studs laterally braced and fastened to tracks. Base, second and third layers applied vertical; face layer may be applied either horizontal or vertical. All wallboard joints staggered from joints in adjacent layers and on opposite sides of studs.		