

Steel Thickness and Stiffening Lip Length

Steel Thickness Table

Designation Thickness	Minimum Thickness ¹ (in)	Design Thickness ¹ (in)	Design Inside Corner Radii (in)	Galvanized Thickness
30EQD*	0.0223	0.0235	0.0820	G40
33EQD	0.0223	0.0235	0.0820	G60
33EQS	0.0280	0.0295	0.0790	G60
43EQS	0.0380	0.0400	0.0712	G60

¹Minimum thickness represents 95% of the design thickness and is the minimum acceptable thickness delivered to the job site based on AISI S100-16 Section B7.1

*30EQD not available in Hawaii, use 33EQD for heavier coating.

Wall Height Tables

Table Notes

1. Allowable composite limiting heights are calculated in accordance using ICC-ES AC 86-2012.
2. The gypsum board must be applied full height to each stud flange and installed using minimum No. 6 Type S Drywall screws spaced a maximum of 12 inch on-center for studs at 24 inch spacing, and 16 inch on-center for studs at 16 inch and 12 inch spacing.
3. A fastener is to be attached through the stud to the track in each flange. Stud end bearing must be a minimum of 1 inch.
4. "f" adjacent to the height value indicates that flexural stress controls the allowable height.
5. 3 5/8" wall height tables conservatively use 4" composite testing.

Composite - 3 5/8", 4", and 6" Wall Height Tables

Part No.	Fy (ksi)	Design Thickness	Minimum Thickness	Spacing (in) oc	5 psf			7.5 psf			10 psf		
					L/120	L/240	L/360	L/120	L/240	L/360	L/120	L/240	L/360
362SG-30EQD	57	0.0235	0.0223	12	17' - 8"	14' - 0"	12' - 0"	15' - 5"	12' - 0"	10' - 0"	14' - 0"	10' - 7"	8' - 8"
				16	16' - 0"	12' - 8"	10' - 7"	14' - 0"	10' - 7"	8' - 8"	12' - 8"	9' - 2"	-
				24	14' - 0"	10' - 7"	8' - 8"	12' - 0"	8' - 8"	-	10' - 7"	-	-
362SG-33EQD	57	0.0235	0.0223	12	17' - 8"	14' - 0"	12' - 0"	15' - 5"	12' - 0"	10' - 0"	14' - 0"	10' - 7"	8' - 8"
				16	16' - 0"	12' - 8"	10' - 7"	14' - 0"	10' - 7"	8' - 8"	12' - 8"	9' - 2"	-
				24	14' - 0"	10' - 7"	8' - 8"	12' - 0"	8' - 8"	-	10' - 7"	-	-
362SG162-33EQS	57	0.0295	0.0280	12	18' - 7"	14' - 9"	12' - 9"	16' - 3"	12' - 9"	10' - 9"	14' - 9"	11' - 4"	9' - 3"
				16	16' - 11"	13' - 5"	11' - 4"	14' - 9"	11' - 4"	9' - 3"	13' - 5"	9' - 11"	8' - 1"
				24	14' - 9"	11' - 4"	9' - 3"	12' - 9"	9' - 3"	-	11' - 4"	8' - 1"	-
362SG162-43EQS	57	0.0400	0.0380	12	20' - 3"	16' - 1"	14' - 1"	17' - 9"	14' - 1"	12' - 0"	16' - 1"	12' - 9"	10' - 3"
				16	18' - 5"	14' - 8"	12' - 9"	16' - 1"	12' - 9"	10' - 3"	14' - 8"	10' - 11"	8' - 11"
				24	16' - 1"	12' - 9"	10' - 3"	14' - 1"	10' - 3"	8' - 5"	12' - 9"	8' - 11"	-
400SG-30EQD	57	0.0235	0.0223	12	17' - 8"	14' - 0"	12' - 0"	15' - 5"	12' - 0"	10' - 0"	14' - 0"	10' - 7"	8' - 8"
				16	16' - 0"	12' - 8"	10' - 7"	14' - 0"	10' - 7"	8' - 8"	12' - 8"	9' - 2"	-
				24	14' - 0"	10' - 7"	8' - 8"	12' - 0"	8' - 8"	-	10' - 7"	-	-
400SG-33EQD	57	0.0235	0.0223	12	17' - 8"	14' - 0"	12' - 0"	15' - 5"	12' - 0"	10' - 0"	14' - 0"	10' - 7"	8' - 8"
				16	16' - 0"	12' - 8"	10' - 7"	14' - 0"	10' - 7"	8' - 8"	12' - 8"	9' - 2"	-
				24	14' - 0"	10' - 7"	8' - 8"	12' - 0"	8' - 8"	-	10' - 7"	-	-
400SG162-33EQS	57	0.0295	0.0280	12	18' - 7"	14' - 9"	12' - 9"	16' - 3"	12' - 9"	10' - 9"	14' - 9"	11' - 4"	9' - 3"
				16	16' - 11"	13' - 5"	11' - 4"	14' - 9"	11' - 4"	9' - 3"	13' - 5"	9' - 11"	8' - 1"
				24	14' - 9"	11' - 4"	9' - 3"	12' - 9"	9' - 3"	-	11' - 4"	8' - 1"	-
400SG162-43EQS	57	0.0400	0.0380	12	20' - 3"	16' - 1"	14' - 1"	17' - 9"	14' - 1"	12' - 0"	16' - 1"	12' - 9"	10' - 3"
				16	18' - 5"	14' - 8"	12' - 9"	16' - 1"	12' - 9"	10' - 3"	14' - 8"	10' - 11"	8' - 11"
				24	16' - 1"	12' - 9"	10' - 3"	14' - 1"	10' - 3"	8' - 5"	12' - 9"	8' - 11"	-
600SG-30EQD	57	0.0235	0.0223	12	19' - 7"	16' - 0"	14' - 0"	17' - 2"	13' - 11"	12' - 3"	15' - 7"	12' - 8"	11' - 1"
				16	17' - 10"	14' - 6"	12' - 9"	15' - 7"	12' - 8"	11' - 1"	14' - 2"	11' - 6"	10' - 1"
				24	15' - 7"	12' - 8"	11' - 1"	13' - 7"	11' - 1"	9' - 8"	12' - 4"	10' - 1"	8' - 4"
600SG-33EQD	57	0.0235	0.0223	12	19' - 7"	16' - 0"	14' - 0"	17' - 2"	13' - 11"	12' - 3"	15' - 7"	12' - 8"	11' - 1"
				16	17' - 10"	14' - 6"	12' - 9"	15' - 7"	12' - 8"	11' - 1"	14' - 2"	11' - 6"	10' - 1"
				24	15' - 7"	12' - 8"	11' - 1"	13' - 7"	11' - 1"	9' - 8"	12' - 4"	10' - 1"	8' - 4"
600SG162-33EQS	57	0.0295	0.0280	12	20' - 8"	16' - 8"	14' - 7"	18' - 1"	14' - 7"	12' - 9"	16' - 5"	13' - 3"	11' - 7"
				16	18' - 9"	15' - 2"	13' - 3"	16' - 5"	13' - 3"	11' - 7"	14' - 11"	12' - 0"	10' - 6"
				24	16' - 5"	13' - 3"	11' - 7"	14' - 4"	11' - 7"	10' - 1"	13' - 0"	10' - 6"	8' - 11"
600SG162-43EQS	57	0.0400	0.0380	12	22' - 6"	17' - 10"	15' - 7"	19' - 8"	15' - 7"	13' - 7"	17' - 10"	14' - 2"	12' - 5"
				16	20' - 5"	16' - 3"	14' - 2"	17' - 10"	14' - 2"	12' - 5"	16' - 3"	12' - 10"	11' - 3"
				24	17' - 10"	14' - 2"	12' - 5"	15' - 7"	12' - 5"	10' - 10"	14' - 2"	11' - 3"	9' - 10"

Sound Rating Data



Single Layer 5/8" Type X GWB 1x1 Application

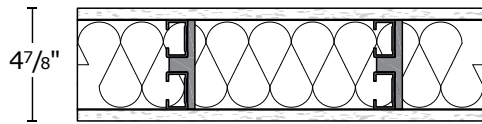
Wall Size	Application	STC Rating	GA-WP Range
3 5/8" Wall	2 - 1 5/8" Studs, Single GWB each side, R-13 Insulation	52*	50-54
4" Wall	2 - 1 5/8" Studs, Single GWB each side, R-13 Insulation		
6" Wall	2 - 2 1/2" Studs, Single GWB each side, R-19 Insulation		

*Based on 4" Wall Testing

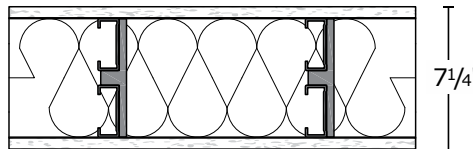
STC Rating: 52*



3 5/8" Wall with 1x1 Application



6" Wall with 1x1 Application



Unbalanced 5/8" Type X GWB 2x1 Application

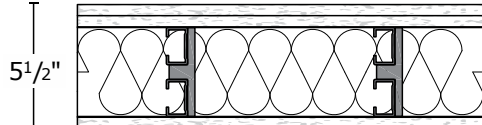
Wall Size	Application	STC Rating	GA-WP Range
3 5/8" Wall	2 - 1 5/8" Studs, Single GWB one side, Double GWB other side, R-13 Insulation	57*	55-59
4" Wall	2 - 1 5/8" Studs, Single GWB one side, Double GWB other side, R-13 Insulation		
6" Wall	2 - 2 1/2" Studs, Single GWB one side, Double GWB other side, R-19 Insulation		

*Based on 4" Wall Testing

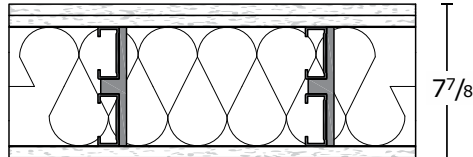
STC Rating: 57*



3 5/8" Wall with 2x1 Application



6" Wall with 2x1 Application



Double Layer 5/8" Type X GWB 2x2 Application

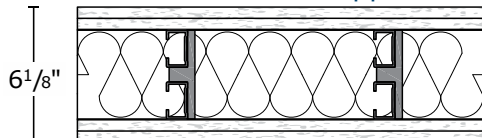
Wall Size	Application	STC Rating	GA-WP Range
3 5/8" Wall	2 - 1 5/8" Studs, Double GWB each side, R-13 Insulation	60*	60-64
4" Wall	2 - 1 5/8" Studs, Double GWB each side, R-13 Insulation		
6" Wall	2 - 2 1/2" Studs, Double GWB each side, R-19 Insulation		

*Based on 4" Wall Testing

STC Rating: 60*



3 5/8" Wall with 2x2 Application



6" Wall with 2x2 Application

