

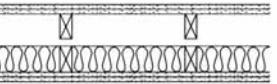
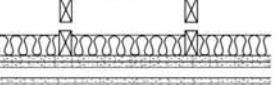
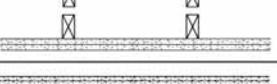
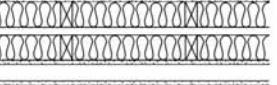
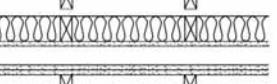
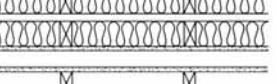
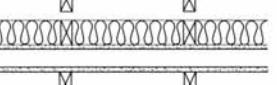
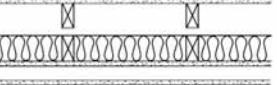
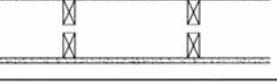
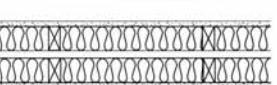


Wall/Floor Design Selection Charts

- Double wood StudsPage 1
- Staggered Wood Studs.....Page 2
- Single Wood Studs with Resilient ChannelPage 3
- Single Wood StudsPage 3
- Chase Walls.....Page 4
- Double Layer Walls.....Page 4
- Unbalanced Walls with Resilient ChannelPage 5
- Unbalanced Walls.....Page 5
- Single Layer Walls with Resilient Channel.....Page 6
- Single Layer WallsPage 6
- Acoustic Wall FramingPage 7
- Wood FloorsPage 8
- Gypsum Concrete FloorsPage 9
- Steel Joist FloorsPage 9

Double Wood Studs

Fire Rating STC Test No. STC Construction Description

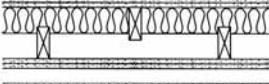
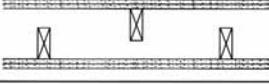
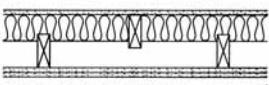
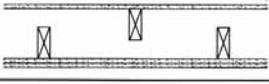
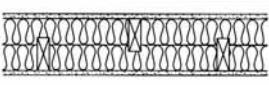
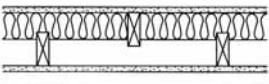
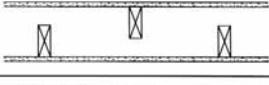
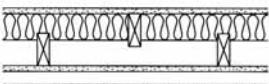
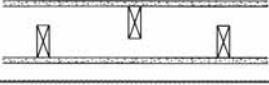
1 Hr.*	W01480	64	Double wood studs 16" o.c.; double layer $\frac{1}{2}$ " type "x" gypsum drywall each side; one thickness, $3\frac{1}{2}$ " thick Wood Framing Batt Insulation	
2 Hr.	W4069	62	Double wood studs 16" o.c.; double layer $\frac{1}{2}$ " type "x" gypsum drywall each side; one thickness, $3\frac{1}{2}$ " thick Wood Framing Batt Insulation	
1 Hr.*	W01580	54	Double wood studs 16" o.c.; double layer $\frac{1}{2}$ " type "x" gypsum drywall each side; no insulation	
1 Hr.*	W01080	60	Double wood studs 16" o.c.; double layer $\frac{1}{2}$ " gypsum drywall one side, single layer other side; two thicknesses, $3\frac{1}{2}$ " thick Wood Framing Batt Insulation	
N.A.	W01180	57	Double wood studs 16" o.c.; double layer $\frac{1}{2}$ " type "x" gypsum drywall one side, single layer other side; one thickness, $3\frac{1}{2}$ " thick Wood Framing Batt Insulation	
N.A.	W00980	48	Double wood studs 16" o.c.; double layer $\frac{1}{2}$ " type "x" gypsum drywall one side, single layer other side; no insulation	
1 Hr.	W2869	59	Double wood studs 16" o.c.; single layer $\frac{1}{2}$ " gypsum drywall each side; two thicknesses, $3\frac{1}{2}$ " thick Wood Framing Batt Insulation	
N.A.	W2969	56	Double wood studs 16" o.c.; single layer $\frac{1}{2}$ " type "x" gypsum drywall each side; one thickness, $3\frac{1}{2}$ " thick Wood Framing Batt Insulation	
N.A.	W3469	47	Double wood studs 16" o.c.; single layer $\frac{1}{2}$ " type "x" gypsum drywall each side; no insulation	
1 Hr.*	OCF448	56	Double wood studs 16" o.c.; single layer $\frac{5}{8}$ " type "x" gypsum drywall each side; one thickness, $3\frac{1}{2}$ " thick Wood Framing Batt Insulation	
1 Hr.*	W4369	45	Double wood studs 16" o.c.; single layer $\frac{5}{8}$ " type "x" gypsum drywall each side; no insulation	
1 Hr.	W02985	60	Double wood studs 24" o.c.; single layer $\frac{5}{8}$ " type "x" gypsum drywall each side; two thicknesses, $3\frac{1}{2}$ " thick Wood Framing Batt Insulation	

*Some of the test results on this page and following pages are estimated.
Where specific test references are available, they will be provided upon request.

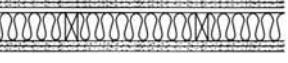
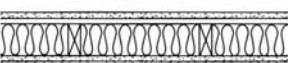
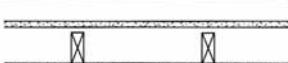
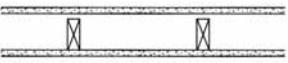
Owens Corning Metal Framing Batts and Wood Framing Batts are manufactured from Fiberglas insulation.

Staggered Wood Studs

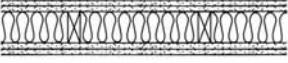
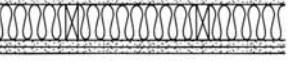
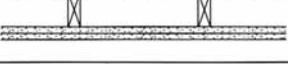
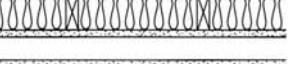
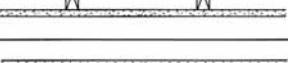
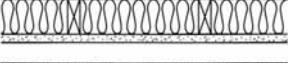
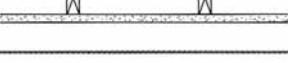
Fire STC Test STC Construction Description
Rating No.

1 Hr.*	W4869	55	Staggered wood studs 24" o.c.; double layer $\frac{1}{2}$ " type "x" gypsum drywall each side; one thickness, $3\frac{1}{2}$ " thick Wood Framing Batt Insulation	
1 Hr.*	W4669	52	Staggered wood studs 24" o.c.; double layer $\frac{1}{2}$ " type "x" gypsum drywall each side; no insulation	
N.A.	W4769	53	Staggered wood studs 24" o.c.; double layer $\frac{1}{2}$ " type "x" gypsum drywall one side, single layer other side; one thickness, $3\frac{1}{2}$ " thick Wood Framing Batt Insulation	
N.A.	W4569	47	Staggered wood studs 24" o.c.; double layer $\frac{1}{2}$ " type "x" gypsum drywall one side, single layer other side; no insulation	
1 Hr.	OC5FC	51	Staggered wood studs 16" o.c.; single layer $\frac{1}{2}$ " gypsum drywall each side; two thicknesses, $3\frac{1}{2}$ " thick Wood Framing Batt Insulation	
N.A.	W01486	51	Staggered wood studs 16" o.c.; single layer $\frac{1}{2}$ " type "x" gypsum drywall each side; one thickness, $3\frac{1}{2}$ " thick R-11 Wood Framing Batt Insulation	
N.A.	OC3FC	39	Staggered wood studs 16" o.c.; single layer $\frac{1}{2}$ " type "x" gypsum drywall each side; no insulation	
1 Hr.*	W5769	46	Staggered wood studs 16" o.c.; single layer $\frac{5}{8}$ " type "x" gypsum drywall each side; one thickness, $3\frac{1}{2}$ " thick Wood Framing Batt Insulation	
1 Hr.*	W5869	43	Staggered wood studs 16" o.c.; single layer $\frac{5}{8}$ " type "x" gypsum drywall each side; no insulation	

Single Wood Studs with Resilient Channel

Fire Rating	STC Test No.	STC	Construction Description	
1 Hr.*	W0569	56	Single wood studs, resilient channel; double layer $\frac{1}{2}$ " type "x" gypsum drywall each side; one thickness, $3\frac{1}{2}$ " thick Wood Framing Batt Insulation	
1 Hr.*	W1369	52	Single wood studs, resilient channel; double layer $\frac{1}{2}$ " type "x" gypsum drywall each side; no insulation	
N.A.	W0669	52	Single wood studs, resilient channel; single layer $\frac{1}{2}$ " type "x" gypsum drywall one side, double layer other side; one thickness, $3\frac{1}{2}$ " thick Wood Framing Batt Insulation	
N.A.	W1469	44	Single wood studs, resilient channel; single layer $\frac{1}{2}$ " type "x" gypsum drywall one side, double layer other side; no insulation	
1 Hr.	WP3230†	50	Single wood studs, resilient channel; single layer $\frac{5}{8}$ " type "x" gypsum drywall each side; one thickness, $3\frac{1}{2}$ " thick Wood Framing Batt Insulation	
1 Hr.*	OCF431	40	Single wood studs, resilient channel; single layer $\frac{5}{8}$ " type "x" gypsum drywall each side; no insulation	
N.A.	W0769	46	Single wood studs, resilient channel; single layer $\frac{1}{2}$ " type "x" gypsum drywall each side; one thickness, $3\frac{1}{2}$ " thick Wood Framing Batt Insulation	
N.A.	W0969	39	Single wood studs, resilient channel; single layer $\frac{1}{2}$ " type "x" gypsum drywall each side; no insulation	

Single Wood Studs

Fire Rating	STC Test No.	STC	Construction Description	
1 Hr.*	W2569	45	Single wood studs 16" o.c.; double layer $\frac{1}{2}$ " type "x" gypsum drywall each side; one thickness, $3\frac{1}{2}$ " thick Wood Framing Batt Insulation	
N.A.	W2469	40	Single wood studs, 16" o.c.; double layer $\frac{1}{2}$ " type "x" gypsum drywall one side, single layer other side; one thickness, $3\frac{1}{2}$ " thick Wood Framing Batt Insulation	
N.A.	W2269	38	Single wood studs, 16" o.c.; double layer $\frac{1}{2}$ " type "x" gypsum drywall one side, single layer other side; no insulation	
N.A.	W2069	39	Single wood studs, 16" o.c.; single layer $\frac{1}{2}$ " type "x" gypsum drywall each side; one thickness, $3\frac{1}{2}$ " thick Wood Framing Batt Insulation	
N.A.	W2169	35	Single wood studs, 16" o.c.; single layer $\frac{1}{2}$ " type "x" gypsum drywall each side; no insulation	
1 Hr.	OCF423	36	Single wood studs, 16" o.c.; single layer $\frac{5}{8}$ " type "x" gypsum drywall each side; one thickness, $3\frac{1}{2}$ " thick Wood Framing Batt Insulation	
1 Hr.	OCF424	34	Single wood studs, 16" o.c.; single layer $\frac{5}{8}$ " type "x" gypsum drywall each side; no insulation	

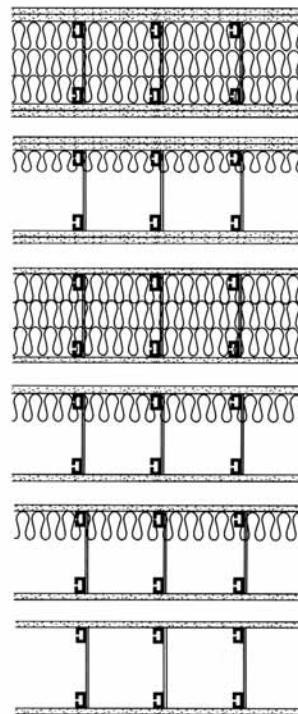
†Listed in the Gypsum Association Fire Resistance Design Manual.

*Refer to page 24 for additional footnotes.

Chase Walls

Fire STC Test STC Construction Description
Rating No.

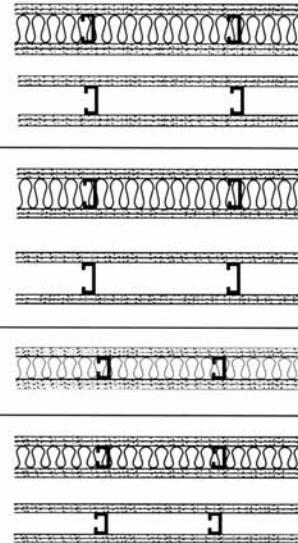
2 Hr.	W1268	60	Chase wall, double layer $\frac{5}{8}$ " type "x" gypsum drywall; $1\frac{5}{8}$ " steel stud; three thicknesses, $3\frac{1}{2}$ " thick Sound Attenuation Batt Insulation
2 Hr.	RAL-TL90-350	57	Chase wall, double layer $\frac{5}{8}$ " type "x" gypsum drywall; $1\frac{5}{8}$ " steel stud; one thickness, $2\frac{1}{2}$ " thick Sound Attenuation Batt Insulation. Secure insulation with supplemental support.
N.A.	W1068	55	Chase wall, $\frac{1}{2}$ " type "x" gypsum drywall; $1\frac{5}{8}$ " steel stud; three thicknesses, $3\frac{1}{2}$ " thick Metal Framing Batt Insulation, or Sound Attenuation Batt Insulation
1 Hr.	RAL-TL90-349	53	Chase wall, $\frac{5}{8}$ " type "x" gypsum drywall; $1\frac{5}{8}$ " steel stud; one thickness, $3\frac{1}{2}$ " thick Metal Framing Batt Insulation, or Sound Attenuation Batt Insulation. Secure insulation with supplemental support.
N.A.	W468	52	Chase wall, $\frac{1}{2}$ " type "x" gypsum drywall; $1\frac{5}{8}$ " steel stud; one thickness, $3\frac{1}{2}$ " thick Metal Framing Batt Insulation, or Sound Attenuation Batt Insulation. Secure insulation with supplemental support.
N.A.	W368	42	Chase wall, $\frac{1}{2}$ " type "x" gypsum drywall; $1\frac{5}{8}$ " steel stud; no insulation



Double Layer Walls

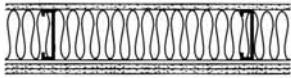
Fire STC Test STC Construction Description
Rating No.

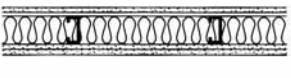
2 Hr.	W02584	58	Double layer wall, $\frac{5}{8}$ " type "x" gypsum drywall; $3\frac{5}{8}$ " steel stud; one thickness, $3\frac{1}{2}$ " thick Metal Framing Batt Insulation, or Sound Attenuation Batt Insulation
2 Hr.	W02982	52	Double layer wall, $\frac{5}{8}$ " type "x" gypsum drywall; $3\frac{5}{8}$ " steel stud; no insulation
2 Hr.	W02184	56	Double layer wall, $\frac{1}{2}$ " type "x" gypsum drywall; $3\frac{5}{8}$ " steel stud; one thickness, $3\frac{1}{2}$ " thick Metal Framing Batt Insulation, or Sound Attenuation Batt Insulation
2 Hr.	W780	50	Double layer wall, $\frac{1}{2}$ " type "x" gypsum drywall; $3\frac{5}{8}$ " steel stud; no insulation
2 Hr.	W02784	57	Double layer wall, $\frac{5}{8}$ " type "x" gypsum drywall; $2\frac{1}{2}$ " steel stud; one thickness, $2\frac{1}{2}$ " thick Sound Attenuation Batt Insulation
2 Hr.	W03084	54	Double layer wall, $\frac{1}{2}$ " type "x" gypsum drywall; $2\frac{1}{2}$ " steel stud; one thickness, $2\frac{1}{2}$ " thick Sound Attenuation Batt Insulation
2 Hr.	W04582	45	Double layer wall, $\frac{1}{2}$ " type "x" gypsum drywall; $2\frac{1}{2}$ " steel stud; no insulation



Unbalanced Walls with Resilient Channel

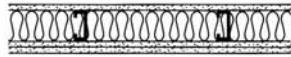
Fire STC Test STC Construction Description
Rating No.

1 Hr.‡* RAL-TL89-295	60	Unbalanced wall, $\frac{5}{8}$ " type "x" gypsum drywall, single layer one side; double layer and resilient channel other side; 6" steel stud; one thickness, $6\frac{1}{4}$ " thick Metal Framing Batt Insulation	
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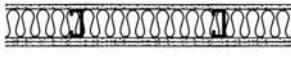
1 Hr.‡* RAL-TL90-345	58	Unbalanced wall, $\frac{5}{8}$ " type "x" gypsum drywall, single layer and resilient channel one side; double layer other side; 3 $\frac{5}{8}$ " steel stud; one thickness, $3\frac{1}{2}$ " thick Metal Framing Batt Insulation, or Sound Attenuation Batt Insulation	
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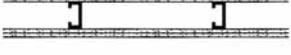
Unbalanced Walls

Fire STC Test STC Construction Description
Rating No.

1 Hr.* W02484	55	Unbalanced wall, $\frac{5}{8}$ " type "x" gypsum drywall; 3 $\frac{5}{8}$ " steel stud; one thickness, $3\frac{1}{2}$ " thick Metal Framing Batt Insulation, or Sound Attenuation Batt Insulation	
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1 Hr.* W03082	47	Unbalanced wall, $\frac{5}{8}$ " type "x" gypsum drywall; 3 $\frac{5}{8}$ " steel stud; no insulation	
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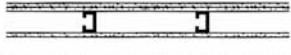
N.A. W02284	52	Unbalanced wall, $\frac{1}{2}$ " type "x" gypsum drywall; 3 $\frac{5}{8}$ " steel stud; one thickness, $3\frac{1}{2}$ " thick Metal Framing Batt Insulation, or Sound Attenuation Batt Insulation	
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N.A. W00682	41	Unbalanced wall, $\frac{1}{2}$ " gypsum drywall; 3 $\frac{5}{8}$ " steel stud; no insulation	
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1 Hr.* W02884	52	Unbalanced wall, $\frac{5}{8}$ " type "x" gypsum drywall; 2 $\frac{1}{2}$ " steel stud; one thickness, 2 $\frac{1}{2}$ " thick Sound Attenuation Batt Insulation	
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1 Hr.* W05382	44	Unbalanced wall, $\frac{5}{8}$ " type "x" gypsum board; 2 $\frac{1}{2}$ " steel stud; no insulation	
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N.A. W02984	50	Unbalanced wall, $\frac{1}{2}$ " type "x" gypsum drywall; 2 $\frac{1}{2}$ " steel stud; one thickness, 2 $\frac{1}{2}$ " thick Sound Attenuation Batt Insulation	
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N.A. W04482	39	Unbalanced wall, $\frac{1}{2}$ " gypsum board; 2 $\frac{1}{2}$ " steel stud; no insulation	
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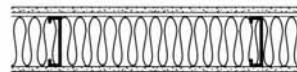
‡Based on a single layer test.

*Refer to page 24 for additional footnotes.

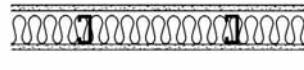
Single Layer Walls with Resilient Channel

Fire STC Test STC Construction Description
Rating No.

- 1 Hr.‡* RAL-TL89-293 **55** Single layer wall, resilient channel; $\frac{5}{8}$ " type "x" gypsum drywall; 6" steel stud; one thickness, $6\frac{1}{4}$ " thick Metal Framing Batt Insulation



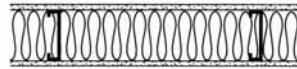
- 1 Hr.‡* RAL-TL90-344 **54** Single layer wall, resilient channel; $\frac{5}{8}$ " type "x" gypsum drywall; $3\frac{5}{8}$ " steel stud; one thickness, $3\frac{1}{2}$ " thick Metal Framing Batt Insulation, or Sound Attenuation Batt Insulation



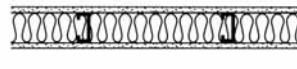
Single Layer Walls

Fire STC Test STC Construction Description
Rating No.

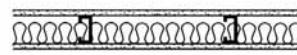
- 1 Hr.* RAL-TL89-288 **51** Single layer wall, $\frac{5}{8}$ " type "x" gypsum drywall; 6" steel stud; one thickness, $6\frac{1}{4}$ " thick Metal Framing Batt Insulation



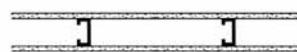
- 1 Hr. RAL-TL89-157 **50** Single layer wall, $\frac{5}{8}$ " type "x" gypsum drywall; $3\frac{5}{8}$ " steel stud; one thickness, $3\frac{1}{2}$ " thick Metal Framing Batt Insulation, or Sound Attenuation Batt Insulation



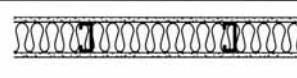
- 1 Hr. W03582 **48** Single layer wall, $\frac{5}{8}$ " type "x" gypsum drywall; $3\frac{5}{8}$ " steel stud; one thickness, $2\frac{1}{2}$ " thick Sound Attenuation Batt Insulation



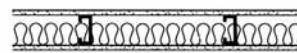
- 1 Hr. W03182 **43** Single layer wall, $\frac{5}{8}$ " type "x" gypsum drywall; $3\frac{5}{8}$ " steel stud; no insulation



- N.A. RAL-TL87-392 **47** Single layer wall, $\frac{1}{2}$ " type "x" gypsum drywall; $3\frac{5}{8}$ " steel stud; one thickness, $3\frac{1}{2}$ " thick Metal Framing Batt Insulation, or Sound Attenuation Batt Insulation



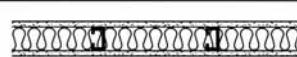
- N.A. W03682 **44** Single layer wall, $\frac{1}{2}$ " gypsum drywall; $3\frac{5}{8}$ " steel stud; one thickness, $2\frac{1}{2}$ " thick Sound Attenuation Batt Insulation



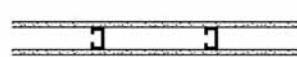
- N.A. W00582 **36** Single layer wall, $\frac{1}{2}$ " gypsum drywall; $3\frac{5}{8}$ " steel stud; no insulation



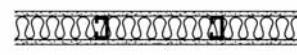
- 1 Hr. W05182 **47** Single layer wall, $\frac{5}{8}$ " type "x" gypsum drywall; $2\frac{1}{2}$ " steel stud; one thickness, $2\frac{1}{2}$ " thick Sound Attenuation Batt Insulation



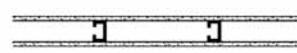
- 1 Hr. W05482 **40** Single layer wall, $\frac{5}{8}$ " type "x" gypsum drywall; $2\frac{1}{2}$ " steel stud; no insulation



- N.A. RAL-TL91-309 **44** Single layer wall, $\frac{1}{2}$ " gypsum drywall; $2\frac{1}{2}$ " steel stud; one thickness, $2\frac{1}{2}$ " thick Sound Attenuation Batt Insulation



- N.A. W04382 **34** Single layer wall, $\frac{1}{2}$ " gypsum drywall; $2\frac{1}{2}$ " steel stud; no insulation



‡Based on a single layer test.

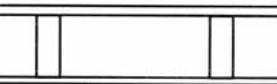
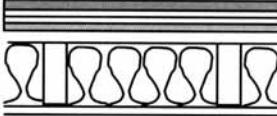
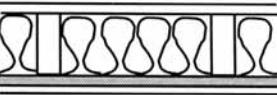
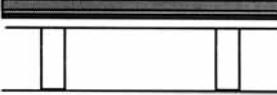
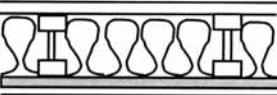
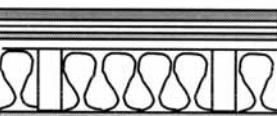
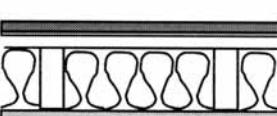
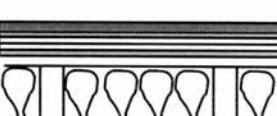
*Refer to page 24 for additional footnotes.

QuietZone® Acoustic Wall Framing

Fire Rating	STC Test No.	STC	Construction Description	Single Layer Gypsum Drywall
N.A.	E90-99082	49	2x4 QuietZone® Acoustic Wall Framing on 16" centers, single layer $\frac{1}{2}$ " type X gypsum drywall each side, 3-1/2" thick QuietZone® Acoustic Batts	
N.A.	E90-99093	50	2x4 QuietZone® Acoustic Wall Framing on 24" centers, single layer 5/8" type X gypsum drywall each side, 3-1/2" thick QuietZone® Acoustic Batts	
N.A.	E90-99099	54	2x6 QuietZone® Acoustic Wall Framing on 24" centers, single layer 5/8" type X gypsum drywall each side, 5-1/2" thick QuietZone® Acoustic Batts	
N.A.	E90-01015	52	2x6 QuietZone® Acoustic Wall Framing on 16" centers, single layer 5/8" type X gypsum drywall each side, 5-1/2" thick QuietZone® Acoustic Batts	
N.A.	E90-99127	53	2x6 QuietZone® Acoustic Wall Framing on 16" centers, single layer 1/2" type X gypsum drywall each side, 5-1/2" QuietZone® Acoustic Batts	
Unbalanced Layers Gypsum Drywall				
N.A.	E90-99086	53	2x4 QuietZone® Acoustic Wall Framing on 16" centers, double layers $\frac{1}{2}$ " type X gypsum drywall one side, single layer other side, each side, 3-1/2" thick QuietZone® Acoustic Batts	
N.A.	E90-99090	54	2x4 QuietZone® Acoustic Wall Framing on 16" centers, double layer 5/8" type X gypsum drywall one side, single layer other side, 3-1/2" thick QuietZone® Acoustic Batts	
N.A.	E90-99095	55	2x4 QuietZone® Acoustic Wall Framing on 24" centers, double layer 5/8" type X gypsum drywall one side, single layer other side, 3-1/2" thick QuietZone® Acoustic Batts	
N.A.	E90-01017	55	2x6 QuietZone® Acoustic Wall Framing on 16" centers, double layer 5/8" type X gypsum drywall one side, single layer other side, 5-1/2" thick QuietZone® Acoustic Batts	
N.A.	E90-99101	59	2x6 QuietZone® Acoustic Wall Framing on 24" centers, double layer 5/8" type X gypsum drywall one side, single layer other side, 5-1/2" thick QuietZone® Acoustic Batts	

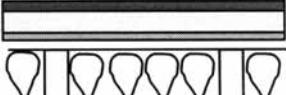
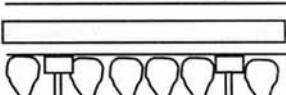
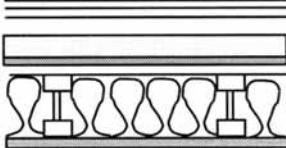
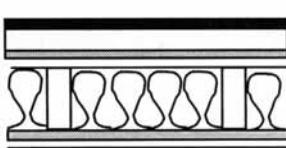
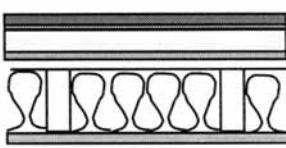
Floor/Ceiling Systems Selection Chart

Wood Floors

STC	IIC	Construction Description	Cross Section of Floor Assembly
33	28	5/8" OSB floor, 2x10 wood joists on 16" centers, one layer 5/8" type X gypsum board, no insulation	
43*	37*	Hardwood flooring, 2 layers 1/2" plywood, QuietZone® Acoustic Floor Mat, 3/4" plywood floor, 2x10 wood joists on 16" centers, 5-1/2" thick QuietZone® Acoustic Batt Insulation, one layer 5/8" type X gypsum board	
50	42	5/8" OSB floor, 2x10 wood joists on 16" centers, 5-1/2" thick Wood Framing Batt Insulation, resilient channels on 16" centers, one layer 5/8" type X gypsum board	
42†	60	Carpet and pad, 3/8" particle board surface, 5/8" plywood subfloor, 2x10 wood joists on 16" centers, single layer 1/2" type X gypsum ceiling, no insulation <small>† STC tests performed on assembly without carpet and pad.</small>	
54**	47**	OSB floor decking, 2x12 Engineered wood I-joists on 16" centers, 5-1/2" thick Wood Framing Batt Insulation, resilient channels on 16" centers, two layers 5/8" FIRECODE C gypsum board	
63	55	Wood Parquet flooring, 2 layers 3/8" plywood, QuietZone® Acoustic Floor Mat, 3/4" plywood subfloor, 2x10 wood joists on 16" centers, 5-1/2" thick QuietZone® Acoustic Batt Insulation, resilient channel on 24" centers, two layers 5/8" type X gypsum board	
53	67	Carpet and pad, 5/8" OSB subfloor, 2x10 wood joists on 16" centers, 5-1/2" thick Wood Framing Batt Insulation, resilient channels on 24" centers, one layer 5/8" type X gypsum board	
63*	75*	Carpet and pad, 2 layers of 3/8" plywood, QuietZone® Acoustic Floor Mat, 3/4" plywood subfloor, 2x10 wood joists on 16" centers, 5-1/2" thick QuietZone® Acoustic Batt Insulation, resilient channel on 24" centers, two layers 5/8" type X gypsum board	

**: Field Test conducted by the National Research Council Canada

Floor/Ceiling Systems Selection Chart

Gypsum Concrete Floors			
STC	IIC	Construction Description	Cross Section of Floor Assembly
53*	45*	Ceramic tile, 1-1/2" Gypsum Concrete, QuietZone® Acoustic Floor Mat, 3/4" plywood floor, 2x10 wood joists on 16" centers, 5-1/2" thick QuietZone® Acoustic Batt Insulation, one layer 5/8" type X gypsum board	
64**	39**	1-1/2" Gypsum Concrete, 5/8" OSB floor decking, 2x12 Engineered wood I-joists on 16" centers, 5-1/2" thick Wood Framing Batt Insulation, resilient channels on 16" centers, two layers 5/8" FIRECODE C gypsum board	
69**	56**	1-1/2" Gypsum Concrete, QuietZone® Acoustic Floor Mat, 5/8" OSB floor decking, 2x12 Engineered wood I-joists on 16" centers, 5-1/2" thick QuietZone® Acoustic Batt Insulation, resilient channel on 16" centers, two layers 5/8" FIRECODE C gypsum board	
73	63	Ceramic tile, 1-1/2" Gypsum Concrete, QuietZone® Acoustic Floor Mat, 3/4" plywood subfloor, 2x10 wood joists on 16" centers, 5-1/2" thick QuietZone® Acoustic Batt Insulation, resilient channel on 24" centers, two layers 5/8" type X gypsum board	
73*	75*	Carpet and pad, 1-1/2" Gypsum Concrete, QuietZone® Acoustic Floor Mat, 3/4" plywood subfloor, 2x10 wood joists on 16" centers, 5-1/2" thick QuietZone® Acoustic Batt Insulation, resilient channel on 24" centers, two layers 5/8" type X gypsum board	

Steel Joist Floors (7-1/4" x 18 gauge, @ 24" o. c.)

STC	IIC	Construction Description
56	71	Carpet and pad, 3/4" T&G plywood subfloor, Steel Joists, one thickness - 3 1/2" thick Metal Framing Batt Insulation or Sound Attenuation Batt Insulation, single layer 5/8" type X gypsum board attached to ceiling joists by resilient channel.
43	57	Carpet and pad, 3/4" T&G plywood subfloor, Steel Joists, single layer 5/8" type X gypsum board attached directly to joists; no insulation

** Field Test conducted by the National Research Council Canada



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