



ROCKWOOL Acoustic Wall Assemblies Catalog



This Acoustics Wall Assemblies Catalog provides a comprehensive list of wall assemblies tested for their acoustic performance. This includes both STC and OITC ratings for steel and wood stud walls, considering both interior and exterior assemblies.

Using this guide:

All assemblies include component descriptions, STC, OITC, and R-values (if available). In addition, each assembly references a ROCKWOOL test number, as well as the ROCKWOOL products included in the tested assembly.



Insulation Included:
ROCKWOOL AFB

Acoustics		Assembly Number: ISS-00	
STC:	43	OITC:	28
Report No.	J2247-13-303-11-R0		
Assembly Components			
Finish material	5/8" Gypsum		
Size	2 1/2" Steel Stud		
Spacing	16" oc		
Product	AFB		
Thickness	1.5"		



Have questions about rated assemblies?

Contact ROCKWOOL Technical services for more information on a particular assembly including Transmission Loss Curve data and other documentation.

Talk to us at **1-877-823-9790**, or by email at techservice@rockwool.com

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AFB®

Acoustical Fire Batt Insulation

ROCKWOOL AFB® is a stone wool batt insulation for interior partitions in commercial constructions where superior fire resistance and acoustical performance are required. AFB is specifically designed to reduce sound transmission and provides exceptional acoustic comfort when installed in a wall assembly with gypsum boards and resilient channels.

- Excellent noise reduction and sound absorption to help you create quieter, more productive environments.
- Non-combustible and fire resistant, stone wool works to contain a fire and prevent its spread.
- Is available in thicknesses ranging from 1"-6" in order to fit in a variety of stud sizes
- AFB evo is also available as a no added formaldehyde product offering in order to meet the specific design standards

Visit rockwool.com/products/afb for more information



Safe'n'Sound®

Residential Fire and Soundproofing Insulation

ROCKWOOL Safe'n'Sound® is a stone wool batt insulation for interior partitions of wood and steel frame residential construction where superior fire resistance and acoustical performance is required. Safe'n'Sound has excellent acoustical dampening properties and provides an easy friction fit into walls, ceiling and floor applications. It is GREENGUARD Gold Certified and contributes to a healthier indoor environment.

- Excellent noise reduction and sound absorption to help you create quieter, more productive environments.
- Non-combustible and fire resistant, stone wool works to contain a fire and prevent its spread.
- Is available in thicknesses for wall, floor/ceiling and I-Joist applications to meet every design need
- Lightweight and easy to install

Visit rockwool.com/products/safensound for more information



Comfortbatt®

Thermal Batt Insulation

ROCKWOOL Comfortbatt® is a semi-rigid stone wool thermal batt insulation for exterior wood and steel stud applications. It features a unique flexible edge that allows for easy installation and helps prevent over compression to maintain its R-value.

- Excellent thermal performance providing a high R-value per inch
- Non-combustible and fire resistant, stone wool works to contain a fire and prevent its spread.
- Excellent noise reduction and sound absorption to help you create quieter, more productive environments.
- Water resistant, stone wool does not rot or promote the growth of mildew, fungi or mold
- Lightweight and easy to install

Visit rockwool.com/products/comfortbatt for more information



ROXUL Safe® 45

Residential Party Wall Insulation

ROXUL Safe® 45 is a semi-rigid stone wool insulation board that is specifically engineered as a fire-blocking material for concealed spaces of multi-unit residential buildings. Using ROXUL Safe® 45 with our ROCKWOOL batt insulation creates a high-density “party” wall system that improves sound dampening and fire performance.

- Reduces the time, labor and material costs usually associated with adding a double layer of gypsum over the wall studs.
- ROXUL Safe® 45 complies with the fire-blocking National Building Code
- Is easy to install, and offers excellent water and moisture resistance

Visit rockwool.com/north-america/products/roxul-safe-45 for more information



Comfortboard® 80

Exterior Wall Insulation: Thermal Insulated Sheathing

ROCKWOOL Comfortboard® 80 is a rigid stone wool board designed for continuous insulation applications. A non-structural sheathing product, Comfortboard 80 provides increased thermal performance to the building envelope. Vapor permeable, Comfortboard 80 has the added benefit of allowing fast outward drying. The insulation also reduces thermal loss resulting in improved long-term thermal performance.

- Fire resistant stone wool can withstand temperatures of approximately 2,150°F (1177°C).
- Vapor permeable enabling wall systems to have superior drying potential, minimizing the risk of condensation and water accumulation.
- Reduces thermal bridging through wood framing, leading to a higher-performing building envelope.
- excellent noise reduction and sound absorption to help you create quieter, more productive environments.

Visit rockwool.com/products/Comfortboard-80 for more information



Cavityrock®

Exterior Wall Insulation: Rainscreens and Cavity Walls

ROCKWOOL Cavityrock® is a semi-rigid stone wool insulation board designed for exterior cavity wall and rainscreen applications. Compatible with numerous cladding attachment systems, Cavityrock is non-combustible and available with a black mat finish.

- Non-combustible and fire resistant, stone wool works to contain a fire and prevent its spread.
- Water resistant and allows for effective drainage from an exterior wall assembly.
- Available black mat finish provides masking for improved open-joint cladding system aesthetics.
- Compatible with a variety of cladding systems including Z-girts, masonry ties, and fiberglass and stainless steel clips.
- Durable inorganic material that does not rot or promote the growth of mildew, fungi or bacteria
- Vapor permeable enabling wall systems to have superior drying potential, minimizing the risk of condensation and water accumulation.

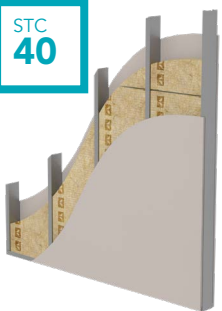
Visit rockwool.com/products/cavityrock for more information



Interior Steel Stud Assemblies

This section will outline interior assemblies using steel studs in various thicknesses, spacings, finishes, and any additional components. Assemblies will be organized by STC value ranging from an STC of 40 to an STC of 57.


STC
40



Acoustics		Assembly Number: ISS-01	
STC:	40	OITC:	27
Report No.	J2247-13-303-11-R0		
Assembly Components			
Finish material	1/2" Gypsum		
Size	3 5/8" Steel Stud		
Spacing	16" oc		
Product	AFB		
Thickness	3"		

Insulation Included:
ROCKWOOL AFB


STC
43



Acoustics		Assembly Number: ISS-02	
STC:	43	OITC:	28
Report No.	NWTL140828-03		
Assembly Components			
Finish material	5/8" Gypsum		
Size	3 5/8" Steel Stud		
Spacing	16" oc		
Product	AFB		
Thickness	3.5"		

Insulation Included:
ROCKWOOL AFB

STC
43

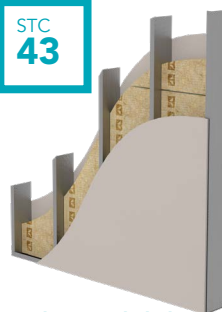


Acoustics		Assembly Number: ISS-03	
STC:	43	OITC:	28
Report No.	J2247-14-303-11-R0		
Assembly Components			
Finish material	5/8" Gypsum		
Size	2 1/2" Steel Stud		
Spacing	16" oc		
Product	AFB		
Thickness	1.5"		

Insulation Included:
ROCKWOOL AFB

Interior Steel Stud Assemblies


STC
43



Acoustics		Assembly Number: ISS-04	
STC:	43	OITC:	27
Report No.	J2247-06-303-11-R0		
Assembly Components			
Finish material	1/2" Gypsum		
Size	6" Steel Stud		
Spacing	16" oc		
Product	AFB		
Thickness	3"		

Insulation Included:
ROCKWOOL AFB


STC
44



Acoustics		Assembly Number: ISS-05	
STC:	44	Report No.	RAL-TL90-197
Assembly Components			
Finish material	1/2" Gypsum		
Size	2 1/2" Steel Stud		
Spacing	24" oc		
Product	AFB		
Thickness	1"		

Insulation Included:
ROCKWOOL AFB

STC
44



Acoustics		Assembly Number: ISS-06	
STC:	44	Report No.	RAL-TL96-285
Assembly Components			
Finish material	1/2" gypsum		
Size	2 1/2" Steel Stud		
Spacing	24" oc		
Product	AFB		
Thickness	2.5"		

Insulation Included:
ROCKWOOL AFB

Interior Steel Stud Assemblies



STC
45

Acoustics Assembly Number: ISS-07

STC: 45 OITC: 29 Report No. J2247-11-303-11-R0

Assembly Components

Finish material	5/8" gypsum
Size	3 5/8" Steel Stud
Spacing	16" oc
Product	AFB
Thickness	3"

Insulation Included:
ROCKWOOL AFB



STC
45

Acoustics Assembly Number: ISS-08

STC: 45 OITC: 29 Report No. NWTL140829-01

Assembly Components

Finish material	5/8" gypsum
Size	3 5/8" Steel Stud
Spacing	16" oc
Product	AFB
Thickness	3.5"
Resilient Channels	RC Deluxe, 16" OC

Insulation Included:
ROCKWOOL AFB



STC
45

Acoustics Assembly Number: ISS-09

STC: 45 Report No. RAL-TL03-303

Assembly Components

Finish material	5/8" gypsum
Size	2 1/2" Steel Stud
Spacing	24" oc
Product	AFB
Thickness	1.5"
Penetrations	Electrical Boxes Included

Insulation Included:
ROCKWOOL AFB

Interior Steel Stud Assemblies



STC
45

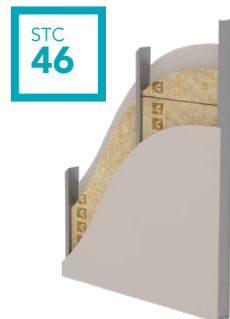
Acoustics Assembly Number: ISS-10

STC: 45 Report No. RAL-TL90-192

Assembly Components

Finish material	1/2" Gypsum
Size	2 1/2" Steel Stud
Spacing	24" oc
Product	AFB
Thickness	1.5"

Insulation Included:
ROCKWOOL AFB



STC
46

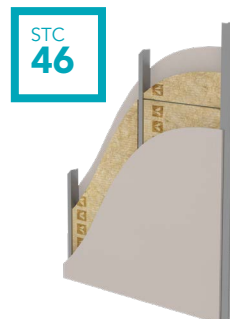
Acoustics Assembly Number: ISS-11

STC: 46 Report No. RAL-TL90-195

Assembly Components

Finish material	1/2" gypsum
Size	3 5/8" Steel Stud
Spacing	24" oc
Product	AFB
Thickness	1.5"

Insulation Included:
ROCKWOOL AFB



STC
46

Acoustics Assembly Number: ISS-12

STC: 46 Report No. RAL-TL02-212

Assembly Components

Finish material	5/8" gypsum
Size	2 1/2" Steel Stud
Spacing	24" oc
Product	AFB
Thickness	1.5"

Insulation Included:
ROCKWOOL AFB

Interior Steel Stud Assemblies

STC
46



Acoustics Assembly Number: ISS-13

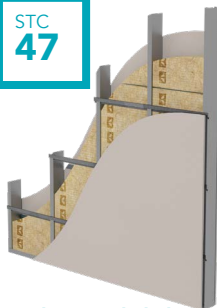
STC: 46 Report No. RAL-TL96-270

Assembly Components

Finish material	5/8" gypsum
Size	2 1/2" Steel Stud
Spacing	24" oc
Product	AFB
Thickness	2.5"

Insulation Included:
ROCKWOOL AFB

STC
47



Acoustics Assembly Number: ISS-14

STC: 47 OITC: 29 Report No. J2247-12-303-11-R0

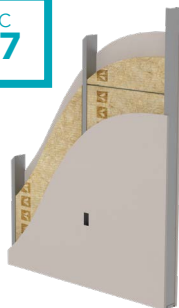
Assembly Components

Finish material	1/2" gypsum
Size	3 5/8" Steel Stud
Spacing	16" oc
Product	AFB
Thickness	3"

Insulation Included:
ROCKWOOL AFB

Resilient Channels RC Deluxe, 16" OC

STC
47



Acoustics Assembly Number: ISS-15

STC: 47 Report No. RAL-TL03-306

Assembly Components

Finish material	5/8" gypsum
Size	3 5/8" Steel Stud
Spacing	24" oc
Product	AFB
Thickness	3"

Insulation Included:
ROCKWOOL AFB

Penetrations Electrical Boxes Included

Interior Steel Stud Assemblies

STC
47



Acoustics Assembly Number: ISS-16

STC: 47 OITC: 29 Report No. J2247-05-303-11-R0

Assembly Components

Finish material	1/2" Gypsum
Size	6" Steel Stud
Spacing	16" oc
Product	AFB
Thickness	6"

Insulation Included:
ROCKWOOL AFB

STC
49



Acoustics Assembly Number: ISS-17

STC: 49 OITC: 30 Report No. NWTL140827-04

Assembly Components

Finish material	5/8" gypsum
Size	3 5/8" Steel Stud
Spacing	24" oc
Product	AFB
Thickness	3.5"

Insulation Included:
ROCKWOOL AFB

STC
49



Acoustics Assembly Number: ISS-18

STC: 49 OITC: 32 Report No. NWTL140828-02

Assembly Components

Finish material	5/8" gypsum
Size	3 5/8" Steel Stud
Spacing	24" oc
Product	Comfortboard 80 (outboard, single side)
Thickness	3"

Insulation Included:
ROCKWOOL Comfortboard 80
(outboard, single side)

Interior Steel Stud Assemblies

STC
50



Acoustics Assembly Number: ISS-19

STC: 50 OITC: 30 Report No. F0256.01B

Assembly Components

Finish material	5/8" gypsum
Size	3 5/8" Steel Stud
Spacing	24" oc
Product	AFB
Thickness	3.5"

Insulation Included:
ROCKWOOL AFB

STC
50



Acoustics Assembly Number: ISS-20

STC: 50 OITC: 31 Report No. NWTL141118-04

Assembly Components

Finish material	5/8" gypsum
Size	3 5/8" Steel Stud
Spacing	24" oc
Product	Minimum 4 pcf mineral wool board insulation (outboard, single side)
Thickness	3"

Insulation Included:
ROCKWOOL 4 pcf mineral wool board insulation

STC
50



Acoustics Assembly Number: ISS-21

STC: 50 OITC: 34 Report No. J2247-04-303-11-R0

Assembly Components

Finish material	5/8" gypsum
Size	6" Steel Stud
Spacing	16" oc
Product	AFB
Thickness	3"

Insulation Included:
ROCKWOOL AFB

Interior Steel Stud Assemblies

STC
50



Acoustics Assembly Number: ISS-22

STC: 50 Report No. RAL-TL90-186

Assembly Components

Finish material	1/2" gypsum, 2x 1/2" gypsum on single side
Size	2 1/2" Steel Stud
Spacing	24" oc
Product	AFB
Thickness	1.5"

Insulation Included:
ROCKWOOL AFB

STC
51



Acoustics Assembly Number: ISS-23

STC: 51 Report No. RAL-TL96-269

Assembly Components

Finish material	1/2" gypsum
Size	3 5/8" Steel Stud
Spacing	24" oc
Product	AFB
Thickness	3"

Insulation Included:
ROCKWOOL AFB

STC
51



Acoustics Assembly Number: ISS-24

STC: 51 OITC: 31 Report No. NWTL141119-01

Assembly Components

Finish material	5/8" gypsum
Size	3 5/8" Steel Stud
Spacing	24" oc
Product	AFB
Thickness	3"

Insulation Included:
ROCKWOOL AFB

Interior Steel Stud Assemblies



STC
52

Acoustics Assembly Number: ISS-25

STC: 52 OITC: 35 Report No. J2247-03-303-11-R0

Assembly Components

Finish material	5/8" gypsum
Size	6" Steel Stud
Spacing	16" oc
Product	AFB
Thickness	6"

Insulation Included:
ROCKWOOL AFB



STC
53

Acoustics Assembly Number: ISS-26

STC: 53 Report No. RAL-TL96-288

Assembly Components

Finish material	1/2" gypsum
Size	3 5/8" Steel Stud
Spacing	24" oc
Product	AFB
Thickness	3"

Insulation Included:
ROCKWOOL AFB

Resilient Channels
Metal, 24" OC



STC
53

Acoustics Assembly Number: ISS-27

STC: 53 OITC: 34 Report No. J2247.10-303-11-R0

Assembly Components

Finish material	5/8" gypsum
Size	3 5/8" Steel Stud
Spacing	16" oc
Product	AFB
Thickness	3"

Insulation Included:
ROCKWOOL AFB

Resilient Channels
RC Deluxe, 16" OC

Interior Steel Stud Assemblies



STC
53

Acoustics Assembly Number: ISS-28

STC: 53 Report No. RAL-TL90-185

Assembly Components

Finish material	2x 1/2" gypsum
Size	2 1/2" Steel Stud
Spacing	24" oc
Product	AFB
Thickness	1.5"

Insulation Included:
ROCKWOOL AFB



STC
54

Acoustics Assembly Number: ISS-29

STC: 54 OITC: 37 Report No. J2247.08-303-11-R0

Assembly Components

Finish material	5/8" gypsum
Size	6" Steel Stud
Spacing	24" oc
Product	AFB
Thickness	3"

Insulation Included:
ROCKWOOL AFB

Resilient Channels
RC Deluxe, 16" OC



STC
54

Acoustics Assembly Number: ISS-30

STC: 54 OITC: 35 Report No. J2247.02-303-11-R0

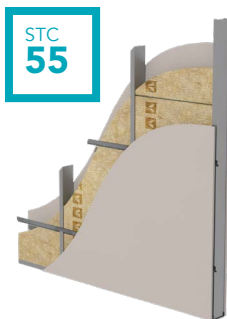
Assembly Components

Finish material	5/8" gypsum
Size	6" Steel Stud
Spacing	16" oc
Product	AFB
Thickness	3"

Insulation Included:
ROCKWOOL AFB

Resilient Channels
RC Deluxe, 16" OC

Interior Steel Stud Assemblies



STC
55

Acoustics Assembly Number: ISS-31

STC: 55 Report No. RAL-TL96-289

Assembly Components

Finish material	5/8" gypsum
Size	3 5/8" Steel Stud
Spacing	24" oc
Product	AFB
Thickness	3"
Resilient Channels	Metal, 24" OC

Insulation Included:
ROCKWOOL AFB



STC
55

Acoustics Assembly Number: ISS-32

STC: 55 OITC: 35 Report No. NWTL140827-03

Assembly Components

Finish material	5/8" gypsum, 2x 5/8" gypsum on single side
Size	3 5/8" Steel Stud
Spacing	24" oc
Product	AFB
Thickness	3.5"

Insulation Included:
ROCKWOOL AFB



STC
55

Acoustics Assembly Number: ISS-33

STC: 55 Report No. RAL-TL02-296

Assembly Components

Finish material	5/8" gypsum
Size	6" Steel Stud
Spacing	24" oc
Product	AFB
Thickness	6"

Insulation Included:
ROCKWOOL AFB

Interior Steel Stud Assemblies



STC
56

Acoustics Assembly Number: ISS-34

STC: 56 Report No. RAL-TL96-264

Assembly Components

Finish material	5/8" gypsum, 2x 5/8" gypsum on single side
Size	3 5/8" Steel Stud
Spacing	24" oc
Product	AFB
Thickness	3.5"

Insulation Included:
ROCKWOOL AFB



STC
56

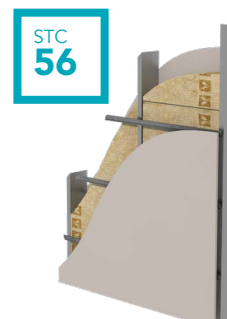
Acoustics Assembly Number: ISS-35

STC: 56 Report No. RAL-TL90-196

Assembly Components

Finish material	2x 1/2" gypsum
Size	3 5/8" Steel Stud
Spacing	24" oc
Product	AFB
Thickness	1.5"

Insulation Included:
ROCKWOOL AFB



STC
56

Acoustics Assembly Number: ISS-36

STC: 56 OITC: 39 Report No. J2247.07-303-11-R0

Assembly Components

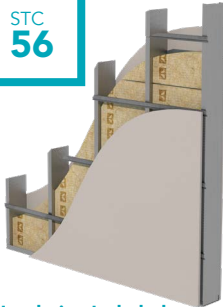
Finish material	5/8" gypsum
Size	6" Steel Stud
Spacing	24" oc
Product	AFB
Thickness	6"

Insulation Included:
ROCKWOOL AFB

Resilient Channels
RC Deluxe, 16" OC

Interior Steel Stud Assemblies


STC 56



Acoustics		Assembly Number: ISS-37	
STC:	56	OITC:	39
Report No.	J2247.01-303-11-R0		
Assembly Components			
Finish material	5/8" gypsum		
Size	6" Steel Stud		
Spacing	16" oc		
Product	AFB		
Thickness	6"		
Resilient Channels	RC Deluxe, 16" OC		

Insulation Included:
ROCKWOOL AFB


STC 56



Acoustics		Assembly Number: ISS-38	
STC:	56	Report No.	RAL-TL90-193
Assembly Components			
Finish material	2x 5/8" gypsum		
Size	2 1/2" Steel Stud		
Spacing	24" oc		
Product	AFB		
Thickness	1.5"		

Insulation Included:
ROCKWOOL AFB

STC 56




Acoustics		Assembly Number: ISS-40	
STC:	56	OITC:	36
Report No.	RAL-TL23-194		
Assembly Components			
Finish material	5/8" gypsum, 2 x 5/8" gypsum on single side		
Size	6" Steel Stud		
Spacing	24" oc		
Product	AFB		
Thickness	3"		

Insulation Included:
ROCKWOOL AFB

Interior Steel Stud Assemblies


STC 57



Acoustics		Assembly Number: ISS-39	
STC:	57	Report No.	RAL-TL96-268
Assembly Components			
Finish material	2x 5/8" gypsum		
Size	3 5/8" Steel Stud		
Spacing	24" oc		
Product	AFB		
Thickness	3"		

Insulation Included:
ROCKWOOL AFB

STC 57



Acoustics		Assembly Number: ISS-41	
STC:	57	OITC:	38
Report No.	RAL-TL23-195		
Assembly Components			
Finish material	5/8" gypsum, 2x 5/8" gypsum on single side		
Size	6" Steel Stud		
Spacing	24" oc		
Product	AFB		
Thickness	6"		

Insulation Included:
ROCKWOOL AFB

Interior Wood Stud Assemblies

This section will outline interior assemblies using wood studs in various thicknesses, spacings, finishes, and any additional components. Assemblies will be organized by STC value ranging from an STC of 36 to an STC of 66.



STC
36

Insulation Included:
ROCKWOOL
Safe'n'Sound/AFB

Acoustics Assembly Number: IWS-15

STC: 36 OITC: 27 Report No. TL21-355

Assembly Components

Finish material 5/8" type X gypsum

Size 2x6 Wood Stud

Spacing 16" oc

Product Safe'n'Sound/AFB

Thickness 3"

Wall Configuration Single Stud



STC
37

Insulation Included:
ROCKWOOL Comfortbatt

Acoustics Assembly Number: IWS-01

STC: 37 Report No. NGC 2011011

Assembly Components

Finish material 5/8" type X gypsum

Size 2 x 4 Wood Stud

Spacing 16" oc

Product Comfortbatt

Thickness 3.5"

Wall Configuration Single Stud



STC
38

Insulation Included:
ROCKWOOL
Safe'n'Sound/AFB

Acoustics Assembly Number: IWS-16

STC: 38 OITC: 28 Report No. TL21-356

Assembly Components

Finish material 5/8" Type X gypsum

Size 2 x 6 Wood Stud

Spacing 16" oc

Product Safe'n'Sound/AFB

Thickness 5.5"

Wall Configuration Single Stud

Interior Wood Stud Assemblies



STC
38

Insulation Included:
ROCKWOOL AFB

Acoustics Assembly Number: IWS-02

STC: 38 Report No. RAL-TL96-265

Assembly Components

Finish material 5/8" gypsum

Size 2 x 4 Wood Stud

Spacing 16" oc

Product AFB

Thickness 3"

Wall Configuration Single Stud



STC
38

Insulation Included:
ROCKWOOL AFB

Acoustics Assembly Number: IWS-03

STC: 38 Report No. RAL-TL96-266

Assembly Components

Finish material 1/2" gypsum

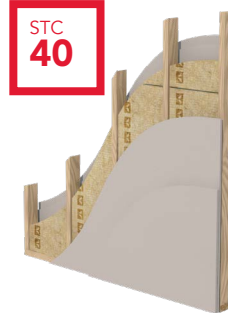
Size 2 x 4 Wood Stud

Spacing 16" oc

Product AFB

Thickness 3"

Wall Configuration Single Stud



STC
40

Insulation Included:
ROCKWOOL AFB

Acoustics Assembly Number: IWS-04

STC: 40 OITC: 32 Report No.

Assembly Components

Finish material 2 x 5/8" gypsum

Size 2 x 4 Wood Stud

Spacing 16" oc

Product AFB

Thickness 3"

Wall Configuration Single Stud

Interior Wood Stud Assemblies



Insulation Included:
ROCKWOOL Comfortbatt



Insulation Included:
ROCKWOOL AFB



Insulation Included:
ROCKWOOL AFB

Acoustics		Assembly Number: IWS-05	
STC:	40	Report No.	NGC 2011013
Assembly Components			
Finish material	1/2" gypsum		
Size	2 x 4 Wood Stud		
Spacing	16" oc		
Product	Comfortbatt		
Thickness	3.5"		
Wall Configuration	Single Stud		

Acoustics		Assembly Number: IWS-06	
STC:	45	Report No.	RAL-TL02-300
Assembly Components			
Finish material	5/8" gypsum		
Size	2 x 6 Wood Stud		
Spacing	24" oc		
Product	AFB		
Thickness	5.5"		
Wall Configuration	Single Stud		

Acoustics		Assembly Number: IWS-07	
STC:	47	OITC:	33
Report No.	K2356.06-303-11-R0		
Assembly Components			
Finish material	5/8" gypsum		
Size	2 x 4 Wood Stud		
Spacing	16" oc		
Product	AFB		
Thickness	3"		
Resilient Channels	RC Deluxe, 16" oc, Single Stud		

Interior Wood Stud Assemblies



Insulation Included:
ROCKWOOL
Safe'n'Sound/AFB



Insulation Included:
ROCKWOOL
Safe'n'Sound/AFB



Insulation Included:
ROCKWOOL Comfortbatt

Acoustics		Assembly Number: IWS-17	
STC:	48	OITC:	31
Report No.	TL21-358		
Assembly Components			
Finish material	2x 5/8" Type X gypsum		
Size	2 x 6 Wood Stud		
Spacing	24" oc		
Product	Safe'n'Sound/AFB		
Thickness	3"		
Wall Configuration	Single Stud		

Acoustics		Assembly Number: IWS-18	
STC:	48	OITC:	32
Report No.	TL21-359		
Assembly Components			
Finish material	2x 5/8" Type X gypsum		
Size	2 x 6 Wood Stud		
Spacing	24" oc		
Product	Safe'n'Sound/AFB		
Thickness	5.5"		
Wall Configuration	Single Stud		

Acoustics		Assembly Number: IWS-08	
STC:	49	Report No.	NGC 2011015
Assembly Components			
Finish material	1/2" gypsum		
Size	2 x 4 Wood Stud		
Spacing	24" oc		
Product	Comfortbatt		
Thickness	2.5" per row		
Wall Configuration	Staggered Studs		

Interior Wood Stud Assemblies

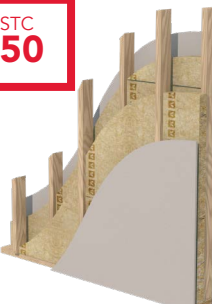
STC
50



Acoustics		Assembly Number: IWS-19	
STC:	50	OITC:	35
Report No.	TL21-351		
Assembly Components			
Finish material	5/8" Type X gypsum		
Size	2 x 4 Wood Stud		
Spacing	16" oc		
Product	Safe'n'Sound/AFB		
Thickness	3" per row, notched at opposing stud		
Wall Configuration	Staggered Studs		

Insulation Included:
ROCKWOOL
Safe'n'Sound/AFB


STC
50



Acoustics		Assembly Number: IWS-09	
STC:	50	Report No.	NGC 2011014
Assembly Components			
Finish material	5/8" type X gypsum		
Size	2 x 4 Wood Stud		
Spacing	24" oc		
Product	Comfortbatt		
Thickness	2.5" per row		
Wall Configuration	Staggered Studs		

Insulation Included:
ROCKWOOL Comfortbatt

STC
51




Acoustics		Assembly Number: IWS-10	
STC:	51	Report No.	NGC 2011016
Assembly Components			
Finish material	5/8" type X gypsum		
Size	2 x 4 Wood Stud		
Spacing	24" oc		
Product	AFB		
Thickness	2" per row		
Wall Configuration	Staggered Studs		

Insulation Included:
ROCKWOOL AFB

Interior Wood Stud Assemblies


STC
52



Acoustics		Assembly Number: IWS-11	
STC:	52	Report No.	NGC 2010072
Assembly Components			
Finish material	1/2" gypsum		
Size	2 x 4 Wood Stud		
Spacing	16" oc		
Product	Comfortbatt		
Thickness	3.5" per row		
Wall Configuration	Double Stud with 1" Air Gap		

Insulation Included:
ROCKWOOL Comfortbatt


STC
53



Acoustics		Assembly Number: IWS-20	
STC:	53	OITC:	37
Report No.	TL21-357		
Assembly Components			
Finish material	5/8" Type X gypsum		
Size	2 x 6 Wood Stud		
Spacing	16" oc		
Product	Safe'n'Sound/AFB		
Thickness	5.5"		
Wall Configuration	Single Stud		
Resilient Channels	24" oc		

Insulation Included:
ROCKWOOL
Safe'n'Sound/AFB

STC
54



Acoustics		Assembly Number: IWS-21	
STC:	54	OITC:	48
Report No.	TL21-353		
Assembly Components			
Finish material	2x 5/8" Type X gypsum		
Size	2 x 4 Wood Stud		
Spacing	24" oc		
Product	Safe'n'Sound/AFB		
Thickness	3" per row, notched at opposing stud		
Wall Configuration	Staggered Studs		

Insulation Included:
ROCKWOOL
Safe'n'Sound/AFB

Interior Wood Stud Assemblies



STC
56

Insulation Included:
ROCKWOOL Safe'n'Sound

Acoustics Assembly Number: IWS-12

STC: 56 Report No. NGC 2010071

Assembly Components

Finish material 5/8" type X gypsum

Size 2 x 4 Wood Stud

Spacing 16" oc

Product Safe'n'Sound

Thickness 3" per row

Wall Configuration Double Stud with 1" Air Gap



STC
57

Insulation Included:
ROCKWOOL
Safe'n'Sound/AFB

Acoustics Assembly Number: IWS-22

STC: 57 OITC: 38 Report No. TL21-352

Assembly Components

Finish material 5/8" Type X gypsum

Size 2 x 4 Wood Stud

Spacing 16" oc

Product Safe'n'Sound/AFB

Thickness 3" per row, notched at opposing stud

Wall Configuration Staggered Studs

Resilient Channels 24" oc



STC
58

Insulation Included:
ROCKWOOL Comfortbatt
ROXUL Safe 45

Acoustics Assembly Number: IWS-13

STC: 58 OITC: 33 Report No. NGC 2010070

Assembly Components

Finish material 5/8" type X gypsum

Size 2 x 4 Wood Stud

Spacing 16" oc

Product Comfortbatt

Thickness 3.5" per row

Wall Configuration Double Stud with 1" ROXUL Safe 45

Interior Wood Stud Assemblies



STC
60

Insulation Included:
ROCKWOOL Comfortbatt

Acoustics Assembly Number: IWS-14

STC: 60 Report No. NGC 2010069

Assembly Components

Finish material 5/8" type X gypsum

Size 2 x 4 Wood Stud

Spacing 16" oc

Product Comfortbatt

Thickness 3.5" per row

Wall Configuration Double Stud with 1" Air Gap



STC
61

Insulation Included:
ROCKWOOL
Safe'n'Sound/AFB

Acoustics Assembly Number: IWS-23

STC: 61 OITC: 46 Report No. TL21-360

Assembly Components

Finish material 2x 5/8" Type X gypsum

Size 2 x 6 Wood Stud

Spacing 24" oc

Product Safe'n'Sound/AFB

Thickness 5.5"

Wall Configuration Single Stud

Resilient Channels 24" oc



STC
66

Insulation Included:
ROCKWOOL
Safe'n'Sound/AFB

Acoustics Assembly Number: IWS-24

STC: 66 OITC: 50 Report No. TL21-349

Assembly Components

Finish material 2x 5/8" Type X gypsum

Size 2 x 4 Wood Stud

Spacing 16" oc

Product Safe'n'Sound/AFB

Thickness 3" per row

Wall Configuration Double Stud with 1" Air Gap

Interior Wood Stud Assemblies



STC
66

Acoustics Assembly Number: IWS-25

STC: 66 OITC: 52 Report No. TL21-350

Assembly Components

Finish material	2x 5/8" Type X gypsum
Size	2 x 4 Wood Stud
Spacing	24" oc
Product	Safe'n'Sound/AFB
Thickness	3" per row
Wall Configuration	Double Stud with 1" Air Gap

Insulation Included:
ROCKWOOL
Safe'n'Sound/AFB



STC
66

Acoustics Assembly Number: IWS-26

STC: 66 OITC: 51 Report No. TL21-354

Assembly Components

Finish material	2x 5/8" Type X gypsum
Size	2 x 4 Wood Stud
Spacing	24" oc
Product	Safe'n'Sound/AFB
Thickness	3" per row, notched at opposing stud
Wall Configuration	Staggered Studs, on 2x6 plates
Resilient Channels	16" oc

Insulation Included:
ROCKWOOL
Safe'n'Sound/AFB

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Exterior Wood Stud Assemblies

This section will outline exterior assemblies using wood studs in various thicknesses, spacings, finishes, and any additional components. Assemblies will be organized by STC value ranging from an STC of 35 to an STC of 39.



STC
35

Acoustics Assembly Number: EWS-01

STC: 35 OITC: 27 Report No. H5383.01-113-11-R0

Assembly Components

Finish material	5/8" gypsum
Size	2 x 6 Wood Stud
Spacing	16" oc
Product	Comfortbatt
Thickness	6"
Sheathing	1/2 plywood with Air Barrier
Continuous Insulation	.
Insulation Thickness	.
Insulation Fastening	.

Insulation Included:
ROCKWOOL Comfortbatt



STC
39

Acoustics Assembly Number: EWS-02

STC: 39 OITC: 29 Report No. H5383.02-113-11-R0

Assembly Components

Finish material	5/8" gypsum
Size	2 x 6 Wood Stud
Spacing	16" oc
Product	Comfortbatt
Thickness	6"
Sheathing	1/2 plywood with Air Barrier
Continuous Insulation	Comfortboard 80
Insulation Thickness	1.5
Insulation Fastening	Furring Strips

Insulation Included:
ROCKWOOL Comfortbatt
ROCKWOOL Comfortboard 80

Exterior Steel Stud Assemblies

This section will outline exterior assemblies using steel studs in various thicknesses, spacings, finishes, and any additional components. Assemblies will be organized by STC value ranging from an STC of 43 to an STC of 52.



STC
43

Insulation Included:
ROCKWOOL
Comfortboard 110

Acoustics		Assembly Number: ESS-01	
STC:	43	OITC:	30
Report No.	H5383.06-113-11-R0		
Assembly Components			
Finish material	5/8" gypsum		
Size	3 5/8" Steel Stud		
Spacing	16" oc		
Batt Product	.		
Thickness	.		
Sheathing	1/2" gypsum with Air Barrier		
Continuous Insulation	Comfortboard 110		
Insulation Thickness	1"		
Insulation Fastening	Furring Strips		
Cladding	None		



STC
44

Insulation Included:
ROCKWOOL Cavityrock

Acoustics		Assembly Number: ESS-02	
STC:	44	OITC:	29
Report No.	96973.01-113-11		
Assembly Components			
Finish material	1/2" gypsum		
Size	6" Steel Stud		
Spacing	16" oc		
Batt Product	.		
Thickness	.		
Sheathing	5/8" gypsum with Air Barrier		
Continuous Insulation	Cavityrock		
Insulation Thickness	3"		
Insulation Fastening	Z-girts		
Cladding	5/16" Cement Board		

Exterior Steel Stud Assemblies



STC
47

Insulation Included:
ROCKWOOL Comfortbatt
Polyiso Insulation

Acoustics		Assembly Number: ESS-03	
STC:	47	OITC:	30
Report No.	96641.01-113-11		
Assembly Components			
Finish material	1/2" gypsum		
Size	6" Steel Stud		
Spacing	16" oc		
Batt Product	Comfortbatt		
Thickness	6"		
Sheathing	5/8" gypsum with Air Barrier		
Continuous Insulation	Polyiso		
Insulation Thickness	3"		
Insulation Fastening	Z-girts		
Cladding	5/16" Cement Board		



STC
48

Insulation Included:
ROCKWOOL Comfortbatt

Acoustics		Assembly Number: ESS-04	
STC:	48	OITC:	30
Report No.	96642.01-113-11		
Assembly Components			
Finish material	1/2" gypsum		
Size	6" Steel Stud		
Spacing	16" oc		
Batt Product	Comfortbatt		
Thickness	6"		
Sheathing	5/8" gypsum with Air Barrier		
Continuous Insulation	Air Gap		
Insulation Thickness	.		
Insulation Fastening	Z-girts		
Cladding	5/16" Cement Board		

Exterior Steel Stud Assemblies



STC
49

Acoustics		Assembly Number: ESS-05	
STC:	49	OITC:	32
Report No.	H5383.03-113-11-R0		
Assembly Components			
Finish material	5/8" gypsum		
Size	3 5/8" Steel Stud		
Spacing	16" oc		
Batt Product	Comfortbatt		
Thickness	3.5"		
Sheathing	5/8" gypsum with Air Barrier		
Continuous Insulation	Cavityrock		
Insulation Thickness	2"		
Insulation Fastening	Z-girts		
Cladding	None		

Insulation Included:
ROCKWOOL Comfortbatt
ROCKWOOL Cavityrock



STC
49

Acoustics		Assembly Number: ESS-06	
STC:	49	OITC:	32
Report No.	97175.01-113-11		
Assembly Components			
Finish material	5/8" gypsum		
Size	6" Steel Stud		
Spacing	16" oc		
Batt Product	Comfortbatt		
Thickness	6"		
Sheathing	5/8" gypsum with Air Barrier		
Continuous Insulation	Cavityrock		
Insulation Thickness	3"		
Insulation Fastening	Z-girts		
Cladding	5/16" Cement Board		

Insulation Included:
ROCKWOOL Comfortbatt
ROCKWOOL Cavityrock

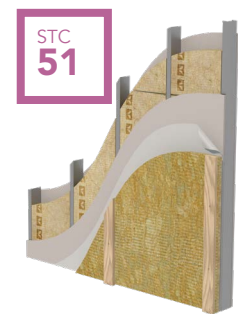
Exterior Steel Stud Assemblies



STC
50

Acoustics		Assembly Number: ESS-07	
STC:	50	OITC:	31
Report No.	96644.01-113-11		
Assembly Components			
Finish material	1/2" gypsum		
Size	6" Steel Stud		
Spacing	16" oc		
Batt Product	Comfortbatt		
Thickness	6"		
Sheathing	5/8" gypsum with Air Barrier		
Continuous Insulation	Cavityrock		
Insulation Thickness	3"		
Insulation Fastening	Z-girts		
Cladding	5/16" Cement Board		

Insulation Included:
ROCKWOOL Comfortbatt
ROCKWOOL Cavityrock



STC
51

Acoustics		Assembly Number: ESS-08	
STC:	51	OITC:	32
Report No.	H5383.05-113-11-R0		
Assembly Components			
Finish material	5/8" gypsum		
Size	3 5/8" Steel Stud		
Spacing	16" oc		
Batt Product	Comfortbatt		
Thickness	3.5"		
Sheathing	1/2" gypsum with Air Barrier		
Continuous Insulation	Comfortboard 110		
Insulation Thickness	1"		
Insulation Fastening	Furring Strips		
Cladding	None		

Insulation Included:
ROCKWOOL Comfortbatt
ROCKWOOL Comfortboard 110

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