

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

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



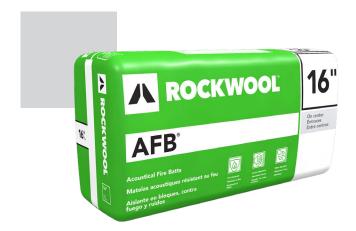
AFB[®]

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

ROCKWOOL ROCKWOOL ZX6 Thermal Home Insulation For entrief and enterior and enter

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 openjoint 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



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.



Insulation Included:
ROCKWOOL AFB

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



Insulation Included: ROCKWOOL AFB

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



Insulation Included: ROCKWOOL AFB

Acoustics Assembly Number: ISS-03							
DITC:	28	Report No.	J2247-14-303-11-R0				
Assembly Components							
5/8" Gypsum							
2 1/2" Steel Stud							
16" oc							
AFB							
1.5"	1.5"						
	5/8" 2 1/2 16" (AFB	5/8" Gyps 2 1/2" Ste 16" oc AFB	DITC: 28 Report No. ponents 5/8" Gypsum 2 1/2" Steel Stud 16" oc AFB				



Insulation	Included:
ROCKWO	OL AFB

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



Insulation Included: ROCKWOOL AFB

Acoust	ics		Assembly Number: ISS-05				
STC:	44	Report No.	RAL-TL90-197				
Assemb	Assembly Components						
Finish r	nateri	al 1/2" Gyp	1/2" Gypsum				
Size		2 1/2" St	2 1/2" Steel Stud				
Spacing	Spacing		24" oc				
Produc	Product		AFB				
Thickne	ess	1"					



Insulation Included: ROCKWOOL AFB

Acoustic	cs		Assembly Number: ISS-06			
STC:	44	Report No.	RAL-TL96-285			
Assemb	ly Co	mponents				
Finish m	ateria	al 1/2" gyp:	1/2" gypsum			
Size		2 1/2" St	2 1/2" Steel Stud			
Spacing		24" oc	24" oc			
Product		AFB	AFB			
Thickness		2.5"	2.5"			



Acoust	ics			Ass	sembly Number: ISS-07		
STC:	45	OITC:	29	Report No.	J2247-11-303-11-R0		
Assembly Components							
Finish r	al 5/8"	5/8" gypsum					
Size	3 5/8	3 5/8" Steel Stud					
Spacing		16"	16" oc				
Product		AFB	AFB				
Thickness		3"	3"				



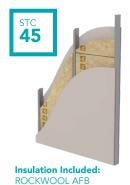
ROCKWOOL AFB

Acoustics				Ass	sembly Number: ISS-08		
STC: 45	5 0	ITC:	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					



ROCKWOOL AFB

Acoustics		Assembly Number: ISS-09				
STC: 45 R	eport 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					



Acousti	CS		Assembly Number. 133-10			
STC:	45	Report No.	RAL-TL90-192			
Assembly Components						
Finish n	nateri	al 1/2" Gyp	1/2" Gypsum			
Size	Size		2 1/2" Steel Stud			
Spacing		24" oc	24" oc			
Product		AFB	AFB			
Thickness		1.5"	1.5"			



	Assembly Number: ISS-11				
Report No.	RAL-TL90-195				
Assembly Components					
1/2" gypsum					
3 5/8" Steel Stud					
24" oc					
AFB					
1.5"					
	1/2" gyp: 3 5/8" St 24" oc AFB				

STC 46	a
13	g g
Insulation ROCKWC	Included:

	Assembly Number: ISS-12					
eport No.	RAL-TL02-212					
Assembly Components						
5/8" gypsum						
2 1/2" Steel Stud						
24" oc						
AFB						
1.5"						
	5/8" gyp. 2 1/2" St 24" oc AFB					



Acoust	ics		Assembly Number: ISS-13		
STC:	46	Report No.	RAL-TL96-270		
Assem	bly Co	mponents			
Finish material		al 5/8" gyp	5/8" gypsum		
Size		2 1/2" S	2 1/2" Steel Stud		
Spacing		24" oc	24" oc		
Product		AFB			
Thickness		2.5"	2.5"		



nsulation Included:	
ROCKWOOL AFB	

Acoustics		Ass	embly Number: ISS-14			
STC: 47 C	ITC: 29	Report No.	J2247-12-303-11-R0			
Assembly Comp	onents					
Finish material	1/2" gyps	1/2" gypsum				
Size	3 5/8" Steel Stud					
Spacing	16" oc					
Product	AFB					
Thickness	3"					
Resilient Channels	RC Deluxe, 16" OC					



ROCKWOOL AFB

Acoustics		Assembly Number: ISS-15	
STC: 47 Re	eport No.	RAL-TL03-306	
Assembly Comp	onents		
Finish material	5/8" gyp:	sum	
Size	3 5/8" Steel Stud		
Spacing	24" oc		
Product	AFB		
Thickness	3"		
Penetrations	Electrical Boxes Included		



Acoustic	cs			Assembly Number: ISS-16				
STC:	47	OITC:	29	Report No.	J2247-05-303-11-R0			
Assembly Components								
Finish m	al 1/2"	1/2" Gypsum						
Size		6" St	6" Steel Stud					
Spacing		16" (16" oc					
Product		AFB	AFB					
Thickness		6"	6"					



Acoust	ics				Asse	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"					

STC 49	

Acoust	ics				Assembly Number: ISS-18			
STC:	49	0	ITC	32	Report No.	NWTL140828-02		
Assembly Components								
Finish r	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)



Acoust	ics			Ass	sembly Number: ISS-19		
STC:	50	OITC:	30	Report No.	F0256.01B		
Assemb	Assembly Components						
Finish r	nateri	al 5/8"	5/8" gypsum				
Size		3 5/8	3" Ste	el Stud			
Spacing 24" oc							
Product AFB			AFB				
Thickness 3.5"							



Insulation Included:
ROCKWOOL 4 pcf mineral
wool board insulation

Acoustics				Ass	sembly Number: ISS-20		
STC:	50	OITC:	31	Report No.	NWTL141118-04		
Assembly Components							
Finish material		al 5/8"	5/8" gypsum				
Size 3 5/8" Steel Stud							
Spacing 24			24" oc				
Product		Minimum 4 pcf mineral wool board insulation (outboard, single side)					
Thickness 3"							



ROCKWOOL AFB

Acoust	ics			Asse	embly Number: ISS-21			
STC:	50	OITC	34	Report No.	J2247-04-303-11-R0			
Assemb	oly Co	mponen	ts					
Finish n	Finish material		5/8" gypsum					
Size	Size		6" Steel Stud					
Spacing	Spacing		16" oc					
Produc	Product		AFB					
Thickne	ess	3"						



Insulation	Included:
ROCKWO	OL AFB

	Assembly Number: ISS-22				
Report No.	RAL-TL90-186				
Assembly Components					
1/2" gyps	1/2" gypsum, 2x 1/2" gypsum on single side				
2 1/2" Steel Stud					
Spacing 24" oc					
AFB					
1.5"					
	1/2" gyps 2 1/2" Sta 24" oc AFB				



	Assembly Number: ISS-23				
eport No.	RAL-TL96-269				
Assembly Components					
1/2" gyps	1/2" gypsum				
3 5/8" Ste	eel Stud				
24″ ос					
AFB					
3"					
	1/2" gyp 3 5/8" St 24" oc AFB				



Insulation Included: ROCKWOOL AFB

Acoust	ics			Asser	nbly Number: ISS-24		
STC:	51	OITC	31	Report No.	NWTL141119-01		
Asseml							
Finish material		al 5/8"	5/8" gypsum				
Size		3 5/8	3 5/8" Steel Stud				
Spacing		24"	24" oc				
Product		AFB	AFB				
Thickne	ess	3"	3"				



Acoustics Assembly Number: ISS-2							
STC:	52	OITC:	35	Report No.	J2247-03-303-11-R0		
Assembly Components							
Finish r	al 5/8"	5/8" gypsum					
Size		6" S	teel S	tud			
Spacing	16"	16" oc					
Product AFB							
Thickne	ess	6"					



Acousti	CS		Assembly Number: ISS-26			
STC:	53	Report No.	RAL-TL96-288			
Assemb	oly Co	mponents				
Finish m	nateria	al 1/2" gyp:	sum			
Size		3 5/8" St	3 5/8" Steel Stud			
Spacing	3	24" oc	24" oc			
Product		AFB	AFB			
Thickness		3"	3"			
Resilient Channels		Metal, 24	" OC			



Acoust	ics			Ass	embly Number: ISS-27				
STC:	53	OITC	34	Report No.	J2247.10-303-11-R0				
Assem	bly Co	mpone	ents						
Finish r	Finish material		5/8" gypsum						
Size	Size		3 5/8" Steel Stud						
Spacing	Spacing		16" oc						
Product		AF	AFB						
Thickness		3"	3"						
Resilier Channe		RC	Deluxe	, 16" OC					



	-
Insulation	Included:
madiation	meiaca.
ROCKWO	OL AFB

Acoust	ics				Assembly Number: ISS-28
STC:	53	Re	eport 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"			1.5"		



Acoust	ics				Asse	mbly Number: ISS-29		
STC:	54	0	ITC	37	Report No.	J2247.08-303-11-R0		
Assem	Assembly Components							
Finish r	Finish material		5/8" gypsum					
Size	Size		6" Steel Stud					
Spacin	g		24" oc					
Produc	t		AFB					
Thickness		3"						
	Resilient RC Channels		RC D	eluxe,	16" OC			



Acoust	ics				Asse	mbly Number: ISS-30	
STC:	54	OITC		35	Report No.	J2247.02-303-11-R0	
Assembly Components							
Finish r	Finish material		5/8" gypsum				
Size		6" 9		6" Steel Stud			
Spacing	9	16"		16" oc			
Produc	t		AFB				
Thickne	Thickness 3"		3"				
Resilier Channe			RC E	Deluxe,	16" OC		



Acoust	ics		Assembly Number: ISS-31			
STC:	55	Report No.	RAL-TL96-289			
Assembly Components						
Finish r	nateri	al 5/8" gyp	5/8" gypsum			
Size 3 5/8			5/8" Steel Stud			
Spacing 24" od						
Product AFB						
Thickness 3"						
Resilient Metal, 24'			4" OC			



Acoust	ics				Ass	sembly Number: ISS-32	
STC:	55	0	ITC:	35	Report No.	NWTL140827-03	
Assembly Components							
Finish r	Finish material		5/8" gypsum, 2x 5/8" gypsum on single side				
Size	Size		3 5/8" Steel Stud				
Spacing			24" oc				
Product			AFB				
Thickne	Thickness		3.5"				



ROCKWOOL AFB

	Assembly Number: ISS-33			
eport No.	RAL-TL02-296			
Assembly Components				
5/8" gypsum				
6" Steel Stud				
24" oc				
AFB				
6"				
	5/8" gyp 6" Steel S 24" oc AFB			



Insulation Included: ROCKWOOL AFB

Acoustics Assembly Number:					
STC:	56	Re	eport 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		AFB			
Thickne	nickness 3.5"				



Acoust	ics		Assembly Number: ISS-35			
STC:	56	Report No.	RAL-TL90-196			
Assembly Components						
Finish r	nateri	al 2x 1/2" g	2x 1/2" gypsum			
Size		3 5/8" St	eel Stud			
Spacing	9	24″ ос				
Produc	t	AFB				
Thickne	ess	1.5"				



Acoustics				Asser	nbly Number: ISS-36			
STC:	56	OITC	39	Report No.	J2247.07-303- 11-R0			
Assembly Components								
Finish material		al 5/8"	5/8" gypsum					
Size 6"		6" St	6" Steel Stud					
Spacing	Spacing		24" oc					
Product		AFB	AFB					
Thickness 6		6"	6"					
Resilient RC I			eluxe, 1	16" OC				



Acoust	ics			Ass	sembly Number: ISS-37		
STC:	56	OITC:	39	Report No.	J2247.01-303-11-R0		
Assembly Components							
Finish r	al 5/8′	5/8" gypsum					
Size		6" 5	6" Steel Stud				
Spacing	9	16"	16" oc				
Produc	t	AFB	AFB				
Thickne	ess	6"					
Resilier Channe		RC I	Deluxe	e, 16" OC			



ROCKWOOL AFB

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



ROCKWOOL AFB

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



Acousti	ics		Assembly Number: ISS-39			
STC:	57	Report No.	RAL-TL96-268			
Assembly Components						
Finish n	nateria	al 2x 5/8" (2x 5/8" gypsum			
Size		3 5/8" St	teel Stud			
Spacing	Spacing 24" oc					
Product	t	AFB				
Thickne	ess	3"				



Acoustics Assembly Number: ISS-							
STC:	57	OITC	38	Report No.	RAL-TL23-195		
Asseml	Assembly Components						
Finish r	al 5/8"	5/8" gypsum, 2x 5/8" gypsum on single side					
Size	6" S	6" Steel Stud					
Spacing	24"	24" oc					
Produc	AFB	AFB					
Thickne	ess	6"					

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.



Insulation Included: **ROCKWOOL** Safe'n'Sound/AFB

Acoust	ics			Ass	embly Number: IWS-15		
STC:	36	OITC:	27	Report No.	TL21-355		
Asseml	oly Co	mponer	nts				
Finish r	nateri	al 5/8	' type	X gypsum			
Size		2x6	Wood	d Stud			
Spacing	9	16"	16" oc				
Produc	t	Safe	Safe'n'Sound/AFB				
Thickne	ess	s 3"					
Wall Configi	uratio	Sing	Single Stud				



Insulation Included: **ROCKWOOL Comfortbatt**

Acoustics		Assembly Number: IWS-01		
STC: 37 F	Report No.	NGC 2011011		
Assembly Com	ponents			
Finish material	5/8" type	X gypsum		
Size	2 x 4 Wo	2 x 4 Wood Stud		
Spacing	16″ ос	16" oc		
Product Com		patt		
Thickness	3.5"	3.5"		
Wall Configuration	Single St	ud		



Insulation Included: ROCKWOOL Safe'n'Sound/AFB

Acoustics			Asse	mbly Number: IWS-16	
STC: 38 C	DITC:	28	Report No.	TL21-356	
Assembly Com	ponent	S			
Finish material	5/8"	Туре >	K gypsum		
Size	2 x 6	Wood	l Stud		
Spacing	16" c	6" oc			
Product	Safe'n'Sound/AFB				
Thickness	5.5"				
Wall Configuration	Single	e Stuc	I		



Insulation	Included:
ROCKWO	OL AFB

Acoust	ics			Assembly Number: IWS-02
STC:	38	Repor	t No.	RAL-TL96-265
Assem	bly Co	mpone	nts	
Finish r	nateri	al 5/8	3" gyps	sum
Size	Size 2 x 4 Wood			od Stud
Spacing 16" oc			" ос	
Product AFB		В		
Thickness 3"				
Wall Configuration Single Stu			gle Stı	ud



Acoustics			Assembly Number: IWS-03
STC: 3	8 R	eport No.	RAL-TL96-266
Assembly	Com	oonents	
Finish ma	terial	1/2" gyps	sum
Size		2 x 4 Woo	od Stud
Spacing		16" oc	
Product AFB			
Thickness 3"			
Wall Configura	tion	Single Stu	ud



Acoustics			Asse	embly Number: IWS-04		
STC: 40	OITC:	32	Report No.			
Assembly Con						
Finish material	2 x 5	5/8″ g	ypsum			
Size	2 x 4	2 x 4 Wood Stud				
Spacing	16"	16" oc				
Product	AFB	AFB				
Thickness	3"	3"				
Wall Configuration	Sing	le Stu	d			



Insulation Included: ROCKWOOL Comfortbatt

Acousti	cs		Assembly Number: IWS-05			
STC:	40	Report No.	NGC 2011013			
Assemb	oly Co	mponents				
Finish n	nateri	al 1/2" gyp	sum			
Size		2 x 4 Wo	2 x 4 Wood Stud			
Spacing	9	16" oc	16" oc			
Product		Comfort	patt			
Thickne	SS	3.5"				
Wall Configu	ıratior	Single St	ud			



Acoustics		Assembly Number: IWS-06		
STC: 45 R	eport No.	RAL-TL02-300		
Assembly Com	ponents			
Finish material	5/8" gyps	sum		
Size	2 x 6 Wood Stud			
Spacing	24" ос			
Product	AFB			
Thickness	5.5"			
Wall Configuration	Single Stu	ud		



Acoustics			Asse	embly Number: IWS-07			
STC: 47 (DITC:	33	Report No.	K2356.06-303-11-R0			
Assembly Com	Assembly Components						
Finish material	5/8"	gyps	um				
Size	2 x 4 Wood Stud						
Spacing 16" oc							
Product	AFB						
Thickness	3"	3"					
Resilient Channels	RC E	Deluxe	e, 16" oc, Sing	le Stud			



Insulation Included: ROCKWOOL Safe'n'Sound/AFB

Acousti	ics			Asse	embly Number: IWS-17		
STC:	48	OITC:	31	Report No.	TL21-358		
Assemb	oly Co	mponen	ts				
Finish n	nateri	al 2x 5	2x 5/8" Type X gypsum				
Size		2 x 6	2 x 6 Wood Stud				
Spacing	9	24"	24" oc				
Product	t	Safe	Safe'n'Sound/AFB				
Thickne	ess	3"	3"				
Wall Configu	uratio	Sing	Single Stud				



Insulation Included: ROCKWOOL Safe'n'Sound/AFB

Acoust	ics			Asse	embly Number: IWS-18		
STC:	48	OITC:	32	Report No.	TL21-359		
Assem	Assembly Components						
Finish r	materi	al 2x 5	/8" Ty	pe X gypsum			
Size		2 x 6	Woo	od Stud			
Spacin	g	24"	ос				
Produc	t	Safe	′n′Soı	und/AFB			
Thickne	ess	5.5"	5.5"				
Wall Config	uratio	n Sing	Single Stud				



Acoust	ics		Assembly Number: IWS-08		
STC:	49	Report No.	NGC 2011015		
Asseml	oly Co	mponents			
Finish r	nateri	al 1/2" gyp:	1/2" gypsum		
Size		2 x 4 Wo	2 x 4 Wood Stud		
Spacing	9	24″ ос	24" oc		
Product		Comfortb	Comfortbatt		
Thickness		2.5" per	2.5" per row		
Wall Configu	uratio	Staggere	d Studs		



Insulation Included: **ROCKWOOL** Safe'n'Sound/AFB

					II N. I. WAYS 40		
Acoust	ICS -			Ass	embly Number: IWS-19		
STC:	50	OITC:	35	Report No.	TL21-351		
Assem	bly Co	mponer	its				
Finish r	al 5/8′	5/8" Type X gypsum					
Size 2 x 4			x 4 Wood Stud				
Spacing	16"	16" oc					
Produc	Safe	Safe'n'Sound/AFB					
Thickness 3"			3" per row, notched at opposing stud				
Wall Config	uratio	Stag	Staggered Studs				



510	an Jillaman III.	Acousi	.103		Assembly Number. 1775	0,	
50		STC:	50	Report No.	NGC 2011014		
	8 8	Assem	bly Co	mponents			
_	8 8	Finish	Finish material		5/8" type X gypsum		
000000000000000000000000000000000000000		Size		2 x 4 Woo	2 x 4 Wood Stud		
B		Spacing		24" oc	24" oc		
		Produc	t	Comfortb	Comfortbatt		
		Thickn	ess	2.5" per i	row		
	Included: OL Comfortbatt	Wall Config	uratior	Staggere	d Studs		



ROCKWOOL AFB

Acoustics				Assembly Number: IWS-10		
STC:	51	Rep	ort No.	NGC 2011016		
Assemb	oly Co	mpo	nents			
Finish n	nateri	al !	5/8" type X gypsum			
Size		:	2 x 4 Wood Stud			
Spacing	9	:	24" oc			
Produc	t	,	AFB			
Thickness		:	2" per row			
Wall Configuration		n :	Staggered Studs			



Acoust	ics		Assembly Number: IWS-11			
STC:	52	Report No.	NGC 2010072			
Asseml	bly Co	mponents				
Finish r	nateri	al 1/2" gyp	sum			
Size		2 x 4 Wo	2 x 4 Wood Stud			
Spacing	g	16″ ос	16" oc			
Produc	t	Comfortb	Comfortbatt			
Thickness 3.5" p			r row			
Wall Configu	uratio	Double S	tud with 1" Air Gap			



Insulation Included: ROCKWOOL Safe'n'Sound/AFB

Acoust	ics			Asse	embly Number: IWS-20		
STC:	53	OITC:	37	Report No.	TL21-357		
Asseml	Assembly Components						
Finish r	nateri	al 5/8"	Туре	X gypsum			
Size		2 x 6	Woo	od Stud			
Spacing	9	16"	6" oc				
Produc	t	Safe	Safe'n'Sound/AFB				
Thickne	ess	5.5"	5.5"				
Wall Configuration			Single Stud				
Resilier Channe		24"	24" oc				



Insulation Included: **ROCKWOOL** Safe'n'Sound/AFB

Acoust	ics			Asse	embly Number: IWS-21		
STC:	54	OITC:	48	Report No.	TL21-353		
Asseml	oly Co	mponen	ts				
Finish r	nateri	al 2x 5	2x 5/8" Type X gypsum				
Size		2 x 4	2 x 4 Wood Stud				
Spacing	9	24"	24" oc				
Product		Safe	Safe'n'Sound/AFB				
Thickness		3" p	3" per row, notched at opposing stud				
Wall Configuration		n Stag	Staggered Studs				

Insulation Included:

ROCKWOOL Safe'n'Sound

Acoust	ics		Assembly Number: IWS-12			
STC:	56	Report No.	NGC 2010071			
Assembly Components						
Finish r	nateri	al 5/8" typ	e X gypsum			
Size 2 x 4 Wo			ood Stud			
Spacing 16" oc						
Product Safe'r			ound			
Thickness 3" per rov			ow			
Wall Configuration Double St			Stud with 1" Air Gap			



Insulation Included:
ROCKWOOL
Safe'n'Sound/AFB

Acoust			Asse	embly Number: IWS-22				
STC:	57	OITC:	38	Report No.	TL21-352			
Asseml	oly Co	mponen	ts					
Finish r	nateri	al 5/8"	5/8" Type X gypsum					
Size		2 x 4	2 x 4 Wood Stud					
Spacing		16"	16" oc					
Product		Safe	Safe'n'Sound/AFB					
Thickness		3" p	3" per row, notched at opposing stud					
Wall Configuration		Stag	Staggered Studs					
Resilier Channe	24"	24" oc						



ROCKWOOL Comfortbatt ROXUL Safe 45

Acoustic	Acoustics			Asse	embly Number: IWS-13		
STC:	58	OITC:	33	Report No.	NGC 2010070		
Assembl	у Со	mponen	ts				
Finish ma	ateria	al 5/8"	5/8" type X gypsum				
Size	Size		2 x 4 Wood Stud				
Spacing		16"	16" oc				
Product	Product		Comfortbatt				
Thickness		3.5"	3.5" per row				
Wall Configur	Doul	Double Stud with 1" ROXUL Safe 45					



Acoust	ics			Assembly Number: IWS-14		
STC:	60	Rep	ort No.	NGC 2010069		
Assem	bly Co	mpo	nents			
Finish r	materi	al !	5/8" type X gypsum			
Size	Size		2 x 4 Wood Stud			
Spacing	g		16" oc			
Produc	t:	(Comfortbatt			
Thickness		;	3.5" per row			
Wall Configuration		n I	Double Stud with 1" Air Gap			



Insulation Included: ROCKWOOL Safe'n'Sound/AFB

Acoustics		Asse	embly Number: IWS-23			
STC: 61 O	ITC: 46	Report No.	TL21-360			
Assembly Comp	onents					
Finish material	2x 5/8" Ty	pe 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					



Insulation Included:
ROCKWOOL
Safe'n'Sound/AFB

Acoustics		Asse	mbly Number: IWS-24		
STC: 66 C	ITC: 50	Report No.	TL21-349		
Assembly Comp	onents				
Finish material	2x 5/8" Ty	pe 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				



Insulation Included: ROCKWOOL Safe'n'Sound/AFB

Acoust	ics			Assen	nbly Number: IWS-25			
STC:	66	OITC:	52	Report No.	TL21-350			
Assem	bly Co	mponent	5					
Finish r	materi	al 2x 5/	2x 5/8" Type X gypsum					
Size		2 x 4	2 x 4 Wood Stud					
Spacing	Spacing		24" oc					
Produc	Product		Safe'n'Sound/AFB					
Thickness		3" pe	3" per row					
Wall Config	uratio	n Doub	Double Stud with 1" Air Gap					



Insulation Included: ROCKWOOL Safe'n'Sound/AFB

Acoustics		Asse	embly Number: IWS-26		
STC: 66 O	ITC: 51	Report No.	TL21-354		
Assembly Comp	onents				
Finish material	2x 5/8" Ty	pe 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				

Looking for building science support?ROCKWOOL is here to help with a full range of building modeling to help with your project.

Visit: **rockwool.com/buildingscience** for more information

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.



Acoust	ics			Asse	mbly Number: EWS-01		
STC:	35	OITC:	27	Report No.	H5383.01-113-11-R0		
Assem	oly Co	mponen	ts				
Finish r	nateri	al 5/8	" дур	sum			
Size		2 x	6 Wo	od Stud			
Spacing	9	16"	ос				
Produc	t	Cor	Comfortbatt				
Thickne	ess	6"	6"				
Sheathi	ing	1/2	1/2 plywood with Air Barrier				
	Continuous Insulation						
Insulation Thickness							
Insulati Fasteni							



Insulation Included: ROCKWOOL Comfortbatt ROCKWOOL Comfortboard 80

	Acoust				Asse	embly Number: EWS-02			
	STC:	39	OITC:		29	Report No.	H5383.02-113-11-R0		
	Assemb	oly Co	mpc	onent	:s				
	Finish n	nateri	al	5/8	gyps	sum			
	Size			2 x	6 Woo	od Stud			
	Spacing			16" oc					
	Product			Comfortbatt					
	Thickne	ess		6"					
	Sheathi	ing		1/2 plywood with Air Barrier					
80	Continuous Insulation			Comfortboard 80					
	Insulation Thickness		1.5						
	Insulation Fastening			Furring Strips					

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.



Insulation Included:ROCKWOOL
Comfortboard 110

Acoust	ics			Asso	embly Number: ESS-01	
STC:	43	OITC:	30	Report No.	H5383.06-113-11-R0	
Assemb	oly Co	mponent	s			
Finish r	nateri	al		5/8" gypsum		
Size				3 5/8" Steel St	rud	
Spacing				16" oc		
Batt Pro	oduct					
Thickne	ess					
Sheath	ing			1/2" gypsum with Air Barrier		
Continu	uous li	nsulation		Comfortboard 110		
Insulation Thickness				1"		
Insulation Fastening				Furring Strips		
Claddir	ng			None		



Acoust	ics			Ass	sembly Number: ESS-02	
STC:	44	OITC:	29	Report No.	96973.01-113-11	
Asseml	oly Co	mponent	ts			
Finish r	nateri	al		1/2" gypsum		
Size				6" Steel Stud		
Spacing	9			16" oc		
Batt Pro	oduct					
Thickne	ess					
Sheath	ing			5/8" gypsum with Air Barrier		
Continuous Insulation				Cavityrock		
Insulation Thickness				3"		
Insulati	on Fa	stening		Z-girts		
Claddir	ng			5/16" Cement Board		



Insulation Included:
ROCKWOOL Comfortbatt
Polyiso Insulation

Acoust	ics				Ass	embly Number: ESS-03	
STC:	47	OI ⁻	OITC:		Report No.	96641.01-113-11	
Assemb	oly Co	mpo	onent	ts			
Finish n	nateri	al	1/2	" дур	sum		
Size			6" 9	Steel S	Stud		
Spacing	9		16"	ос			
Batt Pro	oduct		Comfortbatt				
Thickne	ess		6"				
Sheathi	ing		5/8" gypsum with Air Barrier				
00	Continuous Insulation		Polyiso				
	Insulation Thickness		3"				
modiaci	nsulation Fastening		Z-girts				
Claddir	ng		5/1	6" Ce	ment Board		



Insulation Included: ROCKWOOL Comfortbatt

Acoustics	Assembly Number: ESS-0				
STC: 48 O	TC: 30 Report No. 96642.01-113-11				
Assembly Comp	pnents				
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				



Insulation Included: ROCKWOOL Comfortbatt ROCKWOOL Cavityrock

						11.11.1.500.05		
Acoust	ics				Ass	embly Number: ESS-05		
STC:	49	OITC:		32	Report No.	H5383.03-113-11-R0		
Assembly Components								
Finish r	Finish material		5/8" gypsum					
Size			3 5/8" Steel Stud					
Spacin	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

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



Insulation Included: ROCKWOOL Comfortbatt ROCKWOOL Cavityrock

Acoust	ics				Asse	embly Number: ESS-07		
STC:	50	OITC:		31	Report No.	96644.01-113-11		
Asseml	bly Co	mp	onen [.]	ts				
Finish r	Finish material			1/2" gypsum				
Size	Size		6" Steel Stud					
Spacing	Spacing			16" oc				
Batt Pro	Batt Product			Comfortbatt				
Thickne	Thickness		6"					
Sheath	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 Comfortboard 110

Acoust	ics				Asse	embly Number: ESS-08			
STC:	51	OITC:		32	Report No.	H5383.05-113-11-R0			
Asseml	bly Co	mpo	nent	s					
Finish r	Finish material			5/8" gypsum					
Size	Size			3 5/8" Steel Stud					
Spacing	Spacing			16" oc					
Batt Pro	Batt Product			Comfortbatt					
Thickne	Thickness			3.5"					
Sheath	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 Cavityrock

Acoust	ics			Ass	embly Number: ESS-09			
STC:	51	OITC:	35	Report No.	97176.01-113-11			
Assembly Components								
Finish r	Finish material		2x 5/8" gypsum					
Size	Size		6" Steel Stud					
Spacin	16′	16" oc						
Batt Pr	Co	Comfortbatt						
Thickness		6"	6"					
Sheathing		5/8	5/8" gypsum with Air Barrier					
Continuous Insulation		Cav	Cavityrock					
Insulation Thickness		3"	3"					
Insulati Fasten	Z-g	Z-girts						
Cladding		5/1	5/16" Cement Board					



Insulation Included: ROCKWOOL Comfortbatt ROCKWOOL Comfortboard 110

Acoust	ics			Ass	embly Number: ESS-10				
STC:	52	OITC:	33	Report No.	H5383.04-113-11-R0				
Assembly Components									
Finish r	al 5/8	5/8" gypsum							
Size	Size			3 5/8" Steel Stud					
Spacing	Spacing			16" oc					
Batt Pro	Batt Product			Comfortbatt					
Thickne	3.5	3.5"							
Sheath	5/8	5/8" gypsum with Air Barrier							
Continu Insulati	Cor	Comfortboard 110							
Insulati Thickne	2"	2"							
Insulation Fastening		Fur	Furring Strips						
Claddir	No	None							

Notes:

At the ROCKWOOL Group, we are committed to enriching the lives of everyone who comes into contact with our solutions. Our expertise is perfectly suited to tackle many of today's biggest sustainability and development challenges, from energy consumption and noise pollution to fire resilience, water scarcity and flooding. Our range of products reflects the diversity of the world's needs, while supporting our stakeholders in reducing their own carbon footprint.

Stone wool is a versatile material and forms the basis of all our businesses. With more than 11,000 employees in 39 countries, we are the world leader in stone wool solutions, from building insulation to acoustic ceilings, external cladding systems to horticultural solutions, engineered fibres for industrial use to insulation for the process industry and marine and offshore.

AFB°, Cavityrock°, Comfortbatt°, Comfortboard°, Conrock°, Curtainrock°, ROXUL Safe°, Rockboard°, Toprock°, Monoboard°, ROXUL° are registered trademarks of the ROCKWOOL Group in USA and ROXUL Inc. in Canada.

ROCKWOOL™, Fabrock™ are trademarks of the ROCKWOOL Group in USA and ROXUL Inc. in Canada.

SAFE'n'SOUND® is a registered trademark used under license by Masonite Inc.



06-2023

ROCKWOOL

8024 Esquesing Line Milton, ON L9T 6W3 Tel: 1 800 265 6878