

### 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							
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



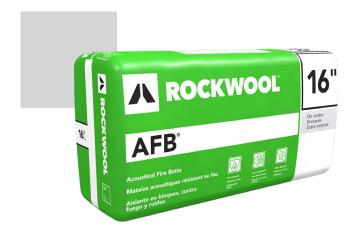
### **AFB**<sup>®</sup>

### **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<sup>®</sup>

### **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	Size		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"							
	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			
Assembly Components						
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	Ol	TC:	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	osum			
Size	Size		2 1/2" Steel Stud			
Spacing		24" oc	24" oc			
Product		AFB	AFB			
Thickness		1.5"				



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

STC <b>46</b>	g
13	6
Insulation ROCKWC	Included:

Acoustics		Assembly Number: ISS-12				
STC: 46	Report No.	RAL-TL02-212				
Assembly Components						
Finish material	5/8" gyp	5/8" gypsum				
Size	2 1/2" St	2 1/2" Steel Stud				
Spacing	24" oc					
Product	AFB	AFB				
Thickness	1.5"					



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



nsulation Included:	
ROCKWOOL AFB	

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



ROCKWOOL AFB

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



Acoustic	S			Assembly Number: ISS-16			
STC:	47	OITC:	29	Report No.	J2247-05-303-11-R0		
Assembly Components							
Finish ma	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	mbly 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 <b>49</b>	

Acoust	ics				Assen	nbly Number: ISS-18		
STC:	49	0	ITC	32	Report No.	NWTL140828-02		
Asseml	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 n	al 5/8"	5/8" gypsum					
Size		3 5/8	3" Ste	el Stud			
Spacing	9	24" (	эс				
Produc	AFB	AFB					
Thickne	ess	3.5"					



Insulation Included:
ROCKWOOL 4 pcf mineral
wool board insulation

Acousti	ics			Ass	sembly Number: ISS-20			
STC:	50	OITC:	31	Report No.	NWTL141118-04			
Assembly Components								
Finish n	al 5/8"	5/8" gypsum						
Size		3 5/8	3 5/8" Steel Stud					
Spacing 2			24" oc					
Product		Minimum 4 pcf mineral wool board insulation (outboard, single side)						
Thickne	ess	3"	3"					



ROCKWOOL AFB

Acoust	ics			Asse	embly Number: ISS-21			
STC:	50	OITC	34	Report No.	J2247-04-303-11-R0			
Assemb	Assembly Components							
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

Acoustics Assembly Number: IS					
leport No.	RAL-TL90-186				
Assembly Components					
1/2" gypsum, 2x 1/2" gypsum on single side					
2 1/2" Steel Stud					
24" oc					
AFB					
1.5"					
	1/2" gyps 2 1/2" Sto 24" oc AFB				



cs		Assembly Number: ISS-23			
51	Report No.	RAL-TL96-269			
Assembly Components					
nateri	al 1/2" gyp	sum			
	3 5/8" St	eel Stud			
Spacing 24" oc					
Product AFB					
SS	3"				
	51 oly Conateria	51 Report No.  Soly Components  naterial 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		
Assembly Components							
Finish r	nateri	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 material 5/8" gypsum							
Size		6" S	teel S	tud			
Spacing	9	16"	16" oc				
Produc	t	AFB	AFB				
Thickne	ess	6"	6"				



Acousti	ics		Assembly Number: ISS-26			
STC:	53	Report No.	RAL-TL96-288			
Assembly Components						
Finish n	nateria	al 1/2" gyp	sum			
Size		3 5/8" St	3 5/8" Steel Stud			
Spacing	9	24" oc	24" oc			
Product		AFB	AFB			
Thickness		3"	3"			
Resilient Channels		Metal, 24	4" OC			



Acoustics		Ass	embly Number: ISS-27					
STC: 53 O	ITC 34	Report No.	J2247.10-303-11-R0					
Assembly Comp	Assembly Components							
Finish material	5/8" gyps	5/8" gypsum						
Size	3 5/8" Steel Stud							
Spacing	16" oc							
Product	AFB							
Thickness	3"							
Resilient Channels	RC Deluxe	e, 16" OC						



	-
Insulation	Included:
madiation	meiaca.
ROCKWO	OL AFB

Acoust	Assembly Number: ISS-28						
STC:	53	Re	eport No.	RAL-TL90-	185		
Assembly Components							
Finish material		al	2x 1/2" gypsum				
Size	Size 2 1/2" Steel Stud						
Spacing		24" oc					
Product		AFB					
Thickness 1.5			1.5"				



Acoust	Acoustics				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				
Spacing	g		24" oc				
Produc	t:		AFB				
Thickne	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	nateri	al	5/8"	gypsun	n		
Size	6" 9		6" Steel Stud				
Spacing	9	16"		16" oc			
Produc	ict A		AFB				
Thickne	ckness 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 material		al 5/8" gyp	5/8" gypsum				
Size 3.5		3 5/8" St	3 5/8" Steel Stud				
Spacing 24" o		24" oc	24" oc				
Produc	Product AFB						
Thickness 3"		3"					
Resilient Metal, 24'		Metal, 24	1" 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	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

Acoust	ics			Assembly Number: ISS-34	
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	ess	3.5"			



Acoust	ics		Assembly Number: ISS-35			
STC:	56	Report No.	RAL-TL90-196			
Assembly Components						
Finish r	Finish material		2x 1/2" gypsum			
Size	ze 3 5/8		3 5/8" Steel Stud			
Spacing	cing 24" oc					
Produc	Product AFB					
Thickne	ess	1.5"				



Acoustics				Assen	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	Size 6" S		6" Steel Stud					
Spacing	Spacing		24" oc					
Produc	Product		AFB					
Thickness 6"		6"	6"					
Resilient RC D		Deluxe, 16" OC						



Acoust	ics			Ass	sembly Number: ISS-37		
STC:	56	OITC:	39	Report No.	J2247.01-303-11-R0		
Assembly Components							
Finish r	h material 5/8		5/8" gypsum				
Size		6" 5	6" Steel Stud				
Spacing	9	16"	16" oc				
Produc	t	AFB	AFB				
Thickne	ess	6"	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	cs		Assembly Number: ISS-39			
STC:	57	Report No.	RAL-TL96-268			
Assembly Components						
Finish n	Finish material		2x 5/8" gypsum			
Size	3 5/8" St		eel Stud			
Spacing	Spacing 24"		24" oc			
Product	Product AFB					
Thickne	SS	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"	ос					
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	3"	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	Comfortbatt			
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	2 x 6 Wood Stud				
Spacing	16" c	6" oc				
Product	Safe'n'Sound/AFB					
Thickness	5.5"					
Wall Configuration	Single	e Stuc	I			



Insulation	Included:
<b>ROCKWO</b>	OL AFB

Acoust	ics			Assembly Number: IWS-02
STC:	38	Report	: No.	RAL-TL96-265
Assem	bly Co	mpone	nts	
Finish r	nateri	al 5/8	" gyps	sum
Size	Size 2 x 4 Wood			od Stud
Spacin	g	16"	ос	
Product AFB		3		
Thickness 3"				
Wall Config	Wall Single Stu			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 (	DITC:	32	Report No.		
Assembly Components					
Finish material	2 x 5	/8″ g	ypsum		
Size	2 x 4 Wood Stud				
Spacing	16" oc				
Product	AFB				
Thickness	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	Comfortbatt			
Thickne	SS	3.5"				
Wall Configu	ıratior	Single St	Single Stud			



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" oc	24" oc			
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" or			16″ oc				
Product	AFB	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 i	materi	al 2x 5	/8" Ty	pe X gypsum			
Size		2 x 6	2 x 6 Wood Stud				
Spacin	g	24"	24" oc				
Produc	t	Safe	Safe'n'Sound/AFB				
Thickness 5.5"							
Wall Config	uratio	n Sing	Single Stud				



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



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

					II NI I DAG 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	2 x 4 Wood Stud				
Spacing	16"	16" oc				
Produc	Safe	Safe'n'Sound/AFB				
Thickne	3" p	3" per row, notched at opposing stud				
Wall Config	Stag	Staggered Studs				



510	an Marini Ma	Acoust	.103		Assembly Number: 1775-0			
50		STC:	50	Report No.	NGC 2011014			
	8 8	Assembly Components						
_	8 8	Finish i	materia	al 5/8" type	X gypsum			
	9	Size		2 x 4 Woo	2 x 4 Wood Stud			
B	)	Spacing		24" oc	24" oc			
		Produc	t	Comfortb	patt			
		Thickne	ess	2.5" per i	row			
	Included: OL Comfortbatt	Wall Configuration		Staggere	Staggered Studs			



**ROCKWOOL AFB** 

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



Acoust	ics		Assembly Number: IWS-11			
STC:	52	Report No.	NGC 2010072			
Assembly Components						
Finish r	nateri	al 1/2" gyp	1/2" gypsum			
Size		2 x 4 Wo	2 x 4 Wood Stud			
Spacing	g	16″ ос	16" oc			
Produc	t	Comfortb	Comfortbatt			
Thickne	ess	3.5" per	3.5" per row			
Wall Configu	uratio	Double S	Double Stud 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	bly Co						
Finish r	nateri	al 5/8"	Туре	X gypsum			
Size		2 x 6	2 x 6 Wood Stud				
Spacing	9	16"	16" oc				
Produc	t	Safe	Safe'n'Sound/AFB				
Thickne	ess	5.5"	5.5"				
Wall Config	uratio	n Sing	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		
Assembly Components							
Finish r	nateri	al 2x 5	2x 5/8" Type X gypsum				
Size		2 x 4	2 x 4 Wood Stud				
Spacino	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		
Asseml	oly Co	mponents			
Finish material 5/8"			e X gypsum		
Size		2 x 4 Wo	2 x 4 Wood Stud		
Spacing	9	16" oc	16" oc		
Produc	t	Safe'n'S	Safe'n'Sound		
Thickness 3" per rov			ow		
Wall Configuration Double			Stud with 1" Air Gap		



Insulation Included:
ROCKWOOL
Safe'n'Sound/AFB

	Acoust	ics		Assembly Number: IWS					
	STC:	57	OITC:	38	Report No.	TL21-352			
	Assembly Components								
	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 Thickness Wall Configuration		Safe	Safe'n'Sound/AFB					
			3" p	3" per row, notched at opposing stud					
			Stag	Staggered Studs					
	Resilier Channe	24"	24" oc						



ROCKWOOL Comfortbatt ROXUL Safe 45

Acoustics		Assembly Number: IWS-13			
STC: 58	DITC: 33	Report No.	NGC 2010070		
Assembly Com	ponents				
Finish material	5/8" typ	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				



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		:	2 x 4 Wood Stud			
Spacing			16" oc			
Produc	Product		Comfortbatt			
Thickness		;	3.5" per row			
Wall Configuration			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	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					



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 St	ud 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/	3″ Тур	e X gypsum				
Size		2 x 4	2 x 4 Wood Stud					
Spacing	Spacing 2			24" oc				
Produc	t	Safe'ı	Safe'n'Sound/AFB					
Thickne	Thickness 3" pe			" per row				
Wall Do			Pouble 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					

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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.



Acoust			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

	Acoustics					Asse	mbly Number: EWS-02	
	STC:	39	Ol	TC:	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				
	Thickness			6"				
	Sheathing			1/2 plywood with Air Barrier				
30	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 Stud		
Spacing	Spacing			16" oc		
Batt Pro	Batt Product					
Thickne	ess					
Sheath	Sheathing			1/2" gypsum with Air Barrier		
Continu	Continuous Insulation			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				16" oc		
Batt Pro	oduct					
Thickness						
Sheathing				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 <sup>-</sup>	TC:	30	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	Thickness		6"					
Sheathi	Sheathing		5/8" gypsum with Air Barrier					
00	Continuous Insulation		Polyiso					
Insulation Thickness		3"						
modiaci	Insulation Z-Fastening			Z-girts				
Claddir	ng		5/1	5/16" Cement Board				



Insulation Included: ROCKWOOL Comfortbatt

Acoustics	Assembly Number: ESS-04				
STC: 48 OI	TC: 30 Report No. 96642.01-113-11				
Assembly Comp	onents				
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					
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"	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 <sup>.</sup>	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					
Spacing			16" oc					
Batt Product			Comfortbatt					
Thickness		6	6"					
Sheathing		5	5/8" gypsum with Air Barrier					
Continuous Insulation		С	Cavityrock					
Insulation Thickness		3	3"					
Insulation Fastening			Z-girts					
Cladding		5	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	3 5	3 5/8" Steel Stud					
Spacing	16′	16" oc					
Batt Pro	Со	Comfortbatt					
Thickne	3.5	3.5"					
Sheath	5/8	5/8" gypsum with Air Barrier					
Continu Insulati	Со	Comfortboard 110					
Insulati Thickne	2"	2"					
Insulati Fasteni	Fur	Furring Strips					
Claddir	No	None					

# Notes:

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