



Rated acoustic assembly catalog

Roof insulation



Notes:

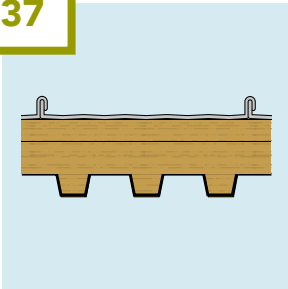
Using this guide:

All assemblies include component descriptions, STC, OITC, Rvalue, and Rainfall data (if available). In addition, Each assembly references an RWT (ROCKWOOL test) number. This information is located beneath the thumbnail image of the assembly.

- Using this number you can contact ROCKWOOL Technical services for more information on a particular assembly including Transmission Loss Curve data and other documentation.

Call 1-888-265-6878 or email contactus@rockwool.com

STC
37



RWT32

Acoustic and Thermal Performance

STC: 37 OITC: 29 RValue: 19 Rainfall: 48.3 dB

Assembly Components

- Metal Roof System: 2" Fabral/Sentriguard 24 Gauge Standing Seam Metal Roof Deck
- Insulation: 1.97" TOPROCK" DD
- Insulation: 3.01" TOPROCK" DD
- Flute Fill: 1.56" ROCKWOOL Flute Filler
- Deck: 1.51" Fabral22ga., Type B, Steel

An aerial photograph of a city street grid. In the foreground, a large building is under construction, with a yellow crane and various construction materials visible on its roof. The surrounding area is filled with completed buildings of various heights and colors, including a prominent blue skyscraper. The streets are visible with cars and crosswalks.

STC Range

25-35

Pages 7-8

STC Range

36-45

Pages 9-11

STC Range

46-55

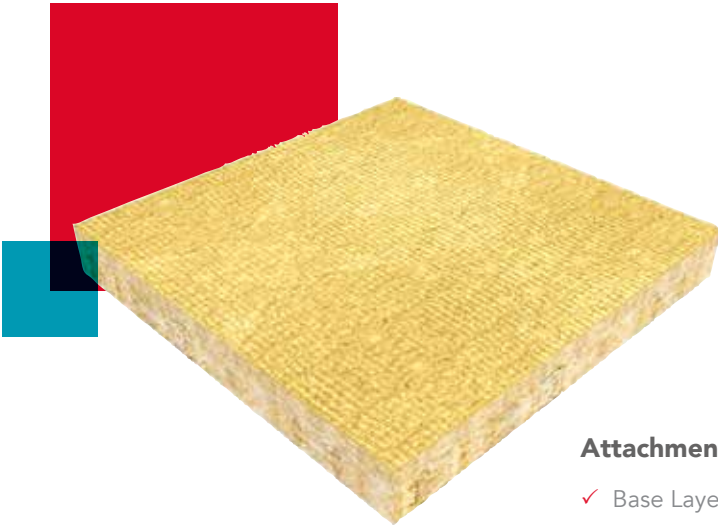
Pages 12-15

TOPROCK® DD

Thermal Roofing Insulation and Coverboard

TOPROCK® DD is a dual-density rigid stone wool roofboard available unfaced or with facing for improved adhesion. TOPROCK® DD Plus has a bitumen coating for hot adhered systems. ROCKWOOL MULTIFIX™ has a mineral coated fiber glass facer that is approved for use with hot and cold adhered systems.

- Insulation and coverboard in one
- Suitable for new building, re-roofing and re-covering applications
- Also used in tapered systems for positive drainage
- Standard thicknesses: 2 – 6", .5" increments
- R-value of 3.8 per inch as tested at 75°F per ASTM



Attachment methods:

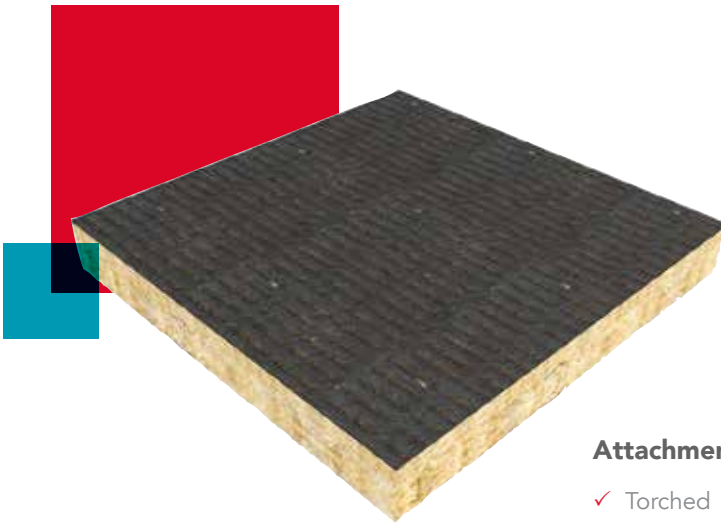
- ✓ Base Layer
- ✓ Mech. fastened
- ✓ Self-Adhered

TOPROCK® DD PLUS

Bitumen Coated Thermal Roofing Insulation and Coverboard

ROCKWOOL TOPROCK® DD Plus is a high-density, bitumen-coated stone wool insulation board for low-slope roof applications. It is compatible as the substrate for the following membrane attachment types: torched, hot mopped and self-adhered.

- Insulation and coverboard in one
- Suitable for new building, re-roofing and re-covering applications
- Also used in tapered systems for positive drainage
- Standard thicknesses: 2 – 6", .5" increments
- R-value of 3.8 per inch as tested at 75°F per ASTM



* Contact ROCKWOOL Technical Service for more information

Attachment methods:

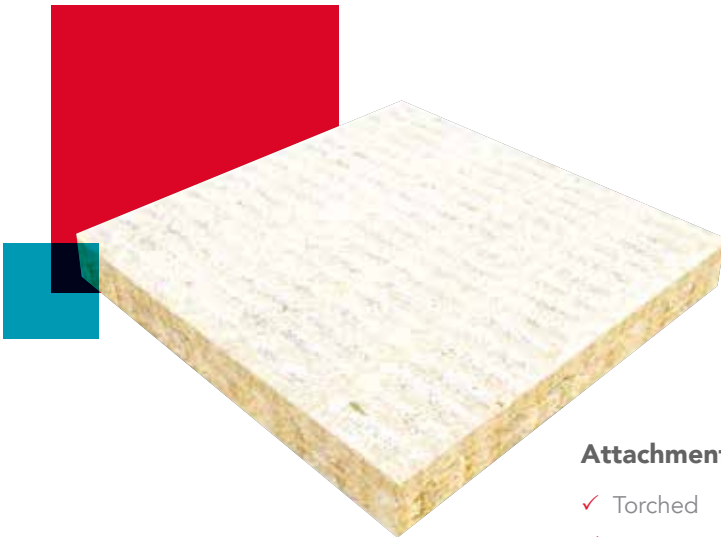
- ✓ Torched
- ✓ Hot Mopped
- ✓ Cold Applied*

MULTIFIX™

Glass Fiber Faced Thermal Roofing Insulation and Coverboard

MULTIFIX™ is a dual-density, rigid roofing insulation faced with a high-performance mineral coated glass fiber layer. MULTIFIX™ has all the product qualities of our TOPROCK® DD product:

- Insulation and coverboard in one
- Suitable for new building, re-roofing and re-covering applications
- Fire, impact and hail resistant
- The glass fiber coating allows the product to be used with a number of different bonding methods for conventional roofing systems.



Attachment methods:

- ✓ Torched
- ✓ Hot mopped
- ✓ Cold Applied
- ✓ Self-Adhered

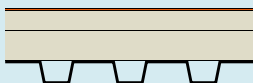
STC RANGE

25 - 35

Roof Membranes

Unless otherwise indicated, all tests have been completed to be membrane agnostic.

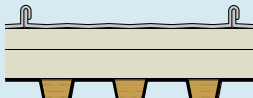
26 STC/OITC:
G3302.05-113-11-R1
Rainfall:
G3302.15-113-11-R0



RWT31

Acoustic and Thermal Performance			
STC: 26	OITC: 21	RValue: 23	Rainfall: 54.4 dB
Assembly Components			
Membrane:	0.05" Sarnafill" Sikaplan		
Insulation:	1.85" GAF" Polyisocyanurate		
Insulation:	2.77" GAF" Polyisocyanurate		
Deck:	1.51" Fabral 22ga., Type B, Steel		

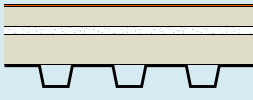
STC 29 STC/OITC:
G3302.10-113-11-R1
Rainfall:
G3302.20-113-11-R1



RWT36

Acoustic and Thermal Performance			
STC: 29	OITC: 23	RValue: 23	Rainfall: 55.7 dB
Assembly Components			
Metal Roof System:	2" Fabral/Sentriguard 24 Gauge Standing Seam Metal Roof Deck		
Insulation:	1.85" GAF" Polyisocyanurate		
Insulation:	2.77" GAF" Polyisocyanurate		
Flute Fill:	1.56" ROCKWOOL Flute Filler		
Deck:	1.51" Fabral 22ga., Type B, Steel		

STC 31 STC/OITC:
G3302.04-113-11-R1
Rainfall:
G3302.14-113-11-R1

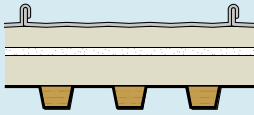


RWT30

Acoustic and Thermal Performance			
STC: 31	OITC: 25	RValue: 23	Rainfall: 49.4 dB
Assembly Components			
Membrane:	0.05" Sarnafill" Sikaplan		
Insulation:	1.85" GAF" Polyisocyanurate		
Mass Layer:	0.63" GP Gypsum DensDeck"		
Insulation:	2.77" GAF" Polyisocyanurate		
Deck:	1.51" Fabral 22ga., Type B, Steel		

STC
32

STC/OITC:
G3302.09-113-11-R1
Rainfall:
G3302.19-113-11-R0



RWT35

Acoustic and Thermal Performance

STC: 32 OITC: 25 RValue: 23 Rainfall: 52.6 dB

Assembly Components

Metal Roof System: 2" Fabral/Sentriguard 24 Gauge Standing Seam Metal Roof Deck

Insulation: 1.85" GAF" Polyisocyanurate

Mass Layer: 0.63" GP Gypsum DensDeck"

Insulation: 2.77" GAF" Polyisocyanurate

Flute Fill: 1.56" ROCKWOOL Flute Filler

Deck: 1.51" Fabral 22ga., Type B, Steel

STC
35

STC/OITC:
G3302.03-113-11-R1
Rainfall:
G3302.13-113-11-R0



RWT29

Acoustic and Thermal Performance

STC: 35 OITC: 25 RValue: 22 Rainfall: 45.2 dB

Assembly Components

Membrane: 0.05" Sarnafill" Sikaplan

Insulation: 1.97" TOPROCK" DD

Mass Layer: 0.63" GP Gypsum DensDeck

Insulation: 2.77" GAF" Polyisocyanurate

Deck: 1.51" Fabral 22ga., Type B, Steel

STC RANGE

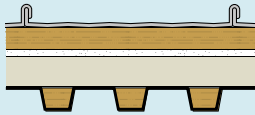
36 - 45

Roof Membranes

Unless otherwise indicated, all tests have been completed to be membrane agnostic.

STC
36

STC/OITC:
G3302.08-113-11-R1
Rainfall:
G3302.18-113-11-R0



RWT34

Acoustic and Thermal Performance

STC: 36 OITC: 27 RValue: 22 Rainfall: 48.3 dB

Assembly Components

Metal Roof 2" Fabral/Sentriguard 24 Gauge Standing System: Seam Metal Roof Deck

Insulation: 1.97" TOPROCK" DD

Coverboard: 0.63" GP Gypsum DensDeck"

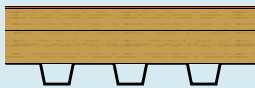
Insulation: 2.77" GAF" Polyisocyanurate

Flute Fill: 1.56" ROCKWOOL Flute Filler

Deck: 1.51" Fabral 22ga., Type B, Steel

STC
36

STC/OITC:
G3302.01-113-11-R1
Rainfall:
G3302.11-113-11-R0



RWT27

Acoustic and Thermal Performance

STC: 36 OITC: 28 RValue: 19 Rainfall: 44.2 dB

Assembly Components

Membrane: 0.05" Sarnafill" Sikaplan

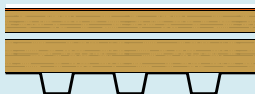
Insulation: 1.97" TOPROCK" DD

Insulation: 3.01" TOPROCK" DD

Deck: 1.51" Fabral 20ga., Type B, Steel

STC
37

STC/OITC:
G3302.02-113-11-R1
Rainfall:
G3302.12-113-11-R1



RWT28

Acoustic and Thermal Performance

STC: 37 OITC: 29 RValue: 19 Rainfall: 43.5 dB

Assembly Components

Membrane: 0.05" Sarnafill" Sikaplan

Insulation: 1.97" TOPROCK" DD

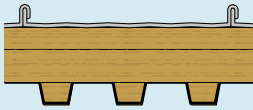
Mass Layer: 0.63" GP Gypsum DensDeck" Roof Board

Insulation: 3.01" TOPROCK" DD

Deck: 1.51" Fabral 22ga., Type B, Steel

STC
37

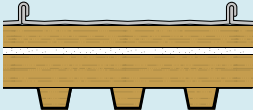
STC/OITC:
G3302.06-113-11-R1
Rainfall:
G3302.16-113-11-R0



RWT32

STC
38

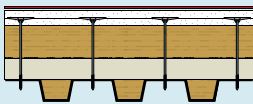
STC/OITC:
G3302.07-113-11-R1
Rainfall:
G3302.17-113-11-R0



RWT33

STC
38

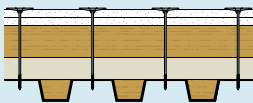
STC:
E7692.28-113-11-R0



RWT22

STC
39

STC:
E7692.24-113-11-R0



RWT21

Acoustic and Thermal Performance

STC: 37 OITC: 29 RValue: 19 Rainfall: 48.3 dB

Assembly Components

Metal Roof System: 2" Fabral/Sentriguard 24 Gauge Standing Seam Metal Roof Deck

Insulation: 1.97" TOPROCK" DD

Insulation: 3.01" TOPROCK" DD

Flute Fill: 1.56" ROCKWOOL Flute Filler

Deck: 1.51" Fabral22ga., Type B, Steel

Acoustic and Thermal Performance

STC: 38 OITC: 30 RValue: 19 Rainfall: 47.1 dB

Assembly Components

Metal Roof System: 2" Fabral/Sentriguard 24 Gauge Standing Seam Metal Roof Deck

Insulation: 1.97" TOPROCK" DD

Coverboard: 0.63" GP Gypsum DensDeck"

Insulation: 3.01" TOPROCK" DD

Flute Fill: 1.56" ROCKWOOL Flute Filler

Deck: 1.51" 22ga., Type B, Steel

Acoustic and Thermal Performance

STC: 38 OITC: 32 RValue: 21 Rainfall: N/A

Assembly Components

Membrane: 0.07" 0.34lb/sqft Single Ply Membrane (TPO, KEE, EPDM, PVC)

Securement: Fastening rate of 16/4"x8" Board

Coverboard: 2 x 5/8" GP DensDeck Prime Gypsum Board

Insulation: 1 - 3"x4"x4" TOPROCK" DD

Insulation: 1 - 2"x4"x8" Polyisocyanurate

Flute Fill: ROCKWOOL Flute Filler

Deck: 20ga., Type B, grade 80 Steel

Acoustic and Thermal Performance

STC: 39 OITC: 32 RValue: 21 Rainfall: N/A

Assembly Components

Securement: Fastening rate of 16/4"x8" Board

Coverboard: 2 - 5/8" GP DensDeck Prime Gypsum Board

Insulation: 1 - 3"x4"x4" TOPROCK" DD

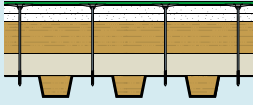
Insulation: 1 - 2"x4"x8" Polyisocyanurate

Flute Fill: ROCKWOOL Flute Filler

Deck: 20ga., Type B, grade 80 Steel

**STC
39**

STC:
E7692.23-113-11-R0



RWT23

Acoustic and Thermal Performance

STC: 39 OITC: 32 RValue: 21 Rainfall: N/A

Assembly Components

Membrane: 0.1" 0.715lb/sqft Single Ply Membrane (MOD-BIT)

Securement: Fastening rate of 16/4"x8" Board

Coverboard: 2 - 5/8" GP DensDeck Prime Gypsum Board

Insulation: 1 - 3"x4"x4" TOPROCK" DD

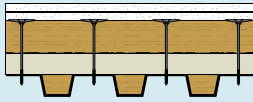
Insulation: 1 - 2"x4"x8" Polyisocyanurate

Flute Fill: ROCKWOOL Flute Filler

Deck: 20ga., Type B, grade 80 Steel

**STC
40**

STC:
E7692.26-113-11-R0



RWT24

Acoustic and Thermal Performance

STC: 40 OITC: 32 RValue: 21 Rainfall: N/A

Assembly Components

Coverboard: 1 - 5/8" GP DensDeck Prime Gypsum Board

Securement: Fastening rate of 16/4"x8" Board

Mass Layer: 1 - 5/8" GP DensDeck Prime Gypsum Board

Insulation: 1 - 3"x4"x4" TOPROCK" DD

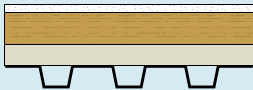
Insulation: 1 - 2"x4"x8" Polyisocyanurate

Flute Fill: ROCKWOOL Flute Filler

Deck: 20ga., Type B, grade 80 Steel

**STC
45**

STC:
E7692.15-113-11-R0



RWT13

Acoustic and Thermal Performance

STC: 45 OITC: 33 RValue: 21 Rainfall: N/A

Assembly Components

Coverboard: 1 - 5/8" GP DensDeck Prime Gypsum Board

Insulation: 1 - 3"x4"x4" TOPROCK" DD

Insulation: 1 - 2"x4"x8" Polyisocyanurate

Deck: 20ga., Type B, grade 80 Steel

STC RANGE

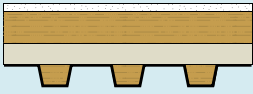
46 - 55

Roof Membranes

Unless otherwise indicated, all tests have been completed to be membrane agnostic.

STC
47

STC:
E7692.14-113-11-R0



RWT12

Acoustic and Thermal Performance

STC: 47 OITC: 35 RValue: 21 Rainfall: N/A

Assembly Components

Coverboard: 1 - 5/8" GP DensDeck Prime Gypsum Board

Insulation: 1 - 3"x4"x4" TOPROCK" DD

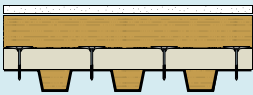
Insulation: 1 - 2"x4"x8" Polyisocyanurate

Flute Fill: ROCKWOOL Flute Filler

Deck: 20ga., Type B, grade 80 Steel

STC
47

STC:
E7692.28-113-11-R0



RWT26

Acoustic and Thermal Performance

STC: 47 OITC: 36 RValue: 21 Rainfall: N/A

Assembly Components

Coverboard: 1 - 5/8" GP DensDeck Prime Gypsum Board

Securement: Fastening rate of 16/4"x8" Board

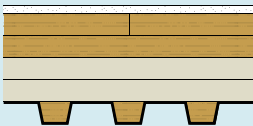
Insulation: 1 - 3"x4"x4" TOPROCK" DD

Insulation: 1 - 2"x4"x8" Polyisocyanurate

Flute Fill: ROCKWOOL Flute Filler

Deck: 20ga., Type B, grade 80 Steel

STC
48



RWT7

Acoustic and Thermal Performance

STC: 48 OITC: 35 RValue: 35 Rainfall: N/A

Assembly Components

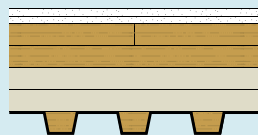
Coverboard: 1 - 5/8" GP DensDeck Prime Gypsum Board

Insulation: 2 - 2"x4"x4" TOPROCK" DD

Insulation: 2 - 2"x4"x8" Polyisocyanurate

Flute Fill: ROCKWOOL Flute Filler

Deck: 20ga., Type B, Grade 80 Steel

STC
48

RWT8

Acoustic and Thermal Performance

STC: 48 OITC: 37 RValue: 35 Rainfall: N/A

Assembly Components

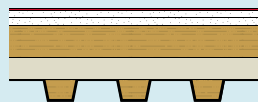
Coverboard: 2 - 5/8" GP DensDeck Prime Gypsum Board

Insulation: 2 - 2"x4"x4" TOPROCK" DD

Insulation: 2 - 2"x4"x8" Polyisocyanurate

Flute Fill: ROCKWOOL Flute Filler

Deck: 20ga., Type B, Grade 80 Steel

STC
48STC:
E7692.17-113-11-R0

RWT15

Acoustic and Thermal Performance

STC: 48 OITC: 37 RValue: 21 Rainfall: N/A

Assembly Components

Membrane: 0.07" 0.34lb/sqft Single Ply Membrane (TPO, KEE, EPDM, PVC)

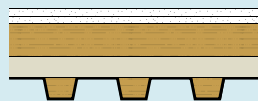
Coverboard: 2 - 5/8"x4"x4" USG SecureRock

Insulation: 1 - 3"x4"x4" TOPROCK" DD

Insulation: 1 - 2"x4"x8" Polyisocyanurate

Flute Fill: ROCKWOOL Flute Filler

Deck: 20ga., Type B, grade 80 Steel

STC
49STC:
E7692.27-113-11-R0

RWT14

Acoustic and Thermal Performance

STC: 49 OITC: 38 RValue: 21 Rainfall: N/A

Assembly Components

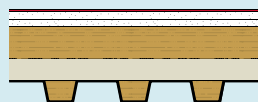
Coverboard: 2 - 5/8" GP DensDeck Prime Gypsum Board

Insulation: 1 - 3"x4"x4" TOPROCK" DD

Insulation: 1 - 2"x4"x8" Polyisocyanurate

Flute Fill: ROCKWOOL Flute Filler

Deck: 20ga., Type B, grade 80 Steel

STC
49STC:
E7692.20-113-11-R0

RWT18

Acoustic and Thermal Performance

STC: 49 OITC: 38 RValue: 21 Rainfall: N/A

Assembly Components

Membrane: 0.07" 0.34lb/sqft Single Ply Membrane (TPO, KEE, EPDM, PVC)

Coverboard: 2 - 5/8"x4"x4" GP DensDeck Prime

Insulation: 1 - 3"x4"x4" TOPROCK" DD

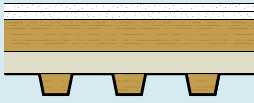
Insulation: 1 - 2"x4"x8" Polyisocyanurate

Flute Fill: ROCKWOOL Flute Filler

Deck: 20ga., Type B, grade 80 Steel

STC
49

STC:
E7692.16-113-11-R0



RWT20

Acoustic and Thermal Performance

STC: 49 OITC: 38 RValue: 21 Rainfall: N/A

Assembly Components

Coverboard: 2 - 5/8"x4"x4" USG SecureRock

Insulation: 1 - 3"x4"x4" TOPROCK" DD

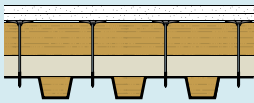
Insulation: 1 - 2"x4"x8" Polyisocyanurate

Flute Fill: ROCKWOOL Flute Filler

Deck: 20ga., Type B, grade 80 Steel

STC
49

STC:
E7692.22-113-11-R1



RWT25

Acoustic and Thermal Performance

STC: 49 OITC: 38 RValue: 21 Rainfall: N/A

Assembly Components

Coverboard: 2 - 5/8" GP DensDeck Prime Gypsum Board

Securement: Fastening rate of 16/4"x8" Board

Insulation: 1 - 3"x4"x4" TOPROCK" DD

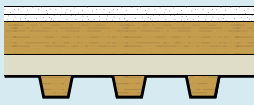
Insulation: 1 - 2"x4"x8" Polyisocyanurate

Flute Fill: ROCKWOOL Flute Filler

Deck: 20ga., Type B, grade 80 Steel

STC
50

STC:
E7692.19-113-11-R0



RWT17

Acoustic and Thermal Performance

STC: 50 OITC: 38 RValue: 21 Rainfall: N/A

Assembly Components

Coverboard: 2 - 5/8"x4"x4" GP DensDeck Prime

Insulation: 1 - 3"x4"x4" TOPROCK" DD

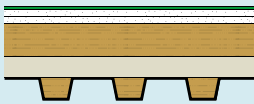
Insulation: 1 - 2"x4"x8" Polyisocyanurate

Flute Fill: ROCKWOOL Flute Filler

Deck: 20ga., Type B, grade 80 Steel

STC
50

STC:
E7692.21-113-11-R0



RWT19

Acoustic and Thermal Performance

STC: 50 OITC: 38 RValue: 21 Rainfall: N/A

Assembly Components

Membrane: 0.1" 0.715lb/sqft Single Ply Membrane (MOD-BIT)

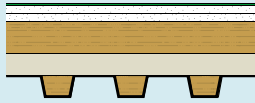
Coverboard: 2 - 5/8"x4"x4" GP DensDeck Prime

Insulation: 1 - 3"x4"x4" TOPROCK" DD

Insulation: 1 - 2"x4"x8" Polyisocyanurate

Flute Fill: ROCKWOOL Flute Filler

Deck: 20ga., Type B, grade 80 Steel

STC
50STC:
E7692.18-113-11-R0

RWT16

Acoustic and Thermal Performance

STC: 50 OITC: 39 RValue: 21 Rainfall: N/A

Assembly Components

Membrane: 0.1" 0.715lb/sqft Single Ply Membrane (MOD-BIT)

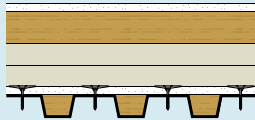
Coverboard: 2 - 5/8"x4"x4" USG SecureRock

Insulation: 1 - 3"x4"x4" TOPROCK" DD

Insulation: 1 - 2"x4"x8" Polyisocyanurate

Flute Fill: ROCKWOOL Flute Filler

Deck: 20ga., Type B, grade 80 Steel

STC
51STC:
E7692.02-113-11-R0

RWT10

Acoustic and Thermal Performance

STC: 51 OITC: 38 RValue: 31 Rainfall: N/A

Assembly Components

Coverboard: 1 - 5/8" GP DensDeck Prime Gypsum Board

Insulation: 1 - 3"x4"x4" TOPROCK" DD

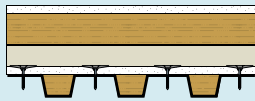
Insulation: 2 - 2"x4"x8" Polyisocyanurate

Securement: Fastening rate of 16/4"x8" Board

Mass Layer: 1 - 5/8" GP DensDeck Gypsum Board

Flute Fill: ROCKWOOL Flute Filler

Deck: 20ga., Type B, grade 80 Steel

STC
51STC:
E7692.13-113-11-R0

RWT11

Acoustic and Thermal Performance

STC: 51 OITC: 39 RValue: 31 Rainfall: N/A

Assembly Components

Coverboard: 1 - 5/8" GP DensDeck Prime Gypsum Board

Insulation: 1 - 3"x4"x4" TOPROCK" DD

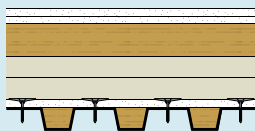
Insulation: 1 - 2"x4"x8" Polyisocyanurate

Securement: Fastening rate of 16/4"x8" Board

Mass Layer: 1 - 5/8" GP DensDeck Gypsum Board

Flute Fill: ROCKWOOL Flute Filler

Deck: 20ga., Type B, grade 80 Steel

STC
53STC:
E7692.01-113-11-R1

RWT9

Acoustic and Thermal Performance

STC: 53 OITC: 40 RValue: 31 Rainfall: N/A

Assembly Components

Coverboard: 2 - 5/8" GP DensDeck Prime Gypsum Board

Insulation: 1 - 3"x4"x4" TOPROCK" DD

Insulation: 2 - 2"x4"x8" Polyisocyanurate

Securement: Fastening rate of 16/4"x8" Board

Mass Layer: 1 - 5/8" GP DensDeck Gypsum Board

Flute Fill: ROCKWOOL Flute Filler

Deck: 20ga., Type B, grade 80 Steel

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