Rated acoustic assembly catalog

Roof insulation
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

### Acoustic and Thermal Performance

<table>
<thead>
<tr>
<th>STC</th>
<th>OITC</th>
<th>RValue</th>
<th>Rainfall</th>
</tr>
</thead>
<tbody>
<tr>
<td>37</td>
<td>29</td>
<td>19</td>
<td>48.3 dB</td>
</tr>
</tbody>
</table>

### Assembly Components

<table>
<thead>
<tr>
<th>Metal Roof System</th>
<th>Insulation</th>
<th>Flute Fill</th>
<th>Deck</th>
</tr>
</thead>
<tbody>
<tr>
<td>2” Fabral/Sentriguard 24 Gauge Standing Seam Metal Roof Deck</td>
<td>1.97” TOPROCK” DD</td>
<td>1.56” ROCKWOOL Flute Filler</td>
<td>1.51” Fabral22ga., Type B, Steel</td>
</tr>
</tbody>
</table>
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
Roof Membranes

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

### STC RANGE

#### 25 - 35

**Acoustic and Thermal Performance**

<table>
<thead>
<tr>
<th>STC</th>
<th>OITC</th>
<th>RValue</th>
<th>Rainfall</th>
</tr>
</thead>
<tbody>
<tr>
<td>26</td>
<td>21</td>
<td>23</td>
<td>54.4 dB</td>
</tr>
</tbody>
</table>

**Assembly Components**

- **Membrane**: 0.05" Sarnafil® Sikaplan
- **Insulation**: 1.85" GAF® Polyisocyanurate
- **Insulation**: 2.77" GAF® Polyisocyanurate
- **Deck**: 1.51" Fabral 22ga., Type B, Steel

### STC 29

**Acoustic and Thermal Performance**

<table>
<thead>
<tr>
<th>STC</th>
<th>OITC</th>
<th>RValue</th>
<th>Rainfall</th>
</tr>
</thead>
<tbody>
<tr>
<td>29</td>
<td>23</td>
<td>23</td>
<td>55.7 dB</td>
</tr>
</tbody>
</table>

**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

**Acoustic and Thermal Performance**

<table>
<thead>
<tr>
<th>STC</th>
<th>OITC</th>
<th>RValue</th>
<th>Rainfall</th>
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</thead>
<tbody>
<tr>
<td>31</td>
<td>25</td>
<td>23</td>
<td>49.4 dB</td>
</tr>
</tbody>
</table>

**Assembly Components**

- **Membrane**: 0.05" Sarnafil® 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

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ROCKWOOL Rated Roof Assemblies Catalog
Acoustic and Thermal Performance

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

Assembly Components
- Metal Roof: 2” Fabral/Sentriguard 24 Gauge Standing Seam Metal Roof Deck
- Insulation: 1.85” GAF® Polyisocyanurate
- Mass Layer: 0.63” GP Gypsum DensDeck®
- Flute Fill: 1.56” ROCKWOOL Flute Filler
- Deck: 1.51” Fabral 22ga., Type B, Steel

Acoustic and Thermal Performance

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

Assembly Components
- Membrane: 0.05” Sarnafil® 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.

Acoustic and Thermal Performance

<table>
<thead>
<tr>
<th>STC</th>
<th>OITC</th>
<th>RValue</th>
<th>Rainfall</th>
</tr>
</thead>
<tbody>
<tr>
<td>36</td>
<td>27</td>
<td>22</td>
<td>44.3 dB</td>
</tr>
</tbody>
</table>

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

Acoustic and Thermal Performance

<table>
<thead>
<tr>
<th>STC</th>
<th>OITC</th>
<th>RValue</th>
<th>Rainfall</th>
</tr>
</thead>
<tbody>
<tr>
<td>36</td>
<td>28</td>
<td>19</td>
<td>43.5 dB</td>
</tr>
</tbody>
</table>

Assembly Components

- Membrane: 0.05" Sarnafill Sikaplan
- Insulation: 1.97" TOPROCK DD
- Insulation: 3.01" TOPROCK DD
- Deck: 1.51" Fabral 22ga., Type B, Steel

Acoustic and Thermal Performance

<table>
<thead>
<tr>
<th>STC</th>
<th>OITC</th>
<th>RValue</th>
<th>Rainfall</th>
</tr>
</thead>
<tbody>
<tr>
<td>37</td>
<td>29</td>
<td>19</td>
<td>44.2 dB</td>
</tr>
</tbody>
</table>

Assembly Components

- Membrane: 0.05" Sarnafill Sikaplan
- Insulation: 1.97" TOPROCK DD
- Insulation: 3.01" TOPROCK DD
- Deck: 1.51" Fabral 22ga., Type B, Steel
<table>
<thead>
<tr>
<th>STC</th>
<th>STC/OITC:</th>
<th>Acoustic and Thermal Performance</th>
<th>Assembly Components</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>37</strong></td>
<td>G3302.06-113-11-R1</td>
<td>STC: 37 OITC: 29 RValue: 21 Rainfall: 48.3 dB</td>
<td>Metal Roof System: 2&quot; Fabral/Sentriguard 24 Gauge Standing Seam Metal Roof Deck</td>
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<tr>
<td><strong>38</strong></td>
<td>G3302.07-113-11-R1</td>
<td>STC: 38 OITC: 30 RValue: 19 Rainfall: 47.1 dB</td>
<td>Metal Roof System: 2&quot; Fabral/Sentriguard 24 Gauge Standing Seam Metal Roof Deck</td>
</tr>
<tr>
<td><strong>38</strong></td>
<td>E7692.28-113-11-R0</td>
<td>STC: 38 OITC: 32 RValue: 21 Rainfall: N/A</td>
<td>Membrane: 0.07&quot; 0.34lb/sqft Single Ply Membrane (TPO, KEE, EPDM, PVC)</td>
</tr>
<tr>
<td><strong>39</strong></td>
<td>E7692.24-113-11-R0</td>
<td>STC: 39 OITC: 32 RValue: 21 Rainfall: N/A</td>
<td>Membrane: 0.07&quot; 0.34lb/sqft Single Ply Membrane (TPO, KEE, EPDM, PVC)</td>
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</tbody>
</table>
**Acoustic and Thermal Performance**

**STC: 39**  
E7692.23-113-11-R0

**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

**Acoustic and Thermal Performance**

**STC: 40**  
E7692.26-113-11-R0

**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

**Acoustic and Thermal Performance**

**STC: 45**  
E7692.15-113-11-R0

**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
Roof Membranes

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

**Acoustic and Thermal Performance**

<table>
<thead>
<tr>
<th>STC</th>
<th>Acoustic and Thermal Performance</th>
<th>Assembly Components</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Insulation: 1 - 3&quot;x4&quot;x4&quot; TOPROCK® DD</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Insulation: 1 - 2&quot;x4&quot;x8&quot; Polyisocyanurate</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Flute Fill: ROCKWOOL Flute Filler</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Deck: 20ga., Type B, grade 80 Steel</td>
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</tbody>
</table>

**Acoustic and Thermal Performance**

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<tr>
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</tr>
<tr>
<td></td>
<td></td>
<td>Insulation: 1 - 2&quot;x4&quot;x8&quot; Polyisocyanurate</td>
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<tr>
<td></td>
<td></td>
<td>Flute Fill: ROCKWOOL Flute Filler</td>
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<tr>
<td></td>
<td></td>
<td>Deck: 20ga., Type B, grade 80 Steel</td>
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</tbody>
</table>

**Acoustic and Thermal Performance**

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<tr>
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<th>Assembly Components</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Insulation: 2 - 2&quot;x4&quot;x4&quot; TOPROCK® DD</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Insulation: 2 - 2&quot;x4&quot;x8&quot; Polyisocyanurate</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Flute Fill: ROCKWOOL Flute Filler</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Deck: 20ga., Type B, Grade 80 Steel</td>
</tr>
</tbody>
</table>
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

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
### Acoustic and Thermal Performance

<table>
<thead>
<tr>
<th>Assembly Components</th>
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<tbody>
<tr>
<td><strong>Coverboard:</strong></td>
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<td><strong>Insulation:</strong></td>
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<tr>
<td><strong>Insulation:</strong></td>
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<tr>
<td><strong>Flute Fill:</strong></td>
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<tr>
<td><strong>Deck:</strong></td>
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</table>

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

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### Acoustic and Thermal Performance

<table>
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<th>Assembly Components</th>
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<tr>
<td><strong>Coverboard:</strong></td>
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<tr>
<td><strong>Flute Fill:</strong></td>
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<tr>
<td><strong>Deck:</strong></td>
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</table>

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

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### Acoustic and Thermal Performance

<table>
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<tbody>
<tr>
<td><strong>Coverboard:</strong></td>
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<td><strong>Insulation:</strong></td>
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<tr>
<td><strong>Insulation:</strong></td>
</tr>
<tr>
<td><strong>Flute Fill:</strong></td>
</tr>
<tr>
<td><strong>Deck:</strong></td>
</tr>
</tbody>
</table>

**STC:** 50  
**OITC:** 38  
**RValue:** 21  
**Rainfall:** N/A
**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: 1 - 2"x4"x8" Polyisocyanurate  
Flute Fill: ROCKWOOL Flute Filler  
Deck: 20ga., Type B, grade 80 Steel

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**Acoustic and Thermal Performance**

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

**Assembly Components**

Coverboard: 2 - 5/8"x4"x4" TOPROCK® DD  
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

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

**Assembly Components**

Coverboard: 2 - 5/8"x4"x4" TOPROCK® DD  
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
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 approx. 10,500 passionate colleagues in 38 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 & offshore.

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