Smooth-textured Optima® panels provide excellent acoustical absorption and more standard-size options than any other texture in the line.

**KEY SELECTION ATTRIBUTES**
- **DESIGNFlex™** options include shapes and made-to-order sizes available to ship in 3 weeks
- Optima® PB panels are part of the Sustain® portfolio, and meet the most stringent sustainability compliance standards today
- Smooth, clean, durable finish – Washable, Impact-resistant, Scratch-resistant, Soil-resistant
- Items with PB suffix are manufactured with a plant-based binder
- Outstanding acoustical performance for open plan areas, both Articulation Class (180-200) and NRC (0.90-1.00)
- Energy-saving high light-reflective finish
- Non-directional visual reduces scrap and installation time
- Sag-resistant large-size panels
- Compatible with TechZone® Ceiling Systems
- Item 3352 available with Create!™ printed images and patterns
- 30-Year Limited System Warranty against visible sag, mold, and mildew
- 10-Year replacement panel available for items 3152, 3153

**COLOR**
- White (WH)

**DETAILS**
1. Optima® Square Lay-in
2. Optima® Square Lay-in with Prelude® 15/16” suspension system
**OPTIMA® Square Lay-in**

**Profile**

<table>
<thead>
<tr>
<th>Item</th>
<th>Dimensions (inches)</th>
<th>Weight; Square Feet/Carton</th>
</tr>
</thead>
<tbody>
<tr>
<td>1462</td>
<td>4 x 48 x 1”</td>
<td>0.44 lbs/SF; 128 SF/ctn</td>
</tr>
<tr>
<td>1463</td>
<td>4 x 60 x 1”</td>
<td>0.44 lbs/SF; 128 SF/ctn</td>
</tr>
<tr>
<td>1400</td>
<td>6 x 48 x 1”</td>
<td>0.44 lbs/SF; 128 SF/ctn</td>
</tr>
<tr>
<td>1404</td>
<td>6 x 60 x 1”</td>
<td>0.44 lbs/SF; 128 SF/ctn</td>
</tr>
<tr>
<td>3156</td>
<td>20 x 60 x 1”</td>
<td>0.45 lbs/SF; 96 SF/ctn</td>
</tr>
<tr>
<td>3150</td>
<td>24 x 24 x 3/4”</td>
<td>0.45 lbs/SF; 96 SF/ctn</td>
</tr>
<tr>
<td>3152</td>
<td>24 x 24 x 1”</td>
<td>0.47 lbs/SF; 100 SF/ctn</td>
</tr>
<tr>
<td>3159</td>
<td>24 x 24 x 1 1/2”</td>
<td>0.61 lbs/SF; 64 SF/ctn</td>
</tr>
</tbody>
</table>

**Material**

- 3150, 3156, 3159, 1462, 1463, 1400, 1404, 3152 – Fiberglass with DuraBrite® acoustically transparent membrane 3352 – Fiberglass with DuraBrite® acoustically transparent membrane; CAC backing
- Surface Finish: DuraBrite® with factory-applied latex paint

**Fire Performance**

- ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 50 or less. Smoke Developed Index 25 or less. Smoke Developed Index 25 or less (UL labeled).
- ASTM E1264 Classification Type XII, Form 2, Pattern E Fire Class A

**Humidity/Sag Resistance**

- HemiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to and including, standing water and outdoor applications.

**Mold/Mildew Protection**

- Ceiling panels with BioBlock® resist the growth of mold and mildew.

**VOC Emissions**

- (PB suffix items only)
- GREENGUARD Gold Certified
- This product has been UL validated to be Formaldehyde-Free.
- UL COM/ECV

**Primary (Embodied) Energy**

- See all LCA information on our EPDs.

**High Recycled Content**

- Contains greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

**Acoustical Details**

- Some items have CAC backing. CAC backing may be available as a special order. A CAC value of 37 can be achieved by backloading fiberglass products with item 769 or 770.

**Insulation Value**

- 1400, 1404, 1462, 1463, 3152, 3156, 3352 – R Factor – 4.0 (BTU units)
- R Factor – 0.70 (Watts units)
- 3150 – R Factor – 3.0 (BTU units)
- R Factor – 0.53 (Watts units)
- 3159 – R Factor – 6.0 (BTU units)
- R Factor – 1.05 (Watts units)

**Application Consideration**

- Do not mix Optima panels and Optima® Health Zone™ panels in the same room.

**30-Year Performance Guarantee & Warranty**

When installed with Armstrong® Suspension System. Details at armstrongceilings.com

**More Items**

**SUSPENSION SYSTEMS**

**15/16”**

Prelude®

**Blizzard White** – Suspension System Finish

- A color and texture coordinated suspension system to complement Optima® ceiling panels for a monolithic look and feel.

**TechLine 877 276-7876**

armstrongceilings.com/commercial
**VISUAL SELECTION**

<table>
<thead>
<tr>
<th>Edge Profile</th>
<th>Susp. Dwg. Pgs. 474-478</th>
<th>Item No.</th>
<th>Dimensions (Inches)</th>
<th>OPTIMA® Square Lay-in</th>
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<tbody>
<tr>
<td>15/16&quot; Square Lay-in</td>
<td>3151</td>
<td>24 x 48 x 3/4&quot;</td>
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<tr>
<td>1</td>
<td>3151PB</td>
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<tr>
<td>1</td>
<td>3153</td>
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<tr>
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<td>3153PB</td>
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<tr>
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<tr>
<td>1</td>
<td>3155</td>
<td>24 x 48 x 1-1/2&quot;</td>
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<td>1</td>
<td>3356</td>
<td>24 x 48 x 1-1/2&quot;</td>
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<tr>
<td>1</td>
<td>3164</td>
<td>24 x 60 x 3/4&quot;</td>
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<td>1</td>
<td>3161</td>
<td>24 x 72 x 3/4&quot;</td>
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<td>1</td>
<td>3162</td>
<td>24 x 96 x 3/4&quot;</td>
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</tr>
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<td>3158</td>
<td>30 x 30 x 1&quot;</td>
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<td>3157</td>
<td>30 x 60 x 1&quot;</td>
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</tr>
<tr>
<td>1</td>
<td>3160PB</td>
<td>48 x 48 x 1&quot;</td>
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<td></td>
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<td>1</td>
<td>3154</td>
<td>48 x 96 x 1&quot;</td>
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**PERFORMANCE SELECTION**

<table>
<thead>
<tr>
<th>UL Classified Acoustics</th>
<th>Fire Performance</th>
<th>Light Reflect</th>
<th>Mold &amp; Mildew Protection</th>
<th>Sag Resistance</th>
<th>Recycled Content</th>
<th>Recycle Program</th>
<th>30-Yr Warranty</th>
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<tbody>
<tr>
<td>0.00 N/A – 180</td>
<td>Class A 0.90</td>
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<tr>
<td>0.00 26 – 200</td>
<td>Class A 0.90</td>
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<td>1.00 N/A – 200</td>
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</tr>
</tbody>
</table>

1 Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product. Optima items with the PB suffix are included in the Sustain® portfolio and carry Declare™ certification.
DuraBrite scrim with factor membrane; CAC backing acoustically transparent

SUSPENSION SYSTEMS Blizzard White – Suspension System Finish
A color and texture coordinated suspension system to complement Optima® ceiling panels for a monolithic look and feel.

**OPTIMA® Size Capabilities**

<table>
<thead>
<tr>
<th>Edge Profile</th>
<th>Dimensions (Inches)</th>
<th>Weight; Square Feet/Carton</th>
<th>Metric Items Available</th>
<th>Recycled Content</th>
<th>Recycled Program</th>
<th>Material Warranty</th>
</tr>
</thead>
<tbody>
<tr>
<td>15/16” Square Lay-in</td>
<td>Made-to-Order Sizes (3 Wks)</td>
<td>3151 – 0.44 lbs/SF; 128 SF/ctn</td>
<td>3155, 3158M, 3154M, 3155M, 3158M, 3151M, 3153M, 3153PB, 3160, 3160PB – 0.45 lbs/SF; 96 SF/ctn</td>
<td>N/A N/A – N/A Class A 0.90 • • • • • • •</td>
<td>N/A N/A – N/A Class A 0.90 • • • • • • •</td>
<td>3155, 3356 – 0.47 lbs/SF; 75 SF/ctn</td>
</tr>
<tr>
<td>Non-PB 3/4” Thick</td>
<td>4” – 5-1/2” 9” – 60” 6” – 11-1/2” 6” – 60” 12” – 30-1/2” 4” – 96” 31” – 48” 4” – 30”</td>
<td>N/A N/A – N/A Class A 0.90 • • • • • • •</td>
<td>N/A N/A – N/A Class A 0.90 • • • • • • •</td>
<td>3151, 3151PB – 0.44 lbs/SF; 128 SF/ctn</td>
<td>N/A N/A – N/A Class A 0.90 • • • • • • •</td>
<td>R Factor – 6.0 (BTU units)</td>
</tr>
<tr>
<td>Non-PB 1” Thick</td>
<td>4” – 5-1/2” 9” – 72” 6” – 11-1/2” 6” – 72” 12” – 42-1/2” 4” – 114” 43” – 48” 4” – 120”</td>
<td>N/A N/A – N/A Class A 0.90 • • • • • • •</td>
<td>N/A N/A – N/A Class A 0.90 • • • • • • •</td>
<td>3153 – 0.45 lbs/SF; 128 SF/ctn</td>
<td>N/A N/A – N/A Class A 0.90 • • • • • • •</td>
<td>R Factor – 1.05 (Watts units)</td>
</tr>
<tr>
<td>Non-PB 1-1/2” Thick</td>
<td>4” – 5-1/2” 9” – 77” 6” – 11-1/2” 6” – 77” 12” – 42-1/2” 4” – 114” 43” – 48” 4” – 120”</td>
<td>N/A N/A – N/A Class A 0.90 • • • • • • •</td>
<td>N/A N/A – N/A Class A 0.90 • • • • • • •</td>
<td>3154 – 0.45 lbs/SF; 128 SF/ctn</td>
<td>N/A N/A – N/A Class A 0.90 • • • • • • •</td>
<td>R Factor – 3.0 (BTU units)</td>
</tr>
<tr>
<td>PB 1” Thick</td>
<td>4” – 5-1/2” 9” – 72” 6” – 11-1/2” 6” – 72” 12” – 42-1/2” 4” – 96” 25” – 30-1/2” 4” – 60” 31” – 48”</td>
<td>N/A N/A – N/A Class A 0.90 • • • • • • •</td>
<td>N/A N/A – N/A Class A 0.90 • • • • • • •</td>
<td>3157 – 0.56 lbs/SF; 100 SF/ctn</td>
<td>N/A N/A – N/A Class A 0.90 • • • • • • •</td>
<td>R Factor – 4.0 (BTU units)</td>
</tr>
</tbody>
</table>

**PHYSICAL DATA**

Material
3153, 3155, 3158 – Fiberglass with DuraBrite® acoustically transparent membrane 3353, 3356 – Fiberglass with DuraBrite acoustically transparent membrane; CAC backing

Surface Finish
Durable scrim with factory-applied latex paint

Fire Performance
ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled).

ASTM E1264 Classification
Type X, Form 1, Pattern E Fire Class A

Humidity/Sag Resistance
HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity; up to, but not including, standing water and outdoor applications.

Mold/Mildew Protection
Ceiling panels with BioBlock® resist the growth of mold and mildew.

VOC Emissions
(PB suffix items only)
GREENGUARD Gold Certified
This product has been UL validated to be Formaldehyde-Free.
UL, LCM®

Primary (Embodied) Energy
See all LCA information on our EPDs.

High Recycled Content
Contains greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

Acoustical Details
Some items have CAC backing. CAC backing may be available as a special order. A CAC value of 37 can be achieved by backloading fiberglass products with item 769 or 770.

Insulation Value
Insulation Value
[Table of Insulation Values]

**CO2-footprint**

[Table of CO2-footprint]

**Recycled Content**

[Table of Recycled Content]

**Recycled Program**

[Table of Recycled Program]

**Material Warranty**

[Table of Material Warranty]

**R Factor**

[Table of R Factor]

**Insulation**

[Table of Insulation]

**LEED**

[Table of LEED]

** Declare**

[Table of Declare]

**LEED®** is a registered trademark of the U.S. Green Building Council.