TECTUM® Direct-Attach
Ceiling & Wall Panels
coarse texture

**TECTUM® Direct-Attach**

**TYPICAL APPLICATIONS**
- Gymnasiums
- Auditoriums
- Multi-purpose Spaces
- Exposed Structures
- Acoustical Retrofits
- Education Spaces
- Covered Exterior Applications* (1-1/2" and 2" thick panels only)
- Indoor Swimming Pools* (1-1/2" and 2" thick panels only)
* Must maintain 1" air gap behind panel

**KEY SELECTION ATTRIBUTES**
- Now you can install 1" thick Tectum® on Trusses and I-Beams for added acoustics while maintaining an exposed structure visual on the deck
- Tectum panels are Living Product Imperative Certified by the International Living Future Institute – 1" panels in White and Natural only
- Tectum panels are part of the Sustain® portfolio and meet the most stringent sustainability compliance standards today – 1" panels in White and Natural only
- Now, long edges beveled, short edges beveled available as a standard option
- Great retrofit solution for noise reduction
- Excellent noise absorption – NRC up to 0.85 (1" panel, C-40 Mounting)
- USDA Certified Biobased Product, 98%
- Can be field painted up to 6 times without impacting acoustic or fire performance
- Variety of made-to-order color options available
- Can be mechanically fastened to a wide variety of surfaces including masonry, drywall, wood, trusses, I-Beams, and more

**COLORS** Due to printing limitations, shade may vary from actual product.
- White (TWH)
- Natural (TNA)
- Custom Colors Available

**DETAILS**
1. Tectum® Direct-Attach Panel in White
2. Tectum® Direct-Attach Panels in White

NOTE: Standard panel edges are unfinished. Painted panel edges available through special order. Custom color panel edges are fully painted.

**LINE DESIGN CAPABILITIES**
Max panel size for line designs is 2' x 4'. Custom line designs available. Contact Architectural Specialties for more information.

- Diagonal Right Line-Design Panel
- Diagonal Left Line-Design Panel
- Horizontal Line-Design Panel
- V-cut Rout Panel Side View
- Diamond Line-Design Panel
- Vertical Line-Design Panel
- Grid Line-Design Panel
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VISUAL SELECTION

<table>
<thead>
<tr>
<th>Edge Profile</th>
<th>Item No.</th>
<th>Dimensions Nominal W x L x H (Inches)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Long Edges Beveled</td>
<td>8182T10 ...</td>
<td>23-3/4 x 48 x 1&quot;</td>
</tr>
<tr>
<td>Short Edges Square</td>
<td>8181T10 ...</td>
<td>23-3/4 x 96 x 1&quot;</td>
</tr>
<tr>
<td>Short Edges Beveled</td>
<td>8180T10 ...</td>
<td>47-3/4 x 96 x 1&quot;</td>
</tr>
<tr>
<td>Long Edges Beveled</td>
<td>8175T10 ...</td>
<td>23-3/4 x 48 x 1&quot;</td>
</tr>
<tr>
<td>Short Edges Beveled</td>
<td>8174T10 ...</td>
<td>23-3/4 x 96 x 1&quot;</td>
</tr>
<tr>
<td>Short Edges Beveled</td>
<td>8173T10 ...</td>
<td>47-3/4 x 96 x 1&quot;</td>
</tr>
<tr>
<td>Other Size Panels</td>
<td></td>
<td>W 23-3/4&quot; – 48&quot; L: 12&quot; – 144&quot; 1&quot;, 1-1/2&quot;, or 2&quot; thickness</td>
</tr>
</tbody>
</table>

When specifying or ordering, include the appropriate 3-digit color suffix TNA = Natural; TWH = White (e.g. 8187L16 T W H). * NOTE: Four-sided beveled edge panels are recommended in adjoining panel installations.

PERFORMANCE SELECTION

<table>
<thead>
<tr>
<th>Panel Thickness</th>
<th>Mounting Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>1&quot;</td>
<td>A</td>
</tr>
<tr>
<td>1-1/2&quot;</td>
<td>A</td>
</tr>
<tr>
<td>2&quot;</td>
<td>A</td>
</tr>
</tbody>
</table>

ACOUSTICAL INFORMATION

<table>
<thead>
<tr>
<th>Panel Thickness</th>
<th>Mounting Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.40</td>
<td>A</td>
</tr>
<tr>
<td>0.45</td>
<td>D-20</td>
</tr>
<tr>
<td>0.80</td>
<td>C-20</td>
</tr>
<tr>
<td>0.85</td>
<td>C-40</td>
</tr>
<tr>
<td>0.55</td>
<td>A</td>
</tr>
<tr>
<td>0.60</td>
<td>D-20</td>
</tr>
<tr>
<td>0.90</td>
<td>C-20</td>
</tr>
<tr>
<td>0.95</td>
<td>C-40</td>
</tr>
<tr>
<td>0.60</td>
<td>A</td>
</tr>
<tr>
<td>0.70</td>
<td>D-20</td>
</tr>
<tr>
<td>0.95</td>
<td>C-20</td>
</tr>
<tr>
<td>1.00</td>
<td>C-40</td>
</tr>
</tbody>
</table>

ACCESSORIES

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Description</th>
<th>Quantity</th>
<th>Item No.</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>122</td>
<td>Truss Fastening Kit – Field Paintable 20/ctn</td>
<td>8187L16 ...</td>
<td>#6 x 1-5/8&quot; Painted Head – Sharp point Screws 1000/ctn</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1222WH</td>
<td>Truss Fastening Kit White 20/ctn</td>
<td>8188L16 ...</td>
<td>#6 x 1-5/8&quot; Painted Head – Drill point Screws 1000/ctn</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1222BL</td>
<td>Truss Fastening Kit Black 20/ctn</td>
<td>8189L22 ...</td>
<td>2-1/4&quot; Painted Head – CMU Screws 500/ctn</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

When specifying or ordering, include the appropriate 3-digit color suffix TNA = Natural; TWH = White (e.g. 8187L16 T W H). Consult installation instructions for fastener guidance.

NOTE: Projects may require alternative screw lengths and types depending on site conditions. Please consult installation instructions for guidance.

ACOUSTICAL MOUNTING METHODS

DIRECT-TO-DECK – CEILINGS & WALLS

DRYWALL GRID SYSTEM MOUNTING METHOD

Direct-Attach
I-Beam Installation

Truss Installation

I-Beam and Truss Installation

PHYSICAL DATA

Material
FSC® Certified
Cementitious Wood Fiber; FSC-certified (COC-003601).
For more information about FSC®-certified fire-retardant products, or to view our FSC®-certification letter, contact TechLine at 1 877 276-7876.

Surface Finish
Factory-applied latex paint with Silicate surface coating for abuse resistance. Natural is unpainted.

Fire Performance
Class A per IRC. Flame Spread Index 25 or less and Smoke Developed Index 50 or less when tested in accordance with ASTM E84.

CAN/ULC S102 surface burning characteristics, Flame Spread Index of 25 or less and Smoke Developed Index of 50 or less.

VOC Emissions

Tectum® panels meet CDPH guidelines in enclosed office at 50% wall coverage. View certificate details at armstrongceilings.com/tectum.

Humidity/Sag Resistance
HumilStar® Plus performance 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® performance resist the growth of mold and mildew.

Installation Considerations
Panels must be mechanically attached to approved substrate per installation instructions. To achieve proper finished visual characteristics of the wood on White and Natural panels. Four-sided beveled edge panels should be installed in adjoining panel installations.

Use caution and wear appropriate hand, eye, and dust mask protection when cutting and installing Tectum panels. Refer to installation instructions for complete details and cutting recommendations.

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

Application Considerations
Color variation among panels is common due to the natural characteristics of the wood on White and Natural panels. Wood fibers may appear orange on Natural colored panels due to the characteristics of the wood.

Max Panel Size

Max Truss Width

4" Max Truss Width

4" Sharp Point Screws

Max Truss Width

Weight, Pcs and SF/Pallet

<table>
<thead>
<tr>
<th>Weight, lbs/SF/Pallet</th>
<th>Pcs/Pallet</th>
<th>SF/Pallet</th>
</tr>
</thead>
<tbody>
<tr>
<td>1&quot;</td>
<td>1,152</td>
<td>72</td>
</tr>
<tr>
<td>1-1/2&quot;</td>
<td>1,152</td>
<td>72</td>
</tr>
<tr>
<td>2&quot;</td>
<td>572</td>
<td>72</td>
</tr>
</tbody>
</table>

Design Considerations
For walls that may experience condensation or moisture, such as uninsulated exterior walls, D- or C-mounting is required to create a gap between the structure and the panel. Max panel size for Truss and I-Beam application is 2' x 4' x 1'.

Design Support
Project management assistance is available by calling TechLine at 1 877 276-7876.

Seismic Restraint
Tectum Direct-Attach panels are approved for application in all seismic areas when installed per the seismic guidelines in the Armstrong Ceilings Installation Instructions.

Warranty
30-Year Warranty. Details at armstrongceilings.com

For LEED contribution visit armstrongceilings.com/greengenie

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