Tectum® I structural acoustic roof deck provides excellent sound absorption, a thermal barrier for field-applied foam plastics, and is compatible with a wide variety of insulation and roofing materials.

**KEY SELECTION ATTRIBUTES**
- Sound absorption—NRC up to 0.80
- R-value up to 6
- Spans up to 6 feet
- 50-pound design load
- Diaphragm shear up to 542 dsn/lf
- Nailable surface
- Low slope applications

**TYPICAL APPLICATIONS**
- Schools
- Gymnasiums
- Arenas

**TECTUM® I PLANK**
Using tongue-and-groove (T&G) edges, Tectum® I Plank can achieve spans of up to four feet.

**TECTUM® I Long Span Plank (LS)**
The Long-Span Plank adds a 16-gauge steel channel to the standard plank and allows for spans of up to six feet.

**TECTUM® I Tile**
With either tongue-and-groove or square ends, Tectum® I Tile is grouted to steel bulb tees and allows for spans of up to 10 feet.
### TECTUM® I ROOF DECK DESIGN LOAD DATA

<table>
<thead>
<tr>
<th>System</th>
<th>Thickness</th>
<th>Wt. (Lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plank</td>
<td>2&quot;</td>
<td>3.5</td>
</tr>
<tr>
<td></td>
<td>2-1/2&quot;</td>
<td>4.5</td>
</tr>
<tr>
<td></td>
<td>3&quot;</td>
<td>5.3</td>
</tr>
<tr>
<td>Long Span</td>
<td>2&quot;</td>
<td>3.8</td>
</tr>
<tr>
<td>Plank</td>
<td>2-1/2&quot;</td>
<td>4.7</td>
</tr>
<tr>
<td></td>
<td>3&quot;</td>
<td>5.5</td>
</tr>
</tbody>
</table>

For loads greater than 200 lbs., contact Armstrong TechLine.

¹ Thickness and weight are nominal.

### TECTUM® I DIAPHRAGM DESIGN DATA

**Call for assistance when designing and detailing Tectum® Roof Deck Systems**

#### Type
- **Plank**: 3 x 31 x 96"
- **LS**: 2-1/2 x 31 x 120" or 3 x 31 x 144" or 2 x 31 x 96"
- **Tile**: 2 x 23-1/2 x 143" or 2 x 31-1/2 x 95" or 2 x 31-1/2 x 96" or Tile & Grout 2 x 31-1/2 x 96"

#### Panel Size D x W x L
- **Joint**: 48" S-25/2" Washer
- **Fasteners**: 3/Joist/Panel 16" o.c.
- **Field Spacing**: 2/Joist/Panel 10" o.c. sides + ends
- **Perimeter**: 2/Joist/Panel 12" o.c. sides + ends
- **Grout**: No
- **Adhesive**
- **ULT/LF**: 825
- **DSN/LF**: 275
- **Wt. (Lbs)**: 1350

### TECTUM® PRODUCTS AND LEED®

- **Armstrong® Tectum Roof Deck products may contribute to the following LEED V4 credit areas**: Energy & Atmosphere (EA) – Minimum Energy Performance
  - Optimize Energy Performance
- **Materials & Resources (MR)**
  - Construction Waste Management
  - Regional Materials
  - Building Life Cycle Reduction
  - Interiors Life Cycle Reduction
  - Building Disclosure and Optimization – Environmental Product Declaration
  - Building Disclosure and Optimization – Sourcing of Raw Materials
  - Building Disclosure and Optimization – Material Ingredients

### MORE INFORMATION

For more information, or for an Armstrong Building Solutions representative, call 1 877 276 7876. For complete technical information, detail drawings, CAD design assistance, installation information, and many other technical services, call TechLine customer support at 1 877 276 7876 or email techline@armstrongceilingsolutions.com.

For the latest product selection and specification data, visit armstrongbuildingsolutions.com/tectum.

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**TECHNICAL INNOCUITY**

- Made with wood fibers (excelsior) from self-propagating Wisconsin Aspen trees
- All Wisconsin Aspen used for Tectum® products is air-dried and aged naturally
- No chemicals are used to produce excelsior purchased by Armstrong Building Solutions
- All excelsior used in Tectum products comes from a single source that is Forest Stewardship Council (FSC) certified
- The magnesium sulfate binder has been manufactured on site by reclaiming waste materials since production first began in 1849
- The secondary binder is composed of sodium silicate and calcium carbonate (limestone)
- All water used in the manufacture of Tectum products is captured and recycled
- Have Environmental Product Declarations (EPDs) which tell you the impact of the products
- Have Health Product Declarations (HPDs) which tell you what’s in the products
- Are free of Red List chemicals per Living Building Challenge 3.0 (including no added formaldehyde)

**Declare sustainability and environmental benefit for Tectum Roof Deck products**

**FSC and LBL Credit Statements**

- Declare the LBL Credit Statements for Tectum Products

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