Tectum® III & Tectum® IIIP
Structural Acoustical Roof Deck

Three-in-One Composite Roof Deck Panels provide acoustics, insulation, and a nailable surface that accepts a wide variety of roofing materials.

KEY SELECTION ATTRIBUTES
- Sound absorption—NRC up to 0.60
- R-value up to 44
- Spans up to 8 feet
- 50-pound design load
- Diaphragm shear up to 786 dsn/lf
- Nailable surface
- Low or high slope applications

Tectum® III
The Tectum® III roof deck panel is a composite of a 1-1/2” or thicker Tectum substrate, Styrofoam™ brand XPS (extruded polystyrene) insulation 1-1/2” to 8” thick and 7/16” OSB (Oriented Strand Board) sheathing with a slip-resistant surface. Tectum III panels are typically used in sloped applications where insulation, ease of installation, and a nailable surface are required.

Tectum® IIIP
Tectum® IIIP roof deck is made of the same components as Tectum III, but with an edge detail specifically designed for use over high-humidity applications such as swimming pools and ice arenas. The detail, when properly sealed with urethane adhesive, provides for a continuous vapor retarder from panel to panel in all directions. Tectum IIIP provides optimal insulation and a nailable surface for high-humidity environments.

TechLine 877 276-7876
armstrongbuildingsolutions.com/tectum
## TECTUM® III & TECTUM® IIIP ROOF DECK DESIGN LOAD DATA

| System Thickness (PSF) | Panel | Joist | Span | Fasteners | Perimeter | Adhesive
|------------------------|-------|-------|------|-----------|-----------|----------
| 3-1/2"                 | Wood  | 60"   | 6" 14-Gauge Sip Scr | 3/Joist/Panel 12" o.c. sides + ends | T&G + Joist | None 1093 363
| 4"                    | Wood  | 72"   | 6" 14-Gauge Sip Scr | 3/Joist/Panel 12" o.c. sides + ends | T&G + Joist | None 1068 355
| 5"                    | Wood  | 72"   | 6" 14-Gauge Sip Scr | 3/Joist/Panel 12" o.c. sides + ends | T&G + Joist | None 964 320
| 5-1/2"                 | Wood  | 72"   | 6" 14-Gauge Sip Scr | 3/Joist/Panel 12" o.c. sides + ends | T&G + Joist | None 2363 786
| 10"                   | Steel | 96"   | 00-3-14 3-1/2" x 14GA/1-1/2" w | 3/Joist/Panel 12" o.c. sides + ends | Joist Long Edge | 939 312

### 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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## TECTUM® III & TECTUM® IIIP THERMAL PERFORMANCE

<table>
<thead>
<tr>
<th>Foam Thickness</th>
<th>Total Thickness</th>
<th>R-Value</th>
<th>Weight PSF</th>
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<td>10&quot;</td>
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</table>

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## TECTUM® III & TECTUM® IIIP DIAPHRAGM DESIGN DATA

For assistance when designing and detailing Tectum® Roof Deck Systems.

### TECTUM® PRODUCTS – SUSTAINABLY MADE
- 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 1949
- 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

### 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 – Sourcing of Raw Materials
- Indoor Environmental Quality (EQ)
  - Acoustic Performance

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**MATERIALS**: TECTUM®

[For full specification data and LEED® credits, visit armstrongbuildingsolutions.com/tectum.](armstrongbuildingsolutions.com/tectum)