

TECTUM® V

Structural Acoustical Roof Deck



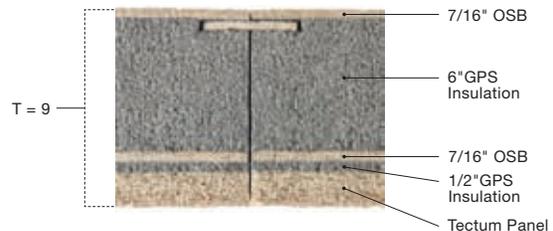
Three-in-One Composite Roof Deck Panels provide acoustics, insulation, and a nailable surface that accepts a wide variety of roofing materials.

KEY SELECTION ATTRIBUTES

- Excellent noise absorption – NRC up to 0.60
- R-value up to 36
- Spans up to 12 feet
- 50-pound design load
- Diaphragm shear up to 417 dsn/lf
- Nailable surface
- Low or high slope applications

TYPICAL APPLICATIONS

- Schools
- Gymnasiums
- Arenas



TECTUM® V

Tectum® V Roof Deck Panels are recognized for use in Type I and II construction where fire-retardant-treated wood is allowed in accordance with IBC Section 603.1 (1). The 1-1/2" Tectum substrate provides a 15 minute barrier for foam plastics (Per ICC-ES Evaluation Report ESR-1112). During shipping, storage, installation and use, this material should not be exposed to flame or other ignition sources. NEOPOR® GPS insulation contains a flame retardant additive to inhibit accidental ignition from small fire sources.

The GPS core exceeds the requirements of ASTM C-578 Type I and bears the UL classification mark.



LOCATION DEPENDENT

THICKNESS DEPENDENT

TECTUM® V

Structural Acoustical Roof Deck design guidelines

TECTUM® V ROOF DECK DESIGN LOAD DATA

System	Thickness ¹	Wt. (PFS) ¹	96"	108"	120"	132"	144"
Comp. Plank V	9"	6.0	112	88	72	59	50

For loads greater than 200 lbs., contact Armstrong TechLine.
¹ Thickness and weight are nominal.

TECTUM® V THERMAL PERFORMANCE

Panel Thickness	Insulating Foam Thickness	Total ¹ Thickness	R-Value ²	Weight PSF
1-1/2"	6-1/2"	9"	36.11	6.0

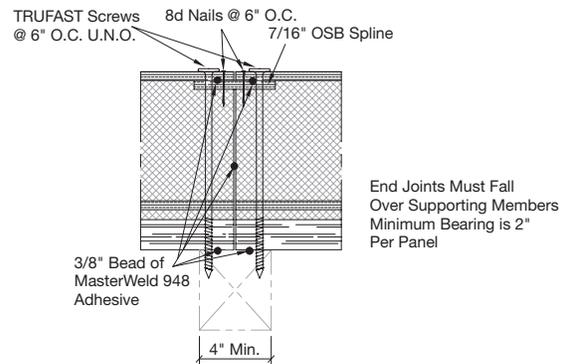
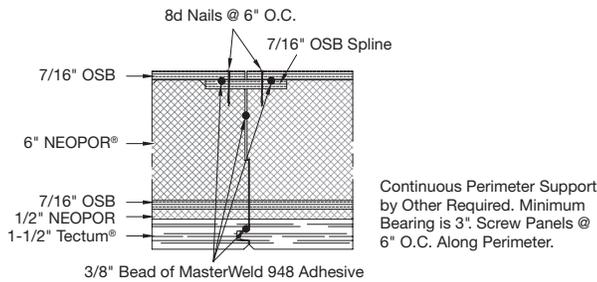
¹ Total thickness includes two layers of 7/16" OSB.
² R-values include air films and built-up roofing.

TECTUM® V DIAPHRAGM DESIGN DATA Call for assistance when designing and detailing Tectum® Roof Deck Systems

Type	Panel Size D x W x L	Joist	Span ²	Fasteners	Field Spacing	Perimeter	Adhesive ¹	Grout	ULT/LF	DSN/LF
Plank	9 x 47 x 144"	Wood	144"	11" 14-Gauge Sip Scr	7/Joist/Panel	6" o.c. sides + ends	T&G + Joist + Spline	None	1251	417

¹ Adhesive is to meet the requirements of AFG-01. A 3/8" bead of adhesive is to be used. Approximately 38 linear feet of adhesive per quart tube. Specific adhesive used on test assemblies was MasterWeld 948. Miracle® SFA-66 adhesive cannot be used with Tectum V.
² Values over wood joists are conservative compared to values over steel.

TECTUM® V EDGE DETAILS



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

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

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.