TECTUM® V

Structural Acoustical Roof Deck



Tectum V Acoustical Roof Deck panels; Lemberg Children's Center at Brandeis University, Waltham, MA

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 36
- Spans up to 12 feet
- 50-pound design load
- Diaphragm shear up to 417 dsn/lf
- Nailable surface

new

- Low or high slope applications
- This product can be adjusted to comply with Build America, Buy America (BABA) requirements. Modifications to pricing and lead times may apply. Contact your local sales representative for additional information.

TYPICAL APPLICATIONS

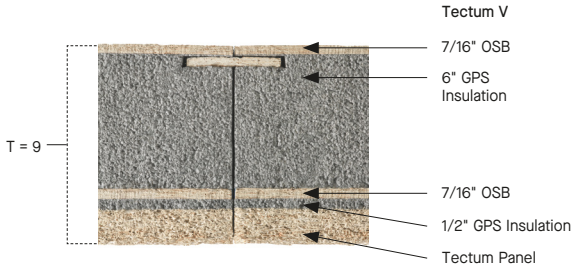
- Schools
- Gymnasiums
- Arenas

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. GPS (graphite polystyrene) 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.





TechLine 877 276-7876
armstrong.com/roofdeck

Armstrong® World Industries

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LEED V5

COMMON MATERIALS FRAMEWORK	Climate Health
Human Health	Ecosystem Health
	Circular Economy
OCCUPANT EXPERIENCE	Acoustics ✓

DESIGN LOAD DATA[1]

System	Thickness[2]	Wt. (PFS)[2]	96"	108"	120"	132"	144"
Plank	9"	6.0	112	88	72	59	50

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

THERMAL PERFORMANCE

Based on 1-1/2" Tectum Substrate

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

[1] Total thickness includes 7/16" OSB nailable top surface.
[2] R-values include air films and built-up roofing.

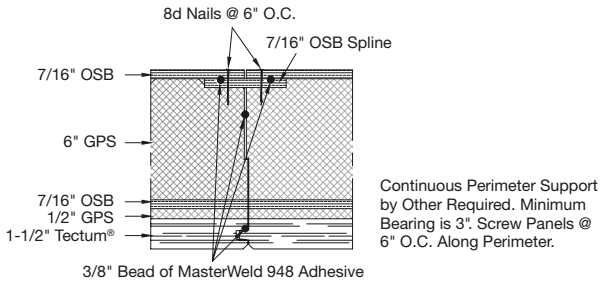
DIAPHRAGM DESIGN DATA

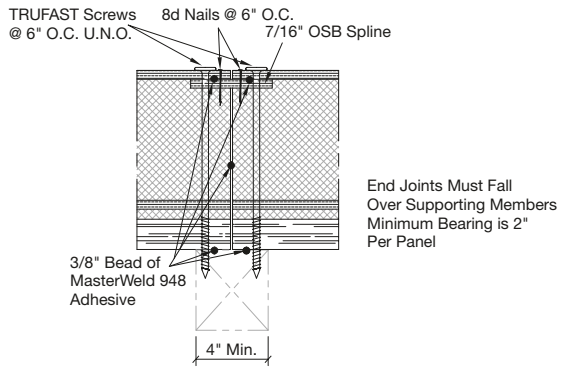
Call TechLine for assistance when designing and detailing Tectum® Roof Deck Systems

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

[1] Values over wood joists are conservative compared to values over steel.
[2] Adhesive is to meet the requirements of AFG-01. A 3/8" bead of adhesive is to be used. Approximately 50 linear feet of adhesive per quart tube. Specific adhesive used on test assemblies was Miracle® SFA-66 adhesive.

EDGE DETAILS





SUSTAINABILITY INFORMATION

- 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
- 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

ADDITIONAL DETAILS

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

For the latest product selection and specification data, visit armstrong.com/roofdeck.

COMPOSITE ROOF DECK PANELS

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