TECTUM® IIIP

Structural Acoustical Roof Deck



Tectum IIIP 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 0.80
- R-value up to 44
- Spans up to 6 feet
- 50-pound design load
- Diaphragm shear up to 786 DSN/LF
- Nailable surface
- 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.

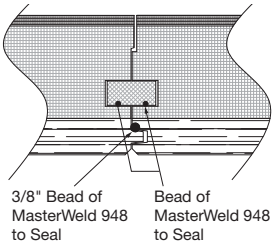
TYPICAL APPLICATIONS

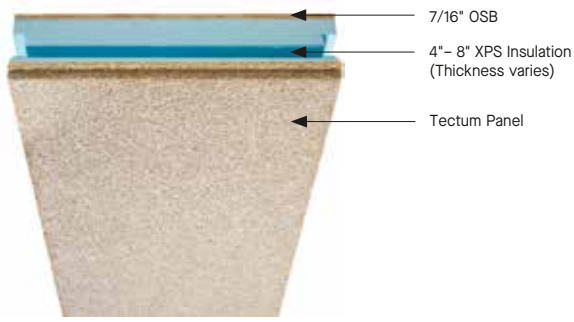
- High Humidity Areas
- Natatoriums
- Ice Arenas

TECTUM® IIIP

Tectum IIIP roof deck is made of the same components as Tectum III, but features an edge detail specifically designed for use over high-humidity applications such as natatoriums and ice arenas. When properly sealed with urethane adhesive, this detail 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.

TECTUM IIIP END JOINT





TechLine 877 276-7876
armstrongceilings.com/roofdeck

Armstrong® World Industries

TECTUM® IIIP

Structural Acoustical Roof Deck

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]	24"	30"	36"	38"	40"	42"	44"	48"	50"	52"	54"	60"	66"	72"
Plank	6", 7"	4.8, 4.9								200	180	170	160	120	125	105
	8", 9", 10"	5.1, 5.3, 5.4												200	165	136

For loads greater than 200 lbs., contact Armstrong TechLine.
[1] Contact Armstrong when designing high-humidity environments such as natatoriums and ice arenas.
[2] 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
4"	6"	24.36	4.8
5"	7"	29.36	5.0
6"	8"	34.36	5.4
7"	9"	39.36	5.8
8"	10"	44.36	6.2

[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	3-1/2 × 47 × 120"	Wood	60"	6" 14-Gauge Sip Scr	3/Joist/ Panel	12" O.C. sides + ends	T&G + Joist	None	1093	363
	3-1/2 × 47 × 144"	Wood	72"	6" 14-Gauge Sip Scr	3/Joist/ Panel	12" O.C. sides + ends	T&G + Joist	None	1068	355
	5 × 47 × 144"	Wood	72"	6" 14-Gauge Sip Scr	3/Joist/ Panel	12" O.C. sides + ends	T&G + Joist	None	964	320
Plank/ Overlay	5 × 47 × 144"	Wood	72"	6" 14-Gauge Sip Scr/1-1/2" w	6/Joist/ Panel	6" O.C. sides + ends	T&G + Joist	None	2363	786
	7/16 × 48 × 144"	OSB	N/A	2" × 16-Gauge Staples	8" @ 24" Centers	4" O.C. sides + ends	Per & 24" O.C.	None	2363	786
Tile	3-1/2 × 47-1/2 × 96"	Steel	96"	000-3-14 3-1/2"+ 14GA/1-1/2" w	3/Joist/ Panel	12" O.C. sides + ends	Joist	Long Edge	939	312

[1] Values over wood joists are conservative compared to values over steel.
[2] Adhesive must meet the requirements of AFG-01. A 3/8" bead of adhesive is to be used.

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@armstrongceilings.com.

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

COMPOSITE ROOF DECK PANELS

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