

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

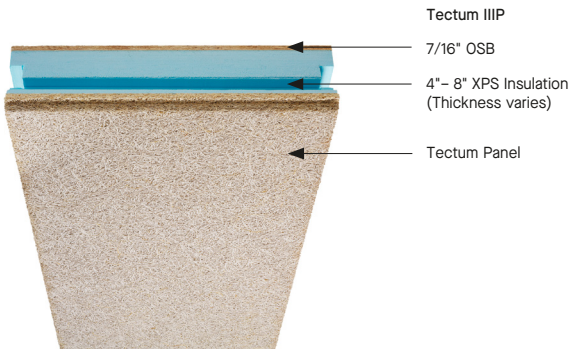
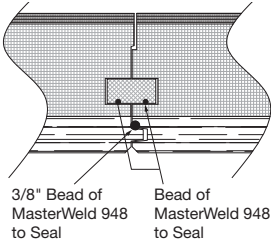
TYPICAL APPLICATIONS

- High Humidity Areas
- Swimming Pools
- Ice Arenas

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.

TECTUM IIIP END JOINT



TECTUM® IIIP

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LEED V5

COMMON MATERIALS FRAMEWORK

Human Health

Climate Health

Ecosystem Health

Circular Economy

OCCUPANT EXPERIENCE

Acoustics



DESIGN LOAD DATA¹

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 pools 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 is to 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.

TechLine / 877 276-7876
armstrongceilings.com/roofdeck
 BPRD-1046-1225

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COMPOSITE ROOF DECK PANELS