

TECTUM I Structural-Acoustical Roof Deck

Tectum I Roof Deck has been used in schools, arenas and large public spaces for over 65-years. The superior acoustic absorption of Tectum I is foundational to the success of all Tectum Roof Deck products. Tectum I can achieve an NRC of up to .80.

Typically used in low slope applications, Tectum I provides a thermal barrier for field-applied foam plastics. It is compatible with virtually all roof insulation and membranes. The interior exposed joints have attractive beveled edges.

Tectum I Plank

- Using tongue and groove (T&G) edges, Tectum I Plank can achieve spans of up to four feet.

Tectum I Long-Span Plank (LS)

- The Long-Span Plank adds a 16-gauge steel channel to the standard plank and allows for spans of up to six feet.

Tectum I Tile

- With either tongue and groove or square ends, Tectum I Tile is grouted to steel bulb tees and allows for spans of up to ten feet.



East Valley Boys and Girls Club - Tempe, AZ

Tectum I Plank



Available Thicknesses:
2", 2 1/2" and 3"

Standard Widths:
31" and 47"

Standard Lengths:
48" to 144" in
one inch increments

Custom Widths and
Length available
upon request.

Panel size determined by
joist spacing and span.



P.O. Box 3002
Newark, OH 43058

TECTUM ROOF DECK DESIGN GUIDELINES

TECTUM I ROOF DECK DESIGN LOAD DATA

System	Thickness ¹	Wt. (PFS) ¹	24"	30"	36"	38"	40"	42"	44"	48"	50"	52"	54"	60"	66"	72"
Plank	2"	3.5	130	75	50	45	40	35								
	2 1/2"	4.5	150	120	80	70	60	50	45	35						
	3"	5.3	200	125	102	91	82	74	65	50	45	40	35			
Long Span Plank	2"	3.8	130	75	75	75	70	64	57	50	45	40	35			
	2 1/2"	4.7	150	120	120	120	114	103	93	77	70	65	60	50	35	
	3"	5.5	200	125	125	125	125	120	115	110	104	96	88	71	58	50

For loads greater than 200 lbs., contact Tectum Inc.

¹Thickness and weight are nominal.

TECTUM I THERMAL PERFORMANCE

PANEL THICKNESS	R-VALUE*	WEIGHT PSF
2"	3.68	3.7
2 1/2"	4.56	4.7
3"	6.43	6.2

* R-Value includes air films

ENVIRONMENTAL INFORMATION

TECTUM PRODUCTS' COMPOSITION

The wood fibers (excelsior) used in Tectum panels come from Wisconsin aspen trees. The Wisconsin aspen is a self-propagating tree. When cut, a new tree will begin to grow back from its root structure. In addition, all Wisconsin Aspen used for Tectum is air-dried. No drying kilns are used. The wood is stored in ranks to age naturally. No chemicals are used in the production of any excelsior purchased by Tectum Inc.

All excelsior used in Tectum products comes from a single source that is Forest Stewardship Council certified. These programs are a comprehensive system of objectives and performance measures that integrate the perpetual growing and harvesting of trees with the protection of wildlife, plants, soil and water quality. All loggers are trained to adhere to FSC principles.

Magnesium oxide is mixed with magnesium sulfate (Epsom salts) to form the primary binder. The magnesium sulfate solution has been manufactured on site by reclaiming waste materials since production began in 1949. The secondary binder is composed of sodium silicate and calcium carbonate (limestone). All of the water used in the manufacture of Tectum is captured and recycled.

MORE INFORMATION

For complete information about Tectum products and LEED, please see our Marketing Bulletins M-81 (Tectum Products and LEED Certification) and M-83 (Tectum Products and LEED Q & A) or our Environmental Statement. All of these materials are available online at tectum.com/leed.

TECTUM PRODUCTS AND LEED

Tectum Inc. fully endorses the LEED Green Building Rating System. Our products may contribute to the following LEED credit areas:

Energy & Atmosphere (EA)

Prerequisite 2: Minimum Energy Performance

Credit 1: Optimized Energy Performance

Materials & Resources (MR)

Credit 2: Construction Site Waste Management

Credit 4: Recycled Content

Credit 5: Regional Materials

Credit 6: Rapidly Renewable Resources

Credit 7: Certified Wood

Indoor Environmental Quality (EQ)

Prerequisite 3 (LEED for Schools):

Minimum Acoustical Performance

Credit 3.1 & 3.2: Construction IAQ Plans

Credit 4.1: Low-Emitting Materials,

Adhesives and Sealants

Credit 4.4: Low-Emitting Materials,

Composite Wood & Agrifiber Products

Credit 10 (LEED for Schools): Mold Prevention

Credit 11 (LEED for Schools): Low-Impact Cleaning and Maintenance Equipment Policy

Innovation (ID)

Credit 1: Innovation in Design