

# ARCHATRAK STRUCTURAL WOOD TILES



Archatrak structural wood tiles offer a cost effective solution for building solid wood raised decks over sloping or uneven exterior surfaces, including rooftops, courtyards, terraces, patios and balconies for both residential and commercial applications.



These 24" x 24" (nom.) prefabricated panels are constructed of 13/16" thick Ipe wood slats screwed to three wood support battens with stainless steel screws, creating a tile with exceptional strength, durability and resistance to flexing.

Archatrak structural wood tiles are specifically designed for installation over pedestal support systems, either fixed height rubber pads (low elevation) or adjustable screw-jack pedestals (higher elevation). They should not be laid directly over hard surfaces without using such support pads or pedestals.

## WHY IPE WOOD

- high resistance to termites, decay and mold
- very hard and dense
- wear resistant and scuff resistant
- Class A fire rating
- high resistance to warping and twisting
- weathers without splintering
- lower maintenance than softer wood species

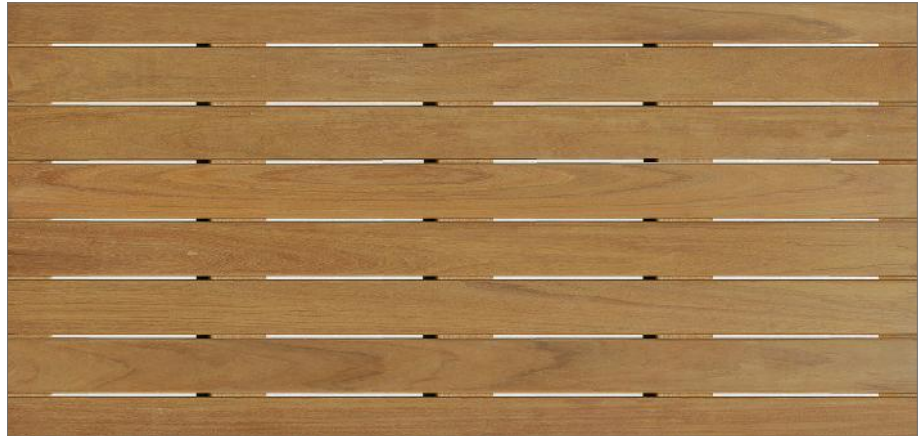
## STANDARD TILE SIZE

24" Ipe Tile - Smooth Surface



IPE-24SMTH-8SL 23 7/8" x 23 7/8"

48" Ipe Tile- Smooth Surface



IPE-48SMTH-8SL

23 7/8" x 47 7/8"

## IPE WOOD PROPERTIES

We offer the option of tiles using Ipe wood sourced either from forests in Bolivia operating under government controlled forestry management practices or from forests in Peru supplied under FSC Chain of Custody (certification details supplied on request).

Property	Specification
Common name	Ipe
Botanical name	Tabebuia sp.
Color	Typically reddish brown, but can vary from olive brown to blackish
Grain	Fine to medium texture with interlocked grain
Density @ 12% moisture	1050-1180 kg/m <sup>3</sup>
Durability	Class 1 (min. 25 years life)
Fire rating	Class A
Hardness (Janka)	3680 (very hard)
Resistance to decay	Resistant to attack by decay fungi and termites
Modulus of rupture	170 MPa
Modulus of elasticity	21 GPa
Maximum crushing strength	94 MPa
Shrinkage	7% tangential, 6% radial 1.2 tangential/radial shrinkage ratio

## TILE SPECIFICATIONS

Property	Specification
Standard tile size	23 7/8" x 23 7/8" 23 7/8" x 47 7/8"
Tile height	1 11/16"
Wood thickness	13/16"
Slats per tile	8 (std.)
Width of slats	2 7/8"
Slat spacing	3/16" approx.
Ends & sides finish	S4S E4E (radius 1/8")
Tile weight	23.5lb. (48" tile 47lb.)
Surface finish	Ends waxed – tiles not coated with oil



## WIND UPLIFT

Testing undertaken by Archatrak at the Florida International University Hurricane Research Center indicated that blow off of Archatrak 24" x 24" structural Ipe wood tiles installed on fixed height pedestals with a 12" parapet did not occur until wind speeds reached 130 mph.

Nevertheless, for additional security, Archatrak structural wood tiles are constructed with a slot cut in each corner enabling a special screw and washer component (ETE-IPE-SCREW) to be inserted in the slot and invisibly screwed to the top of the pedestal without damaging the wood surface, to "lock down" the tiles to the pedestal.