

# ARCHITREX STRUCTURAL WOOD TILES



Architrex 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.

Architrex 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 bending and shearing strength
- ♦ 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

Common name  
 Botanical name  
 Color  
 Grain  
 Density @ 12% moisture  
 Durability  
 Fire rating  
 Hardness (Janka)  
 Resistance to decay  
 Modulus of rupture  
 Modulus of elasticity  
 Maximum crushing strength  
 Shrinkage

### Specification

Ipe  
 Tabebuia sp.  
 Typically reddish brown, but can vary from olive brown to blackish  
 Fine to medium texture with interlocked grain  
 1050-1180 kg/m<sup>3</sup>  
 Class 1 (min. 25 years life)  
 Class A  
 3680 (very hard)  
 Resistant to attack by decay fungi and termites  
 170 MPa  
 21 GPa  
 94 MPa  
 7% tangential, 6% radial  
 1.2 tangential/radial shrinkage ratio

## TILE SPECIFICATIONS

### Property

Standard tile size  
  
 Tile height  
 Wood thickness  
 Slats per tile  
 Width of slats  
 Slat spacing  
 Ends & sides finish  
 Tile weight  
 Surface finish

### Specification

23 7/8" x 23 7/8"  
 23 7/8" x 47 7/8"  
 1 11/16"  
 13/16"  
 8 (std.)  
 2 7/8"  
 3/16" approx.  
 S4S E4E (radius 1/8")  
 23.5lb. (48" tile 47lb.)  
 Ends waxed - tiles not coated with oil



## WIND UPLIFT

Testing undertaken by Architrex at the Florida International University Hurricane Research Center indicated that blow off of Architrex 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, Architrex 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.