

HANDYDECK STRUCTURAL WOOD TILES



HandyDeck 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.

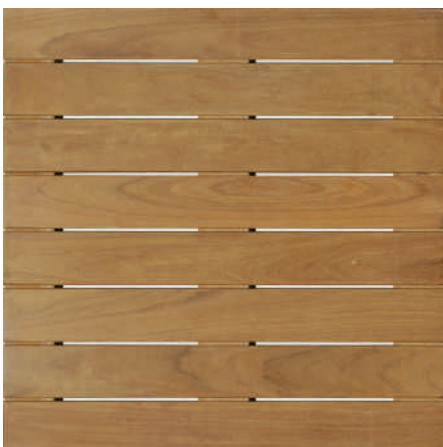
HandyDeck structural wood tiles are specifically designed for installation over pedestal support systems, either fixed height rubber pads (low elevation) or adjustable screw-jack pedestals (higher elevation). They should not be laid directly over hard surfaces without using such support pads or pedestals.

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/m³
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 HandyDeck at the Florida International University Hurricane Research Center indicated that blow off of HandyDeck's 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, HandyDeck 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.