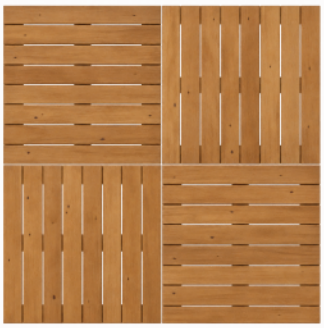
Archatrak Itauba Wood Structural Tiles

ITAUBA WOOD STRUCTURAL TILES

Prefabricated structural wood tiles constructed with Itauba wood slats secured to three solid Itauba support battens using stainless steel screws. Designed for installation on adjustable-height pedestal supports or fixed height rubber pads to create elevated decks without conventional wood or steel joist systems.



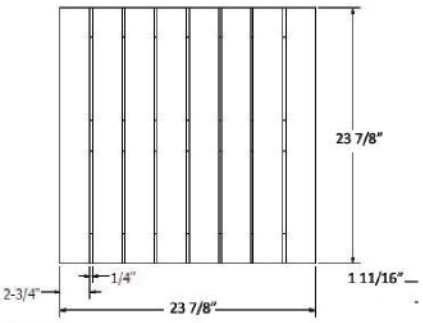
- No conventional wood or steel joist system required
- Dense, durable tropical hardwood for exterior applications
- Class 1 natural durability
- Cost-effective alternative to Ipe
- Available in 24" x 24" tiles
- FSC® certified and 24" x 48" tiles are available by special order

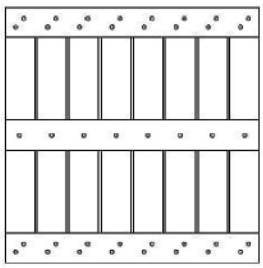
Specifications

PROPERTY	ITAUBA WOOD TILES
Finish	Smooth
Overall Height	1 11/16"
Slat Thickness	13/16"
Width of Slats	2 7/8"
Slats per Tile	8
Slat Spacing	3/16" approx.
Screws	Stainless steel*
Ends & Sides Finish	S4S E4E, radius 1/8"*
Surface Treatment	Raw / uncoated, wax-treated slat ends
Weight	4.25–4.75 lb/sq. ft.
Warranty	3 years

Itauba Wood Properties

Specific gravity	0.86
Natural durability (Fungi)	Class 1 – Very Durable
Static bending strength	125 MPa
Modulus of elasticity	21,020 MPa
Crushing strength	62 MPa
Tangential shrinkage	9.7%
Radial shrinkage	3.7%
Termite resistance	Class D, Durable





TILE-ITAUBA-24x24

Surface Finish

Archatrak Itauba wood tiles are supplied in a natural, unfinished state, with no factory-applied oils or preservatives. Itauba contains naturally occurring oils, and the ends of the slats are wax-treated to help minimize checking and cracking. Variations in color, grain and surface appearance should be expected. Darker spots caused by minerals in the wood will be visible.

When exposed to sunlight and weather, unfinished Itauba will gradually develop a natural grey patina. A penetrating exterior hardwood oil may be applied to help maintain the original wood color. Ensure any treatment used is suitable for dense tropical hardwoods and compatible with adjacent roofing materials.

The deck should be designed to provide adequate drainage and prevent prolonged contact between the wood tiles and standing water.

Wax Treatment of Slat Ends

A wax coating is applied to the ends of Itauba wood slats during manufacturing to help reduce checking and cracking. Under certain conditions, particularly prolonged exposure to heat and sunlight, some wax may migrate onto the adjacent wood surface and create temporary color variations.

Applying a suitable exterior hardwood oil after installation may help minimize the appearance of these variations and slow the natural greying process.

Pedestal Installation

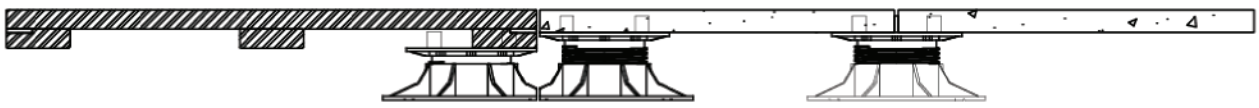
Archatrak Itauba wood tiles are designed for installation on pedestal supports to construct elevated decks. Installations should maintain adequate air circulation beneath the tiles and prevent prolonged contact with standing water.

Solid edge restraint is required on all sides of the deck. Tiles should be positioned firmly against the spacer tabs on the pedestal heads, with no space exceeding 3/16" between the edge of the tiles and restraining walls or other perimeter restraints.

Itauba Tile Transition to Porcelain Pavers

Archatrak Itauba wood tiles can be installed alongside 2cm porcelain pavers where compatible tile and paver dimensions are used. Pedestal heights are adjusted to compensate for the difference in thickness between the wood tiles and porcelain pavers while maintaining a level finished surface.

With Archatrak Premier pedestals, the cut sides of the bases of adjacent pedestals should be positioned facing each other.



Cutting

If tiles need to be cut, remove any screws located in the path of the proposed cut before cutting the tile. The structural integrity of any cut tile must be maintained. Depending on the location of the cut, one or more support battens may need to be repositioned and reattached to the slats from the underside of the tile.

Drill and countersink additional holes as necessary when reinstalling screws. Apply an appropriate exterior hardwood end sealer to freshly cut slat ends to help minimize checking or cracking, taking care to avoid applying sealer to the exposed tile surface.

Wind Uplift Considerations

For projects where additional wind uplift resistance is required, Archatrak structural Itauba wood tiles can be mechanically secured to the supporting pedestals using a specialized screw and washer assembly.

A slot cut into each corner of the tile enables the screw and washer assembly to engage the tile and fasten to the center of the pedestal head without penetrating the exposed wood surface. This creates a concealed connection between the tile and pedestal.

Solid perimeter restraint at walls, parapets or other deck boundaries is also required.

Installation

Place the pedestal beneath the corners of the adjacent tiles and adjust the pedestal to the required height.

Move the pedestal slightly away from the tiles and insert the fastening screw into the center of the pedestal head.

Using a Pozidriv #2 bit, turn the screw until the washer is level with the slots in the tiles. Push the pedestal back into position so the spacer tabs butt firmly against the tiles and the washer engages the corner slots.

