Elevations™ Roof Deck and Tile Systems

THE SYSTEM

Roof Decks and other poorly ventilated deck applications present a unique set of challenges for a designer and or builder.

Iron Woods® Elevations™ Deck Tiles were developed to provide a stable wood deck surface for poorly ventilated roof decks, they are the ideal solution for any deck construction where there is a lack of good ventilation.

When constructing a roof deck the designer must take into account many factors. The need to create a level deck on a sloped surface, effective drainage, roof access for maintenance, typically poor underdeck ventilation, variable load requirements, the possible integration of green roof systems and installed system costs. Iron Woods® Elevations™ Self-Leveling Pedestals, Deck Tiles, and Conventional Deck systems provide unique and cost effective solutions for the construction of both roof top and conventional decks.

Iron Woods® Elevations™ Deck Tiles also provide a Simple, Elegant, Unique and High Value alternative to traditional decking to new deck construction. Simply double the joists (the lowest cost item in your deck construction) at 24” on center and lay the prefabricated deck tiles in a mosaic or linear pattern and fasten to joists with one screw or screw and plug per corner. That's one screw per square foot of decking which represents a significant installation labor and material cost compared with conventional decking applications.

WHAT ARE INSTALLERS SAYING? * The Elevations Adjustable Self Leveling Pedestal saves us 30 to 40% in installation labor because of the UNIQUE FEATURES that no other pedestal has!
Iron Woods® Elevations™ Deck Tiles – Load Rating 200psf

The open deck tile surface design promotes air pressure equalization reducing potential for wind uplift.

Iron Woods® Deck Tiles are offered with a smooth deck board surface only and are ADA slip resistance compliant.

Grooved decking surfaces are not recommended...Why?

Grooved surfaces do not improve slip resistance.

Grooved surfaces support the collection of food and dirt which encourages fungi growth which reduces slip resistance.

Grooved surfaces are more difficult to clean.

Grooved surfaces provide less stability when walking in high heeled shoes.

**Standard Tile Dimensions**

- **Stock**
  - IPE 24”x24”

- **Special Order**
  - IPE 24”x48”
  - IPE 24”x72”

- **FSC ITAUBA**
  - 24”x24”
  - 24”x48”
  - 24”x72”

Iron Woods® Ipe

Tiles in Mosaic Application

Tiles in Linear Application

Additional Product Information, Environmental Program Information, Section Details, Master Specification Language and Terms and Conditions can be found at [www.ironwoods.com](http://www.ironwoods.com).
PEDESTAL OPTIONS

Timber Holdings offers several pedestal options based on surface and elevation requirements.
Elevations™ pedestals can be utilized for projects that require tile elevation heights from 1-3/4” up to 36” and loads up to 2000lbs per pedestal. Elevations™ pedestals include features that add greatly to performance, ease of installation, and stability.

Elevations™ EPDM Pedestal

EPDM Rubber Pedestal is a flexible deck tile support that allows tiles to follow the natural contour of the roof. This 1/4” fixed height pedestal incorporates spacer tabs. The flexible EPDM rubber is resistant to environmental deterioration and is safe for direct contact with the roof surface. Additionally, it has sound deadening qualities and creates a soft feel for walking. This pedestal is not stackable and must be considered for low elevation support requirements only. Pedestals are pre-cut and can easily be separated into halves or quarters to facilitate perimeter and corner placement.

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Elevations New Star Pedestal System Provides a unique solution when your project requires pedestals under 1-1/4".

While the Start Pedestal System does not incorporate self-leveling technology, the Star T Pedestals unique design and key slot provides post installation micro adjustment from 3/8" to 9/16". Combined with our 3/16" stackable Star B Base pedestals any required pedestal height can be met from 3/8" to 1-1/4" where our self-leveling ELVSEO pedal takes over.

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Elevations Self Leveling Pedestal System with Eterno™ Technology

Elevations™ Self Leveling Pedestals with built in slope compensation offer a uniquely simple solution. The system, combines Supporting Base, Extension, Screw and Head options which generate pedestal heights from 1.125” to 21.75” and slopes from 5/32” to ½” (0% to 5%) per foot of slope. Pedestals are placed on a 24” grid.

Elevations Pedestals have an individual loading capacity that exceeds 2200 lbs. and can be set on any waterproofing membrane or other surface. Made from 100% post-industrial recycled material, resistant to temperatures -22°F to +248° (-30°C to +120°C), resistant to acid and UV stable, Elevations Pedestals are ISO 9001/2008 and SA8000 certified and meet significant criteria used in green building initiatives according to LEED NC LEED Credit Compliance. Our built in Self-leveling Head and Adjustment Key system
Special Features

Our Adjustment Key allows for final micro adjustments after installation. Our Screw Block System indicates when units have safely reached their maximum height adjustment. Bases are pre-cut to facilitate perimeter and corner placement. The Elevations™ Self-Leveling pedestals incorporate shims to compensate for any minor variations in deck tile thickness. Shims are provided in 1/8” or 1/16” thicknesses.

Deck Tile Head
An anti-noise bi-component soft rubber pad and special connection pins are integrated into our unique self-leveling head design. When installed a mechanical connection between the tiles and the head seamlessly integrating all components of the system.
Conventional Deck Head – Combines Iron Woods® Decking and Stringers on Pedestals.

Elevations™ Pedestal Systems support conventional deck construction as well as deck tiles. Our unique Conventional Deck Head is designed to allow for the attachment of stringers. A simple application of Iron Woods 2x4 Ipe Stringers (laid flat) and one of Iron Woods 5/4x4 Ipe decking options, provides not only a traditional deck appearance, it also increases the deck live load rating to 275 psf. As a ‘Best Practice’ Timber Holdings recommends the use of 5/4x4 deck profiles (S4S E4E, Traditional Slotted or Vanish) where ventilation is limited or poor.
Iron Woods® Premium Select Grade Ipe Decking Options

Stringer depth and decking thickness can be increased to achieve higher load ratings if required.

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Elevations™ Pedestal Configuration Chart
High Wind Connection Detail

Combination of back side pressure fit connection pins and face screw/plug mechanical connections of deck tiles to pedestals enhances mechanical continuity between pedestals and tiles. No interference with adjustment key leveling system.
Process

Design
Structural Design and Engineering of the Elevations Deck Tile System in application is the responsibility of others. It is the responsibility of the designer/owner to verify compliance with all structural design requirements and local building codes.

Estimates
Estimating your project is simple. Just provide the square footage of the area to be covered, the lineal footage of the perimeter of the area to be covered and the style of tile or decking desired along with a live load requirement and we can generate an estimate.

Quotations
Quotations require some additional information. Minimally we require the square footage of the area to be covered, the lineal footage of the area to be covered, the style of tile or decking desired, the live load required, starting point from which tiles or decking will be laid, perimeter points and heights at 24 inch on center pedestal locations moving outward from the starting point, drainage points, slope lines, high point locations on a 24" grid, Any areas that are to excluded (not covered). Ideally we would like a drawing with a 24" on center grid pattern with pedestal locations with perimeter heights, drain or low point locations and slope lines. From this we can extrapolate enough information to quote. The information required should be provided in either a PDF, DWG File or Hand Drawing.

All measurements should be indicated in feet and inches rounded up. (Fractions are not allowed. It is recommended to place additional supports under pavers with heavy objects, such as Planters, & Hot Tubs.

Please email all inquiries and project information to info@ironwoods.com

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Process

Orders

Upon order placement we will issue a material takeoff. If required an installation layout drawing that includes pedestal locations and component combinations can be supplied.
Environmental Compliance Options

All Iron Woods Elevations Deck Tiles meet ‘Green By Nature™ ‘Build with Conscience’ comprehensive set of Controlled Wood, Chain of Custody, Life Cycle Impact and Due Care Standards, Policies and Procedures that support environmental sustainability initiatives as follows....

All Iron Woods® products have been verified of legal origin and verified of legal compliance as being, legally harvested, transported, exported, imported and documented in compliance with all country of origin, international and domestic laws, rules, regulations and treaties pertaining to the fair and legal trade of forest products including but not limited to the ITTA (International Tropical Timber Trade Agreement), CITES (Convention On The International Trade of Endangered Species) U.S. Department of Agriculture Lacey Act, U.S. Department of Justice Foreign Corrupt Practices Act and U.S. Buy American Act.

All Iron Woods® products are derived from forests which are naturally occurring, renewable and sustainable and are not harvested from forests or forest plantations where traditional, civil or intellectual property rights have been violated, forests having high conservation values which are threatened, forests that have been genetically modified or forests which have been converted to non-forest use. Iron Woods® are sourced with a preference to those forestry operations implementing LIL (Low Impact Logging) techniques and sustainable forest management practices.

All Iron Woods® products are 100% organic and grown without the use of chemical fertilization and are regenerated naturally or by seeding and replanting. All Iron Woods are either kiln dried or fumigated and are free from invasive insect or plant species. The natural service life of Iron Woods®, exceed their natural growth cycle, trap and store carbon and are able to be reclaimed, reused or recycled. Iron Woods® do not require for service any petroleum based or inorganic chemical treatments adhesives or coatings. Iron Woods® do not require for service any specialized handling storage or disposal procedures and generate zero post-industrial or post-consumer non-biodegradable waste. Iron Woods® are also safe for human and animal contact, meet Low VOC emission standards and meet International Building Code, International Residential Code and Cal Fire Wildlife Urban Interface Code requirements for naturally durable wood.
Environmental Compliance Options

Iron Woods® Elevations™ Deck Tiles are available FSC Certified for projects seeking LEED Certification.

Additionally Elevations™ Pedestals are manufactured using 100% Recycled Post Industrial Plastic and the pedestals and or collective system may contribute to the following significant criteria used in green building initiatives according to LEED NC LEED Credit.

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While Timber Holdings USA believes that certain products have characteristics that may allow users to earn points in a LEED certification, only the U.S. Green Building Council may award points and grant certification. Accordingly, Timber Holdings USA does not make any assurances, guarantees, representations, or warranties, express or implied, and specifically disclaims all warranties or representations, that products will earn LEED points, or any project that utilizes such products, will receive LEED® certification.

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