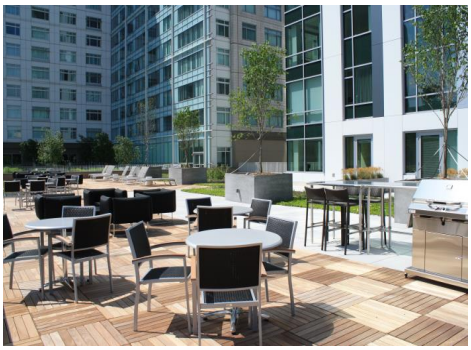
TIMBER HOLDINGS USA
IRON WOODS
ELEVATIONS DECK TILES

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 Adjustible Self Leveling Pedestal saves us 30 to 40% in instalation labor because of the UNIQUE FEATURES that no other pedestal has!***

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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® Ipe

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

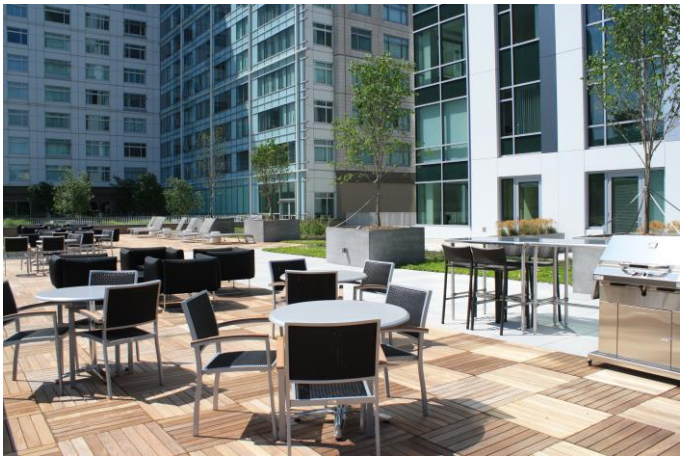
Grooved decking surfaces are not recommended…Why?

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.



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.

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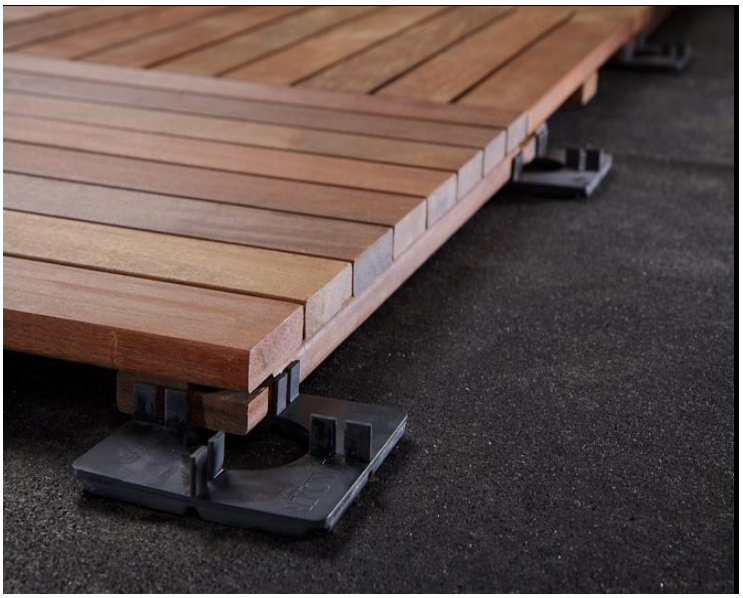
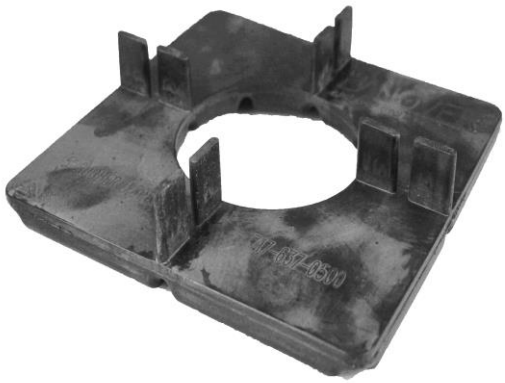
PEDESTAL OPTIONS

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





The 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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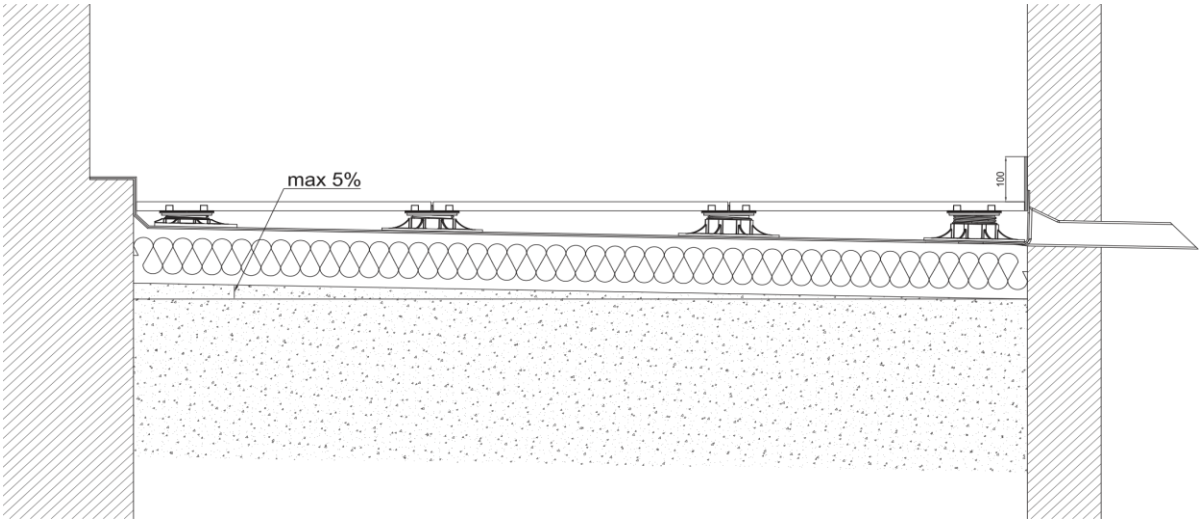
Elevations Self Leveling Pedestal System with Eterno™ Technology

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 from100% 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

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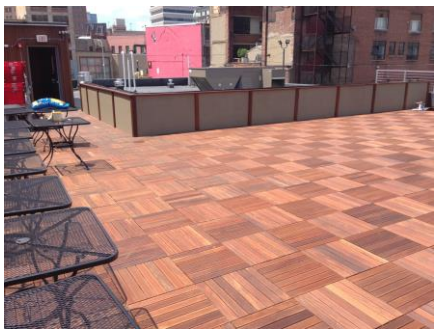
Special Features

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. Leveling shims may be used in one piece or easily separated into halves or quarters when individual tile adjustment are required.

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.



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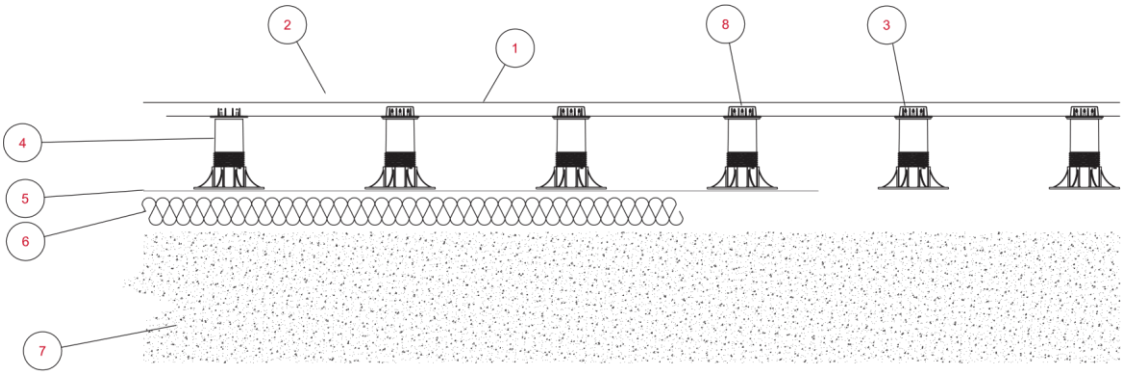
ELEVATIONS DECK TILES

Conventional Deck Head – Combines Iron Woods® Decking and Stringers on Pedestals.

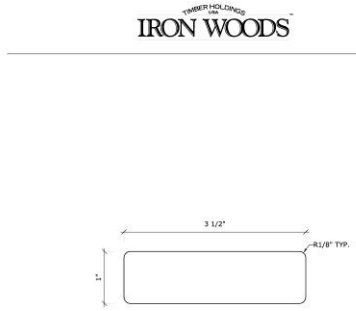
Elevations™ Pedestal Systems support conventional deck construction as well as deck tiles. Our unique Conventional Deck Head is designed to allow for the attachment of stringers. A simple application of Iron Woods 2x4 Ipe Stringers (laid flat) and one of Iron Woods 5/4x4 Ipe decking options, provides 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.



DESCRIPTION [**1** WOOD JOIST • **2** WOOD DECKING • **3** SCREW • **4** ADJUSTABLE PAVING SUPPORT "ETERNO"
5 WATERPROOFING MEMBRANE • **6** THERMAL ISOLATION • **7** CONCRETE SLAB • **8** SELF-LEVELING HEAD

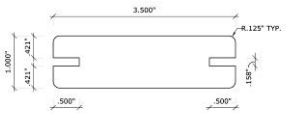
IRON WOODS ELEVATIONS DECK TILES

Iron Woods® Premium Select Grade Ipe Decking Options



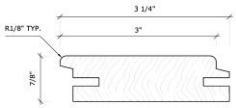
SECTION DETAIL: 5/4x4 S4S E4E DETAILED SCALE: 1'-0"=1'-0"

5/4x4 S4S E4E: IWI5404SEAP
FASTENER: STS225
#7X2.25" T305 STAINLESS STEEL



SECTION DETAIL: 5/4x4 PRE-GROOVE HATCH SCALE: 1'-0"=1'-0"

5/4x4 S4S E4E: IWI5404SEKPG
FASTENER: ICEX4
IPE CLIP EXTREME 4 AND SCREW



SECTION DETAIL: VANISH DECKING 5/4x4 BASIC SCALE: 1'-0"=1'-0"

5/4x4 VANISH: IWI544KPVP
FASTENER: ICEX4
IPE CLIP EXTREME 4 AND SCREW

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

STRINGER ATTACHMENT
FASTENER SHMS15
#12X1.5" T316 STAINLESS STEEL
PAN HEAD MARINE SCREW

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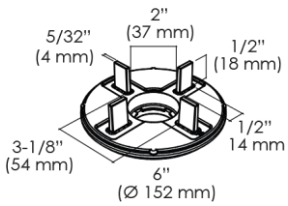
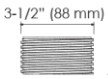
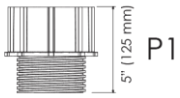


Screw

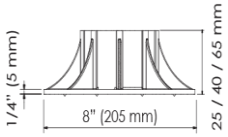


V0 3/4" (19 mm)
V1 7/8" (22 mm)
V2 1-1/4" (35 mm)
V3 2-1/4"(60 mm)
V4 4" (105 mm)
V5 6" (155 mm)

Extension



Supporting Base



BO 7/8" (16 mm)
B1 7/8" (25 mm)
B2 1-5/8" (40 mm)
B3 2-1/2" (65 mm)

SE 0	SE 1	SE 2	SE 3	SE 4	SE 5
1.125"- 1.5" 28/38 mm	1.5"/ 2" 37.5 / 50 mm	2"/ 3" 50 / 75 mm	3"/ 4.75" 75 / 120 mm	4.75"/ 6.75" 120 / 170 mm	6.75"/ 8.5" 170 / 215 mm

SE 6	SE 7	SE 8	SE 9	SE 10
5.5"/ 9" 140 / 230 mm	7.25"/ 10.75" 185 / 275 mm	9.25"/ 12.75" 235 / 325 mm	8"/ 13.5" 205 / 345 mm	9.875"/ 15" 250 / 385 mm

SE 11	SE 12	SE 13	SE 14
11.75"/ 15.75" 300 / 400 mm	10.5"/ 18" 270 / 455 mm	12.4"/ 19.75" 315 / 500 mm	14.25"/ 21.75" 365 / 550 mm

COMPONENTS TABLE - SE 6-SE 14

SE6 = SE3 + 1xP1	SE9 = SE3 + 2xP1	SE12 = SE3 + 3xP1
SE7 = SE4 + 1xP1	SE10 = SE4 + 2xP1	SE13 = SE4 + 3xP1
SE8 = SE5 + 1xP1	SE11 = SE5 + 2xP1	SE14 = SE5 + 3xP1

Elevations™ Pedestal Configuration Chart

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Phone: 888-932-9663
www.ironwoods.com

Green by nature BUILD WITH CONSCIENCE

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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 rea 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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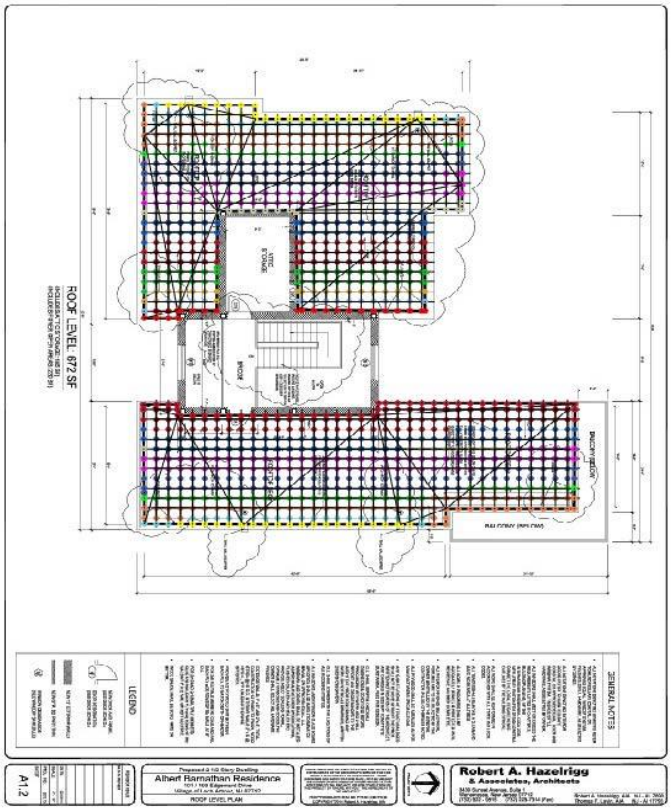
Process

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.



Support Name	Color	Qty
SE 11		49
SE 12		55
SE 10		120
SE 9		64
SE 8		145
SE 7		131
SE 6		49
SE 5		116
SE 4		184
SE 3		42
SE 2		22
SE 1		18
SE 0		24

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IRON WOODS

ELEVATIONS DECK TILES

Environmental Compliance Options

Green BY nature BUILD WITH CONSCIENCE

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….

UNIFLORESTA VERIFIED LEGAL · THE CONVENTION ON INTERNATIONAL TRADE IN ENDANGERED SPECIES OF WILD FAUNA AND FLORA CITES · ITTO · USDA LACEY ACT COMPLIANT · Buy American Act Compliant · DEPARTMENT OF JUSTICE · LIFE CYCLE ASSESSMENT LCA

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.

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Environmental Compliance Options

LEED

LEADERSHIP IN ENERGY & ENVIRONMENTAL DESIGN

FSC www.fsc.org FSC® C002474 The mark of responsible forestry

RAINFOREST ALLIANCE CERTIFIED

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.

LEED CREDIT	POINTS	TITLE	FEATURES
SS C6.1 & 6.2	1& 1	Stormwater Design - Quality & Quantity Control	Previous Flooring System
WE C1.1	2	Water Efficient Landscaping	Supports Water Capturing Systems
EA P2 EA C1	Prerequisite Form 1 to 19	Energy Performance	Possible Contribution for Ventilated Roofing System
MR C4	Form 1 to 2	Recycled Content	Post-consumer Content
MR C5	1	Regional Materials (When Applicable)	Production site defined
EQ P3 & C9 (LEED for Schools)	Prerequisite Form 1 to 2	Acoustical Performance	Design & Components Contribute Towards ANSI & STC Standards

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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