

# Stonedeck®



## STRUCTURAL NATURAL SLATE AND GRANITE DECK TILES

ECO ARBOR DESIGNS 1 888 335 8453

StoneDeck Tm. Tile Specifications and Pedestal support information



### What is StoneDeck?

StoneDeck Tm. combines premium quality natural slates, granites and quartzite with a high strength composite backing. This system features a fastening matrix that connects to the deck frame while interlocking all structural panels in place. *There is no mortar or grout.* The high strength panels and interlocking matrix form a structure that is flexible, yet strong enough to support 4,000 pounds per square foot. Each tile is 16" x 16" and covers 1.78 square feet. A single tile weighs 15 pounds (9lbsper square foot), including the composite backing. Height is 1 1/8<sup>th</sup> "

**StoneDeck tm Structural** Deck tiles will install quickly and efficiently over a joist system or raised pedestal. Some key features include

- Industrial or commercial grade deck tiles in a perfect square or rectangle. Custom sizes can be built to order
- Supports loads up to 4000 lbs with the Elmich Versajack or Spirapave Pedestal system (sophisticated yet easy to use adjustable pedestal supports)
- Design and build level decks on rooftops or any structural surface with a high end natural stone finish.
- **STONEdeck tm. can be used for...**
- Building creative rooftop decking environments
- Urban patios, terraces and rooftop decks
- Large, commercial flat rooftop terraces and plazas
- Deck pedestals for roof pavers: concrete pavers, wood tiles, stone, etc.
- Decks on green roofs
- Residential decks over cracked concrete patios & on-grade
- Decking and landscaped areas on streets and curbsides
- Commercial decks, residential decks and retrofitted decks



### **What is the cost of the StoneDeck system?**

You can expect to pay \$16–\$18 per square foot for the stone with the composite backing and the fastening matrix. Add approximately \$4–\$7 per square foot for installation labor and freight to the site. Structural framing maybe an additional cost and will depend on the scope of your project, please call us for a specific take off and quote.

## Specifications:

<p><b>1) Stone Deck Panel</b></p> <p>a. Size 16" x 16" = 1.78 square feet</p> <p>b. Fiberglass and Stone union</p> <p>c. System thickness is 1 1/16" from top of joist to top of stone.</p> <p>d. Panel weight = 8 to 10 pounds per s.f. depending on stone type.</p> <p>e. Panel Strength minimum of 4000 p.s.f. of flexural strength. Strength varies with stone and done in accordance with AC #174.</p>	<p><b>2) Fiber Reinforced Backing</b></p> <p>a. meets or exceeds ASTM test</p> <p>i. D790 Flexural strength</p> <p>ii. D638 – tensile strength</p> <p>iii. D695 – Compressive strength</p> <p>iv. D953 – Bearing strength</p> <p>v. D570 Water Absorption</p> <p>vi. D696 Coefficient of Thermal Expansion</p> <p>vii. D635 Self Extinguishing</p>
<p><b>4) Stones</b></p> <p>a. Size nominal 16" x 16" x 9/16"</p> <p>b. Stones have an ASTM #C121 water absorption of .01% to 1.1% depending on stone type. <b>Granites</b> have an ASTM #C1026 Freeze thaw unaffected rating or a natural resistance to damage under freeze thaw conditions.</p> <p>c. Generally all stones have an ASTM# 1028 coefficient of friction equal to or greater than wood or composites. (<b>Granites</b> have a thermal or sandblasted surface and <b>Slates</b> have natural clefing)</p>	<p><b>5) Joist Plate</b></p> <p>a. High Strength Polyethylene composite – 9 5/8 inches long with a connecting spline molded to the plate. Four 1/8" spacers are molded to the plate on each wing to self space the Stone Deck panels. Each <b>Joist Plate</b> is predrilled to run on top of the joist and requires a minimum of three screws (one in the center and two in opposing holes on top of the joist). <b>Screws</b> Use #7 x 1 1/4" countersunk screws in the <b>Joist Plate</b> countersunk screw holes. Make sure screws are compatible with the framing material. <b>Construction Adhesive</b> Use an exterior grade construction adhesive (PL400 or equivalent) to fasten panel to <b>Joist Plate</b> as necessary</p>

# StoneDeck™ Stone Color Chart



Multi-Color Slate



Quartzite



Green Slate



Gray Slate



Tan Granite



Pearl Granite



Autumn Leaf Granite



China Black Granite



Combo Red Granite



Swirl Granite



Sand Granite



Importers and manufacturers  
of superior outdoor flooring

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# Versijack®



## Telescoping Paver and Deck Supports



**VersiJack® 75** is a heavy duty adjustable lightweight telescopic

pedestal with an integrated slope corrector manufactured from 100% recycled or clear virgin plastics. It is used to support pavers, beams and bearers in the construction of roof terraces, pedestrian walkways, roof gardens and platforms.

**VersiJack® 75** is adjustable in height from 75 mm to 150 mm.

The height may be increased to 1050 mm using proprietary Extenders and Locking nuts to ensure maximum stability.

**VersiJack® 75** reduces sound transmission and increases heat insulation. Unsightly services may be concealed within the cavity under the elevated platform, allowing easy access when required.

**VersiJack® 75** can be used with most pavers such as granite, marble, precast concrete, timber as well as industrial gratings. A hollow internal core allows additional ballast such as cement infill to be used when required.

## VersiJack Specifications

**Height range** 75 mm to 150 mm

**Color** - Black

**Dimensions** Head diameter 155 mm

Base diameter 205 mm

Extender height 75 mm

**Compressive Strength** > 1,600 kg

### Slope Compensation

151 mm onwards with

**Extenders**<sup>1</sup> - 112.5 mm

<sup>1</sup> additional heights possible with bracing system

0% to 5% @ 1% increments

**Weight** VersiJack® 75 ~ 0.7 kg

**Service Temperature** -20 °C to 120 °C

Unaffected by molds and algae and good resistance to alkali and bitumen

**Distributed by:**

**Material** Polypropylene

Extender ~ 0.3 kg

VJ Bearer Holder

For 50 mm to 75 mm width

<sup>2</sup> compression strength varies with different heights.

## Installation Procedures

- Use sight or laser lines to mark the intersections of the corners of each paver to be laid.
- Position **VersiJack® 75**. Adjust the 0% to 5% slope corrector to compensate for any fall in the slab.
- If necessary, saw along marked score lines on the base so that the units may be positioned along wall edges or in corners.
- Position the first paver in a corner and subsequent pavers along a wall edge.
- Place pavers or wood panels on **VersiJack® 75** and simply adjust either up or down to obtain level required. Use rubber shims, if required, to ensure that the finished surface is level.




# SpiraPave®



## Low Height Decking Support

	<ul style="list-style-type: none"><li>• <b>Height flexibility</b><ul style="list-style-type: none"><li>– height range 17 mm to 87 mm</li><li>– height range increased by adding Extenders</li><li>– easy and accurate height adjustments in 1 mm increments</li></ul></li><li>• <b>Slope correction</b> – by slope corrector</li><li>• <b>Strength</b> – unmatched compressive strength made possible by a 'step' design</li><li>• <b>Security</b> – can be secured to the supporting surface and locked at chosen height</li><li>• <b>Environmentally sustainable</b> – manufactured from recycled plastics</li></ul>
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	<p><b>SpiraPave®</b> is a new generation pedestal consisting of separate components paired to create pedestals of different heights, each capable of stepping up or down for fine height adjustments.</p> <p><b>SpiraPave®</b> minimum height of 12 mm makes it ideal for installations where conventional height-adjustable pedestals are generally too high to be used.</p> <p><b>SpiraPave®</b> has a slope corrector which may be placed either on the top or bottom of the pedestal for fall compensation of up to 5%.</p>
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