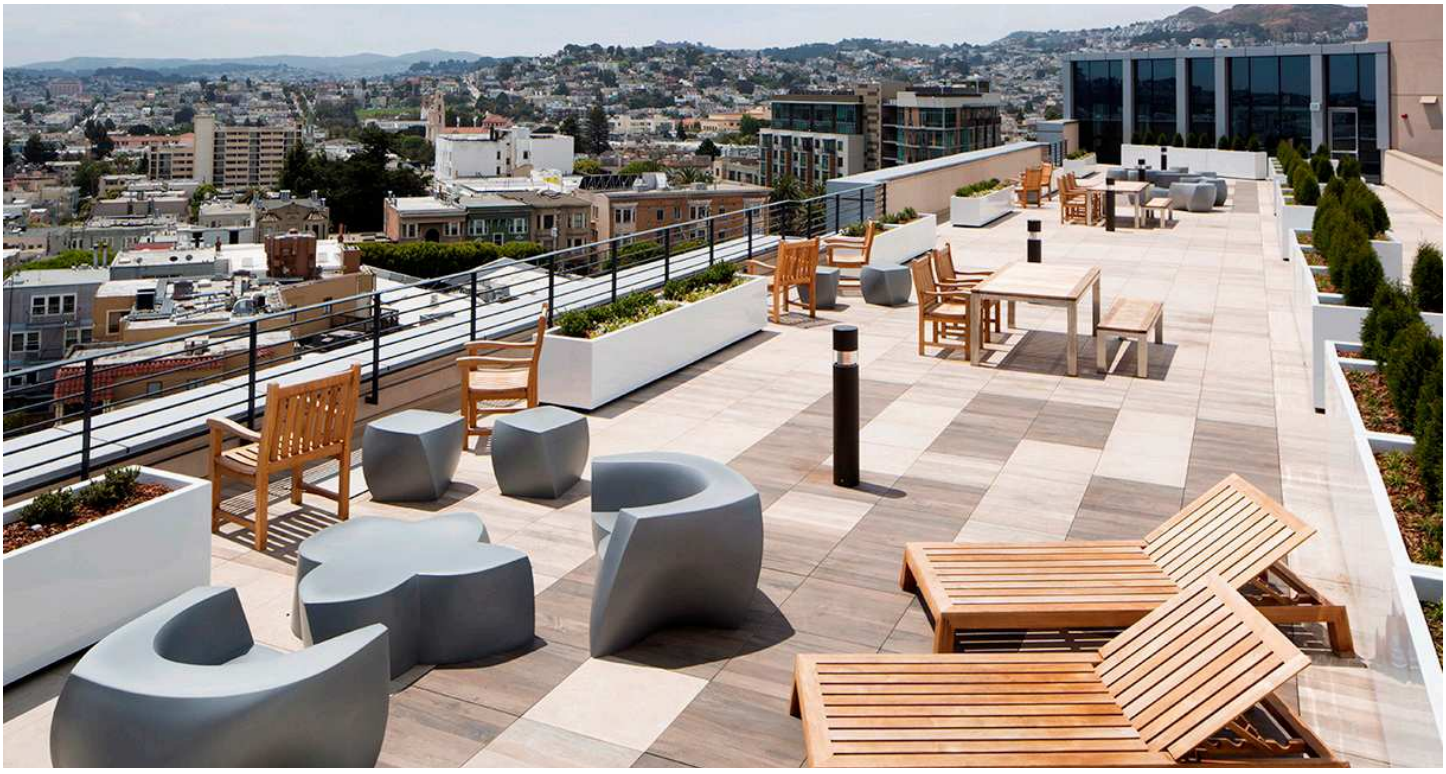
ECO ARBOR DESIGNS

Pedestal Support Systems

ECO ARBOR DESIGNS

Eco Arbor Designs

Pedestal Support Catalog



Our Innnovation Is Your Solution

Pedestal is engineered to provide a versatile and cost-effective solution to support raised pavers and timber decking in an eco-friendly way. It provides a cavity for services to be concealed, improves heat and sound insulation, facilitates rapid surface drainage whilst allowing waterproofing to remain accessible.

Pedestal is based on a unique ‘step’ design for supporting raised pavers and timber decking. It creates a cavity to conceal services, improves heat and sound insulation, facilitates rapid surface drainage and allows easy access to waterproofing. It also reduces efflorescence, algae growth and paving installation costs.

Eco Arbor Designs has been working with some of the leading manufacturers of pedestal supports since 2009. We have created a portfolio of products to solve any type of raised floor and paver **type**. The design and flexibility of these product allows you to create versatile outdoor spaces in any environment or application. Raised floors and pedestal supports allows the fastest and most durable flooring to be installed over areas where a permanent floor is not best suited. When combined with our premium hardwood pavers or our durable porcelain pavers, we have you covered

Types of Paver Supports

Table of contents:

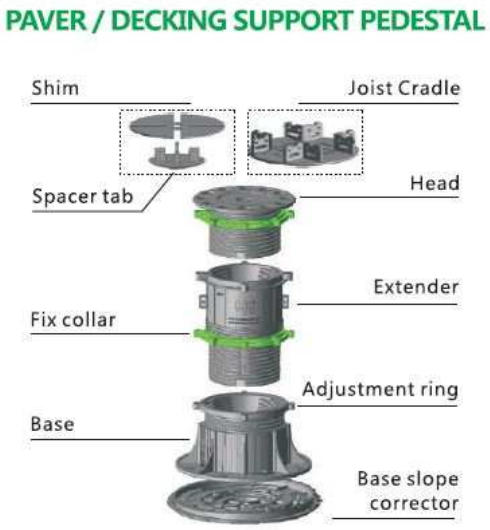
ECO ARBOR DESIGNS

EAD® Low Height Adjustable Supports

EAD® is a height and slope-adjustable pedestal engineered by Eco Arbor Designs
which reduces material, construction and lifecycle costs. 100 % recycled post consumer content.

Height range of EAD telescoping pedestals are 1/2"mm to 18"
Additonal height of 6" is obtained with the use of a EAD 6" extender.

Accessories include bottom slope-correctors (where needed), spacer tabs (1/8th standard), height extender, Rubber base plate and bearer holders.



Advantages

- Low minimum height and adjustability
- Precise height adjustment and locking ring to set height and maintain.
- Bottom slope correctors for maximum stability
- Easy to install, cost effective and lightweight
- Made from 100% recycled materials
- Supports Green Building certification

Construction Benefits

Low minimum height is ideal for installations where other height-adjustable pedestals are generally too high to be used.

Eliminates need for bedding sand or cement screed, reducing the load burden on building structures. It also reduces installation time and costs.

Joint sealants and/or grouting is rendered unnecessary and expansion and contraction of pavers do not result in unsightly cracks.

EAD providing support for porcelain pavers

High Compressive Strength

EAD pedestals with Extenders up to 12" have a compressive strength of ≥ 25 kN.

Supports Green Building Certification

EADpedestals are manufactured from recycled materials which meets RoHS requirements.

EAD providing support for timber decking

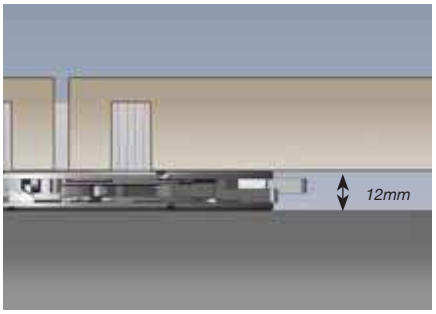
"Engineered to reduce material, construction and life cycle costs."

ECO ARBOR DESIGNS

Distinctive Features

Minimum Height

1/2" minimum height with 1/16"th" stepped increments.

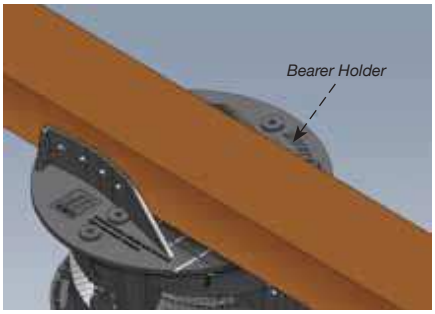


Support ANY system

Wood, pavers, stone pavers, FRP structural panels.

Bearer Holder

Suitable for widths 50mm to 85mm to keep bearer firmly in place.

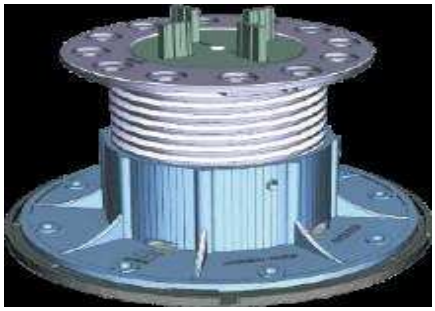


Wood Tile Connector

Locking wood tile connector for wind uplift and zero movement.

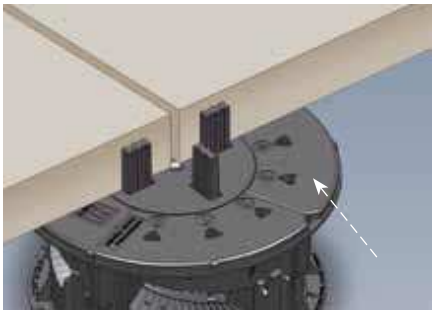
Slope Corrector

Used at top or bottom of pedestal for slope compensation of up to 5%.



Spacer Tab

Tab thicknesses 3mm to 10mm

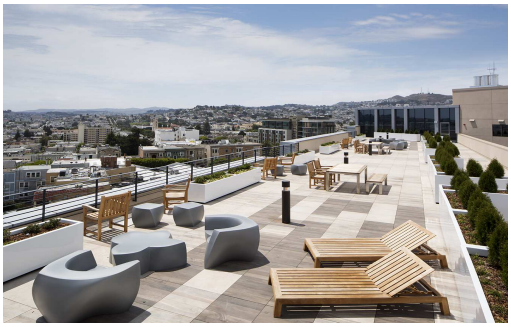


EAD Pedestals ® have international design registrations and patents pending.

Projects

Coca Cola Bottling Plant Roofdeck
Los Angeles, CA

Omni Hotel
Nashville, TN



Skyrise Residential
San Francisco, CA

Commercial Office,
Cincinatti, OH

ECO ARBOR DESIGNS

Technical Specification

Material	Recycled Polypropylene
Height Range[1]	1/2" to 12" native, (up to 24" and 30" with extenders)
Ultimate Compressive Strength[1]	25kN
Base Diameter	154mm 172mm (with Slope Corrector)
Spacer Tab Height	15 / 25mm
Spacer Tab Thickness	2 / 3 / 4 / 6 / 10mm (gap between pavers)
Marginal Adjustments	1mm
Bearer Holder	50mm to 85mm (bearer width)
Biological / Chemical Resistance	Unaffected by moulds and algae Good resistance to alkali and bitumen

Accessories

45E Extender

Slope Corrector

Bearer Holder

Base Plate

Mini Load Plate

Spacer
(2mm-10mm)

EAD pedestal® Height Chart

1/2"-1"

1"-1.5"

1.5"-2.5"

1.5"-2.5"

2.5"-4"

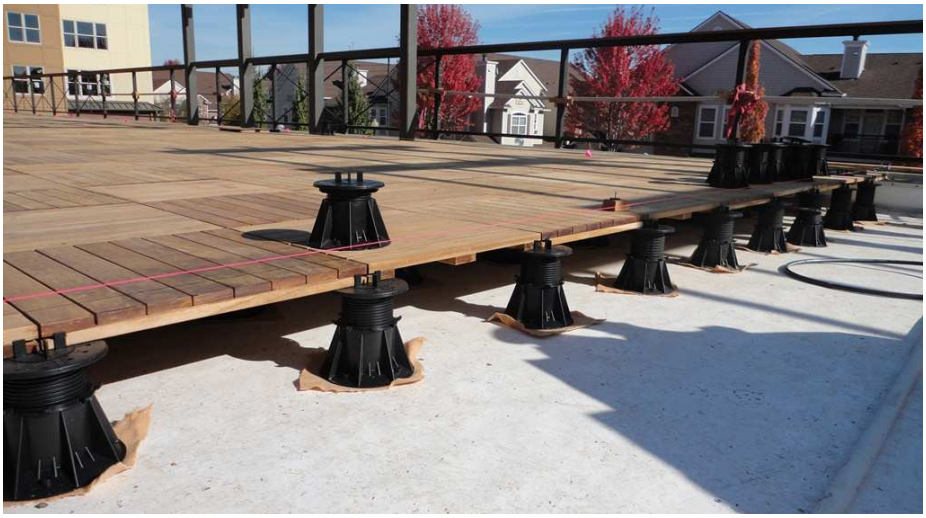
3.5"-7"

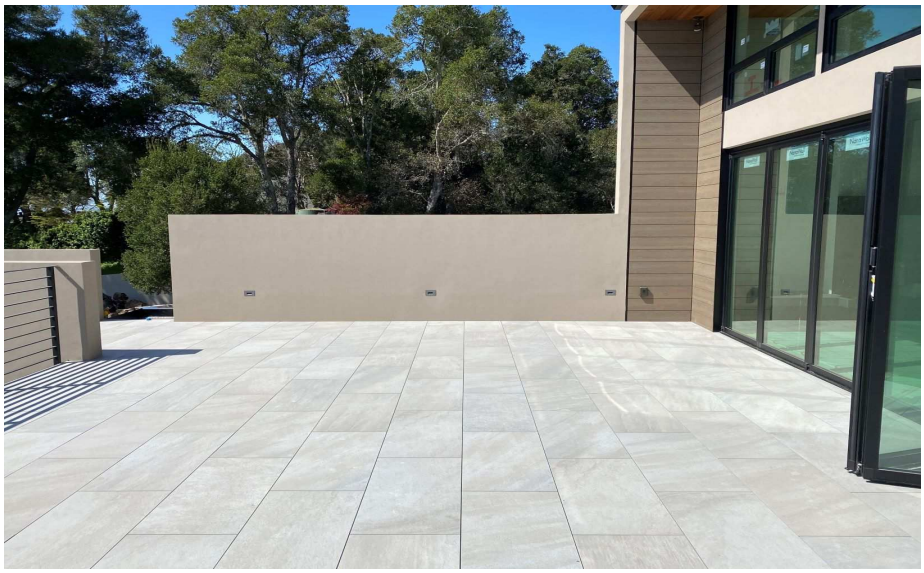
6"-12"

25kN

With 6" extender

EAD® Adjustable Telescoping supports in action





Advantages

- No bedding sand required
- Permits access to waterproofing membranes
- Waterproofing membrane not penetrated for installation
- Allows air ventilation
- Reduced sound transmission
- Eliminates efflorescence and algae
- Easy access to concealed services

Applications

- Pool surrounds
- Roof terraces
- Balconies and patios
- Reflective ponds and water features

Installation Procedures

Determine the number of **EAD** required as per architect's drawings

Use sight or laser lines to mark the intersections of the corners of each paver to be laid.

Position **EAD pedestals**. Adjust the 0% to 5% slope corrector to compensate for any fall in the slab. Slope corrector not needed if slope is negligible.

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 **EAD pedestals** and simply adjust either up or down to obtain level required. Use rubber shims, if required, to ensure that the finished surface is level.

For timber decks, position beams onto the **EAD** Bearer Holder and adjust the height accordingly.

Fasten beam to the eyelet on the wing of **EAD** Bearer Holder.

Fasten the **EAD** Bearer Holder onto **EAD** using self tapping screws.

Install timber deck onto beams secured over **EAD pedestals**.

Concrete / Stone Pavers

Wood Panels

Timber Deck

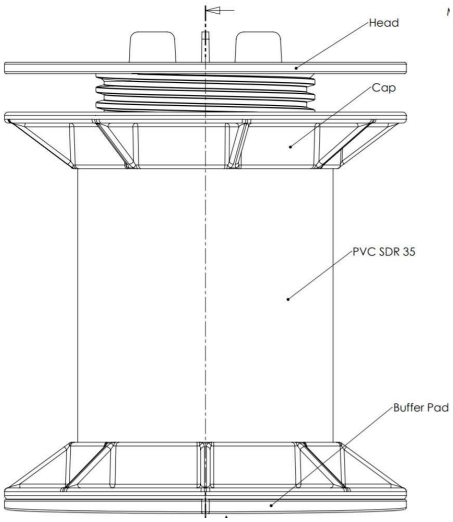
***EAD** Bearer Holder suitable for beams and bearers of variable widths from 50 mm to 75 mm*

Slope Corrector and Step Effect

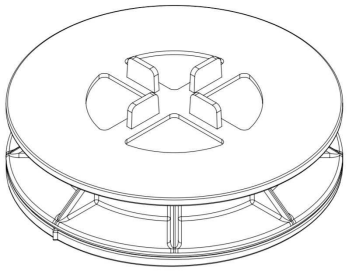
ECO ARBOR DESIGNS

Eco Arbor Designs PVC Based Adjustable Pedestal

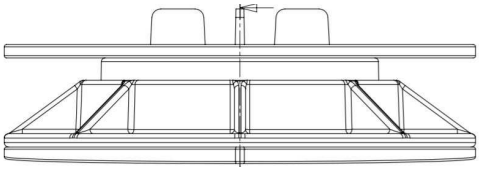
The PVC based Pedestal is one of the most versatile and cost effective systems on the market. Allowing heights up to 22" utilizing common SDR-35 PVC pipe that is available everywhere. The pedestal is Hybrid in that the top cap allows for 3/4" or 1 ½" of adjustability, allowing a "fine tuning" of the height of the pedestal. PVC pipe is cut to fit on site for the approximate height , then adjusted once pavers are laid in place. The self leveling adjustable head allows for slope 0-6 degree on any slope. Additional slope can be compensated with 5% slope adjusting bottom shims.



Top adjustable Head



Top head profile



PVC Adjustable based pedestals,

Why choose adjustable PVC based Pedestals?

Strong.
EAD Diamond Head Series® Adjustable PVC based Pedestals are compression tested to over 3,500 psi.

Affordable.
The efficient design of EAD PVC Adjustable Pedestals save money from manufacture to delivery. They will also achieve heights of up to 36", of which a traditional adjustable pedestal at that height is much more costly.

EAD components pack in fewer boxes and weigh less than alternative pedestals, reducing the ‘carbon footprint’ and saving money on shipping costs! Each EAD box contains 100s of Pedestal components, making it simple to ship anywhere in North America and beyond. How is this possible? The large central component of EAD Pedestals is standard 4″ SDR-35 PVC piping – which is easily available locally at a low cost at any building supply. As a result, EAD Pedestals remain the most affordable, no matter what the height or configuration!

Green.
The EAD Pedestal System™ promotes a ‘green’ environment! Sustainably designed, it is constructed of fully recyclable, durable ABS and PVC plastics and 100% recycled rubber.

The EAD Hybrid Pedestal System™ is the natural solution for ecological concerns. That’s why the EAD PVC Based Adjustable Pedestal System™ was chosen for the Atlanta City Hall Green Roof Project, The Built Green Idea Home 2004 (2004 winner of the Gold Nugget Grand Award for Sustainable/Green Residential Project of the Year), and the New American Home at the 2004 International Builders Show in Las Vegas. That’s also why the Introductory Manual for Greening Roofs (.PDF) commissioned by the Canadian government in 2002 lists the EAD PVC based Pedestal System™ as an integral part of the green solution.

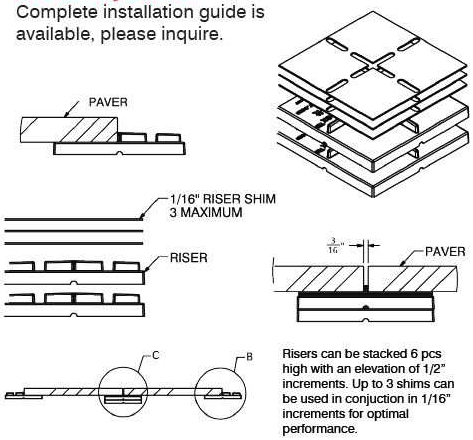
Simple.
The EAD PVC based Joist Plate™ and EAD Perimeter Pedestal® are sister interlocking systems, using our Shim components from the PVC Pedestal System. This allows simple, easy installation of concrete pavers, natural gauged stone, and other architectural slabs over any type of deck. This system easily adapts to new and old decks, virtually ending the drudgery of maintaining a rubber membrane or wood slat deck.

ECO ARBOR DESIGNS

Eco Arbor Rubber Stackable Support System for minimal height raised floor

Assembly Guide

Complete installation guide is available, please inquire.



Risers can be stacked 6 pcs high with an elevation of 1/2" increments. Up to 3 shims can be used in conjuction in 1/16" increments for optimal performance.

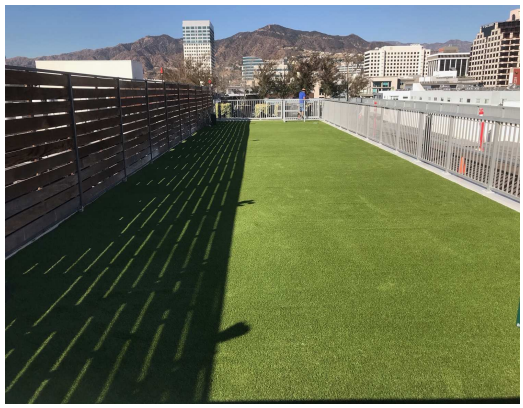
Eco Arbor Fixed Height Rubber Pedestals™ are made from recycled closed cell Neoprene rubber. They are lightweight, malleable, stack able and ensure noise reduction, improved drainage, and precise and consistent joint spacing for any type of paver, available in 1/8th" or 1/2" thickness each pedestal can be stacked on each other to raise height top of a simple foam block or any other type of 1/16th" rubber shim to add height. Flexible rubber pedestals and spacers can accommodate the subtle freeze-thaw expansion which most often occurs with wood or stone pavers, while at the same time protecting the materials below as valuable cushioning takes place. One of the most cost effective fixed height pedestal system on the market is here now.

AFFORDABLE
STRONG
WILL PROTECT AND NOT DAMAGE UNDERLAYMENT or ROOF SURFACE
EASY TO INSTALL
DAMPENING AND SHOCK ABSORBANT

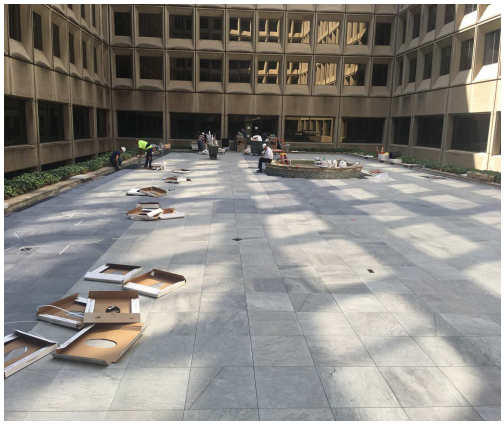
Eco Arbor Designs FRP Structural Tray

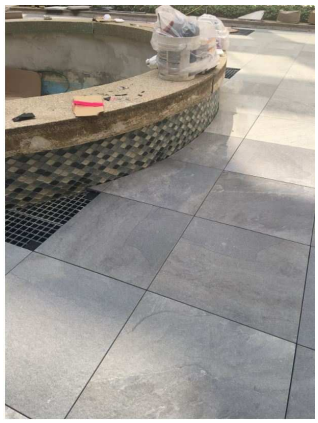
The ECO deck FRP deck tray is a structural 1" fiberglass grating with a mini mesh top for maximum strength and minimal deflection. Supported every 2 feet on center. FRP trays can be cut to fit to the size of the deck and installed over joists, or EAD pedestal supports. Once the FRP grating is installed, any type of material can be placed on top including artificial turf, natural stone pavers, porcelain pavers, or thinset tile.

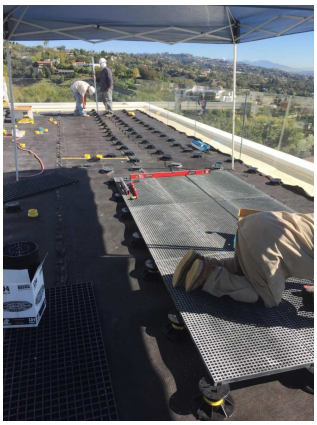
For artficial Turf application



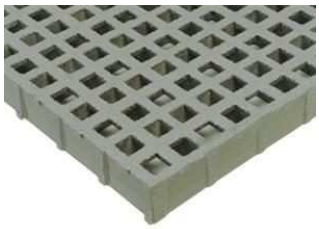
For paver application for heights over 3"





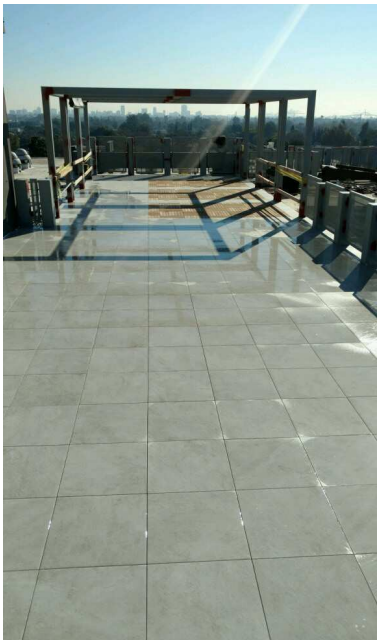


Unique Design for maximum support



ECO ARBOR DESIGNS

Eco Arbor Foam Block Pedestal Supports (available only in Southern California)



Presenting the very first high density foam block pedestal product. Currently only available in California for south west installations ony. This system utilizes 80 psi foam block to support any type of pavers, whether you have concrete pavers, wood pavers, or porcelain pavers. Foam blocks are cut on site to a laser line using a hot knife method. Each block is cut to size in this way creating a perfectly level floor. Foam block has optimal compression dampening and cushioning. Another great feature is the supports can be modified to allow for different thickness tiles on the same floor allowing your designs to go beyond the limits of traditional paver installations. The foam blocks can be cut as low as 2" and as high as 30 " to create a superior support system. Additional blocks can be used to create a center support or perimeter support with ease. Difficult rounded perimeter edges are easily tackled by cutting the foam to level on top in these areas. In addition one can use a snow tray system on top of the foam blocks to eliminate any possibility of paver failure.

ECO ARBOR DESIGNS

ECO ARBOR DESIGNS Innovators of modular roof decking and flooring. We have been manufacturing and importing some of the finest raised floor systems in the world since 2005

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