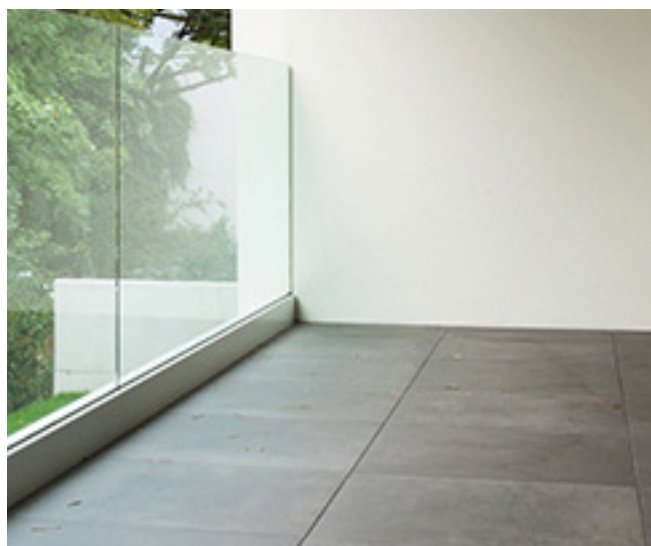




ECO ARBOR DESIGNS

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PAVER PEDESTAL PRODUCT LINE

PART NUMBER	DESCRIPTION	DIMENSIONS
E-71850	Rise-It Pedestal - 1/2"	6" W x 6" x 1/2" High Pedestal Riser
E-71851	Rise-It Paver, SHM 1/16"	6" W x 6" x 1/16" Thick , Shim Pad
E-71852	Rise-It Pedestal - 1/8"	6" W x 6" x 1/8" High, Pedestal Riser
E-71854	Rise-It Pedestal - 4mm	6" W x 6" x 1/2" High, Pedestal Riser
E-71855	Rise-It Pedestal - Flat Top	6" W x 6" x 1/2" High , Pedestal Riser

Product contributes to LEED 2009 or LEED V4 credits www.usgbc.org

- 1) Heat Island Effect- LEED credit SSc7.1 & SSc7.2 (2 points possible)
- 2) Recycled Content- LEED credit MRc4 (2 points possible)
- 3) Regional Materials- LEED Credit MRc5 (2 points possible)
- 4) Storm Water Design- LEED Credits SSc6.1 and SSc6.2 (2 points possible)
- 5) Innovation in Design- LEED Credit IDc1 (5 points possible)
- 6) Construction & Waste Management- LEED credit MRc4 (2 points possible)
- 7) Low Emitting Materials – LEED credit IEQ4.1 & 4.3 (3 points possible)

- Product is more energy-efficient in operation than similar products
- Product is more water-efficient than similar products
- Product is more durable and/or requires less maintenance than similar products
- Product contains post-consumer recycled content (100% Recycled Content)
- Product has been salvaged and reconditioned from previous use (100% Recycled)
- Product is recyclable or biodegradable after use



Porcelain Pavers Contractor Installation Information

This installation manual is designed to be used by professional hardscape contractors and assumes they are already familiar with the proper construction techniques; design considerations and have the required skills for the installation of interlocking paving stones. It further assumes that the contractor has access to the required tools for such construction.

INSTALLATION INFORMATION:

Each of the following option details will include specific information relative to the selected installation. Base thicknesses vary between different geographical and climatic locations and the contractor will be installing typical base thicknesses for paving installations in their location.

IMPORTANT: Installing porcelain pavers requires the bedding course sand to be pre-compacted and then struck off with a screed to the required thickness as shown in the detail drawings. The porcelain pavers are not compacted and therefore the sand layer beneath them requires pre-compaction. Do not compact dry sand, but insure the sand has a 5 to 6% moisture content so that it will compact cohesively and allow for a smooth strike off finish.

INSTALLATION INFORMATION THAT MUST BE FOLLOWED:

- NEVER compact porcelain pavers with a plate compactor.
- ALWAYS pre-compact and strike off your sand leveling course before installing your porcelain pavers in sand set installations.
- Porcelain pavers should only be wet cut with a tile saw equipped with a wet cut porcelain blade.
- NEVER install porcelain pavers without the required spacing between them. The porcelain pavers should never be installed with a porcelain to porcelain contact.
- For a 100 sf. project, approximately 34 spacers are needed; this allows for overages if needed on a flat install.
- Use a reinforced backing for any installation over 1 1/2 inch tall.



Calculate quantity of pedestals required for your job

Decks can be designed to any layout configuration. The number of pedestals required is directly proportional to the number of tiles per pavers utilized. Therefore we can recommend that you determine the number of pavers needed first. Once the number of pavers has been established, the following formula will give an estimate of approximately how many pedestals will be needed:

METHOD #1

Formula:

Pavers needed = Deck arrea/Paver area

Pedestals needed = #Pavers needed + (Deck perrimter / Paver width)

Example:

For 24" x 24" Pavers on 20' x 50' patio:

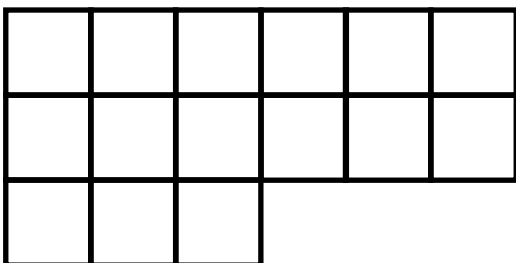
#Pavers needed = $(20' \times 50') / 2' \times 2' = 250$ paverrs

Pedestals neede = $250 + ((20' + 20'' + 50'' + 50'') / 2' = 320$ pedestals

METHOD #2

1. Count total number of paverrs
2. Count the number of pavers around the entire perimter and divide by two. Add the result to the total number of pavers from step 1.
3. Multiply your new total by 5% and round up. Add that number to get your total amount of pedestals needed.

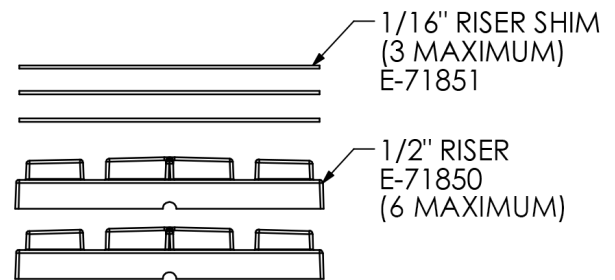
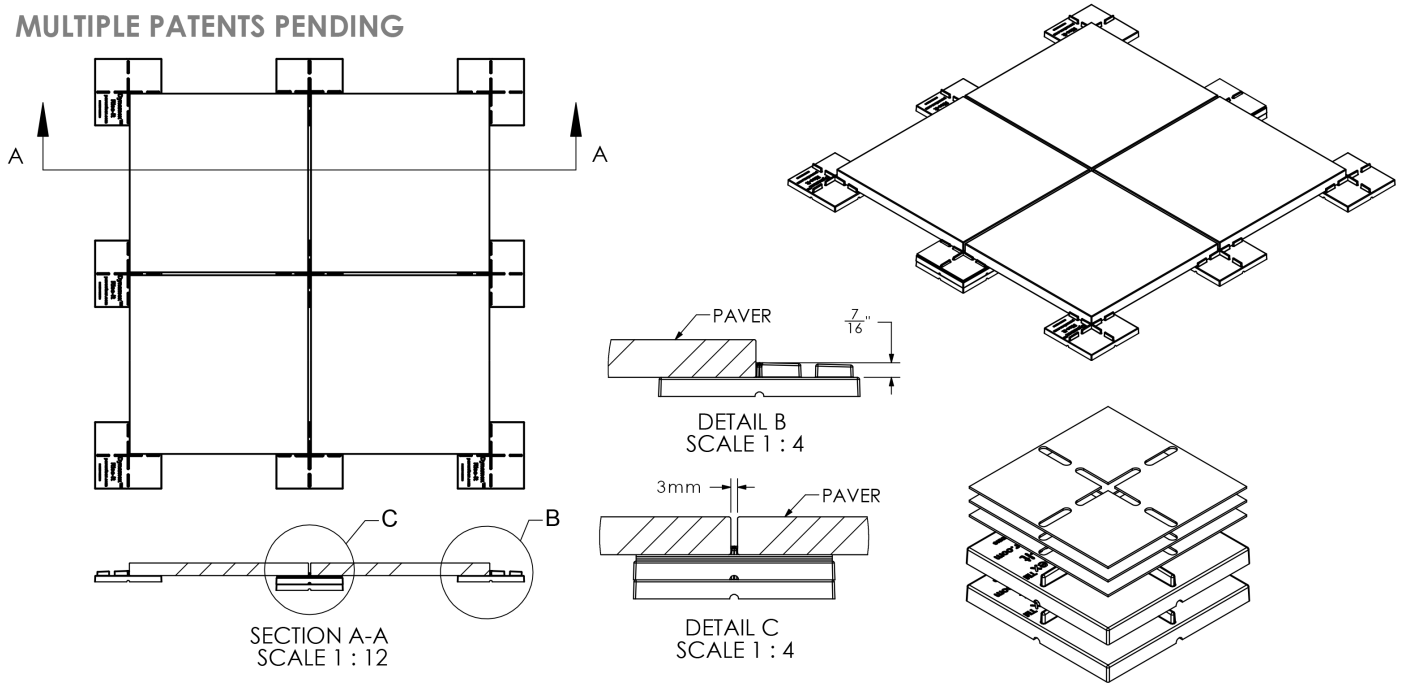
Example:



1. Total number of pavers: 15
2. Number of perimeter pavers (14) divided by two: 7
3. Calculate 5% of your new figure $(15+7=22)$ and round up: 24



MULTIPLE PATENTS PENDING



Porcelain Pavers Contractor Installation Information

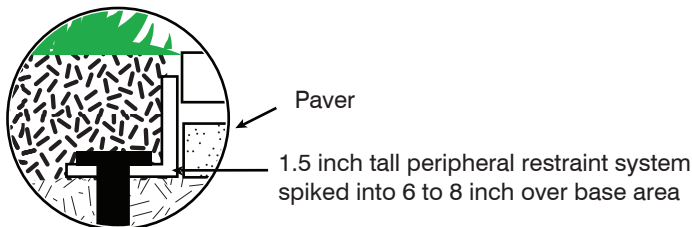
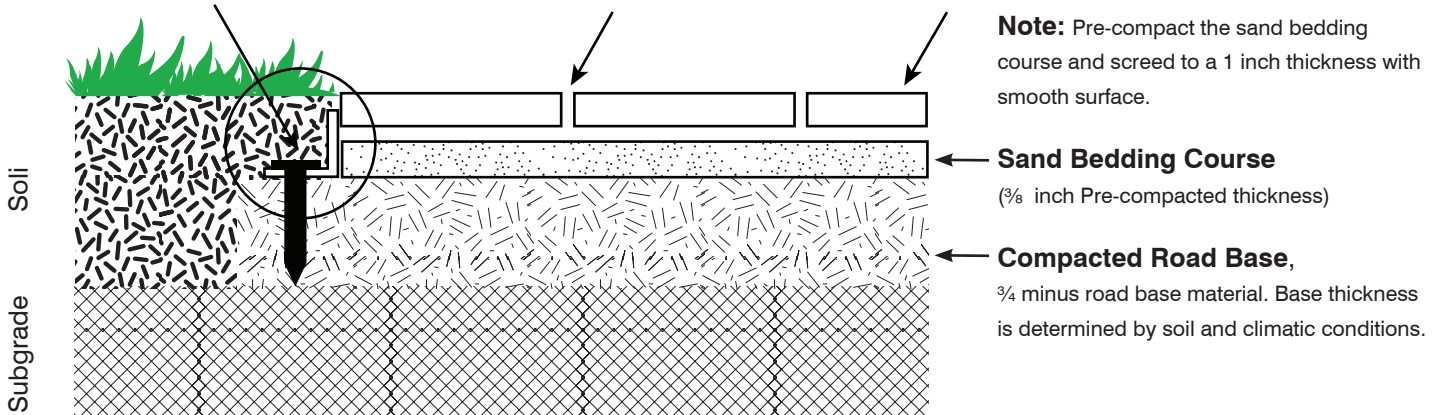
INSTALLATION NOTES:

- 1** Base material is to be over based 6 to 8 inches beyond the edge of the pavement.
- 2** The required edge restraint system is a low profile edge restraint with a vertical height of 1 ½ inches as shown in the drawing.
- 3** Insure that pavement is constructed with a 1 ½ to 2 degree slope that it is pitched away from any building.
- 4** Insure your Rise-It spacers are installed at all corners of the installed pavers.

Peripheral Restraint System Spiked into 6 to 8 inch over base area

Minimum 3.5 mm spacing between pavers

Porcelain 20mm (¾ inch nominal) Pavers



Pedestrian Traffic - Sand Set
Over Compacted Road Base Installation

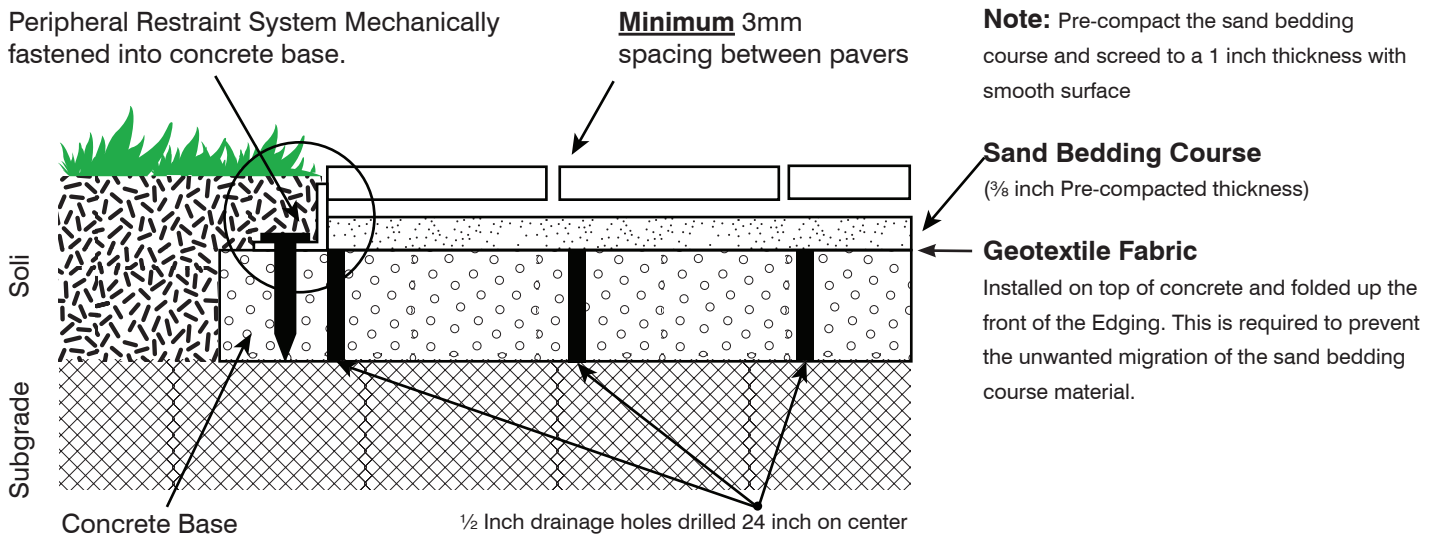
This cross section drawing is intended for preliminary design purposes only. The actual structural design and site evaluation shall be performed by a qualified Professional Engineer. Redwood Plastics and Rubber accepts no liability for the improper use of this detail.



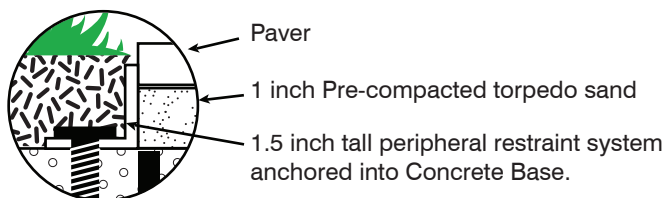
Sand Set over Concrete Overlay Installation (Pedestrian Foot Traffic)

INSTALLATION NOTES:

- 1** The required edge restraint system is a low profile edge restraint with a vertical height of 1 ½ inches as shown in the drawing.
- 2** Mechanically anchor edge restraint into the concrete base.
- 3** Insure geotextile is installed directly on top of the concrete to contain the bedding sand.
- 4** Insure that pavement is constructed with a 1 ½ to 2 degree slope and that it is pitched away from any building.
- 5** Insure your Rise-It spacers are installed at all corners of the installed pavers.



Note: A concrete base with a sound surface and small cracks can be utilized as a base for paving slab construction, but a concrete base with differential settlement or movement is not acceptable.



<p>Pedestrian Traffic - Sand Set Concrete Overlay Installation</p>	<p>This cross section drawing is intended for preliminary design purposes only. The actual structural design and site evaluation shall be performed by a qualified Professional Engineer. Redwood Plastics and Rubber accepts no liability for the improper use of this detail.</p>
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Permeable Over Open Graded Aggregate Installation (Pedestrian Foot Traffic)

INSTALLATION NOTES:

1

The required edge restraint system for this installation has a vertical height of 2 ½ inches as shown in the drawing. Follow the edge restraint manufacturer's recommendations for the use of their product in permeable applications regarding geogrid usage and placement to maintain the performance of there edging.

2

Insure that pavement is constructed with a 2 degree pitch and that it is pitched away from any building

3

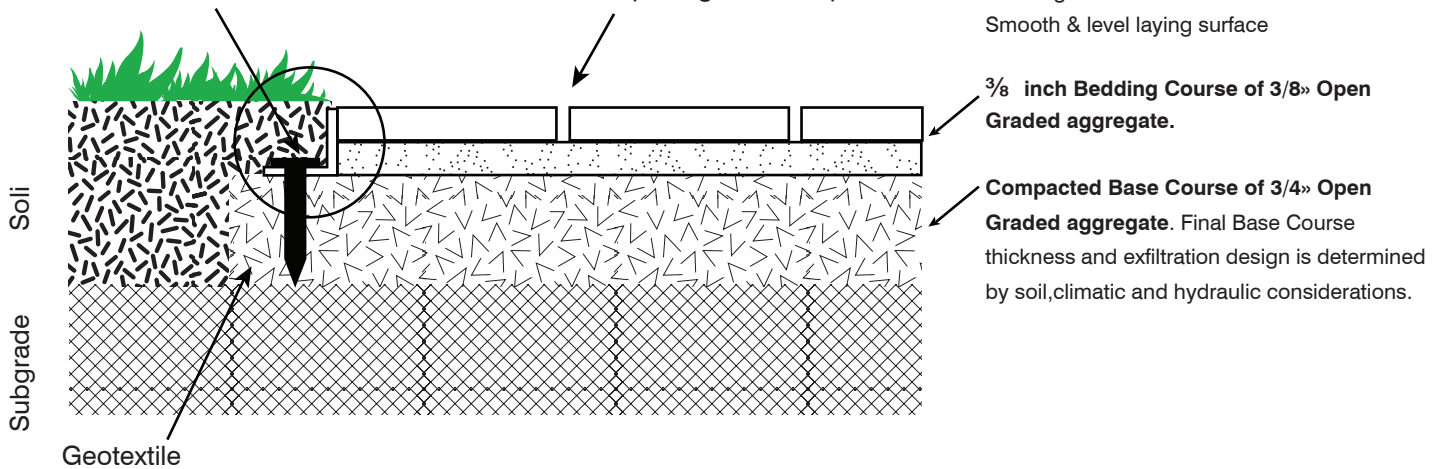
Insure the 3mm spacers are installed between all pavers.

Full Infiltration - permeable subgrade

Peripheral Restraint System Spiked into 6 to 8 inch over base area

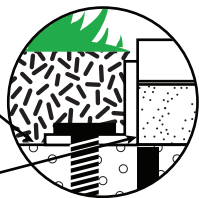
Minimum 3mm (3/16») spacing between pavers

Note: Pre-compact the open graded Bedding Course into the Base Course. Smooth & level laying surface



Geogrid to stabilize the restraint system

2.5 inch tall peripheral restraint system spiked into 6 to 8 inch over base area



20mm (.7874») Porcelain Paver

2 inch Pre-compacted 3/8» open graded aggregate

Pedestrian Traffic - Permeable
Over Open Grated Aggregate Installation

This cross section drawing is intended for preliminary design purposes only. The actual structural design and site evaluation shall be performed by a qualified Professional Engineer. Redwood Plastics and Rubber accepts no liability for the improper use of this detail.

1/2" Fixed Pedestal Installation on Concrete Floor (Pedestrian Foot Traffic)

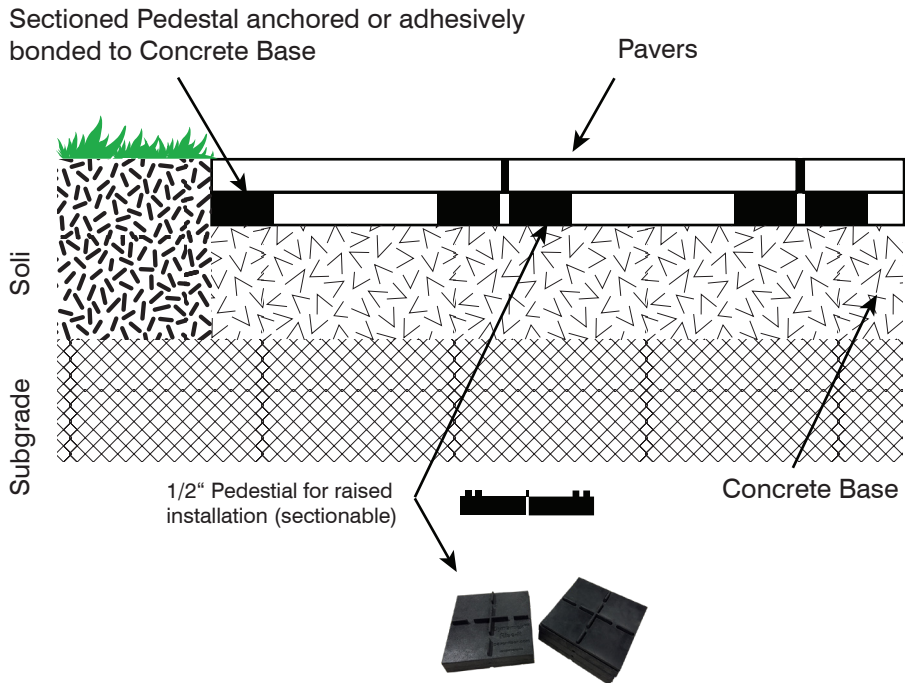
INSTALLATION NOTES:

1

Insure that concrete slab is smooth, even across the surface and is constructed with a 2 degree pitch and that it is pitched away from any building.

2

Insure the 1/2" Rise-It pedestal support are installed at all corners of the installed pavers.



Concrete Base, thickness and reinforcement requirements are based on traffic loading and are to be designed and constructed according to the ACI (American Concrete Institute) and PCA (Portland Cement Association) standards.

<p>3/4 Fixed Pedestal Installation On Concrete Floor</p>	<p>This cross section drawing is intended for preliminary design purposes only. The actual structural design and site evaluation shall be performed by a qualified Professional Engineer. EAD accepts no liability for the improper use of this detail.</p>
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