

PRODUCT DESCRIPTION:

Terra System One provides a level surface for installation of concrete pavers over a pitched surface. The system ensures precise paver alignment and even spacing that allow for drainage and air circulation critical to the health of a deck installed over any waterproof membrane. It also allows for easier access to the subsurface for scheduled maintenance or repairs without damage to the paved surface. Terra-Stand can also be installed at grade level where the surface is not pitched.

Components and Materials:

Terra-Stand: The Terra-Stand is made of a high impact copolymer polypropylene adjusts from 2" to 21" in height and slope compensates up to 5/8" to provide a level installation.

Outside base dimension of 7" x 7" provides contact surface of 49" square. It is installed on previously established grid lines, adjusted for height and slope and ready for installation. Load of 3,000 lbs per pedestal.

An average project will require one Terra-Stand for each Terra Paver, plus the perimeter.

Basic Use: Terra-Stand is designed for exterior application using Terra Pavers on pitched roof decks, plazas, parking garages, terraces, and more.

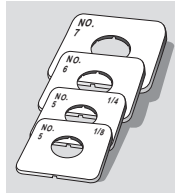
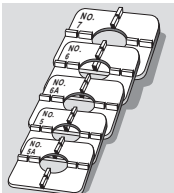
Terra-Pavers: Available in eight types and ten surfaces. Unlimited colors can be created by custom blending of matrixes and any variety of aggregates.

- Type 1 - Exposed Aggregate
- Type 2 - Granitex
- Type 3 - Fabritex and Cotillion
- Type 4 - Stoney Creek
- Type 5 - Ground/Blasted
- Type 6 - Cool Pavers
- Type 7 - Ocean View
- Type 8 - Glass Washed
- Type 9 - Glass Blasted

Sizes range from nominal 12" (30.48 cm) to 36" (91.44 cm) squares in thicknesses of 2" (50.8 mm) to 2 3/4" (76.2 mm).

Terra-Tab: An SBR rubber unit with 23% recycled content that provides for drainage, air circulation and precise paver alignment. (Patent pending)

- #7 - 1/2" (12.7 mm) thick, 7" (17.78 cm) sq., 3/16" (4.76 mm) wide
- #6 - 7/16" (11.11 mm) thick, 6" (15.24 cm) sq., 3/16" (4.76 mm) wide
- #6A - 7/16" (11.11 mm) thick, 6" (15.24 cm) sq., 1/8" (3.18 mm) wide
- #5 - 3/8" (9.53 mm) thick, 5" (12.7 cm) sq., 3/16" (4.76 mm) wide
- #5A - 3/8" (9.53 mm) thick, 5" (12.7 cm) sq., 1/8" (3.18 mm) wide



Terra-Shim: An SBR rubber unit with 23% recycled content that provides for shimming uneven surfaces to a level plane.

- #7 - 1/8" (3.18 mm) thick, 7" (17.78 cm) sq.
- #6 - 1/8" (3.18 mm) thick, 6" (15.24 cm) sq.
- #5 - 1/8" (3.18 mm) thick, 5" (12.70 cm) sq.
- #5 - 1/4" (6.36 mm) thick, 5" (12.70 cm) sq.



Terra-Stand: Adjustable paver pedestal that screws up and down and tilts side to side to provide level surface for the paver installation.

Waffle-Reducer: Base with four rings for height adjustments between 1/2" (12.7 cm) and 2" (5.8 cm) with 3/8" / 3/4" (9.53 mm) increments.

Blok Handle: Steel handle for management and placement of Terra-Pavers. Available in nominal: 12" (30.48 cm), 18" (45.72 cm), 24" (60.96 cm)

Big- Blok Handle: Two-person steel handle for management and placement of Terra-Pavers. Adjustable to work with nominal 24" (60.96 cm), 30" (76.2 cm), and 36" (91.44 cm) Terra Pavers.

Wheel-Attachment: Attaches to big blok handle, allows for one person to lift and position large pavers.

Limitations: Substrates that receive Terra System One must be designed to support the weight of the system.

TECHNICAL DATA:

Terra-Pavers: Concrete paving stones individually formed under intense vibration and hydraulic pressure. Tests are documented by independent laboratories on projects of 10,000 sq. ft (929 sq. m) or larger. Materials conform to these ASTM specifications:

- ASTM C 150 for Portland cement
- ASTM C 33a for normal weight aggregate
- Applicable ASTM coloring specifications where necessary
- ASTM C 140 for minimum compression strength of 7,500 psi (average 8,000 psi in 2" material)
- ASTM C 140 for water absorption not greater than five to six percent
- ASTM C 293 for flexural strength of 800 psi in 2" material
- ASTM C 67 Section 8 Freeze/Thaw - no breakage and not greater loss than one percent in dry weight of any individual unit when subjected to 50 cycles
- Center Load - individual pavers should support a concentrated load of 1,850 lbs on 2" material. (793.8 kg) when supported on four corners. Test method WT CL-96
- Sizing - permissible variations in dimensions should not differ by more than 1/16" (1.59 mm) in width, height, length, thickness, or convex or concave deflection. Standard units are manufactured with a 3/16" (4.76 mm) bevel on four sides of finished surface.

Terra-Tab: SBR rubber unit with 23% recycled content manufactured exclusively for the support of the Terra Pavers on the Terra Stand installed over a waterproof membrane. It has a shore hardness 70 (ASTM D 2240-91) allowing for resiliency without sound transmission. Available in three sizes to accommodate all paver sizes.

Terra-Tab spacing tabs allow for perfect 3/16" (4.76 mm) joints to provide for expansion, air circulation, drainage, and precise alignment. Optional 1/8" (3.18 mm) tabs are available for the #5A and #6A tabs.

Average installations call for one Terra-Tab per paver on a standard square or rectangular deck. Decks of other designs and/or containing columns will require more Terra-Tabs for use with the cut pavers.

Terra-Shim Plates: SBR rubber units with 23% recycled content. 1/8" (3.18 mm) thick manufactured to coincide with Terra-Tab sizes. Average installation requires five shim plates per 100 Terra-Tabs. Irregularities in deck sub-surfaces will increase the number of shims required. Optional 1/4" - #5 shims are available upon request.

Terra-Tabs and Terra-Shims can be set directly on the waterproof membrane, on an optional protection board or insulation without harm.

Waffle Reducer: The waffle Reducer is made of high impact copolymer polypropylene. Waffle Reducer is made to accommodate height adjustments 1/2" to 2". An outside base diameter of 6" provides surface contact of 33 square inches.

The unit consists of one base with 3 pieces of 3/8" waffle rings and 1 piece of 3/4" waffle ring.

Blok Handle: Made of 10-gauge HRCQ steel, Blok Handles are available for most Terra-Pavers. Precise sizing of the handle provides for easy manipulation during installation without harm to the paver or other components, while allowing for 3/16" (4.76 mm) joints. The handle also makes removal easy, should repairs to subsurface components be necessary.

Big-Blok Handle: Made of steel, unit is adjustable to work with 24" nominal (60.96 cm), 30" (76.2 cm), and 36" (91.44 cm) pavers. Requires two people to operate.

Wheel Attachment: Takes the place of one handle, enabling one person to transport and place paver units. Made of steel, with a 16" x 6.5" pneumatic tire.

INSTALLATION:

Installation requirements depend upon individual project needs. Wausau Tile, Inc. will recommend tools and techniques, however contractors should have experience in the installation of similar systems. Grid layout and pattern are determined by the architect or installing contractor.

Typical installations begin by determining a starting point based on pattern layout. Next, measurements are taken and chalk lines placed. Terra-Stands or Waffle Reducers are then

placed at the intersections of the chalk line and adjusted as required. A Terra-Tab is placed on top of adjusted unit. Terra-Pavers are then set on Terra-Tabs. Should repair to the sub-structure be needed, Terra-Pavers are easily removed and replaced with the Blok Handle or Big-Blok Handle.

AVAILABILITY AND COST:

Terra-Stand and other components are delivered factory direct with Terra-Pavers. Prices quoted upon request.

WARRANTY:

Full Terra System installation, using all components, carries a three-year Limited Warranty.

A copy of the complete warranty is available upon request. Warranties can be negotiated for extension.

MAINTENANCE:

Complete Terra System installations require periodic cleaning by use of high-pressure water system to rinse off debris. Regular maintenance also includes adjustment of pavers that may have shifted or been damaged. Installations over waterproof membranes allow for access to the substrate for maintenance. Drains should be cleaned as needed to prevent water back up.

TECHNICAL SERVICES:

Consultation services are available for all Terra System One applications, including paver selection, project design, and installation recommendations. Contact Wausau Tile's Terra-Paving Division for any assistance.

This information updated 6/10/05 by Wausau Tile, Inc.

