Eco-Priora™
Concrete Paver Environmental Systems
Pavestone Eco-Priora™ is the sustainable solution for permeable pavements. Eco-Priora™ is produced in a 120mm x 240mm rectangular module that is 80mm in thickness with a patented interlocking joint and a micro-chanmered top edge profile. This ingenuity is singular to the Pavestone Eco-Priora™ product and insures optimum pavement performance unequaled in the permeable paver industry. The unique Eco-Priora™ joint profile allows surface water to infiltrate into the pavement and its sub-layers. With initial permeability average flow rates of over 100 inches per hour, the Eco-Priora™ product, even with a clogging factor, will still meet the majority of current storm water management plans (SWMP). The structural interlocking capability is achieved by the paving unit having interlocking joints with a minimum of two vertically aligned horizontal interlocking spacer bars on each of its sides. These spacer bars interlock throughout the depth of the block and nest adjacent to neighboring paving units. This interlocking function resists lateral and vertical displacement when the unit is exposed to load. The dynamics of pavement stress are better distributed providing a structurally superior permeable paving system.

The micro-chanmered top edge profile produces a horizontal edge to edge dimension that is nominally 7mm including installation gapping. This small joint complies dimensionally with current ADA requirements for walking surfaces with spaces no greater than 1/2 inch. This narrow jointed surface diminishes vibration for wheelchairs and shopping carts when compared to all other permeable paving products. Eco-Priora™ can assist in meeting current EPA storm water regulations and LEED certification. The Eco-Priora™ product best achieves the balance of aesthetic segmental paving and the function of permeable pavement.

APPLICATIONS
Parking Lots • Driveways • Patios • Entrance Areas • Sidewalks
Terraces • Garden Pathways • Pool Decks • Pedestrian Malls • Roof Gardens • Streets

COMPOSITION AND MANUFACTURE
Eco-Priora™ is available in one size. Height = 80mm. Eco-Priora™ is made from a “no slump” concrete mix made under extreme pressure and high frequency vibrations. Eco-Priora™ has a compressive strength greater than 8000 psi, a water absorption maximum of 5% and will meet or exceed ASTM C-936. Note: Requires modifying the ASTM C 140 - Paver Annex A4 - “The test specimen shall be 60 x 3 mm thick and, if necessary, cut to a specimen size having a Height/Thickness (width) [H/T] aspect ratio of 0.6 ± 0.1

INSTALLATION
1. Excavate unsuitable, unstable or unconsolidated subgrade material.
   Compact the area, which has been cleared as per the engineer’s of record (EOR) requirements. Backfill and level with open graded aggregates as per the EOR’s structural and hydraulic design.
2. Place bedding course of hard and angular material conforming to the grading requirements of ASTM No. 8 or No. 9 to a uniform minimum depth of 1 1/2” - 2.” (38mm) screeded to the grade and profile required.
3. Install Eco-Priora™ with joints approximately 1/4”. (7mm).
4. Where required, cut pave stones with an approved cutting device to fit accurately, neatly and without damaged edges.
5. Tamp pave stones with a plate compactor, uniformly level, true to grade and free of movement.
6. Spread a thin layer of hard angular material conforming to the grading requirements of ASTM No. 8 or No. 9 aggregate over entire paving area.
7. Make one more pass with plate compactor to nest the aggregate and fill joints to the top.
8. Sweep and remove surplus joint material.
   Complete installation & specification details are available by contacting your Pavestone Sales Representative.

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Eco-Priora™ Dimensions: 4 3/4” W x 9 3/4” L x 3 1/8” H
Wt./Stone: 11.5 lbs.
Stones/Pallet: 280
Approx. Wt./Pallet: 3,255 lbs.
Sq. Ft./Pallet: 88
Product Number: 699

PRODUCT INFORMATION

PERMEABLE PAVERS TREATMENT
Concrete Pavers Min. 3 1/8” (80mm) Thick
Typ. ASTM No. 8 or No. 9 Aggregate In Openings
Curb/Edge Restraint With Cut-Outs For Overflow Drainage (Curbs Shown)

Bedding Course 1 1/2” to 2” (40 to 50mm) Thick
Typ. ASTM No. 8 or No. 9 Aggregate

Min. 4” (100mm) Thick ASTM No. 57 Stone
Open - Graded Base

ASTM No. 57 Stone Open Graded
Perforated Pipes Sloped To Drain
Soil Subgrade Sloped To Drain

PERMEABLE PAVERS TREATMENT AND DETENTION
Concrete Pavers Min. 3 1/8” (80mm) Thick
Typ. ASTM No. 8 or No. 9 Aggregate In Openings
Curb/Edge Restraint With Cut-Outs For Overflow Drainage (Curbs Shown)

Bedding Course 1 1/2” to 2” (40 to 50mm) Thick
Typ. ASTM No. 8 or No. 9 Aggregate

Min. 4” (100mm) Thick ASTM No. 57 Stone
Open - Graded Base

Min. 6” (150mm) Thick ASTM No. 2 Stone Subbase
ASTM No. 57 Stone Open Graded
Perforated Pipes Sloped To Drain
Soil Subgrade Sloped To Drain

Note: Permeable pavements require both civil and hydraulic engineering. All final pavements design shall be approved by a licensed engineer familiar with local site conditions, building codes and storm water management plans.