



GOUCHER COLLEGE; BALTIMORE, MD

Technical Guidelines

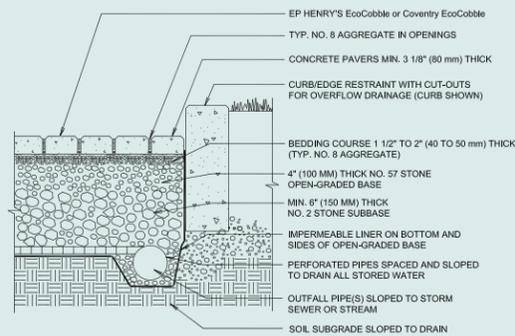
- EP Henry ECO Permeable Pavers conform to ASTM C936 in the U.S. or CSA A231.2 in Canada
- Open-graded crushed stone recommended for all aggregates
- Joint filling stone gradation: ASTM #8, 87, 89 or 9
- 100% permeable surface
- Base gradation: ASTM #57
- Sub base gradation: ASTM #2, 3 or 4
- Optional geotextile: consult manufacturers for selection
- Soil subgrade: classified per ASTM D2487; tested for permeability per ASTM D3385
- Structural design: ICPI design chart determines minimum base thickness to support pedestrian and vehicular traffic (see references)
- ADA Compliant: joints $\leq 1/2''$ (ECO Cobble®, Coventry® ECO Cobble®, and ECO Brick Stone™ = $3/8''$ and ECO Paver™ = $1/2''$)



For extensive information on permeable paving and the many options EP Henry's ECO line offers, please visit ephenryecocenter.com or call 800-444-3679.

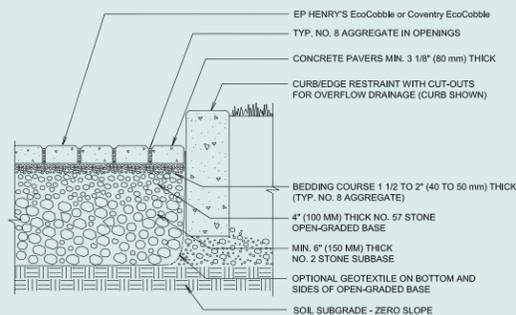
EP Henry has been the residential and commercial industry leader for quality architectural products since 1903. From our pavers and permeable paving systems, retaining walls, architectural block, Cast Veneer Stone, and more—our integrated product lines are engineered to last a lifetime. That's a promise we stake our reputation on every day!

DESIGN DETAILS



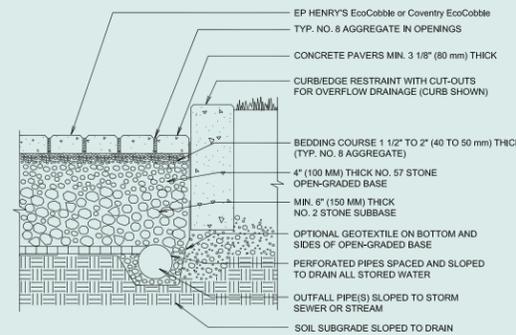
- NOTES:
1. 2 3/8" (60 MM) THICK PAVERS MAY BE USED IN PEDESTRIAN APPLICATIONS.
 2. NO. 2 STONE SUBBASE THICKNESS VARIES WITH DESIGN. CONSULT ICPI PERMEABLE INTERLOCKING CONCRETE PAVEMENT MANUAL.

PERMEABLE PAVEMENT WITH NO EXFILTRATION TO SOIL SUBGRADE	DRAWING NO.	ICPI-70
	SCALE	NO SCALE



- NOTES:
1. 2 3/8" (60 MM) THICK PAVERS MAY BE USED IN PEDESTRIAN APPLICATIONS.
 2. NO. 2 STONE SUBBASE THICKNESS VARIES WITH DESIGN. CONSULT ICPI PERMEABLE INTERLOCKING CONCRETE PAVEMENT MANUAL.

PERMEABLE PAVEMENT WITH FULL EXFILTRATION TO SOIL SUBGRADE	DRAWING NO.	ICPI-68
	SCALE	NO SCALE



- NOTES:
1. 2 3/8" (60 MM) THICK PAVERS MAY BE USED IN PEDESTRIAN APPLICATIONS.
 2. NO. 2 STONE SUBBASE THICKNESS VARIES WITH DESIGN. CONSULT ICPI PERMEABLE INTERLOCKING CONCRETE PAVEMENT MANUAL.

PERMEABLE PAVEMENT WITH PARTIAL EXFILTRATION TO SOIL SUBGRADE	DRAWING NO.	ICPI-69
	SCALE	NO SCALE

LEED Credits for which EP Henry ECO Pavers may apply:

1. SS Credit 5.2 Site Development: Maximize Open Space
2. SS Credit 6.1 Stormwater Design: Quantity Control
3. SS Credit 6.2 Stormwater Design: Quality Control
4. SS Credit 7.1 Heat Island Effect: Nonroof
5. MR Credit 2 Materials and Resources: Construction Waste Management
6. MR Credit 3 Materials and Resources: Material Reuse
7. MR Credit 4 Materials and Resources: Recycled Content
8. MR Credit 5 Materials and Resources: Regional Materials
9. ID Credit 1 Innovation in Design
10. RP Regional Priority Credits



CALVIN COOLIDGE HIGH SCHOOL; WASHINGTON, DC

Beautiful. Sustainable. Smart.



ephenryecocenter.com

EP Henry's line of Permeable Interlocking Concrete Pavers

800-44-HENRY



ENVIRONMENTAL PAVERS

PAVER SYSTEMS

ENGINEERED WALL SYSTEMS

PROFILE CONCRETE MASONRY



PRIVATE RESIDENCE



CENTREVILLE WHARF, MD



KUHNER FUNERAL HOME, YORK, PA

EP Henry's ECO™ line of Permeable Interlocking Pavers are uniquely designed to be used as sustainable paving systems for both pedestrians and vehicular applications. Installing EP Henry's ECO pavers on your clients' commercial or residential patios, walkways, driveways, or parking lots is a great way to reduce stormwater runoff, adhere to Best Management Practices (BMP's) by the EPA and state agencies, and obtain credits for your LEED-certified projects. EP Henry's ECO Pavers offer an unprecedented selection of sizes, colors, textures, patterns and performance. Also, EP Henry ECO Cobble® and Coventry® ECO Cobble® can be interchangeably installed with our non-permeable Coventry® Stone I and Old Towne Cobble™ and ECO Brick Stone™ can be installed with Brick Stone — thus offering you limitless options to meet your design, budgetary, and environmental requirements.

Most versatile Permeable Interlocking Concrete Pavement (PICP) systems in the market today providing benefits in installation time and cost savings; unlimited pattern and edging combinations available when integrated with our existing non-permeable paver product lines

- Available in:
 - MULTIPLE COLORS – including an SRI-compliant color and custom colors available where project scope and schedule permit
 - MULTIPLE SIZES – 4" x 8", 6" x 6" and 6" x 9"
 - MULTIPLE THICKNESSES – 6cm for pedestrian traffic and 8cm for vehicular traffic
 - MULTIPLE TEXTURES – Aged and Smooth
 - MULTIPLE PATTERNS – Herringbone, Random, "I", and Running Bond

Eligible for LEED credits (see back for full listing)

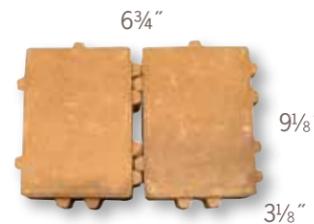
ECO PAVER™



AUTUMN BLEND

HARVEST BLEND

PEWTER BLEND



ECO COBBLE® & COVENTRY® ECO COBBLE®



DAKOTA BLEND

HARVEST BLEND

PEWTER BLEND



ECO BRICK STONE™



DAKOTA BLEND

HARVEST BLEND

PEWTER BLEND



SR1*

STRASBURG RED



*SRI stands for "Solar Reflective Index" which is used to determine the effect of the reflectance and emittance on the surface temperature, and varies from 100 for a standard white surface to zero for a standard black surface. Pavers that meet SRI requirements help minimize "heat island effect" which is a result of absorption rather than reflection of the sun's rays. Minimizing heat islands reduces energy requirements, particularly in densely populated and urban areas.



Visit ephenryecocenter.com or call 800-44-HENRY for the most up-to-date product offerings, case studies and industry news.

- infiltrate, filter and decrease stormwater runoff rate and reduce Total Maximum Daily Load (TMDL).
- LEED® point eligible for Sustainable Sites, Water Efficiency, Materials & Resources and/or Innovative Design; Contribute to Green Globe points.
- meet U.S. Environmental Protection Agency (EPA) stormwater performance criteria as a structural best management practice (BMP) while providing parking, road and pedestrian surfaces.
- achieve water quality improvement by processing and reducing pollutants such as vehicular oil drippings.
- help meet local, state and provincial stormwater drainage design criteria, and provide compliance with the U.S. National Pollutant Discharge Elimination System (NPDES) regulations.
- are the paver selected by the USEPA to be used in a long term study of permeable pavement options vs. traditional non-permeable paving.
- provide 100% pervious surface by runoff passing through small, aggregate-filled openings between solid high-strength durable concrete pavers.
- reduce or eliminate stormwater detention and retention ponds, storm sewers, drainage appurtenances, and related costs.
- may be used on sloped sites with proper design.
- have the modular concrete units that allow for project phasing; open-graded base and subbase materials are typically available locally.
- are ideal for implementation with rainwater harvesting systems (systems capable of storing water for on-site irrigation or building grey water use).
- may be designed with underground stormwater storage systems, over many slower-draining clay soils and in cold climates.
- achieved an infiltration rate of 577 inches per hour in an ASTM-C1701 simulated test conducted by ICPI and Gilmore Engineers.

CONSTRUCTION ADVANTAGES OVER OTHER PERMEABLE PAVEMENT SYSTEMS:

- can install and compact aggregate subbase and base with standard paving equipment
- pavers, non-frozen bedding material and base/subbase are installable in freezing temperatures over non-frozen soil subgrade
- no post-installation curing time is necessary — surface is ready to use upon installation; modular construction allows for project phasing
- a "zippable" system where pavers can be easily removed and re-layed for access to underground utilities, wiring, etc.