



# Permeable Interlocking Concrete Pavement

**J. Paul Guyer, P.E., R.A.**



## **Permeable Interlocking Concrete Pavement:**

**Permeable Interlocking Concrete Pavements** David Randolph Smith, 2006 *Permeable Interlocking Concrete Pavements*, 2005 *Permeable Interlocking Concrete Pavement* United States. Federal Highway Administration, 2015 This TechBrief presents an overview of permeable interlocking concrete pavement (PICP) and its use. General information is provided on PICP composition with a summary of benefits, limitations, and characteristics. Important considerations such as hydrological design, structural design, construction, and maintenance are also provided. **An Introduction to Interlocking Permeable Concrete Pavement for Professional Engineers** J. Paul Guyer, 2024-10-18 Introductory technical guidance for Professional Engineers and construction managers interested in permeable interlocking concrete pavement for streets and highways. *Hydraulic Characterization of Interlocking Concrete Permeable Pavement* Amanda Rene Leipard, 2015 The environmental benefits of permeable pavements are vast and include stormwater quantity reduction, stormwater quality improvement, urban heat island mitigation, and groundwater recharge among others. Permeable Interlocking Concrete Pavements (PICP) explicitly infiltrate water, a new concept to engineering practice for pavements. This technology, as a load-carrying surface, has not yet been fully characterized, nor has the decades of design and performance experience of conventional pavements. This research project developed a hydraulic design methodology for PICPs. Test sections were evaluated in a two-layer hydraulic flume to determine horizontal infiltration rates and overflow rates for various block spacing patterns and across a broad range of pavement cross slopes. Results demonstrated the infiltration rate of the PICPs exposed to horizontal sheet flow was significantly lower than the measured vertical infiltration rate, which is currently used in field verification. The results also showed that the infiltration rates are inversely related to the cross slope of the pavement. Additional research included permeable concrete pavement as an alternative sub base and clogging tests, which included the creation of synthetic stormwater for PICP, was completed and analyzed. *Permeable Interlocking Concrete Pavements*, 2018 [Permeable Interlocking Concrete Pavement](#) David Smith, 2017-09-15 Design specifications, construction, and maintenance guidelines for permeable interlocking concrete pavements. *Hydraulic Design of Interlocking Concrete Permeable Pavement* Monica Rene Stochl, 2015 Stormwater management and design was developed to reduce the impacts of runoff due to the increase in urbanization and impervious area in the hydrologic system. Stormwater management takes many different forms, including Best Management Practices (BMP). BMPs include both non-structural and structural practices. McCall III, 2014 The focus of this thesis is on the structural BMP, Permeable Interlocking Concrete Pavement (PICP). PICP is a type of pervious pavement that will increase the amount of water infiltrated through joint spacing filled with open-graded aggregate above an open-graded base and sub base, creating a stormwater storage and infiltration. Interlocking Concrete Pavement Institute, 2014 The reduction of runoff from increasing storage and infiltration also reduces the amount of pollution that would enter nearby water bodies. Environmental Protection Agency, 1999 Laboratory testing was conducted on a PICP section.

with at a variety of slopes and spacing The laboratory results are presented in Amanda Leipard s 2015 Thesis Hydraulic Characterization of Permeable Interlocking Concrete Pavement The results found the horizontal infiltrate rate for each variation lower than the corresponding vertical infiltration rate A computational design tool was built for PICP based on relative storm information and site information to determine the hydraulic characteristics the site can attain Clogging and Maintenance of Permeable Interlocking Concrete Pavement Tahmineh Sarabian,2019 This research evaluates five of the different maintenance techniques to restore surface infiltration rate for permeable interlocking concrete pavements 1 specialized maintenance equipment for permeable pavement 2 pressure washing followed by manual vacuuming 3 a regenerative air streetsweeper 4 a vacuum streetsweeper and 5 a mechanical streetsweeper A synthetic accelerated clogging method was developed to prepare the pavement for maintenance Surface infiltration rates were measured throughout the clogging process and after the application of maintenance Following the application of maintenance joint penetration depths were also measured The specialized equipment had the best performance completely restoring of the pavement permeability The vacuum sweeper had the best performance among the sweepers by restoring 80% of the pavement permeability Results of this work will be used to develop best management practices for maintenance of permeable interlocking concrete pavements An Introduction to Permeable Concrete Pavement J. Paul Guyer, P.E., R.A.,2019-09-23 Introductory technical guidance for civil engineers and highway managers interested in permeable portland cement concrete pavement design construction and maintenance Here is what is discussed 1 BACKGROUND 2 DESIGN 3 CONSTRUCTION 4 MAINTENANCE 5 PERFORMANCE 6 REFERENCES Potential Application of ASTM C1701 for Evaluating Surface Infiltration of Permeable Interlocking Concrete Pavements David R. Smith, Kevin Earley, Justin M. Lia, 2012 As a sister sustainable pavement to pervious concrete permeable interlocking concrete pavement PICP has seen increased use for stormwater management and low impact development Surface infiltration is a key performance indicator for both pavement types This paper provides a brief background of the development of test methods for measuring the surface infiltration of permeable pavements Among these test methods is the single ring infiltrometer method described in ASTM C1701 which was developed to test the surface infiltration of PICP concrete grid pavements and pervious concrete Research literature references on surface infiltration testing at sites in Long Island NY confirm that ASTM C1701 is suitable for measuring the surface infiltration rate of PICP The post construction pavement surface infiltration results there demonstrated an average rate of  $1.4 \times 10^{-3} \text{ m/s}$  or 200 in/h or greater Test results are also referenced from U S Environmental Protection Agency surface infiltration testing that used a modified version of ASTM C1701 at a permeable pavement research facility in Edison NJ consisting of PICP pervious concrete and porous asphalt Modifications to ASTM C1701 are proposed that include the use of 1 modeling clay to seal the ring to the pavement in hot weather and 2 graduated bucket s to determine the mass of infiltrated water Graduations can eliminate the use of a scale on the test site to determine the infiltrated water s mass In addition changes to ASTM C1701 are

proposed to include PICP concrete grid pavements and porous asphalt for comparative purposes [Permeable Pavements](#) Bethany Eisenberg, Kelly Collins Lindow, David Randolph Smith, 2015 **Development and Heavy Vehicle Simulator Validation of Design Tables for Permeable Interlocking Concrete Pavement: Final Report** H. Li, R. Wu, John Thaddeus Harvey, University of California (System). Pavement Research Center, 2014 [Permeable Pavements](#) Bethany Eisenberg, Kelly Collins Lindow, David Randolph Smith, 2015 Sponsored by the Low Impact Development Committee of the Urban Water Resources Research Council of the Environmental and Water Resources Institute of ASCE Permeable Pavements is a comprehensive resource for the proper design construction and maintenance of permeable pavement systems that provide a transportation surface and a best management practice for stormwater and urban runoff A cornerstone for low impact development LID and sustainable site design permeable pavements are considered a green infrastructure practice They offer many environmental benefits from reduced stormwater runoff and improved water quality to better site design and enhanced safety of paved surfaces Commonly used for walkways driveways patios and low volume roadways as well as recreational areas parking lots and plazas permeable pavements are appropriate for many different land uses particularly in highly urbanized locations This volume synthesizes today's knowledge of the technology drawing from academia industry and the engineering and science communities It presents an overview of typical permeable pavement systems and reviews the design considerations Detailed design construction use and performance information is provided for porous asphalt pervious concrete permeable interlocking concrete pavement and grid pavements Fact sheets and checklists help to successfully incorporate permeable pavement systems into design projects Additional chapters summarize emerging technologies maintenance considerations hydrologic design approaches key components for specification writing and key areas for additional research Appendixes include a fact sheet clarifying information on common concerns as well as data tables summarizing water quality treatment performance and costs Permeable Pavements is an essential reference for engineers planners landscape architects municipalities transportation agencies regulatory agencies and property owners planning to implement this best management practice for stormwater and urban runoff [PICP Specialist Course Student Manual](#) Interlocking Concrete Pavement Institute, 2020-10 The PICP Specialist Course Student Manual outlines best practices for the installation of permeable interlocking concrete pavements Topics addressed include system components stormwater management job planning and documentation site flow and estimating soil and site characteristics subbase and base materials edge restraints bedding and jointing materials selection and installation of permeable interlocking concrete pavers and maintenance **Winter Maintenance of Permeable Interlocking Concrete Pavement** Jeffrey Thomas Marvin, 2019 Permeable Interlocking Concrete Pavement PICP rapidly drains surface water through its paver joint spaces and therefore has the potential to prevent ice from forming during winter conditions As a result PICP may reduce the amount of road salt needed for de icing paved surfaces and it may also reduce the risk of pedestrian slipping and vehicle skidding PICP also has

the potential to reduce chloride concentrations released to the environment from winter salting practices as melted ice and snow are temporarily retained within the aggregates of its base and subbase layers This study evaluates the performance of an outdoor PICEP and asphalt test pad over two winter seasons in Vaughan Ontario by assessing differences in surface conditions surface friction surface temperatures and chloride concentrations PICEP was found to prevent melted ice and snow from refreezing have less drastic reductions in surface temperatures at sunset and attenuate and delay chloride concentrations

**Green Stormwater Infrastructure for Sustainable Urban and Rural Development** Luis A. Sañudo-Fontaneda, William F. Hunt, 2021-04-22 Green Stormwater Infrastructure for Sustainable Urban and Rural Development offers some of the latest international scientific and practitioner findings around the adaptation of urban rural and transportation infrastructures to climate change by sustainable water management This book addresses the main gaps in the up to date literature and provides the reader with a holistic view ranging from a strategic and multiscale planning implementation and decision making angle down to the engineering details for the design construction operation and maintenance of green stormwater techniques such as sustainable drainage systems SuDS and stormwater control measures SCMs This book is particularly recommended for a wide audience of readers such as academics researchers and students in the fields of architecture and landscaping engineering environmental and natural sciences social and physical geography and urban and territorial planning This book is also a resource for practitioners and professionals developing their work in architecture studios engineering companies local and regional authorities water and environmental industries infrastructure maintenance regulators planners developers and legislators

*The Roles of Accelerated Pavement Testing in Pavement Sustainability* José P. Aguiar-Moya, Adriana Vargas-Nordbeck, Fabricio Leiva-Villacorta, Luis G. Loría-Salazar, 2016-09-15 This compendium gathers the latest advances in the area of Accelerated Pavement Testing APT a means of testing full scale pavement construction in an accelerated manner for structural deterioration in a very short term Compiling novel research results presented at the 5th International Conference on Accelerated Pavement Testing San Jose Costa Rica the volume serves as a timely and highly relevant resource for materials scientists and engineers interested in determining the performance of a pavement structure during its service life 10 years in a few weeks or months

Sustainable Landscape Management Ann Marie VanDerZanden, Thomas W. Cook, 2010-11-05 THE COMPLETE GUIDE TO THE SUSTAINABLE MANAGEMENT OF LANDSCAPES A must have guide for anyone working with landscapes Sustainable Landscape Management eases the transition of the landscape industry into a new era of green consciousness Filled with examples that illustrate best practices the book provides a practical framework for the development of sustainable management strategies from design to execution and eventually to maintenance in an effort to construct landscapes that function more efficiently and minimize the impact on the environment Sustainable Landscape Management includes An overview of sustainable design and construction techniques as the basis for the maintenance and management of constructed landscapes Coverage of

ecosystem development managing landscape beds managing trees and shrubs and lawn care An entire chapter devoted to issues associated with the use of chemicals in landscape management Guidance on retrofitting existing landscapes for sustainability Reshaping the landscape takes on more significance as society embraces a new value system for advancing environmentally friendly ideals By following the management principles laid out in this book readers will learn the key elements for building landscapes that integrate beauty and function to create a sustainable presence that extends well into the future

An Introduction to Pavement Engineering, Volume 2 J. Paul Guyer, P.E., R.A., 2019-10-02 Introductory technical guidance for civil engineers and construction managers interested in design and construction of pavement for streets and highways This guidance comes in two volumes This volume contains the following

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In a world driven by information and connectivity, the power of words has become much more evident than ever. They have the ability to inspire, provoke, and ignite change. Such may be the essence of the book **Permeable Interlocking Concrete Pavement**, a literary masterpiece that delves deep into the significance of words and their impact on our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book's key themes, examine its writing style, and analyze its overall impact on readers.

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