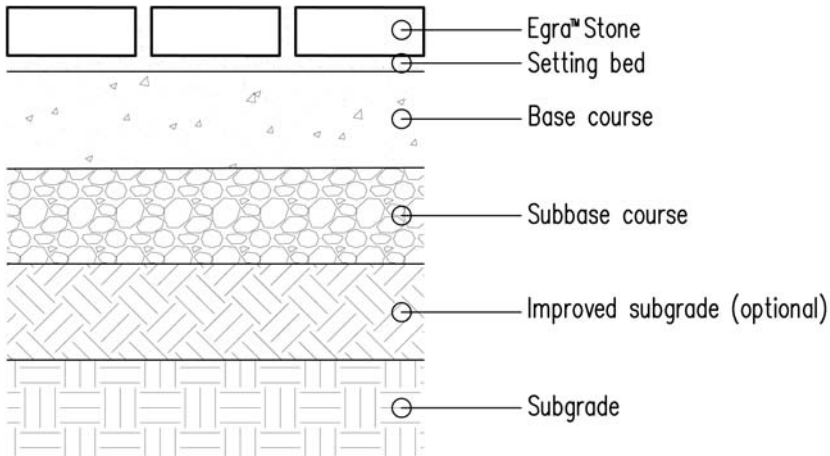
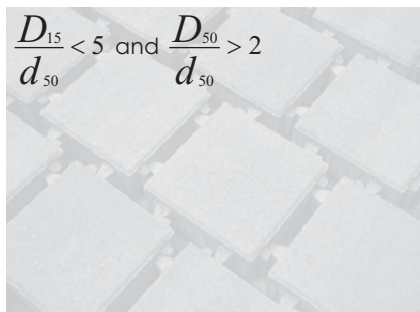


EGRA™ Stone Installation Guidelines

MARENGO, ILLINOIS



Schematic porous pavement cross section



EGRA™ Stone with filter criteria equation

Sieve Size		% Passing
1 ½ in.	37.5 mm	100
1 in.	25.0 mm	95 to 100
½ in.	12.5 mm	25 to 60
No. 4	4.75 mm	0 to 10
No. 8	2.36 mm	0 to 5

ASTM C33 No. 57 gradation

Paveloc Industries, Inc. is a manufacturer of concrete paving stones and modular retaining walls. As part of their market development, Paveloc considered adding a porous unit block paver to their product range. Conservation Design Forum assisted Paveloc during the selection process of different European molds available for porous unit block paver production.

Following the purchase of the mold and production launch of the EGRA™ Stone, Paveloc Industries, Inc. retained Conservation Design Forum for their expertise in porous pavement design, installation, and research to produce an Installation Guideline document for Paveloc's clients.

The objectives for the Guidelines were to produce a comprehensive, yet concise document that would give the laymen and professional an understanding of what porous pavers are, how they work and porous pavement design principles. The Document was structured into three main sections that give general information on the technology, outline the various applications of porous pavers, and provide installation data. Conservation Design Forum researched various flexible pavement design methods used in the U.S. and methods specific to porous pavement design developed in Europe. The research effort addressed topics such as structural, geotechnical, and infiltration considerations, stormwater and runoff quality impacts and benefits, and appropriate material selection and specification. The findings were synthesized into a straightforward empirical design methodology suitable for installations throughout the Midwest.

client: Paveloc Industries
 project budget: \$20,000
 project team: Conservation Design Forum
 completion: 2003

