

ICC-ES Evaluation Report

ER-5863*
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A Subsidiary of the International Code Council®

 Legacy report on the 1997 *Uniform Building Code™*
DIVISION: 31 00 00—EARTHWORK
Section: 31 25 00—Erosion and Sedimentation Controls

SLOPE BLOCK EROSION PROTECTION SYSTEM

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1.0 SUBJECT

Slope Block Erosion Protection System.

2.0 DESCRIPTION

2.1 General:

The Slope Block Erosion Protection System utilizes precast concrete blocks for revetment-type construction. The blocks are assembled in running bond without mortar, grout, or reinforcement. Type S1 concrete block is 13.8 inches (350 mm) deep, 5.9 inches (150 mm) high, and 11.8 inches (300 mm) wide, and weighs 66 pounds (30 kg). The blocks may be assembled in a closed (solid) configuration, open (checkerboard pattern) arrangement, alternate (one course closed alternating with one course open in a continuous pattern), or a mixed arrangement. All configurations except the solid permit planting in the 5.9-inch-wide (150 mm) gap between Type S1 units and the 3.9-inch-wide (100 mm) gap between Type S2 units. Type S2 concrete block is 13.8 inches (350 mm) deep, 5.9 inches (150 mm) high, and 7.9 inches (200 mm) wide, and weighs 43 pounds (20 kg).

2.2 Block Units:

The units must comply with UBC (1997 *Uniform Building Code™*) Standard 21-4 and have a minimum 28-day compressive strength of 4,000 psi (27.6 MPa) when tested in accordance with ASTM C 140 using Type I or Type II portland cement complying with ASTM C 150-94. Dimensional tolerances are as follows: depth, $\pm 1/8$ inch (3.2 mm); width, $\pm 1/8$ inch (3.2 mm); height $\pm 5/64$ inch (2 mm).

2.3 Installation:

2.3.1 General The system must be installed at an angle of inclination equal to or greater than 27 degrees from the vertical to function as cladding or erosion control.

The top course of the system is always a closed assembly set in mortar. The bottom course of block is also a closed assembly.

Type S1 block may be assembled in a curved layout with a minimum radius of 9 feet (2743 mm) measured from the back face (earth face) of the bottom course of block and the outside face (exposed face) of the top course of block. Type S1 outside face gap is limited to 5.9 inches (150 mm), maximum, for curved open arrangement with a minimum bearing contact width of 2.5 inches (63.5 mm), measured from either side of the gap. Type S2 outside face gap is limited to 3.8 inches (97 mm), maximum, for curved open arrangement with a minimum bearing contact width of 2 inches (51 mm), measured from either side of the gap.

2.3.2 Special Requirements:

- The engineer of record must design the system where required under current applicable codes.
- Following installation, the angle of inclination from vertical must be verified to be no less than that specified by the engineer of record.
- The engineer of record must provide drainage details, as applicable.
- Foundation and backfill, if any, must conform to plans and specifications.
- A Slope Block Inc. representative must issue a written approval before the system is installed.

3.0 EVIDENCE SUBMITTED

Descriptive literature and a quality control manual.

4.0 FINDINGS

That the Slope Block Erosion Protection System complies with the 1997 *Uniform Building Code™* (UBC), subject to the following conditions:

- The Slope Block units are verified as complying with the mix design, compressive strength and dimensions noted in this report.**
- The system is installed in accordance with this report and the manufacturer's published instructions.**
- Use of the Slope Block Erosion Protection System as a retaining wall is outside the scope of this report.**

*Revised March 2013

4.4 There is no recognition of product manufacturing under this report. All block units must comply with Section 2.2 of this report and evidence of compliance must be submitted to the code official for approval.

This report is subject to re-examination in two years.

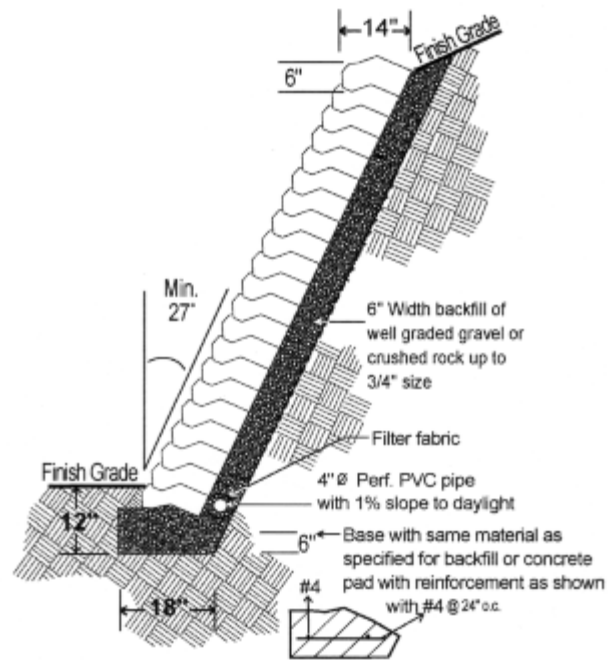


FIGURE 1—TYPICAL INSTALLATION