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ICC-ES Evaluation Report

ESR-4083

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Issued 03/2018

This report is subject to renewal 03/2019.

**DIVISION: 33 00 00— UTILITIES
SECTION: 33 46 00— SUBDRAINAGE**

RICHTECH INDUSTRIES

**34000 LEAR INDUSTRIAL PARKWAY
AVON, OHIO 44011**

EVALUATION SUBJECT:

QUIKFLO



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DIVISION: 33 00 00—UTILITIES
Section: 33 46 00—Subdrainage

REPORT HOLDER:

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AVON, OHIO 44011
(440) 937-4401
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EVALUATION SUBJECT:

QUIKFLO

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2018 and 2015 *International Building Code*® (IBC)
- 2018 and 2015 *International Residential Code*® (IRC)

Property evaluated:

Foundation Drainage

2.0 USES

The Quikflo is used to lower the ground-water table and supplement subsoil drainage system required in IBC Section 1805.4 and IRC Section R405.

3.0 DESCRIPTION

3.1 General:

The Quikflo system consists of 8-foot-long (2.44 m) extruded drainage drains and connectors which are used to connect the drainage channels and to the drainage pipe which discharges to an approved area in accordance with the IBC or IRC as applicable.

Quikflo is manufactured from extruded polyvinyl chloride (PVC) compound. The components of the system are described in Sections 3.2 and 3.3. Figure 1 of this report depicts a cross section of a typical application of the channel.

3.2 Quikflo Drains

The Quikflo drains are 8 feet long (2.44 m), 4 inches (101.6 mm) wide and 2.25 inches (57.15 mm) high.

Water enters the drain through holes in the exterior vertical face of the drain, and passes through the system to outlet fittings which provide the connection of the Quikflo to an approved discharge area in accordance with the IBC or IRC as applicable.

3.3 Quikflo Fittings

The Quikflo fittings are used to connect the drains to each other and to connect the foundation drain system created by Quikflo to an approved drainage disposal system. The fittings consist of straight connectors, 90° and 135° corners, and "Tee" connectors. See Figure 2 of this report for illustrations of the various fitting types.

The straight connectors and the 90° and 135° corners are manufactured with an interior taper or friction fit so that the drains are slip fit into the fittings, without the use of solvents or adhesives, to form the foundation drain system.

4.0 DESIGN AND INSTALLATION

The Quikflo system must be installed in accordance with the manufacturer's published installation instructions and this report. A copy of the manufacturer's published installation instructions must be available at the job site at all times during installation.

Quikflo drain has a flow capacity of minimum of 43.1 gallon per hour (163.1 liter per hour) per foot of the drain.

Discharge of the Quikflo system must be in accordance with IBC Section 1805.4.3 or IRC Section R405.1, as applicable.

5.0 CONDITIONS OF USE

The Quikflo system described in this report complies with, or is a suitable alternative to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

5.1 Installation must comply with this report, the manufacturer's published installation instructions and the applicable code. In the event of a conflict between the manufacturer's published installation instructions and this report, this report governs.

5.2 Dampproofing and waterproofing shall be in accordance with IBC Section 1805.1 and IRC R406.

6.0 EVIDENCE SUBMITTED

6.1 Manufacturer's published descriptive literature and installation instructions.

6.2 Engineering calculations addressing water flow capacity of the Quikflo system.

6.3 Quality documentation in accordance with ICC-ES Acceptance Criteria for Quality Documentation (AC10).

7.0 IDENTIFICATION

Quikflo system components must be labeled with the manufacturer's name and this evaluation report number (ESR-4083).



QUIKFLO TYPICAL INSTALLATION

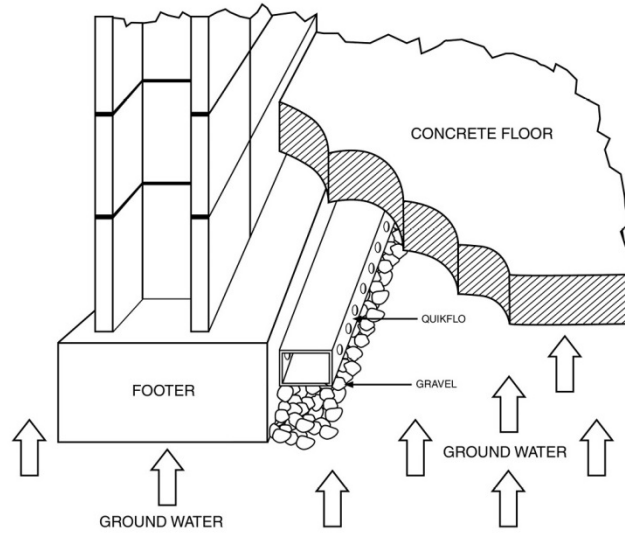


FIGURE 1—INSTALLATION CROSS SECTION

Note: For illustrative purposes only

1. QuikFlo Drain-QF10496
Sold in 8 ft. sections
2. QuikFlo 90° Corner-QF04CNR
Sold in boxes of 40 pieces
3. QuikFlo 135° Angled Corner-QF45ANG
Sold in boxes of 6 pieces
4. Clean Out Port-QF04CLN
Sold in boxes of 6 pieces
5. QuikFlo Connector-QF04CON
Sold in boxes of 36 pieces
6. QuikFlo T-Connector-QFTEE01
Sold in boxes of 4 pieces



FIGURE 2—SYSTEM COMPONENTS