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ICC-ES Evaluation Report

ESR-1107

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Reissued 03/2019
This report is subject to renewal 03/2020.

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

REPORT HOLDER:

AMERICAN WICK DRAIN CORPORATION

EVALUATION SUBJECT:

SITEDRAIN™ STRIP 6400 SERIES



“2014 Recipient of Prestigious Western States Seismic Policy Council (WSSPC) Award in Excellence”



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A Subsidiary of the International Code Council®

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

REPORT HOLDER:

AMERICAN WICK DRAIN CORPORATION

EVALUATION SUBJECT:

SITEDRAIN™ STRIP 6400 SERIES

ADDITIONAL LISTEES:

GMX, INC.

TREMCO BARRIER SOLUTIONS, INC.

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2018, 2015 and 2012 *International Building Code*® (IBC)
- 2018, 2015 and 2012 *International Residential Code*® (IRC)

Property evaluated:

Foundation drainage system

2.0 USES

SITEDRAIN™ Strip 6400 Series (hereinafter referred to as SITEDRAIN™ Strip 6400) drains are used as alternatives to conventional sand- or gravel-covered pipe drains installed around building foundations in accordance with the applicable code.

3.0 DESCRIPTION

3.1 General:

SITEDRAIN™ Strip 6400 is a composite drainage system consisting of a three-dimensional drainage core and a nonwoven, needle-punched filter fabric and fittings. The filter fabric is wrapped around and bonded to the drainage core, preventing intrusion of backfill material and the filter fabric into the flow channels during backfilling. Soil particles are held back by the filter fabric, allowing water to pass through to the drainage core.

The SITEDRAIN™ Strip 6400 drain is 1 inch (25.4 mm) deep, and is available in standard nominal widths of 6, 12, 18, 24 and 36 inches (SITEDRAIN™ Strip 6406, 6412, 6418, 6424 and 6436, respectively) and roll lengths of 50 feet (15.2 m) to 500 feet (152 m).

3.2 Components and Fittings:

3.2.1 Rigid Core: The Rigid Core component of the SITEDRAIN™ Strip 6400 drain is thermoformed from a black extruded plastic to form an internal dimpled drainage core with a 1-inch (25.4 mm) depth.

3.2.2 Filter Fabric: The Filter Fabric component of the SITEDRAIN™ Strip 6400 drain is a geotextile, made from polypropylene, that is black in color, nonwoven and needle-punched for water flow.

3.2.3 Splice Fitting: Splice fittings are used to connect rolls of SITEDRAIN™ Strip 6400 together using a minimum 3-inch-wide (76 mm) polyethylene tape at each joint.

3.2.4 Tee Fitting: Tee fittings are used to join one run or branch of SITEDRAIN™ Strip 6400 to another at a 90-degree angle. A minimum 3-inch-wide (76 mm) polyethylene tape is used to secure each joint.

3.2.5 Outlet Fitting: The Outlet Fitting is a black plastic fitting used to connect SITEDRAIN™ Strip 6400 to the drainage piping, using a minimum 3-inch-wide (76 mm) polyethylene tape at the joint.

3.2.6 Corner Fitting: The Corner Fitting is a black plastic fitting used to connect SITEDRAIN™ Strip 6400 sections around an inside or outside corner at a 90-degree angle. A minimum 3-inch-wide (76 mm) polyethylene tape is used to secure each joint.

3.2.7 Corner Guard Fitting: The Corner Guard is a black plastic fitting with polypropylene nonwoven geotextile bonded to plastic. The fitting is used as an alternative to the corner fitting to allow the bending of SITEDRAIN™ Strip 6400 around an inside or outside corner at a 90-degree angle. A minimum 3-inch-wide (76 mm) polyethylene tape is used to secure each joint.

3.2.8 Step Down Fitting: The Step Down Fitting is a black plastic fitting used with SITEDRAIN™ Strip 6400 to facilitate changing vertical height along a foundation. A minimum 3-inch-wide (76 mm) polyethylene tape is used to secure each joint.

3.2.9 Universal Fitting: The Universal Fitting is a black plastic fitting with polypropylene nonwoven geotextile bonded to the plastic, and is used to connect various widths of SITEDRAIN™ Strip 6400 to the drainage piping. A minimum 3-inch-wide (76 mm) polyethylene tape is used to secure each joint.

4.0 INSTALLATION

Prior to SITEDRAIN™ Strip 6400 installation, waterproofing or dampproofing must be installed on the

below-grade foundation or retaining wall in accordance with the applicable code. SITEDRAIN™ Strip 6400 drainage material must be unrolled along the footing at the base of the wall parallel to the length of the wall. The Filter Fabric adheres to the partially cured waterproofing or dampproofing. When SITEDRAIN™ Strip 6400 is applied to cured waterproofing, dampproofing or concrete foundations, an adhesive compatible with the drainage material, or mechanical means (i.e., insulation anchors as specified by the waterproofing or dampproofing manufacturer), must be used to hold the drain system in place. An outlet fitting must be attached to the end of the SITEDRAIN™ Strip 6400, and a 4-inch-diameter (102 mm) plastic pipe complying with the applicable plumbing code is attached to the outlet fitting. The SITEDRAIN™ Strip 6400 perimeter drain must discharge by gravity or mechanical means into an approved drainage system that complies with the applicable plumbing code. The below-grade foundation or retaining wall must then be backfilled and compacted to the density required by the applicable code.

The SITEDRAIN™ Strip 6400 must be installed in accordance with this report and the manufacturer’s published installation instructions. Where the manufacturer’s published installation instructions and this report differ, this report must govern.

5.0 CONDITIONS OF USE

The SITEDRAIN™ Strip 6400 as 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 The manufacturer must submit installation instructions for the SITEDRAIN™ Strip 6400 at the time of permit application.
- 5.2 When adhesives are used to attach the SITEDRAIN™ Strip 6400 drainage system to foundation or retaining walls, American Wick Drain Corporation must verify compatibility of the adhesives with the drainage system.

6.0 EVIDENCE SUBMITTED

Data in accordance with the ICC-ES Acceptance Criteria for Composite Foundation Drainage Systems (AC243), dated October 2005 (editorially revised January 2018).

7.0 IDENTIFICATION

7.1 Each package of the SITEDRAIN™ Strip 6400 must be identified with the name and/or trademark and the address of American Wick Drain Corporation or one of the report listees, as indicated in Table 1 of this report; the product name; and the evaluation report number (ESR-1107).

7.2 The report holder’s contact information is the following:

AMERICAN WICK DRAIN CORPORATION
1209 AIRPORT ROAD
MONROE, NORTH CAROLINA 28110
(704) 238-9200
www.awd-usa.com
smarlow@awd-usa.com

7.3 The Additional Listees’ contact information is the following:

GMX, INC.
3800 EAST 91ST STREET
CLEVELAND, OHIO 44105-2103
(704) 334-8222
www.gmxwaterproofing.com

TREMCO BARRIER SOLUTIONS, INC.
6402 EAST MAIN STREET, SUITE 201
REYNOLDSBURG, OHIO 43068
(614) 322-4420
www.tremcoinc.com
dwalden@tremcoinc.com

TABLE 1—COMPANY NAME/PRODUCT NAME CROSS-REFERENCE

COMPANY NAME	PRODUCT TRADE NAME
American Wick Drain Corporation	SITEDRAIN™ Strip 6400 Series
GMX, Inc.	Drain Max™
Tremco Barrier Solutions, Inc.	DrainStar®