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ICC-ES Evaluation Report

ESR-2702

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Reissued 12/2018
This report is subject to renewal 12/2019.

DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION
SECTION: 07 11 00—DAMPPROOFING
SECTION: 07 14 00— FLUID-APPLIED WATERPROOFING

REPORT HOLDER:

GMX, INC.

EVALUATION SUBJECT:

ULTRA-SHIELD® WB AND BONEDRY™ WPT



“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: 07 00 00—THERMAL AND MOISTURE PROTECTION

Section: 07 11 00—Dampproofing

Section: 07 14 00—Fluid-Applied Waterproofing

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1.0 EVALUATION SCOPE

1.1. Compliance with the following codes:

- 2015, 2012, 2009 and 2006 *International Building Code®* (IBC)
- 2015, 2012, 2009 and 2006 *International Residential Code®* (IRC)
- 2013 *Abu Dhabi International Building Code* (ADIBC)[†]

[†]The ADIBC is based on the 2009 IBC. 2009 IBC code sections referenced in this report are the same sections in the ADIBC.

Property evaluated:

- Foundation waterproofing
- Foundation dampproofing

1.2. Evaluation to the following green standards:

- 2015, 2012 and 2008 ICC 700 *National Green Building Standard™* (ICC 700-2015, ICC 700-2012 and ICC 700-2008)

Attribute verified:

- See Section 3.0

2.0 USES

Ultra-Shield® WB and BoneDry® WPT are liquid-applied waterproofing and dampproofing membranes used on the exterior of below-grade parged or unparged masonry and concrete foundation walls. The membranes are alternates to the dampproofing materials specified in 2015, 2012 and 2009 IBC Section 1805.2.2, 2006 IBC Section 1807.2.2 and IRC Section R406.1. The membranes are also alternates to the waterproofing materials specified in 2015, 2012 and 2009 IBC Section 1805.3.2, 2006 IBC Section 1807.3.2 and IRC 406.2.

3.0 DESCRIPTION

Ultra-Shield® WB and BoneDry® WPT are polymer-modified, asphalt waterproofing and dampproofing

membranes. Ultra-Shield® WB is identical to BoneDry® WPT. The membranes have a resistance to hydrostatic pressure of 3 psi (20.7 kPa) over a 1/16-inch-wide crack when applied in accordance with Section 4.0 and tested in accordance with ASTM C1306. Ultra-Shield® WB and BoneDry® WPT are available in 5-gallon (18.9 L) pails, 55-gallon (208 L) drums, 275-gallon (1041 L) totes and bulk containers. Shelf life is one year from the date of manufacture, when stored unopened at temperatures between 60°F and 80°F (15.6°C and 26.7°C).

The attributes of the Ultra-Shield® WB and BoneDry® WPT liquid-applied waterproofing membranes have been verified as conforming to the provisions of ICC 700-2015 and ICC 700-2012 Section 602.1.2 and ICC 700-2008 Section 602.11 for foundation waterproofing. Note that decisions on compliance for those areas rest with the user of this report. The user is advised of the project-specific provisions that may be contingent upon meeting specific conditions, and the verification of those conditions is outside the scope of this report. These codes or standards often provide supplemental information as guidance.

4.0 INSTALLATION

4.1 General:

Installation must comply with this report, the applicable code and the manufacturer's published installation instructions. The manufacturer's published installation instructions must be available at the jobsite at all times during installation.

4.2 Surface Preparation:

Surfaces of substrates must be structurally sound, clean, dry and free of dust, sand, soil, frost or loose materials. Additionally, there must be no fins, metal projections or any substances that will prevent bonding of the membrane to the surface of the substrate. Voids in masonry or concrete, such as tie-rod holes or honeycombed areas, must be filled with nonshrinking grout or an asphalt-based mastic. When nonshrinking grout is used to fill voids, the grout must be allowed to cure before the membrane is applied. Masonry and concrete must be cured prior to the application of the membrane.

4.3 Application:

The ambient air temperature at time of application must be 15°F (-8°C) or greater. Ultra-Shield® WB and BoneDry® WPT are brush-, roller- or spray-applied to the substrate in coats at a coverage rate of 1 gallon per 22.5 square feet (0.56 L/m²) for each coat, to achieve a minimum dry film thickness of 40 mils [0.040 inch (1.0 mm)]. The membrane is applied to the exterior vertical surfaces of below-grade foundation walls of parged or unparged masonry and

concrete. The membrane must be allowed to cure for a minimum of 24 hours before any backfill.

5.0 CONDITIONS OF USE

The Ultra-Shield® WB and BoneDry® WPT waterproofing membranes described in this report comply with, or are 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 Application is limited to installations on exterior vertical surfaces of below-grade parged or unparged masonry and concrete foundation walls.
- 5.3 Joints and penetrations of the walls to which Ultra-Shield® WB and BoneDry® WPT are applied must be made watertight in accordance with the applicable code.
- 5.4 When use is in dampproofing applications, a subsurface soil investigation of the level of groundwater at the construction site must be performed to verify the nonexistence of hydrostatic pressure.

6.0 EVIDENCE SUBMITTED

Data in accordance with the ICC-ES Acceptance Criteria for Cold, Liquid-applied, Below-grade, Exterior Dampproofing and Waterproofing Materials (AC29), dated June 2011 (editorially revised October 2014).

7.0 IDENTIFICATION

- 7.1 Each container of Ultra-Shield® WB and BoneDry® WPT described in this report must be identified by a label bearing the manufacturer's name (GMX, Inc.), the product name (Ultra-Shield® WB or BoneDry® WPT), lot number, application instructions and the evaluation report number (ESR-2702).
- 7.2 The report holder's contact information is the following:

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