

## ICC-ES Evaluation Report

**ESR-2260**

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**DIVISION: 07 00 00—THERMAL AND MOISTURE  
PROTECTION****Section: 07 25 00—Water-Resistive Barriers/Weather  
Barriers****REPORT HOLDER:****TAMKO BUILDING PRODUCTS, INC.**  
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[www.tamko.com](http://www.tamko.com)**EVALUATION SUBJECT:****TAMKO® TW MOISTURE WRAP AND TAMKO® TW-60™****1.0 EVALUATION SCOPE****Compliance with the following codes:**

- 2006 *International Building Code*® (IBC)
- 2006 *International Residential Code*® (IRC)

**Property evaluated:**

Water resistance

**2.0 USES**

TAMKO® TW MOISTURE WRAP and TAMKO® TW-60™ are self-adhering membranes used as a water-resistive barrier on exterior walls of buildings of Type V-B construction (IBC) and construction permitted under the IRC. The term “water-resistive barrier” in this report includes water-resistive barriers under IBC Section 1404.2 and IRC Section R703.2.

**3.0 DESCRIPTION****3.1 TW MOISTURE WRAP:**

TW MOISTURE WRAP is a flexible, self-adhering, SBS modified-asphalt sheet membrane with a nominal thickness of 0.040 inch (1.02 mm) and an approximate weight of 22 pounds per 100 square feet (110 kg/m<sup>2</sup>). The membrane is available in various size rolls. The membrane is also available in factory precut widths of 6, 9, 12 and 18 inches (152, 229, 305 and 457 mm). The membrane is black with a polymeric film on the exterior surface and a release film on the other surface.

**3.2 TW-60™:**

TW-60™ is a flexible, self-adhering, SBS modified-asphalt sheet membrane with a nominal thickness of 0.060 inch (1.52 mm) and an approximate weight of 33 pounds per 100 square feet (161 kg/m<sup>2</sup>). The membrane is available in various size rolls. The membrane is also available in factory

precut widths of 4, 6, 9, 12 and 18 inches (102, 152, 229, 305 and 457 mm). The membrane is black with a polymeric film on the exterior surface and a release film on the other surface.

**3.3 Primers and Mastics:**

**3.3.1 TAMKO® TWP-1 Quick Dry Primer:** A low-volatile organic compound (VOC) rubberized primer, packaged in 5-gallon (18.9 L) pails.

**3.3.2 TAMKO® TWP-2 Water-Based Primer:** A water-based rubberized primer, packaged in 5-gallon (18.9 L) pails.

**3.3.3 TAMKO® TWM-1 Mastic:** A trowel-grade rubberized, bitumen mastic packaged in 3-gallon (11.4 L) pails and 10.5- and 29-ounce (298 and 822 g) tubes.

**4.0 INSTALLATION**

TW MOISTURE WRAP and TW-60™ are installed after wall framing is completed. The exterior wall surfaces are to be dry and free of dirt, dust or other foreign matter that would inhibit adhesion. When application is to concrete substrates, the concrete is allowed to cure for a minimum of seven days prior to application. The membranes are installed when the ambient air and surface temperatures are 40°F (4.4°C) or higher.

When TW MOISTURE WRAP is installed over concrete, masonry, wood structural panels or gypsum-based substrates, the substrate surface is primed with either TAMKO® TWP-1 or TWP-2 primer prior to membrane installation.

The membranes are unrolled and cut to the desired length. Approximately 12 inches (305 mm) of the release film is removed from the back side of the membrane and the membrane is centered over the area to be covered. The membrane is firmly pressed or rolled against the substrate. The remainder of the release film is removed while the membrane is smoothed into place over the remainder of the area to be covered. Installation begins from the lowest point and proceeds with higher sections overlapping the lower section. The membrane is overlapped a minimum of 4 inches (152 mm) at vertical seams and 2 inches (51 mm) at horizontal seams. All seams and terminations are sealed in accordance with the manufacturer's published installation instructions.

At rough openings for doors and windows, the membranes are installed in accordance with the manufacturer's published installation instructions. The doors and windows are installed in accordance with the respective manufacturer's installation instructions and flashed in accordance with the requirements of the applicable code.

Damaged sheets are replaced or repaired by cutting out the damaged area and applying a patch of new material over the removed area. The patch material overlaps the existing membrane a minimum 2 inches (51 mm) in all directions.

The membranes have a permeance rating of 1 perm ( $5.7 \times 10^{-11} \text{ kg/Pa} \cdot \text{s} \cdot \text{m}^2$ ) or less when tested in accordance with ASTM E 96, Procedure A. Therefore, the membranes are limited to use in wall construction that complies with the requirements of Section 502.5 of the 2006 *International Energy Conservation Code*<sup>®</sup>, as applicable. The membranes are limited to installation on the exterior surface of the exterior wall where exception 1, 2, or 3 of Section 502.5 is satisfied.

The manufacturer's published installation instructions and this report are to be strictly adhered to. If requested by the code official, a copy of this report is to be available at the jobsite during installation. In the event of a conflict between this report and the manufacturer's published installation instructions, this report governs.

#### 5.0 CONDITIONS OF USE

The TAMKO<sup>®</sup> TW MOISTURE WRAP and TAMKO<sup>®</sup> TW-60<sup>™</sup> membranes described in this report comply with, or are suitable alternatives to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

- 5.1 The membranes are limited to use on buildings of Type V-B construction (IBC) and construction permitted by the IRC.
- 5.2 The membranes are limited to use as a water-resistive barrier where exception 1, 2 or 3 of Section 502.5 of the 2006 *International Energy Conservation Code*<sup>®</sup>, as applicable, is satisfied.
- 5.3 In areas adopting the IBC, the membranes shall not be installed where Grade D building paper is required.

#### 6.0 EVIDENCE SUBMITTED

Data in accordance with the ICC-ES Acceptance Criteria for Water-resistive Barriers (AC38), dated February 2008.

#### 7.0 IDENTIFICATION

The TAMKO<sup>®</sup> TW MOISTURE WRAP and TAMKO<sup>®</sup> TW-60<sup>™</sup> membranes described in this report are identified by a label, on each roll of membrane, bearing the manufacturer's name (TAMKO Building Products, Inc.) and address, the product name and the evaluation report number (ESR-2260). TAMKO TWM-1 Mastic, and TWP-1 and TWP-2 primers, are identified by a label on the pail or tube, bearing the manufacturer's name and the product name.