

ICC-ES Evaluation Report

ESR-2260

Reissued October 2018

Revised October 2019

This report is subject to renewal October 2020.

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DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION

Section: 07 25 00—Water-Resistive Barriers/Weather Barriers

Section: 07 27 00—Air Barriers

REPORT HOLDER:

TAMKO BUILDING PRODUCTS LLC

EVALUATION SUBJECT:

TAMKO® TW MOISTURE WRAP, TAMKO® TW-60™

1.0 EVALUATION SCOPE

1.1 Compliance with the following codes:

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

Properties evaluated:

- Water resistance
- Air leakage

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 membranes are alternatives to the water-resistive barriers specified in 2018 IBC Section 1403.2 (2015 and 2012 IBC Section 1404.2) and IRC Section R703.2. The products may also be used as air barrier materials under IRC Section N1102.4.1 and 2018 and 2015 IECC Sections C402.5.1 and R402.4 (2012 IECC Sections C402.4.1.2.1 and R402.4).

3.0 DESCRIPTION

3.1 TW MOISTURE WRAP:

TW MOISTURE WRAP is a flexible, self-adhering, rubberized asphalt sheet membrane with a nominal thickness of 0.040 inch. The membrane is available in various size rolls. 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, rubberized asphalt sheet membrane with a nominal thickness of 0.060 inch.

The membrane is available in various size rolls. 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 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® TWP-LV1 Adhesive Primer: A rubberized, low VOC adhesive primer, packaged in 5 gallon (18.9 L) pails.

3.3.4 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.

3.4 Air Barriers:

The products described in this report have an air leakage rate not exceeding 0.02 L/s/m² at 75 Pa [0.004 cfm/ft² at 0.3 w.g. (1.57 psf)] when used as an air barrier material under IRC Section N1102.4.1 and 2018 and 2015 IECC Sections C402.5.1 and R402.4 or (2012 IECC Sections C402.4.1.2.1 and R402.4).

4.0 INSTALLATION

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

When TW MOISTURE WRAP and TW-60™ are installed over cast-in-place concrete, pre-cast concrete, concrete masonry block, DensGlass®, DensGlass Gold®, or any other surface where the adhesion is found to be marginal, the substrate surface must be primed with either TAMKO® TWP-1, TWP-2, or TWP-LV1 primer prior to membrane installation. When installed over flat wall insulating concrete form (ICF) systems, the ICF surface must be primed with TAMKO® TWP-2 primer prior to membrane installation.

The membranes must be unrolled and cut to the desired length. Approximately 12 inches of the release film is removed from the back side of the membrane, and the membrane must be centered over the area to be covered.

The membrane must be firmly pressed or rolled against the substrate. The remainder of the release film is removed while the membrane must be smoothed into place over the remainder of the area to be covered. Installation must begin from the lowest point and proceed with higher sections overlapping the lower section. The membranes must be overlapped a minimum of 4 inches (152 mm) at vertical seams and 2 inches (51 mm) at horizontal seams. All seams and terminations must be sealed in accordance with the manufacturer's published installation instructions.

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

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.

5.0 CONDITIONS OF USE

The TAMKO® TW MOISTURE WRAP and TAMKO® TW-60™ 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:

In the event of a conflict between this report and the manufacturer's published installation instructions, this report governs.

- 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 must not be installed where Grade D or ASTM E2556 Type I or II building paper is required, as applicable.

- 5.3 This report is based on air barrier rates for products as an air barrier only. The design and evaluation of the air barrier assembly, of which these products are a component, is outside the scope of this report.

6.0 EVIDENCE SUBMITTED

Data in accordance with the ICC-ES Acceptance Criteria for Water-resistive Barriers (AC38), dated August 2016 (editorially revised April 2018).

7.0 IDENTIFICATION

- 7.1 The membranes described in this report are identified by a label, on the container of each roll of membrane, bearing the TAMKO Building Products LLC name, the product name, the manufacturing location and the evaluation report number (ESR-2260). TAMKO TWM-1 Mastic, and TWP-LV-1, 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.

- 7.2 The report holder's contact information is the following:

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