

ICC-ES Evaluation Report

ESR-5396

Issued April 2024


This report also contains:

Subject to renewal April 2025

- CBC Supplement
- LABC Supplement
- FBC Supplement

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<p>DIVISION: 07 00 00— THERMAL AND MOISTURE PROTECTION</p> <p>Section: 07 11 00— Dampproofing</p> <p>Section: 07 13 00— Sheet Waterproofing</p> <p>DIVISION: 31 00 00— EARTHWORK</p> <p>Section: 31 21 16— Methane Mitigation</p>	<p>REPORT HOLDER: AVM INDUSTRIES INC.</p>	<p>EVALUATION SUBJECT: AUSSIE MATE 580-AL AND AUSSIE MATE 580- PL WATERPROOFING MEMBRANES</p>	
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1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2024, 2021, 2018 and 2015 [International Building Code® \(IBC\)](#)
- 2024, 2021, 2018 and 2015 [International Residential Code® \(IRC\)](#)

For evaluation for compliance with codes adopted by [Los Angeles Department of Building and Safety \(LADBS\)](#), see [ESR-5396 LABC and LARC Supplement](#).

Property evaluated:

- Foundation dampproofing
- Foundation waterproofing
- Methane Mitigation

2.0 USES

The Aussie Mate 580-AL and Aussie Mate 580-PL are self-adhering dampproofing and waterproofing membranes used in below-grade vertical and horizontal applications of masonry or concrete construction. The membranes are alternatives to the dampproofing and waterproofing material specified in IBC Section 1805.2 or 1805.3, respectively, and IRC Section R406.1 or R406.2, respectively. The membranes may also be used in gas/methane barrier applications. See Table 1 for membrane product and its application.

3.0 DESCRIPTION

3.1 General

The Aussie Mate 580-AL and Aussie Mate 580-PL membranes are produced in either 60-mil-thick [0.060-inch (1.52 mm)] or 80-mil-thick [0.080-inch (2.03 mm)] waterproofing sheets composed of self-adhering modified

bitumen with a protection layer. The AL designation applies to membranes with an aluminum protection layer, and the PL designation applies to membranes with a plastic protection layer. The self-adhered bitumen is covered with a plastic release film that is removed prior to installation. The membranes are supplied in rolls of different widths and lengths.

The Aussie Mate 580-AL and Aussie Mate 580-PL membranes have a maximum resistance to hydrostatic pressure of 74 psi and an allowable resistance to hydrostatic pressure of 37 psi (662 kPa) when applied in accordance with Section 4.0 and tested in accordance with ASTM D5385.

4.0 INSTALLATION

4.1 General: Installation of Aussie Mate membranes must comply with this report and the manufacturer's published installation instructions. The manufacturer's published installation instructions must be available at the jobsite at all times during installation.

The membranes must be applied in below-grade vertical and horizontal application of concrete construction. All surfaces which receive the membrane must be free of laitance, sharp projections, oil, dirt or other contaminants. The release liner that protects the adhesive must be removed as the membrane is installed. Side laps and end laps seams must be overlapped a minimum of 2 inches (51 mm). The entire surface including all lap seams must be rolled. The air and substrate temperature during application must be above 40°F(4.4°C).

4.2 Methane Barrier: Aussie Mate 580-AL membranes are evaluated for gas/methane mitigation applications in accordance with the ICC-ES Acceptance Criteria for Soil-Gas-Retarder Membranes for Use in Below Grade Applications (AC563). The membranes must be installed in accordance with the manufacturer's published installation instructions for methane barrier.

5.0 CONDITIONS OF USE:

The Aussie Mate 580-AL and Aussie Mate 580-PL 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 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 The design and installation of the foundation drainage system is outside the scope of this report. The foundation drainage system must be installed in accordance with IBC Section 1805.4 and IRC Section R405.
- 5.3 The backfill of the foundation must be clean soil free of rocks or any other deleterious material and placed so as not to damage the foundation or membrane system. For jurisdictions adopting the IBC, the backfill must be placed in lifts and compacted. For jurisdictions adopting the IRC, local backfilling requirements must be followed. The design and construction of the foundation is outside the scope of this report.
- 5.4 When used as a methane/gas barrier, the membranes must comply with Section 4.2 of this report.
- 5.5 These membranes shall not be used with pneumatically applied concrete (gunite or shotcrete).
- 5.6 The membranes are under a quality control program with inspections by ICC-ES.

6.0 EVIDENCE SUBMITTED

- 6.1 Data in accordance with the [ICC-ES Acceptance Criteria for Self-Adhered, Thermoplastic, Below-grade, Dampproofing and Waterproofing Sheet Membranes \(AC527\)](#), dated November 2023 (editorially revised March 2024).
- 6.2 Data in accordance with the [ICC-ES Acceptance Criteria for Soil-Gas-Retarder Membranes for Use in Below Grade Applications \(AC563\)](#), dated February 2024 (editorially revised March 2024).

7.0 IDENTIFICATION

- 7.1 The ICC-ES mark of conformity, electronic labeling, or the evaluation report number (ICC-ES ESR-5396) along with the name, registered trademark, or registered logo of the report holder (AVM Industries, Inc.) must be included in the product label.

7.2 In addition, the membranes as described in this report must be identified by a label bearing the distributor’s address, the product name (Aussie Mate 580-AL and Aussie Mate 580-PL) and product thickness.

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

AVM INDUSTRIES INC.
8245 REMMET AVENUE
CANOGA PARK, CALIFORNIA 91304
(818) 888-0050
www.avmindustries.com
sales@avmindustries.com

TABLE 1—AUSSIE MATE PRODUCTS AND END USE APPLICATION

Product Name	Product Thickness, mils	Approved for Dampproofing and Waterproofing (See Section 4.1)	Approved for Gas/Methane Mitigation (See Section 4.2)
Aussie Mate 580-AL	60	Yes	Yes
Aussie Mate 580-AL	80	Yes	Yes
Aussie Mate 580-PL	60	Yes	No
Aussie Mate 580-PL	80	Yes	No

DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION

Section: 07 11 00—Dampproofing

Section: 07 13 00—Sheet Waterproofing

DIVISION: 31 00 00—EARTHWORK

Section: 31 21 16—Methane Mitigation

REPORT HOLDER:

AVM INDUSTRIES, INC.

EVALUATION SUBJECT:

AUSSIE MATE 580-AL AND AUSSIE MATE 580-PL WATERPROOFING MEMBRANES

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that Aussie Mate 580-AL and Aussie Mate 580-PL waterproofing membranes, described in ICC-ES evaluation report [ESR-5396](#), have also been evaluated for compliance with the codes noted below as adopted by the Los Angeles Department of Building and Safety (LADBS).

Applicable code editions:

- 2023 *City of Los Angeles Building Code* (LABC)
- 2023 *City of Los Angeles Residential Code* (LARC)

2.0 CONCLUSIONS

The Aussie Mate 580-AL and Aussie Mate 580-PL waterproofing membranes, described in Sections 2.0 through 7.0 of the evaluation report [ESR-5396](#), comply with the LABC Chapter 18 and Chapter 4 of the LARC, and are subject to the conditions of use described in this supplement.

3.0 CONDITIONS OF USE

The Aussie Mate 580-AL and Aussie Mate 580-PL waterproofing membranes described in this evaluation report supplement must comply with all of the following conditions:

- All applicable sections in the evaluation report [ESR-5396](#).
- The design, installation, conditions of use and identification of the Aussie Mate 580-AL and Aussie Mate 580-PL waterproofing membranes are in accordance with the 2021 *International Building Code*® (IBC) and 2021 *International Residential Code*® (IRC) provisions noted in the evaluation report [ESR-5396](#).
- The design, installation and inspection are in accordance with additional requirements of LABC Chapters 16 and 17, as applicable.

This supplement expires concurrently with the evaluation report issued April 2024.

DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION

Section: 07 11 00—Dampproofing

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REPORT HOLDER:

AVM INDUSTRIES, INC.

EVALUATION SUBJECT:

AUSSIE MATE 580-AL AND AUSSIE MATE 580-PL WATERPROOFING MEMBRANES

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that Aussie Mate 580-AL and Aussie Mate 580-PL waterproofing membranes, described in ICC-ES evaluation report ESR-5396, have also been evaluated for compliance with the codes noted below.

Applicable code edition(s):

- 2022 California Building Code (CBC)

For evaluation of applicable Chapters adopted by the California Office of Statewide Health Planning and Development (OSHPD) AKA: California Department of Health Care Access and Information (HCAI) and the Division of State Architect (DSA), see Sections 2.1.1 and 2.1.2 below.

- 2022 California Residential Code (CRC)

2.0 CONCLUSIONS

2.1 CBC:

The Aussie Mate 580-AL and Aussie Mate 580-PL waterproofing membranes, described in Sections 2.0 through 7.0 of the evaluation report ESR-5396, comply with CBC Chapter 18, provided the design and installation are in accordance with the 2021 *International Building Code*® (IBC) provisions noted in the evaluation report and the additional requirements of CBC Chapters 17 and 18, as applicable.

2.1.1 OSHPD:

The applicable OSHPD Sections and Chapters of the CBC are beyond the scope of this supplement.

2.1.2 DSA:

The applicable DSA Sections and Chapters of the CBC are beyond the scope of this supplement.

2.2 CRC:

The Aussie Mate 580-AL and Aussie Mate 580-PL waterproofing membranes, described in Sections 2.0 through 7.0 of the evaluation report ESR-5396, comply with CRC Chapter 4, provided the design and installation are in accordance with the 2021 *International Residential Code*® (IRC) provisions noted in the evaluation report and the additional requirements of CRC Chapter 4.

This supplement expires concurrently with the evaluation report, issued April 2024.

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1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that the Aussie Mate 580-AL and Aussie Mate 580-PL waterproofing membranes, described in ICC-ES evaluation report ESR-5396, have also been evaluated for compliance with the codes noted below.

Applicable code editions:

- 2023 *Florida Building Code—Building*
- 2023 *Florida Building Code—Residential*

2.0 CONCLUSIONS

The Aussie Mate 580-AL and Aussie Mate 580-PL waterproofing membranes, described in Sections 2.0 through 7.0 of ICC-ES evaluation report ESR-5396, comply with the *Florida Building Code—Building* or the *Florida Building Code—Residential*. The design requirements must be determined in accordance with the *Florida Building Code—Building* or the *Florida Building Code—Residential*, as applicable. The installation requirements noted in ICC-ES evaluation report ESR-5396 for the 2021 *International Building Code*® meet the requirements of the *Florida Building Code—Building* or the *Florida Building Code—Residential*, as applicable.

Use of the Aussie Mate 580-AL and Aussie Mate 580-PL waterproofing membranes for compliance with the High-Velocity Hurricane Zone provisions of the *Florida Building Code—Building* or the *Florida Building Code—Residential* have not been evaluated and are outside the scope of this supplemental report.

For products falling under Florida Rule 61G20-3, verification that the report holder's quality assurance program is audited by a quality assurance entity approved by the Florida Building Commission for the type of inspections being conducted is the responsibility of an approved validation entity (or the code official when the report holder does not possess an approval by the Commission).

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