

# ICC-ES Evaluation Report


**ESR-5398**

Issued April 2024

Subject to renewal April 2025

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<p><b>DIVISION: 09 00 00—</b> <b>FINSIHES</b></p> <p><b>Section: 09 05 61.13—</b> <b>Moisture Vapor</b> <b>Emission Control</b></p>	<p><b>REPORT HOLDER:</b> <b>AVM INDUSTRIES INC.</b></p>	<p><b>EVALUATION SUBJECT:</b> <b>AUSSIE GAS-LOCK 420</b></p>	
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## 1.0 EVALUATION SCOPE

### 1.1 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 the [Los Angeles Department of Building and Safety \(LADBS\)](#) see [ESR-5398 LABC and LARC Supplement](#).

### Properties evaluated:

- Moisture Permeability
- Methane Gas Transmission

## 2.0 USES

Aussie Gas-Lock 420 is a field-applied fluid coating over existing concrete slabs for moisture and methane gas permeability.

## 3.0 DESCRIPTION

Aussie Gas-Lock 420 is a two component epoxy coating. The Aussie Gas-Lock 420 is supplied in 2.4-gallon (9.1 L) kits with a shelf life of 12 months. The kit can cover approximately 132 ft<sup>2</sup> (12.3 m<sup>2</sup>) at 30 mils [0.030-inch (0.76 mm)] thick application.

Aussie Gas-Lock 420 has a moisture permeability of less than 0.1 perms when tested in accordance with ASTM E96 at a dry film thickness of 12 mils [0.012 inch (0.305 mm)].

Aussie Gas-Lock 420 has a methane gas transmission rate not exceeding 40.0 ml/day.m<sup>2</sup>.atm when tested in accordance with ASTM D1434 at a minimum dry-film thickness of 30 mils [0.030 (0.76 mm)].

Aussie Gas-Lock 420 complies with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010 (Emission testing method for CA Specification 01350).

Aussie Gas-Lock 420 did not exhibit mold growth score of 1 when tested in accordance with ASTM G21.

## 4.0 INSTALLATION

Installation of Aussie Gas-Lock 420 coating 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.

Aussie Gas-Lock 420 coating is applied on the concrete slab in one or two coats up to a minimum of 30 mils [0.030 (0.76 mm)] thick.

The substrate to which the coating is applied must be prepared in accordance with AVM Industries installation instructions.

The air temperature during application must be in the range of 40°F to 90°F (4.44°C to 32.2°C).

The coating must be cured in accordance with AVM Industries installation instructions prior to installation of floor covering.

## 5.0 CONDITIONS OF USE:

The Aussie Gas-Lock 420 fluid-applied coating described in this report comply 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 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 This report is limited to an evaluation of the coating applied to the minimum thickness stated in Section 4.0.
- 5.3 The coating is under a quality control program with inspections by ICC-ES.

## 6.0 EVIDENCE SUBMITTED

- 6.1 Report of tests in accordance with ASTM E96.
- 6.2 Report of tests in accordance with ASTM F1434.
- 6.3 Report of tests in accordance with ASTM G21.
- 6.4 Report of tests in accordance with Emission Test Method for CA Specification 01350.
- 6.5 Quality documentation in accordance with the ICC-ES Acceptance Criteria for Quality Control Documentation (AC10).

## 7.0 IDENTIFICATION

- 7.1 The ICC-ES mark of conformity, electronic labeling, or the evaluation report number (ICC-ES ESR-5398) 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, containers of the liquid-applied membrane as described in this report must be identified by a label bearing the distributor's address and the product name (Aussie Gas-Lock 420).
- 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](http://www.avmindustries.com)  
[sales@avmindustries.com](mailto:sales@avmindustries.com)

DIVISION: 09 00 00—FINISHES

Section: 09 05 61.13—Moisture Vapor Emission Control

REPORT HOLDER:

AVM INDUSTRIES, INC.

EVALUATION SUBJECT:

AUSSIE-GAS LOCK 420

## 1.0 REPORT PURPOSE AND SCOPE

### Purpose:

The purpose of this evaluation report supplement is to indicate that Aussie Gas-Lock 420, described in ICC-ES evaluation report [ESR-5398](#), has 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 Gas-Lock 420, described in Sections 2.0 through 7.0 of the evaluation report [ESR-5398](#), complies with the LABC Chapter 1 and the LARC, and is subject to the conditions of use described in this supplement.

## 3.0 CONDITIONS OF USE

The Aussie Gas-Lock 420 described in this evaluation report supplement must comply with all of the following conditions:

- All applicable sections in the evaluation report [ESR-5398](#).
- The design, installation, conditions of use and identification of the Aussie Gas-Lock 420 are in accordance with the 2021 *International Building Code*® (IBC) and the 2021 *International Residential Code*® (IRC) provisions, as applicable, noted in the evaluation report [ESR-5398](#).
- The design, installation and inspection are in accordance with City of Los Angeles Department of Building and Safety additional requirements.
- Under the LARC, an engineered design in accordance with LARC Section R301.1.3 must be submitted.

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

DIVISION: 09 00 00—FINISHES

Section: 09 05 61.13—Moisture Vapor Emission Control

## REPORT HOLDER:

AVM INDUSTRIES, INC.

## EVALUATION SUBJECT:

AUSSIE GAS-LOCK 420

## 1.0 REPORT PURPOSE AND SCOPE

## Purpose:

The purpose of this evaluation report supplement is to indicate that Aussie Gas-Lock 420, described in ICC-ES evaluation report ESR-5398, has/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 Gas-Lock 420, described in Sections 2.0 through 7.0 of the evaluation report ESR-5398, complies with CBC Section 104.11 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 Section 104.11.

## 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 Gas-Lock 420, described in Sections 2.0 through 7.0 of the evaluation report ESR-5398, complies with CRC Section R104.2.3, 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 Section R104.2.3.

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

**DIVISION: 09 00 00—FINISHES**

**Section: 09 05 61.13—Moisture Vapor Emission Control**

**REPORT HOLDER:**

**AVM INDUSTRIES, INC.**

**EVALUATION SUBJECT:**

**AUSSIE GAS-LOCK 420**

## 1.0 REPORT PURPOSE AND SCOPE

**Purpose:**

The purpose of this evaluation report supplement is to indicate that Aussie Gas-Lock 420, recognized in ICC-ES evaluation report ESR-5398, has 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 Gas-Lock 420, described in Sections 2.0 through 7.0 of ICC-ES evaluation report ESR-5398, complies with the *Florida Building Code-Building* or the *Florida Building Code-Residential*. The installation requirements noted in ICC-ES evaluation report ESR-5398 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 Gas-Lock 420 for compliance with the High-Velocity Hurricane Zone provisions of the *Florida Building Code-Building* or the *Florida Building Code-Residential* has not been evaluated, and is 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).

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