



ICC
EVALUATION
SERVICE

In Cooperation with



Most Widely Accepted and Trusted

ICC-ES Evaluation Report

ICC-ES | (800) 423-6587 | (562) 699-0543 | www.icc-es.org

ESR-3426

Reissued 06/2019

This report is subject to renewal 06/2020.

DIVISION: 09 00 00—FINISHES
SECTION: 09 60 00—FLOORING

REPORT HOLDER:

AMVIC INCORPORATED

EVALUATION SUBJECT:

AMDRY (INSULATED SUB-FLOOR SYSTEM)



“2014 Recipient of Prestigious Western States Seismic Policy Council (WSSPC) Award in Excellence”



A Subsidiary of

ICC-ES Evaluation Reports are not to be construed as representing aesthetics or any other attributes not specifically addressed, nor are they to be construed as an endorsement of the subject of the report or a recommendation for its use. There is no warranty by ICC Evaluation Service, LLC, express or implied, as to any finding or other matter in this report, or as to any product covered by the report.



Copyright © 2019 ICC Evaluation Service, LLC. All rights reserved.

ICC-ES Evaluation Report

ESR-3426

Reissued June 2019

This report is subject to renewal June 2020.

www.icc-es.org | (800) 423-6587 | (562) 699-0543

A Subsidiary of the International Code Council®

DIVISION: 09 00 00—FINISHES

Section: 09 60 00—Flooring

REPORT HOLDER:

AMVIC INCORPORATED

EVALUATION SUBJECT

AMDRY (INSULATED SUB-FLOOR SYSTEM)

1.0 EVALUATION SCOPE

Compliance with the following codes:

2015, 2012 and 2009 *International Residential Code*® (IRC)

Properties evaluated:

- Physical properties
- Surface-burning characteristics

2.0 USES

AmDRY subfloor panels are intended to be installed directly onto concrete slab-on-grade floors in residential buildings of non-fire-resistance rated construction under the IRC. The panels may be left exposed or have a finished floor covering complying with requirements of the applicable code applied to the exposed surface.

3.0 DESCRIPTION

AmDRY panels are a factory-fabricated, 24-inch-wide-by-48-inch-long (610 mm by 1219 mm), composite subfloor panels consisting of the following components:

3.1 Insulation:

A layer of expanded polystyrene (EPS) foam plastic insulation board complying with ASTM C578 as Type II having a minimum density of 1.35 pounds per cubic foot (22 kg/m³). The EPS is produced in thicknesses of 1, 2 and 2½ inches (25.4, 51 and 64 mm) and is configured with a grid of ½-inch-wide-by-½-inch-deep square grooves spaced 3⅜ inches on center on the unexposed face. The EPS has a flame spread index of 75 or less and smoke-developed index of 450 or less when tested in accordance with ASTM E84 (UL 723).

3.2 Wood Panel:

A surface layer of 19/32-inch-thick (15.1 mm) oriented strand board (OSB) is laminated to the EPS described in Section 3.1. The edges of the OSB panels are grooved to accept the AmDRY connectors described in Section 3.5.

3.3 Adhesive:

A polyurethane, hot-melt adhesive is used to laminate the EPS and OSB together.

3.4 Coating:

A polystyrene surface film is applied over the grooved face of the EPS to separate the surface of the EPS from the concrete slab-on-grade.

3.5 Connectors:

Preformed polyvinylchloride connectors designed with flexible barb legs that are inserted into the grooves in the edge of the OSB panels to connect the panels to each other.

4.0 DESIGN AND INSTALLATION

The concrete floor slab on which the panels are to be installed must be level and any major holes or uneven areas must be repaired in accordance with the manufacturer's installation instructions. The AmDRY panels are installed one row at a time. The edges of the perimeter panels are separated from the walls of the space by use of ½-inch-wide (12.7 mm) wood spacer blocks. The panels are secured to each other using the AmDRY connectors inserted into the end of each adjoining AmDRY panel. Once a row of panels is installed, connectors are inserted into the side of the row of panels, and the next row is set in place with the joints in the next row of panels staggered from the joints of the panels in the previous row. The end panels of each row may be cut to fit the size of the room size. After all panels are installed, the wood spacer blocks that were placed around the perimeter may be removed or left in place depending on the type of finished flooring to be installed over the surface of the panels.

5.0 CONDITIONS OF USE

The AmDRY subfloor system described in this report complies 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** The use of the panels is limited to installation over concrete slab-on-grade floors in residential buildings of non-fire-resistance rated construction under the IRC. Utilities are not permitted to be installed under the panels or between the underside of the panels and the concrete slab.
- 5.2** The use of the panels is limited to applications where the design floor live load does not exceed 40 pounds per square foot (195 kg/m²). Evaluation for resistance to dead loads is outside the scope of this report.

- 5.3 The thermal resistance of the system is outside the scope of this report.
- 5.4 The evaluation of floor covering materials installed over the panels is outside the scope of this report.
- 5.5 The EPS foam plastic insulation and the AmDRY panels are produced at the Amvic, Incorporated, facility in Toronto, Ontario, Canada, under a quality control system with inspections by ICC-ES.

6.0 EVIDENCE SUBMITTED

- 6.1 Report of testing for density and compressive and flexural strength in accordance with the ICC-ES Acceptance Criteria for Foam Plastic Insulation (AC12), dated June 2015 (editorially revised October 2017).
- 6.2 Reports of testing in accordance with ASTM E84 (UL 723) for the EPS core and the coated EPS panels.
- 6.3 Quality documentation.

7.0 IDENTIFICATION

- 7.1 The EPS foam plastic insulation is labeled with the manufacturer's name (Amvic, Inc.) and address, the date of manufacture, the evaluation report number (ESR-3426), the density or type and the surface-burning characteristics.
- 7.2 The report holder's contact information is the following:

AMVIC INCORPORATED
501 McNICOLL AVENUE
TORONTO, ONTARIO M2H 2E2
CANADA
(416) 410-5674
www.amvicsystem.com