

ICC-ES Evaluation Report


ESR-3790

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<p>DIVISION: 09 00 00— FINISHES</p> <p>Section: 09 77 00— Special Wall Surfacing</p>	<p>REPORT HOLDER: AGT PRODUCTS INC.</p>	<p>EVALUATION SUBJECT: DRICORE SMARTWALL</p>	
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1.0 EVALUATION SCOPE

Compliance with the following code:

- 2015 [International Residential Code \(IRC\)](#)

Properties evaluated:

- Surface-burning characteristics
- Interior finish
- Vapor permeance
- Thermal resistance (R-value)

2.0 USES

The DRiCore® SMARTWALL® is used as a panelized interior finish system to cover existing concrete or masonry walls.

3.0 DESCRIPTION

3.1 General:

DRiCore® SMARTWALL® consists of oriented strand lumber framing along the vertical edges of the panel, a 33/4-inch-thick (95 mm) expanded polystyrene (EPS) foam core and a nominally 1/2-inch-thick (12.7 mm) gypsum wallboard finish that is adhesively attached to the one side of the panel. The EPS foam core consists BASF NEOPOR® rigid foam insulation (ESR-3463) complying with ASTM C578, Type I.

The DRiCore® SMARTWALL® has an R-value of 17 at 75° F mean temperature, when tested in accordance with ASTM C1363. DRiCore® SMARTWALL® is a Class II vapor retarder when tested in accordance with ASTM E96 Desiccant Method. The gypsum wallboard finish serves as a 15-minute thermal barrier in accordance with IRC Section R316.4.

4.0 DESIGN AND INSTALLATION

4.1 General:

The DRiCore® SMARTWALL® must be installed in accordance with the manufacturer's published installation instructions, the applicable requirements of the code and this report. All electrical, plumbing and mechanical work must be in accordance with the code and is subject to approval of the code official. Refer to [Figure 1](#) for an illustration of the wall panel system.

4.2 Installation:

Install 2 x 2 wood cleats around the room, beginning at the floor joists that form the basement ceiling and then the bottom cleats at the floor level. Fasten the cleats with appropriate length of concrete nail or screw, depending on your flooring application.

Start at the left side of your longest wall, and measure the height of the first panel. Install this panel using 4 screws, one in each corner. The screws must penetrate through the OSB T+G member and into the 2 x 2 lumber cleat. The top screws need to be 5 inches (127 mm) long (pre-drilling the top holes is recommended) and the bottom screws must be a minimum 2 1/2 inches (64 mm) long. Once this panel is installed, the next panel is cut to size and set beside the first panel. Align the Tongue of the first panel with the Groove of the second panel, and push the second panel tightly against the first panel. Once the two panels are tightly fitted together, the screws on the first panel are tightened. This process is repeated for each successive panel.

For inside corners the panels are butted together and sealed with a bead of adhesive along the length of the foam of the first panel fastened with 4 screws, one in each corner. For outside corners an Outside Corner post is used to form the finished corner.

Door and window openings are created in accordance with the manufacturer's installation instructions.

The joints of the gypsum board surface of the panels must be finished in accordance with the panel manufacturer's installation instructions.

5.0 CONDITIONS OF USE:

The DRIcore[®] SMARTWALL[®] 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 DRIcore[®] SMARTWALL[®] system has only been evaluated for compliance with the requirements of the IRC for use in one- and two-family dwellings.
- 5.2 The DRIcore[®] SMARTWALL[®] must be installed in accordance with the manufacturer's published installation instructions, the applicable requirements of the code and this report. All electrical, plumbing and mechanical work must be in accordance with the code and is subject to approval of the code official.
- 5.3 Concealed electrical, plumbing and mechanical components must be inspected to verify compliance with the code prior to installation of the panels.
- 5.4 Evaluation of electrical components used with the panels for compliance with the requirements of NFPA 70 is outside the scope of this report.
- 5.5 Concealed spaces must be fireblocked or draftstopped in accordance with the IRC Sections R302.11 or R302.12, as applicable.
- 5.6 The panels are manufactured under a quality control program with inspections by ICC-ES.

6.0 EVIDENCE SUBMITTED

- 6.1 Manufacturer's published installation instructions.
- 6.2 Reports of tests in accordance with ASTM E84 (UL723).
- 6.3 Report of testing in accordance with NFPA 286.
- 6.4 Report of water vapor transmission testing in accordance with ASTM E96.
- 6.5 Report of thermal resistance testing in accordance with ASTM C1363.
- 6.6 Quality documentation.

7.0 IDENTIFICATION

- 7.1 The DRIcore[®] SMARTWALL[®] components carry a label bearing the name of the AGT Products, Inc., the product name (DRIcore[®] SMARTWALL[®]), the statement "For Use in One- and Two-Family Dwellings Only" and the evaluation report number (ESR-3790).
- 7.2 The report holder's contact information is as follows:

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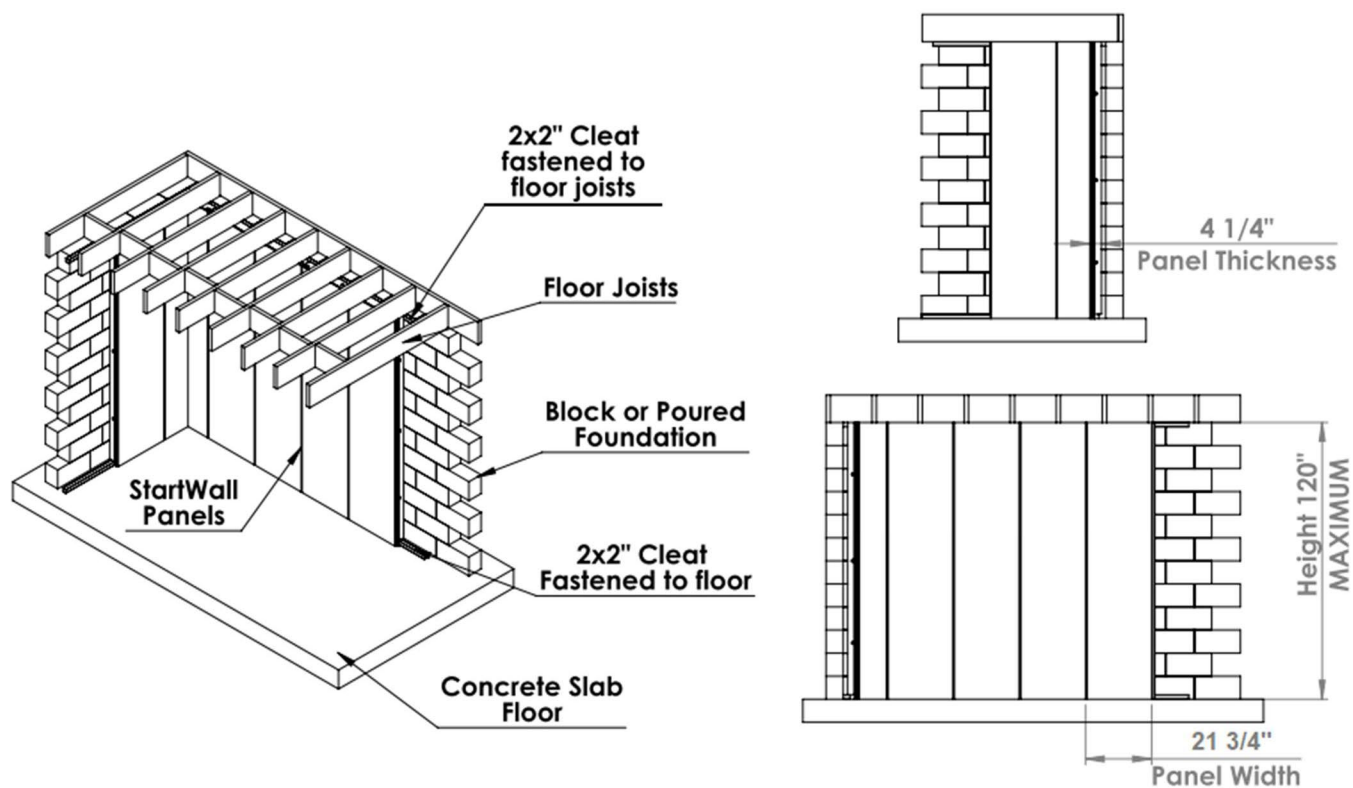


FIGURE 1—PANEL ILLUSTRATION