

Code Compliance Research Report CCRR-0476

Issue Date: 11-21-2022 Revised Date: 02-17-2025 Renewal Date: 02-28-2026

DIVISION 07 00 00 – THERMAL AND MOISTURE PROTECTION Section: 07 21 00 – Thermal Insulation

REPORT HOLDER: All Weather Insulated Panels 929 Aldridge Road Vacaville, CA 95688 www.awipanels.com

REPORT SUBJECT: GreenGuard[®]LG Extruded Polystyrene Insulation Boards

1.0 SCOPE OF EVALUATION

This Research Report addresses compliance with the following Codes:

- 2024, 2021, 2018 International Building Code® (IBC)
- 2024, 2021, 2018 International Residential Code[®] (IRC)
- 2024, 2021, 2018 International Energy Conservation Code[®] (IECC)

Note: this report references the most recent edition of the codes cited. Section numbers in earlier versions of the Code may differ.

The insulation boards described in this report have been evaluated for the following properties:

- Physical properties
- Surface-burning characteristics
- Thermal resistance (R-Value)

See Table 1 for applicable Code sections related to these properties.

2.0 USES

The GreenGuard[®] LG insulation board products described in this report are extruded polystyrene (XPS) foam plastic boards used around concrete slab edges or under flat concrete slab on-grade construction as described in Section 4.2.

3.0 DESCRIPTION

3.1 GreenGuard®LG:

The insulation boards comply with ASTM C578, Type IV (1.45 pcf minimum density), Type VI (1.8 pcf minimum density) at 1/2- to 4-inch thicknesses, and Type VII (2.2 pcf minimum density) at 1/2- to 3-inch thicknesses.

3.2 Surface-Burning Characteristics:

The insulation boards have a flame-spread index of 25 or less and a smoke-developed index of 450 or less, when tested in accordance with ASTM E84 at a maximum thickness of 4 inches for Types IV and VI, and maximum thickness of 3 inches for Type VII.

3.3 Thermal Resistance:

The insulation boards have a thermal resistance (R-Value) of 5.0 per inch of thickness.

4.0 INSTALLATION

4.1 General:

The extruded polystyrene foam plastic insulation boards must be installed in accordance with the manufacturer's published installation instructions, the applicable Code, and this Research Report. The manufacturer's published installation instructions and this Research Report must be strictly adhered to, and a copy of the instructions must be available on the jobsite during installation.

4.2 Below Grade:

The insulation boards may be used as exterior perimeter insulation around concrete slab edges or under flat concrete slab on-grade construction provided the probability of termite infestation is not "very heavy" as defined in IBC Section 2603.8 and IRC Section R305.4.



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5.0 CONDITIONS OF USE

The GreenGuard[®]LG insulation boards described in this Research Report comply with, or are suitable alternatives to, what is specified in those Codes listed in Section 1.0 and Table 1 of this report, subject to the following conditions:

5.1 Installation must comply with this Research Report, the manufacturer's published installation instructions and the applicable Code. In the event of a conflict between the manufacturer's instructions and this report, this report governs.

5.2 The insulation boards are produced in Winchester, VA under a quality control program with inspections by Intertek.

6.0 SUPPORTING EVIDENCE

6.1 Reports of tests in accordance with ASTM C578 and ASTM E84.

6.2 Data in accordance with the ICC-ES Acceptance Criteria for Foam Plastic Insulation (AC12), dated June 2015 (editorially revised May 2016).

6.3 Intertek Listing Report <u>"All Weather Insulated Panels</u> - GreenGuard LG XPS".

7.0 IDENTIFICATION

The GreenGuard[®]LG insulation boards described in this Research Report are identified by a marking on the product or packaging label bearing the report holder's name (All Weather Insulated Panels), the flame-spread and smokedeveloped indices, the manufacturing location, the date of manufacture, the Intertek Mark, and the Code Compliance Research Report number (CCRR-0476).

8.0 OTHER CODES

This section is not applicable.

9.0 CODE COMPLIANCE RESEARCH REPORT USE

9.1 Approval of building products and/or materials can only be granted by a building official having legal authority in the specific jurisdiction where approval is sought.

9.2 Code Compliance Research Reports shall not be used in any manner that implies an endorsement of the product by Intertek.

9.3 Reference to the <u>https://bpdirectory.intertek.com</u> is recommended to ascertain the current version and status of this report.

PROPERTY	2024 IBC	2024 IRC	2024 IECC
Physical properties	Not required	Not required	Not required
Surface-burning characteristics	2603.3	R303.3	Not applicable
Thermal resistance	1301	N1101.10	C303.1, R303.1

TABLE 1 – PROPERTIES EVALUATED

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