ICC-ES Evaluation Report

ESR-4431

Issued *December 2025*

Subject to renewal June 2027

This report also contains:

- City of LA Supplement
- CA Supplement
- FL Supplement with HVHZ

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DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION **Section: 07 21 00—Thermal Insulation** **Section: 07 25 00—Water-Resistive Barriers/Weather Barriers** **Section: 07 27 00—Air Barriers**	**REPORT HOLDER:** **BASF CORPORATION** **ADDITIONAL LISTEE:** **BRINC BUILDING PRODUCTS**	**EVALUATION SUBJECT:** **NEOPOR® THERMAPLUS™ PRODUCTS**	

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)
- 2024, 2021, 2018 and 2015 *International Energy Conservation Code®* (IECC)

Properties evaluated:

- Durability
- Surface-burning characteristic
- Water vapor transmission
- Water-resistive barrier
- Air barrier Material
- Air barrier Assembly
- Air Permeability
- Wind Resistance

1.2 Evaluation to the following green codes and/or standards:

- 2022 *California Green Building Standards Code (CALGreen)*, Title 24, Part 11
- 2021, 2018, 2015 and 2012 *International Green Construction Code®* (IgCC)

- 2020, 2017, 2014 and 2011 ANSI/AHSRAE/USGBC/IES Standard 189.1—Standard for the Design of High Performance Green Buildings, Except Low-Rise Residential Buildings
- 2020, 2015, 2012 and 2008 ICC 700 *National Green Building Standard™* (ICC-700-2020, ICC-700-2015, ICC-700-2012 and ICC-700-2008)

Attributes verified:

See Section 2.0.

2.0 USES

The NEOPOR® ThermaPlus™ ridged foam insulation boards are used as nonstructural thermal insulation materials on the wall assemblies, roofs, and foundations of Type V construction under the IBC and in structures constructed in accordance with the IRC.

The boards may be used as an alternative to the water-resistive barrier specified in 2024, 2021 and 2018 IBC Section 1403.2 (2015 IBC Section 1404.2) and IRC R703.2 when installed in accordance with Section 4.2.

Under the IRC, the boards may be used as air-impermeable insulation under IRC Section R806.5, when installed in accordance with Sections 4.3.

The boards, when installed in accordance with Section 4.3, may be used as an air barrier to limit air infiltration in accordance with 2024 IRC Section N1102.5.1 (2021, 2018 and 2015 IRC Section N1102.4.1) and 2024 IRC Section C402.6.1 and R402.5 (2021, 2018 and 2015 IECC Sections C402.5 and R402.4;).

The boards have been verified as conforming to the provisions of (i) CALGreen Section 5.407.1 for water-resistive barriers; (ii) 2021 IgCC Section 701.3.1.2, 2018 IgCC Section 701.3.1.1 and 2015 and 2012 IgCC Section 605.1.2.1 for air barriers; (iii) 2020 ASHRAE 189.1 Section 7.3.1.2, 2017 and 2014 ASHRAE 189.1 Section 7.3.1.1 and 2011 ASHRAE 189.1 Section 7.4.2.9 for air barriers; (iv) ICC 700-2020 Sections 602.1.8, 11.602.1.8, 1202.6 and 13.104.1.4; ICC 700-2015 Section 602.1.8, 11.602.1.8 and 12.6.602.1.8; ICC 700-2012 Section 602.1.8, 11.602.1.8 and 12.5.602.1.8; and ICC 700-2008 Section 602.9 for water-resistive barriers.

The attributes of the insulation have also been verified as conforming to the provisions of ICC 700-2008 Section 703.2.1.1.1(c) as an air impermeable insulation. Note that decisions on compliance for those areas rest with the user of this report. The user is advised of the project-specific provisions that may be contingent upon meeting specific conditions, and the verification of those conditions is outside the scope of this report. These codes or standards often provide supplemental information as guidance.

3.0 DESCRIPTION

3.1 NEOPOR® ThermaPlus™ PRODUCTS:

The NEOPOR® ThermaPlus™ rigid foam insulation boards are expanded polystyrene foam plastic insulation boards, produced using BASF NEOPOR® EPS (Neopor F5300Plus, Neopor F5200Plus, Neopor F5300Plus BMB, Neopor F5200Plus BMB and Neopor F5Pro) beads described in ESR-2784. The boards have minimum density of 1.35, 1.80, 2.40 and 3.0 pcf (21.6, 29, 38 and 48 kg/m3) and are classified as Type II, IX, XIV and XV, respectively, boards in accordance with ASTM C578. The exterior side of the boards are laminated with Barricade Building Products Barricade Plus® Protective House Wrap described in ESR-1197. The insulation boards are available in various lengths and widths and in thicknesses up to 6 inches (152 mm). The insulation boards are also available in a fan-fold configuration known as ThermaPlus GPS WRB Fanfold and at a thickness of 3/8-inch (9.5 mm). The fan fold boards are available in 4-foot (1.2 m) width and 50-foot (15.2 m) length with a fold break every 2 feet (610 mm). The insulation board may also come with 2-inch-wide flap seal around the edges, known as ThermalTight™.

3.2 Joint Sealing Tapes:

Joint-sealing tapes are used in conjunction with the insulation boards to seal joints between two or more edges of the boards, when installed as an alternative water-resistive barrier. The installation shall be as described in Section 4.2 of this report. When installed as an air barrier assembly in Section 4.3.2, only tapes described in Sections 3.2.1 and 3.2.2 may be used.

3.2.1 3M Construction Tape 8087 and 8087 CW: The tape is a polypropylene, self-adhering seam tape with acrylic adhesive. The tape is nominally 0.003 (0.076 mm) thick and is produced in either minimum 3-inch-wide (76 mm) or for the 8087 CW in 4-inch-wide (102 mm) rolls.

3.2.2 Barricade Joint Treatment Tape: The tape is a polypropylene, self-adhering seam tape with acrylic adhesive. The tape is nominally 0.003 (076 mm) thick and is produced in minimum 3-inch-wide (76 mm) rolls.

3.2.3 TYPAR® Construction Tape: The tape is a polypropylene, self-adhering seam tape. The tape is produced in minimum 2-inch-wide (51 mm) rolls.

3.3 Surface-burning Characteristics:

The insulation board core has a flame-spread index of 25 or less and a smoke development index of 450 or less at maximum thickness of 6 inches (152 mm) when tested in accordance with ASTM E84 (UL 723). The Barricade Building Products Barricade Plus® Protective House Wrap (ESR-1197) has a flame-spread index of 25 or less and a smoke development index of 450 or less when tested in accordance with ASTM E84.

3.4 Thermal Resistance *R*-values:

The boards have a thermal resistance (R-value) as shown in Table 1.

3.5 Vapor Retarder:

The boards have a vapor permeance of greater than 1.0 perm ($5.7X10^{-11}$ kg/Pa-s-m^2) and less than 10 perms ($5.7 X 10^{-10}$ kg/Pa-s-m^2) at a minimum thickness of 1 inch (25.4 mm) when tested in accordance with ASTM E96 (desiccant method) (Procedure A), and qualify as a Class III vapor retarder.

3.6 Air Permeability:

At a minimum thickness of $^1/_4$ inch (6.4 mm), insulation boards are considered air-impermeable in accordance with the 2021 and 2018 IBC Section 1202.3 (2015 IBC Section 1203.3) and 2021, 2018, 2015 and 2012 IRC Section R806.5 (2009 IRC Section R806.4), based on testing in accordance with ASTM E283.

3.7 Air Leakage:

At a minimum thickness of 1-inch (25.4 mm), the boards have an air leakage rate not exceeding 0.02 L/s-m^2 at 75 Pa [0.004 cfm/ft^2 at 0.3 w.g. (1.57)] when used as an air barrier material in accordance with 2024 IRC Section N1102.5.1 (2021, 2018 and 2015 IRC Section N1102.4.1) and 2024 IECC Sections C402.6.1 and R401.5 (2021. 2018 and 2015 IECC Sections C402.5 and R402.4), based on testing in accordance with ASTM E2178.

4.0 DESIGN AND INSTALLATION

4.1 General:

The insulation boards must be installed in accordance with BASF published installation instructions, the applicable code and this report. The manufacturer's published installation instructions must be available on the jobsite at all times during installation.

The insulation boards, at a maximum thickness of 6 inches (152 mm), may be used as nonstructural insulation materials on exterior walls of Type V construction (IBC). The insulation boards must be separated from the interior of the building by an approved thermal barrier of $^1/_2$-inch-thick (12.7 mm) gypsum wallboard or an equivalent thermal barrier complying with, and installed in accordance with, IBC Section 2603.4 or IRC Section R316.4, as applicable.

The insulation boards must be attached with fasteners spaced a maximum of 12 inches (305 mm) on center in field and on the perimeter, unless noted otherwise in this report.

4.2 Water-resistive Barrier:

4.2.1 General:

The insulation boards may be used on exterior walls as an alternative to the water-resistive barrier requirements prescribed in 2024, 2021, and 2018 IBC Section 1403.2 (2015 IBC Section 1404.2) and IRC Section R703.2, when installed as described in this section. The insulation board come in three configurations: insulation board, fan fold insulation board and insulation board with ThermalTight™ flap seals. The boards shall be covered by an approved wall cladding complying with the requirements of the applicable code.

4.2.2 Insulation Board with Seam Tape:

The insulation boards are installed horizontally or vertically with edge joints in contact with one another. The insulation boards must be installed directly on framing members spaced a maximum of 24 inches (610 mm)

on center for insulation boards with minimum thickness of $^{11}/_{16}$-inch (17.5 mm). The insulation boards must be attached with fasteners spaced a maximum of 12 inches (305 mm) on center in the field and on the perimeter.

When the insulation boards are attached to steel studs, the boards must be attached with a tapered screw with a drill point and plastic washer. The screws must be long enough to penetrate the framing a minimum of 0.45 inch (11.4 mm).

When the insulation boards are attached to wood studs, the boards must be attached using nails, screws or staples. Nails and screws must be used with 1-inch-diameter (25.4 mm) washers or plastic caps. The fasteners must be long enough to penetrate the framing members a minimum of $^{3}/_{4}$ inch (19.1 mm).

The horizontal and vertical seams of the insulation boards must be covered with one of the seam tapes described in Section 3.2.

4.2.3 Fan Fold Insulation Boards:

The fan fold insulation boards must be installed horizontally across the framing spaced a maximum of 24 inches (406 mm) on center. The fan fold insulation board must be installed with fasteners 6 inches (152 mm) around the perimeter and 12 inches (305 mm) in the field.

When the insulation boards are attached to steel studs, the boards must be attached with a tapered screw with a drill point and plastic washer. The screws must be long enough to penetrate the framing a minimum of 0.45 inch (11.4 mm).

When the insulation boards are attached to wood studs, the boards must be attached using nails, screws or staples. Nails and screws must be used with 1-inch-diameter (25.4 mm) washers or plastic caps. The fasteners must be long enough to penetrate the framing members a minimum of $^{3}/_{4}$ inch (19.1 mm).

The horizontal and vertical seams of the insulation boards must be covered with one of the seam tapes described in Section 3.2. The tape must also be used to cover fastener heads.

4.2.4 Insulation Board with Flap Seal (ThermalTight™):

The insulation board with flap seal must be installed horizontally or vertically with edge joints in contact with one another. The insulation boards must be installed directly on framing members spaced a maximum of 24 inches (406 mm) on center for insulation boards with minimum thickness of 1-inch. The insulation board must be installed with fasteners at 6 inches around the perimeter and 12 inches in the field.

When the insulation boards are attached to steel studs, the boards must be attached with a tapered screw with a drill point and plastic washer. The screws must be long enough to penetrate the framing a minimum of 0.45 inch (11.4 mm).

When the insulation boards are attached to wood studs, the boards must be attached using nails, screws or staples. Nails and screws must be used with 1-inch-diameter (25.4 mm) washers or plastic caps. The fasteners must be long enough to penetrate the framing members a minimum of $^{3}/_{4}$ inch (19.1 mm).

The horizontal and vertical seams of the insulation boards must be seal with BRINC Fluid FS sealant. The 2-inch flap seal must be pressed over the seams and sealed with BRINC Fluid FS sealant. All penetrations must be sealed with BRINC Fluid FS sealant.

4.3 Air Barrier:

4.3.1 Air Barrier Material: When used as an air barrier material, as noted in Sections 3.6 and 3.7, the insulation boards must be installed in accordance with BASF Corporation's installation instructions and this report.

4.3.2 Air Barrier Assembly: When installed as described in Section 4.3.3, the NEOPOR® ThermaPlus™ rigid foam insulation boards noted in Section 3.1, comply with the requirements for an air barrier assembly in accordance with 2024 IECC Section C402.6.1.4 (2021 IECC Section C402.5.1.4;2018 and 2015 IECC Section C402.5.1.2.2), based on testing in accordance with ASTM E2357.

4.3.3 The NEOPOR® ThermaPlus™ rigid foam insulation boards in widths of 2 to 4 feet (609 to 1219 mm) and length of 8 to 10 feet (2438 to 3048 mm), are installed horizontally over gypsum sheathing or concrete block wall.

When installed directly over concrete block walls, the insulation boards are attached to the block wall with mechanical fasteners. The boards are installed between the rows or brick ties. When installed over gypsum sheathing the boards must be mechanically attached to the wood or steel framing using nails, staples, plastic caps and nails or screws. The fasteners must be long enough to penetrate wood framing members a minimum

of 0.5 inch (12.7 mm) and steel framing members a minimum of ¾-inch (19 mm). Seams and joints between boards must be sealed with 3M Construction Tape 8087 CW or Barricade Joint Treatment Tape 4-inch-wide (51 mm).

Penetrations in the air barrier assembly must be sealed or taped in accordance with 2024 IECC Section C402.6.1.1, Item 3 (2021 IECC Section C402.5.1.1, Item 3, 2018 and 2015 IECC Sections C402.5.1.1).

4.4 Wind Resistance:

The insulation boards have the values noted in Table 2 based on testing in accordance with ASTM E330 and ANSI/SBCA FS100 as specified in IBC Section 2603.10 and 2024 IRC R303.8 (2021, 2018 and 2015 IRC SectionR316.8). The values are based on direct attachment to the type and spacing of wall framing described in Table 2. The design and construction of the wall framing must comply with the applicable requirements of the IBC or IRC, as applicable, and Table 2.

Attachment of the cladding over the insulation boards must be in accordance with 2024 IBC Section 1404.5.3 and Table 1404.5.3.1 (2021 and 2018 IBC Section 2603.13 and Table 2603.13.1) and 2024, 2021 and 2018 R703.3.3 and table R703.3.3 (2018 IRC Section R703.3.2), as applicable. Exterior cladding must be provided to secure insulation boards to wall framing to resist effects of negative wind pressure.

5.0 CONDITIONS OF USE:

The NEOPOR® ThermaPlus™ rigid foam insulation 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 Installation must comply with this report, the report holder's published installation instructions and the applicable code. In the event of a conflict between the report holder's published installation instructions and this report, this report governs.

5.2 Use of the insulation boards to resist structural loads is outside the scope of this report. The walls must be braced in accordance with the requirements of the applicable code.

5.3 The insulation boards must not be used as a nailing base for exterior siding materials. All nailing must be into the wall framing or structural sheathing as required by the siding manufacturer's published installation instructions or the applicable code.

5.4 The insulation boards must be separated from the interior of the building by an approved thermal barrier of $^1/_2$-inch-thick (12.7 mm) gypsum wallboard or an equivalent thermal barrier complying with, and installed in accordance with, IBC Section 2603.4 or IRC Section R316.4, as applicable.

5.5 Jobsite certification and labeling of the insulation must comply with 2024 IRC Section R303.2 and N1101.10.1 (2021, 2018 and 2015 IRC Sections R316.2 , N1101.10;2012 IRC Section N1101.12;2009 IRC Section 1101.4) and 2024, 2021, 2018, 2015 and 2012 IECC Sections C303.1, R303.1 and R401.3 (2009 IECC Sections 303.1 and 401.3), as applicable.

5.6 Use of insulation in areas where the probability of termite infestation is "very heavy" must be in accordance with 2024, 2021, 2018, 2015 and 2009 Section 2603.8 (2012 IBC Section 2603.9) or 2024 IRC Section R305.4 (2021, 2018, 2015, 2012 and 2009 IRC Section R318.4), as applicable. In these areas there must be a clearance of 6 inches (152 mm) between the foam plastic insulation and exposed earth.

5.7 When the insulation boards are installed on the exterior face of exterior walls as an alternative to the required water-resistive barrier, as described in Section 4.2, the boards must be covered with an approved exterior wall covering.

5.8 The exterior wall covering spanning between wall framing members must provide the necessary structural resistance to wind and seismic forces.

5.9 Installation in unvented attics, when equipped with vapor diffusion ports in accordance with 2024 and 2021 IBC Section 1202.3, Item 5.2 and 2024, 2021 and 2018 IRC Section R806.5, Item 5.2, is outside scope of this report.

5.10 The insulation boards must not be used as a water-resistive barrier with Portland cement plaster where two layers of water-resistive barrier complying with ASTM E2556 Type I are required or two layers of Grade D paper are required in accordance with 2024, 2021 IBC Section 2510.6.1 Item 1 [2018, 2015, 2012 and 2009 IBC Section 2510.6] or 2024 and 2021 IRC Section R703.7.3.1 Item 1 [2018 and 2015 IRC Section R703.7.3 (2012 and 2009 IRC Section R703.6.3)].

5.11 The insulation boards are manufactured under an approved quality-control program with inspections provided by ICC-ES.

6.0 EVIDENCE SUBMITTED

6.1 Data in accordance with the ICC-ES Acceptance Criteria for Foam Plastic Insulation (AC12), dated June 2015 (editorially revised June 2024).

6.2 Data in accordance with the ICC-ES Acceptance Criteria for Foam Plastic Sheathing Panels Used as Weather-resistive Barriers (AC71), dated February 2003 (editorially revised July 2024).

6.3 Data in accordance with ASTM E2357 for air barrier assembly.

6.4 Data in accordance with ANSI FS 100.

7.0 IDENTIFICATION

7.1 The ICC-ES mark of conformity, electronic labeling, or the evaluation report number (ICC-ES ESR-4431) along with the name, registered trademark, or registered logo of the report holder and or listee must be included in the product label.

7.2 In addition, the insulation boards must be packaged in bundles wrapped in opaque poly film or cardboard bearing a label with the BASF NEOPOR® trademark; the product name (NEOPOR® ThermaPlus™); the manufacturing location; the date of manufacture; and the thermal resistance (*R*-value).

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

BASF CORPORATION
11750 KATY FREEWAY
17TH FLOOR
HOUSTON, TEXAS 77079
(973) 519-3991
www.neopor-insulation.com

7.4 The Additional Listee's contact information is the following:

BRINC BUILDING PRODUCTS
1270 PA-66
NEW BETHLEHEM, PENNSYLVANNIA 16242
(888) 814-2825

TABLE 1—MINIMUM DENSITY AND R-VALUE

ASTM C578 EPS TYPE	R-VALUE (°F-ft²-h/Btu) 75°F MEAN TEMPERATURE[1]	R-VALUE (°F-ft²-h/Btu) 75°F MEAN TEMPERATURE[2]
II	4.7	5.0
IX	4.7	5.0
XIV	4.5	-
XV	4.4	-

For **SI:** 1 inch= 25.4 mm, 1°F-ft²-h/Btu= 0.176 m²-K/W.

[1]Based on thickness of 1.0 inch.
[2]Based on thickness of 1.0625 inch.

TABLE 2—POSITIVE WIND PRESSURE RESITANCE OF NEOPOR THERMAPLUS INSULATION BOARDS[1]

ASTM C578 Foam Type	Minimum Thickness, inches	Orientation to Framing[2]	Fastener	Fastener Spacing, inches	Frame Spacing, inches	Allowable Positive Design Pressure, psf
II, IX	$^{11}/_{16}$	Parallel	0.092-inch diameter ring shank nails with 1-inch diameter plastic cap washers	6 inches on center perimeter 12 inches on center field	24	53
	$1^{1}/_{16}$	Parallel			16	57
	$1^{1}/_{16}$	Perpendicular			16	39

For **SI:** 1 inch=25.4 mm; 1 psf= 47.88 Pa.

[1] Insulation boards must be installed in accordance with Section 4.0 of this report. The insulation board must be installed with all edges supported by framing or blocking. Framing consists of minimum 2x4 wood studs, SPF species, minimum stud grade.
[2] Parallel orientation means board length or height installed parallel to framing member. Perpendicular orientation means board length installed perpendicular to framing.

DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION
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Section: 07 25 00—Water-Resistive Barriers/Weather Barriers
Section: 07 27 00—Air Barriers

REPORT HOLDER:

BASF CORPORATION

EVALUATION SUBJECT:

NEOPOR® THERMAPLUS™ PRODUCTS

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that the NEOPOR® ThermaPlus™ ridged foam insulation boards described in ICC-ES evaluation report ESR-4431, 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 NEOPOR® ThermaPlus™ rigid foam insulation boards, described in Sections 2.0 through 7.0 of the evaluation report ESR-4431, comply with the LABC Chapter 7, 14 and 26, and the LARC Section R316, R318, R703 and R806, and are subject to the conditions of use described in this supplement.

3.0 CONDITIONS OF USE

The NEOPOR® ThermaPlus™ rigid foam insulation boards described in this evaluation report supplement must comply with all of the following conditions:

- All applicable sections in the evaluation report ESR-4431.
- The design, installation, conditions of use and identification of the NEOPOR® ThermaPlus™ rigid foam insulation boards are in accordance with the 2021 *International Building Code®* (IBC) and 2021 *International Residential Code®* (IRC) provisions, as applicable, noted in the evaluation report ESR-4431.
- The design, installation and inspection are in accordance with additional requirements of LABC Chapter 17, as applicable.

This supplement expires concurrently with the evaluation report, issued December 2025.

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BASF CORPORATION

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1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that NEOPOR® ThermaPlus™ rigid foam insulation boards, described in ICC-ES evaluation report ESR-4431, has also been evaluated for compliance with the codes noted below.

Applicable code editions:

- 2025 and 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.

- 2025 and 2022 *California Residential Code* (CRC)
- 2025 and 2022 *California Energy Code* (CEC)

2.0 CONCLUSIONS

2.1 CBC:

The NEOPOR® ThermaPlus™ rigid foam insulation boards, described in Sections 2.0 through 7.0 of the evaluation report ESR-4431, comply with the CBC, provided the design and installation are in accordance with the 2024 and 2021 *International Building Code®* (IBC), as applicable, provisions noted in the evaluation report.

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 NEOPOR® ThermaPlus™ rigid foam insulation boards, described in Sections 2.0 through 7.0 of the evaluation report ESR-4431, comply with the CRC, provided the design and installation are in accordance with the 2024 and 2021 *International Residential Code®* (IRC), as applicable, provisions noted in the evaluation report.

2.3 CEC:

The NEOPOR® ThermaPlus™ rigid foam insulation boards, described in Sections 2.0 through 7.0 of the evaluation report ESR-4431, comply with the 2019 CEC, provided the design and installation are in accordance with the 2024 and 2021 *International Building Code®* (IBC) or 2024 and 2021 *International Residential Code®* (IRC), as applicable, provisions noted in the evaluation report.

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2.3.1 Conditions of Use:

In accordance with Section 110.8 of the 2025 and 2022 California Energy Code (CEC), verification of certification by the Department of Consumer Affairs, Bureau of Household Goods and Services, must be provided to the code official, demonstrating that the insulation conductive thermal performance is approved pursuant to the California Code of Regulations, Title 24, Part 12, Chapters 12-13, Article 3, "Standards for Insulating Materials." The certification must be verified with the DCA Bureau of Household Goods and Services using the following link to the bureau's Directory of Certified Insulation Materials: https://bhgs.dca.ca.gov/consumers/ti_directory.pdf

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REPORT HOLDER:

BASF CORPORATION

EVALUATION SUBJECT:

NEOPOR® THERMAPLUS™ PRODUCTS

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that NEOPOR® ThermaPlus™ rigid foam insulation boards, described in ICC-ES evaluation report ESR-4431, 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 NEOPOR® ThermaPlus™ rigid foam insulation boards, described in Sections 2.0 through 7.0 of ICC-ES evaluation report ESR-4431, complies with the 2023 *Florida Building Code—Building* and 2023 *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-4431 for the 2021 *International Building Code®* meet the requirements of the 2023 *Florida Building Code—Building* or the 2023 *Florida Building Code—Residential,* as applicable, with the following conditions:

1. Use of the insulation boards to resist structural loads is outside the scope of this report. The walls must be braced in accordance with the requirements of the *Florida Building Code—Building* or the *Florida Building Code—Residential*, as applicable.
2. Installation must meet the requirements of Sections 1403.8 and 2603.8 of the *Florida Building Code—Building* and Sections R318.7 and R318.8 of the *Florida Building Code—Residential.*
3. The insulation boards must be separated from the interior of the building by an approved thermal barrier of ½-inch-thick (12.7 mm) gypsum or an equivalent thermal barrier complying with, and installed in accordance with, Section 2603.4 of *Florida Building Code—Building* or Section R316.4 of the *Florida Building Code—Residential*, as applicable.
4. The insulation boards must not be used as a water-resistive barrier with Portland cement plaster where two layers of water-resistive barrier complying with ASTM E2556 Type I are required or two layers of Grade D paper are required in accordance with Section 2510.6 of the *Florida Building Code—Building* or R703.7.3 of the *Florida Building Code—Residential*.

Use of the NEOPOR® ThermaPlus™ rigid foam insulation boards has also been found to be in compliance with the High-Velocity Hurricane Zone provisions of the *Florida Building Code—Building* or the *Florida Building Code—Residential.*

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). Florida Rule 61G20-3 is applicable to products and/or systems which comprise the building envelope and structural frame for compliance with the structural requirements of the Florida Building Code.

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