

ICC-ES Evaluation Report

ESR-1748

Reissued October 2019

Revised August 2020

This report is subject to renewal October 2020.

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

A Subsidiary of the International Code Council®

DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION

Section: 07 24 00—Exterior Insulation and Finish Systems

Section: 07 24 19—Water-Drainage Exterior Insulation and Finish System

REPORT HOLDER:

STO CORP.

ADDITIONAL LISTEE:

KAPTURE PREFAB

EVALUATION SUBJECT:

STOTHERM® ci®, STOPANEL™ CLASSIC ci®, STOPANEL™ IMPACT ci®, STOPANEL™ XPS AND STOPANEL™ CLASSIC NEXT ci®

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2018, 2015 and 2012 *International Building Code*® (IBC)
- 2018, 2015 and 2012 *International Residential Code*® (IRC)

For evaluation for compliance with codes adopted by Los Angeles Department of Building and Safety (LADBS), see [ESR-1748 LABC and LARC Supplement](#).

Properties evaluated:

PROPERTY	IBC Chapter	IRC Chapter
Exterior insulation and finish systems (EIFS)	14	R7
Fire-resistance-rated construction	7	R3
Weather resistance	14	R7
Special inspections, Types I-IV (noncombustible) construction	17	NA
Structural – transverse wind load resistance	16	R6
Types I-IV (noncombustible) construction	26	NA
Surface burning characteristics	26	R3
Ignition resistance	26	NA

2.0 USES

StoTherm® ci®, StoPanel™ Classic ci®, StoPanel™ Impact ci®, StoPanel™ XPS and StoPanel™ Classic NEXT ci® systems are exterior insulation and finish systems (EIFS) complying with 2018 IBC Section 1407 and 2015 and 2012 IBC Section 1408 and IRC Section R703.9. The systems comply with the requirements of 2018 IBC Section 1407.4.1 and 2015 and 2012 IBC Section 1408.4.1 and IRC Section R703.9 as EIFS with drainage.

StoTherm® ci® StoPanel™ Classic ci®, StoPanel™ Impact ci®, StoPanel™ XPS and StoPanel™ Classic NEXT ci® systems may be installed in buildings of any construction type under the IBC (Types I through V) and dwellings under the IRC when installed in accordance with the applicable sections of Section 4.0.

3.0 DESCRIPTION

3.1 System Components:

StoTherm® ci® StoPanel™ Classic ci® Classic, StoPanel™ Impact ci®, StoPanel™ XPS and StoPanel™ Classic NEXT ci® systems consist of a water-resistive barrier, adhesively applied flat insulation board, reinforcing mesh, base coat, and finish coat. See Table 1 for system components.

3.2 Insulation Board:

The insulation boards must be one of the following:

- a. Expanded polystyrene (EPS) complying with ASTM C578, Type I, and ASTM E2430, produced by a molders with a current ICC-ES evaluation report.
- b. EPS insulation board produced by a molders who participates in an approved third-party quality-assurance program. EPS must comply with ASTM C578, Type I, and ASTM E2430.
- c. Sto Insulation Board, EPS complying with ASTM C578, Type I, and ASTM E2430.
- d. Owens Corning Foamular® CI-C Extruded Polystyrene Type X (for use with the StoTherm® ci® XPS system as noted in Table 1).
- e. Dow Styrofoam Panel Core Type X recognized in [ESR-2142](#) (for use with the StoTherm® ci® XPS system noted in Table 1).
- f. BASF Neopor® Rigid Foam Insulation Board (Grade F5300 Plus) (for use with StoTherm® ci® Classic, StoTherm® ci® Premier, StoTherm® ci® Essence, and StoTherm® ci® Lotusan systems as noted in Table 1).

EPS insulation boards must 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 or UL 723.

3.3 Substrates:

Substrates must be one of the following:

- Gypsum sheathing board complying with ASTM C1396 or ASTM C1177. When used as part of a fire-resistance-rated assembly, the gypsum board must be Type X with a minimum thickness of $\frac{5}{8}$ inch (15.9 mm).
- Concrete masonry complying with the code.
- Concrete complying with the code.
- Exterior plaster complying with the code.
- Exterior or Exposure 1 wood structural panels complying with DOC PS-1 or PS-2.

3.4 Sealants:

Sealants must comply with ASTM C920, Type S or M, minimum Grade NS, minimum Class 25 and Use O.

4.0 DESIGN AND INSTALLATION

4.1 General:

4.1.1 StoTherm® ci®: StoTherm® ci® must be installed in accordance with the manufacturer's installation instructions, specifications and details, which are available at www.stocorp.com:

- <http://www.stocorp.com/continuous-insulation-systems/>
- http://www.stocorp.com/sto_systems/stothermci-xps-lotusan/
- http://www.stocorp.com/sto_systems/stothermci-classic/
- http://www.stocorp.com/sto_systems/stothermci-lotusan/
- http://www.stocorp.com/sto_systems/stothermci-xps-essence/
- http://www.stocorp.com/sto_systems/stothermci-xps-classic/
- http://www.stocorp.com/sto_systems/stothermci-essence/

4.1.2 StoPanel™ Classic ci®: StoPanel™ Classic ci® system is a prefabricated application by Kapture Prefab of the StoTherm® ci® Classic system. Sto materials, as listed in Table 6, must be installed in accordance with the specifications and installation instructions in Section 4.1.1. StoPanel™ Classic ci® system must be fabricated in accordance with project specification and StoPanel™ fabricator shop drawings for each project.

- [StoPanel™ Classic ci®](#)
- [Specification](#)

4.1.3 StoPanel™ Impact ci®: StoPanel™ Impact ci® system is a prefabricated application by Kapture Prefab of the StoTherm® Impact ci® system. Sto materials, as listed in Table 6, must be installed in accordance with the specifications and installation instructions in Section 4.1.1. StoPanel™ Impact ci® system must be fabricated in accordance with project specification and StoPanel™ fabricator shop drawings for each project.

- [StoPanel Impact ci®](#)
- [Specification](#)

4.1.4 StoPanel™ XPS: StoPanel™ XPS system is a prefabricated application by Kapture Prefab of the StoTherm® XPS system. Sto materials, as listed in Table 6, must be installed in accordance with the specifications and installation instructions in Section 4.1.1. StoPanel™ XPS system must be fabricated in accordance with project specification and StoPanel™ fabricator shop drawings for each project.

- [StoPanel™ XPS](#)
- [Specification](#)

4.1.5 StoPanel™ Classic NEXT ci®: StoPanel™ Classic NEXT ci® system is a prefabricated application by Kapture Prefab of the StoTherm® ci® system which also incorporates the Sto Wedge drainage detail. Sto materials, as listed in Table 6, must be installed in accordance with the specifications and installation instructions in Section 4.1.1. StoPanel™ Classic NEXT ci® system must be fabricated in accordance with project specification and StoPanel™ fabricator shop drawings for each project.

- [StoPanel™ Classic NEXT ci®](#)
- [Specification](#)

4.2 Drainage:

StoTherm® ci®, StoPanel™ ci® Classic, StoPanel™ Impact ci®, StoPanel™ XPS and StoPanel™ Classic NEXT ci® provides drainage through the application of vertical ribbons of adhesive over the water-resistive barrier coating system identified in Table 1.

Additional installation and compliance information for the Sto Gold Coat water-resistive barrier system is provided in [ESR-1233](#) and at www.stocorp.com.

4.3 Wind Design:

Table 3 presents specific StoTherm® ci® assemblies for which test data has been submitted. Other StoTherm® ci® assemblies may be considered for approval by local officials, based on testing and/or calculations provided by a qualified design professional.

4.4 Weather Protection:

StoTherm® ci®, StoPanel™ Classic ci®, StoPanel™ Impact ci®, StoPanel™ XPS and StoPanel™ Classic NEXT ci® systems comply with 2018 IBC Section 1402.2 and 2015 and 2012 IBC Section 1403.2 and IRC Section R703.1.1.

4.5 Use in Types I through IV (Noncombustible) Construction:

Table 4 describes the assemblies qualified for use in Types I through IV construction (IBC).

4.6 Fire-resistance-rated Construction:

Table 5 describes the assemblies qualified for use in nonload-bearing fire-resistance-rated construction.

In addition, in Type V construction, any StoTherm® ci® system listed in this report may be attached to the surface of combustible exterior fire-resistance-rated assemblies described in IBC Table 721.1(2) without changing the assigned hourly rating of the assembly. The exterior wall must have a minimum 10-foot (3048 mm) separation distance from adjacent construction.

4.7 Special Inspection:

For recognition under the IBC, special inspections of the water-resistive barrier must be conducted in accordance with 2018 and 2015 IBC Section 1705.16 (2012 IBC Section

1705.15). Refer to STO Corp. third-party inspection guidelines for verifying field preparation of materials.

5.0 CONDITIONS OF USE

The StoTherm® ci®, StoPanel™ Classic ci®, StoPanel™ Impact ci®, StoPanel™ XPS and StoPanel™ Classic NEXT ci® EIFS systems described in this report comply with, or are suitable alternatives 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 instructions and this report, this report governs.
- 5.2 The insulation board must be separated from the building interior by a thermal barrier complying with the applicable code.
- 5.3 Installation must be by applicators listed by Sto Corp. StoPanel™ Classic ci®, StoPanel™ Impact ci®, StoPanel™ XPS StoPanel™ Classic NEXT ci® must be fabricated by Kapture Prefab and installed in accordance with Sto instructions.
- 5.4 Termination of the systems must not be less than 6 inches (152 mm) above finished grade in accordance with 2018 and 2015 IBC Section 2603.8 (2012 IBC Section 2603.9) and IRC Section R318.4.

6.0 EVIDENCE SUBMITTED

- 6.1 Data in accordance with ASTM E2568 and ASTM E2273.
- 6.2 Data in accordance with the ICC-ES Acceptance Criteria for EIFS Clad Drainage Wall Assemblies (AC235), dated January 2015 (editorially revised April 2018).
- 6.3 Data in accordance with the ICC-ES Acceptance Criteria for Foam Plastic Insulation (AC12), dated June 2015 (editorially revised October 2017).
- 6.4 NFPA 285 and NFPA 268 test data, including engineering analysis.

7.0 IDENTIFICATION

- 7.1 Each container or package of the coating or reinforcing mesh used as part of the StoTherm® EIFS ci® systems components must be labeled with the manufacturer's name (STO Corp.) and address; the product name; lot or batch number; quantity of material; storage instructions; pot life; expiration date; and the evaluation report number (ESR-1748).

Sto insulation board must be labeled on the edge of each board with the STO Corp. name, the plant identification number, and the evaluation report number (ESR-1748).

Sto Turbostick and Sto Turbostick Mini adhesive must be labeled with the Sto Corporation company name and product name designation.

Other foam plastic insulation must be labeled in accordance with the current ICC-ES evaluation report in which it is recognized, or in accordance with IBC Section 2603.2 or IRC Section R316.2, as applicable.

StoPanel™ Classic ci®, StoPanel™ Impact ci®, StoPanel™ XPS StoPanel™ Classic NEXT ci® prefabricated panels are produced by Kapture Prefab and shipped with a certificate of compliance that contains the project identification the panels were produced for, dates of panel fabrication and a statement that all components of the panels complies with the applicable requirements of ESR-1748.

- 7.2 The report holder's contact information is the following:

STO CORP.
3800 CAMP CREEK PARKWAY
BUILDING 1400, SUITE 120
ATLANTA, GEORGIA 30331
(800) 221-2397
www.stocorp.com

- 7.3 The Additional Listee's contact information is the following:

KAPTURE PREFAB
421 WEST ALAMEDA DRIVE
TEMPE, ARIZONA 85282

TABLE 1—STOTHERM® ci® SYSTEM COMPONENTS^{1,2}

SYSTEM	WATER-RESISTIVE BARRIER	ASTM C578 INSULATION BOARD TYPE	ADHESIVES	BASE COATS	FINISH
StoTherm® ci® Classic	80265-81636 Sto Gold Coat 81210 Sto AirSeal 80263 Sto VaporSeal (see ESR-1233)	Type I ⁴	Sto BTS Plus Sto BTS Silo Sto BTS Xtra Sto TurboStick Sto TurboStick Mini	Sto BTS Plus Sto BTS Silo Sto BTS Xtra Sto RFP	Stolit Stolit Milano ³ Stolit X ³
StoTherm® ci® Premier	80265-81636 Sto Gold Coat 81210 Sto AirSeal 80263 Sto VaporSeal (see ESR-1233)	Type I ⁴	Sto BTS Plus Sto BTS Silo Sto BTS Xtra Sto TurboStick Sto TurboStick Mini	Sto BTS Plus Sto BTS Silo Sto BTS Xtra Sto RFP	StoSilco Lit
StoTherm® ci® Essence	80265-81636 Sto Gold Coat 81210 Sto AirSeal 80263 Sto VaporSeal (see ESR-1233)	Type I ⁴	Sto Primer/Adhesive Sto Primer/Adhesive-B Sto TurboStick Sto TurboStick Mini	Sto Primer/Adhesive Sto Primer/Adhesive-B	Sto DPR Finish Stolit Milano Stolit X
StoTherm® ci® Lotusan	80265-81636 Sto Gold Coat 81210 Sto AirSeal 80263 Sto VaporSeal (see ESR-1233)	Type I ⁴	Sto BTS Plus Sto BTS Silo Sto BTS Xtra Sto TurboStick Sto TurboStick Mini	Sto BTS Plus Sto BTS Silo Sto BTS Xtra Sto RFP	Stolit Lotusan
StoTherm® ci® XPS	80265-81636 Sto Gold Coat 81210 Sto AirSeal 80263 Sto VaporSeal (see ESR-1233)	Type X	Sto TurboStick Sto TurboStick Mini	Sto BTS Plus Sto BTS Xtra Sto Primer/Adhesive Sto Primer/Adhesive-B	Stolit Stolit Lotusan Stolit Milano Stolit X

¹All base coats are reinforced with the appropriate Sto Mesh product listed in Table 2.

²Sto Primer is an optional component of the systems listed above.

³Sto BTS Silo basecoat is not recognized for use with Stolit Milano and Stolit X finish.

⁴Reference Section 3.2(f) for alternate insulation board.

TABLE 2—REINFORCING MESH PRODUCTS

PRODUCT NO.	PRODUCT NAME ¹	NOMINAL WEIGHT, oz/yd ² (g/m ²)
80920E	Sto Mesh	4.5 (153)
80919	Sto Detail Mesh	4.2 (142)
80985	Sto 6-oz. (170 g) Mesh	6.0 (170)
80918	Sto Intermediate Mesh	11.0 (373)
80921	Sto Armor Mat	15.0 (509)
80922	Sto Armor Mat XX	20.0 (678)
80921A	Sto Corner Mat	7.6 (258)

¹Other listed mesh products may be used for detail construction or to supplement impact resistance of the EIFS.

TABLE 3—WIND LOAD DESIGN¹

FRAMING MEMBERS ²				SHEATHING			WIND LOAD CAPACITY, psf (Pa)		SYSTEM
Wood, min. size (inches)	Metal		Maximum Spacing (inches)	Type	Thickness (inch)	Maximum Fastener Spacing ³ , (inches)	Neg.	Pos.	
	Min. Depth (inches)	Min. Gage							
2x4 (nominal)	--	--	16	Wood-based	3/8	8	20	36	Classic Premier
--	3 1/2	18	16	Wood-based	3/8	8	38	60	Essence
--	3 1/2	18	16	Gypsum	1/2	8	20	35	Classic Premier Essence Lotusan StoPanel™ (See Table 6)
--	3 1/2	18	16	Gypsum	5/8	8	38	60	Essence StoPanel™ (See Table 6)
--	6	18	16	Gypsum	5/8	6	40	50	Classic Premier Essence Lotusan (with Turbo Stick Adhesive or Sto TurboStick Mini and Type I EPS) StoPanel™ (See Table 6)
--	6	18	16	Gypsum	5/8	6	63	58	StoTherm ci® XPS StoPanel™ (See Table 6)
Concrete or masonry substrates							54	54	Classic Premier Lotusan

For SI: 1 inch = 25.4 mm, 1 psf = 0.0479 kPa.

¹Applicable to all StoTherm® materials listed in Tables 1 and 2.

²Deflection limitation 1/240, designed in accordance with applicable code.

³Fasteners must be No. 6, flathead, corrosion-resistant screws [minimum 0.292-inch (7.4 mm) head diameter].

TABLE 4—ASSEMBLIES FOR USE IN TYPES I THROUGH IV CONSTRUCTION

FRAMING MEMBERS ^{5,8}			INTERIOR SHEATHING ^{1,7} (TYPE X GYPSUM)		EXTERIOR SHEATHING (TYPE X GYPSUM)		MAX. INSULATION BOARD THICKNESS, (inches)	SYSTEM ⁹
Metal		Max. Spacing (inches)	Min. Thickness (inch)	Max. Fastener Spacing (inches)	Min. Thickness (inch)	Max. Fastener Spacing (inches)		
Min. Depth (inches)	Min. Gage							
3½	18	16	½	8 at perimeter 12 in field ²	½	6 at perimeter 8 in field ³	12	Essence Lotusan StoPanel™ (See Table 6)
3½	18	16 ⁶	½	6 ⁴	⅝	6 at perimeter 8 in field ³	12	Classic Premier Lotusan StoPanel™ See Table 6
6¼	20	16	⅝	8 ⁴	⅝	8 ⁴	12	StoTherm® ci Essence with Sto TurboStick, Sto TurboStick Mini, Sto Primer/Adhesive-B base coat and Stolit X finish StoPanel™ See Table 6
3½	18	16 ⁶	⅝	8 at perimeter 12 in field	⅝	8 at perimeter 12 in field	9	Classic with Turbo Stick adhesive and Type I EPS StoPanel™ See Table 6
3½	18	16 ⁶	⅝	8 at perimeter 12 in field	⅝	8 at perimeter 12 in field	6	StoTherm® ci® XPS with Sto BTS Xtra base coat and Stolit finish StoPanel™ See Table 6

For SI: 1 inch = 25.4 mm.

¹All board joints backed by framing.

²Fasteners are minimum No. 8, Type S, corrosion-resistant screws, with sufficient length to penetrate framing a minimum of ³/₈ inch (9.5 mm).

³Fasteners are No. 6 drywall screws having sufficient length to penetrate framing a minimum of ³/₈ inch (9.5 mm).

⁴Fasteners are No. 6 by 1¹/₄-inch-long (31.7 mm), buglehead drywall screws.

⁵Stud cavities at floor levels are blocked with Owens Corning Thermafiber insulation, 4 lb/ft³ (64 kg/m³) density, 4 inches (102 mm) thick and 2 feet (610 mm) wide.

⁶Stud cavities must be filled with R-11 fiberglass insulation.

⁷All joints must be taped and treated with joint compound. Intermediate fastener heads are treated with joint compound in accordance with ASTM C840 or GA216.

⁸Openings must be framed with minimum 0.0428-inch-thick steel framing.

⁹Applicable to StoTherm® ci® and StoPanel™ systems listed in Tables 1, 4 and 6, except for StoTherm® ci® and StoPanel™ systems using Stolit Milano and Stolit X finish, unless noted otherwise.

TABLE 5—FIRE-RESISTANCE-RATED ASSEMBLIES^{1,2}

FIRE-RESISTANCE RATING (hrs)	FRAMING MEMBERS			INTERIOR SHEATHING			EXTERIOR SHEATHING			MAXIMUM EPS INSULATION BOARD THICKNESS (inches)
	Min. Depth (inches)	Min. Gage	Max. Spacing (inches)	Type	Min. Thickness (inch)	Max. Fastener Spacing (inches)	Type	Min. Thickness (inch)	Max. Fastener Spacing ⁵ (inches)	
1	3½	18	16	Type X gypsum ⁵	5/8	8 o.c. on perimeter 12 o.c. in field ³	Type X gypsum	5/8	6 at perimeter 8 in field ⁴	4
2	3½	18	16	Two layers of Type X gypsum ⁵	5/8	Base layer at 24 o.c. Face layer at 8 o.c. ⁶	Two layers of Type X gypsum	5/8	Base layer at 24 o.c. Face layer at 8 o.c. ⁶	4

For SI: 1 inch = 25.4 mm.

¹Applicable to all StoTherm® ci® and StoPanel™ materials listed in Table 1, except to StoTherm® ci® and StoPanel™ systems which use the Stolit Milano, Stolit X and Sto Turbo Stick or Sto TurboStick Mini adhesive.

²All board joints must be blocked

³Fasteners are minimum No. 6, 1¼-inch-long (32 mm), self-tapping, corrosion-resistant bugle head screws.

⁴Fasteners are No. 6 drywall screws having sufficient length to penetrate framing a minimum of 3/8 inch (9.5 mm).

⁵Interior wallboard joints must be covered with tape and joint compound. Interior fastener heads are covered with joint compound in accordance with ASTM C840 or GA 216.

⁶Fasteners for the base layer of gypsum board are No. 6, 1¼-inch-long, self-tapping, corrosion-resistant bugle-head screws. Fasteners for the face layer are 17/8-inch-long, self-tapping, corrosion-resistant bugle-head screws.

TABLE 6—STOPANEL™ COMPONENTS^{1,2}

SYSTEM	WATER-RESISTIVE BARRIER	ASTM C578 INSULATION BOARD TYPE	ADHESIVES	BASE COATS	FINISH
StoPanel™ Classic ci®	80265-81636 Sto Gold Coat 81210 Sto AirSeal 80263 Sto VaporSeal (see ESR-1233)	Type I	Sto BTS Plus Sto BTS Silo Sto BTS Xtra Sto TurboStick Sto TurboStick Mini	Sto BTS Plus Sto BTS Silo Sto BTS Xtra Sto RFP	Stolit Stolit Milano ³ Stolit X ³
StoPanel™ Classic NEXT ci®	80265-81636 Sto Gold Coat 81210 Sto AirSeal 80263 Sto VaporSeal (see ESR-1233)	Type I	Sto BTS Plus Sto BTS Silo Sto BTS Xtra Sto TurboStick Sto TurboStick Mini	Sto BTS Plus Sto BTS Silo Sto BTS Xtra Sto RFP	Stolit Stolit Milano ³ Stolit X ³
StoPanel™ Impact ci®	80265-81636 Sto Gold Coat 81210 Sto AirSeal 80263 Sto VaporSeal (see ESR-1233)	Type I	Sto BTS Plus Sto BTS Silo Sto BTS Xtra Sto TurboStick Sto TurboStick Mini	Sto BTS Plus Sto BTS Silo Sto BTS Xtra Sto RFP	StoSilco Lit
StoPanel™ XPS	80265-81636 Sto Gold Coat 81210 Sto AirSeal 80263 Sto VaporSeal (see ESR-1233)	Type X	Sto TurboStick Sto TurboStick Mini	Sto BTS Plus Sto BTS Xtra Sto Primer/Adhesive Sto Primer/Adhesive-B	Stolit Stolit Lotusan Stolit Milano Stolit X

¹All base coats are reinforced with the appropriate Sto Mesh product listed in Table 2.

²Sto Primer is an optional component of the systems listed above.

³Sto BTS Silo basecoat is not recognized for use with Stolit Milano and Stolit X finish.

ICC-ES Evaluation Report

ESR-1748 LABC and LARC Supplement

Reissued October 2019

Revised August 2020

This report is subject to renewal October 2020.

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

A Subsidiary of the International Code Council®

DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION

Section: 07 24 00—Exterior Insulation and Finish Systems

Section: 07 24 19—Water-Drainage Exterior Insulation and Finish System

REPORT HOLDER:

STO CORP.

EVALUATION SUBJECT:

STOTHERM® ci®, STOPANEL™ CLASSIC ci®, STOPANEL™ IMPACT ci®, STOPANEL™ XPS AND STOPANEL™ CLASSIC NEXT ci®

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that StoTherm® ci®, StoPanel™ Classic ci®, StoPanel™ Impact ci®, StoPanel™ XPS and StoPanel™ Classic NEXT ci® systems, described in ICC-ES evaluation report [ESR-1748](#), have also been evaluated for compliance with the codes noted below as adopted by Los Angeles Department of Building and Safety (LADBS).

- 2020 *City of Los Angeles Building Code* (LABC)
- 2020 *City of Los Angeles Residential Code* (LARC)

2.0 CONCLUSIONS

The StoTherm® ci®, StoPanel™ Classic ci®, StoPanel™ Impact ci®, StoPanel™ XPS and StoPanel™ Classic NEXT ci® systems, described in Sections 2.0 through 7.0 of the ICC-ES evaluation report [ESR-1748](#), comply with LABC Chapters 7, 14 and 26, and LARC Sections R316 and R703, subject to the conditions of use described in this report.

3.0 CONDITIONS OF USE

The StoTherm® ci®, StoPanel™ Classic ci®, StoPanel™ Impact ci®, StoPanel™ XPS and StoPanel™ Classic NEXT ci® systems described in this evaluation report supplement must comply with all of the following conditions:

- All applicable sections in the ICC-ES evaluation report [ESR-1748](#).
- The design, installation, conditions of use and labeling of the StoTherm® ci®, StoPanel™ Classic ci®, StoPanel™ Impact ci®, StoPanel™ XPS and StoPanel™ Classic NEXT ci® systems are in accordance with the 2018 *International Building Code*® (2018 IBC) or 2018 *International Residential Code*® (2018 IRC) provisions, as applicable, noted in the ICC-ES evaluation report [ESR-1748](#).
- The design, installation and inspection are in accordance with additional requirements of LABC Chapters 16 and 17, as applicable.
- The systems described in this evaluation report supplement have not been evaluated under LABC Chapter 7A or LARC Section R337 for use in the exterior design and construction of new buildings located in any Fire Hazard Severity Zone within State Responsibility Areas or any Wildland—Urban Interface Area.

This supplement expires concurrently with the evaluation report, reissued October 2019 and revised August 2020.

ICC-ES Evaluation Report

ESR-1748 CBC and CRC Supplement

Issued October 2019

Revised August 2020

This report is subject to renewal October 2020.

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

A Subsidiary of the International Code Council®

DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION

Section: 07 24 00—Exterior Insulation and Finish Systems

Section: 07 24 19—Water-Drainage Exterior Insulation and Finish System

REPORT HOLDER:

STO CORP.

EVALUATION SUBJECT:

STOTHERM® ci®, STOPANEL™ CLASSIC ci®, STOPANEL™ IMPACT ci®, STOPANEL™ XPS AND STOPANEL™ CLASSIC NEXT ci®

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that StoTherm® ci®, StoPanel™ Classic ci®, StoPanel™ Impact ci®, StoPanel™ XPS and StoPanel™ Classic NEXT ci® systems, recognized in ICC-ES evaluation report ESR-1748, have also been evaluated for compliance with the codes noted below.

Applicable code edition(s):

- 2019 California Building Code® (CBC)

For evaluation of applicable chapters adopted by the California Office of Statewide Health Planning and Development (OSHPD) and Division of State Architect (DSA), see Sections 2.1.1 and 2.1.2 below.

- 2019 California Residential Code® (CRC)

2.0 CONCLUSIONS

2.1 CBC:

The StoTherm® ci®, StoPanel™ Classic ci®, StoPanel™ Impact ci®, StoPanel™ XPS and StoPanel™ Classic NEXT ci® systems described in Sections 2.0 through 7.0 of the ICC-ES evaluation report ESR-1748, complies with 2019 CBC Chapter 14, provided the design and installation are in accordance with the 2018 *International Building Code*® (IBC) provisions respectively, noted in the main report and the additional requirements of CBC Chapters 14 and 17.

The StoTherm® ci®, StoPanel™ Classic ci®, StoPanel™ Impact ci®, StoPanel™ XPS and StoPanel™ Classic NEXT ci® systems have not been evaluated under Chapter 7A for use in the exterior design and construction of new buildings located in any Fire Hazard Severity Zone within State Responsibility Areas or any Wildland–Urban Interface Fire Area.

2.1.1 OSHPD:

The applicable OSHPD Sections of the CBC are beyond the scope of this supplement.

2.1.2 DSA:

The applicable DSA Sections of the CBC are beyond the scope of this supplement.

2.2 CRC:

The StoTherm® ci®, StoPanel™ Classic ci®, StoPanel™ Impact ci®, StoPanel™ XPS and StoPanel™ Classic NEXT ci® systems, described in Sections 2.0 through 7.0 of the ICC-ES evaluation report ESR-1748, complies with the 2019 CRC Chapter 7, provided the design and installation are in accordance with the 2018 *International Residential Code*® (IRC) provisions respectively, noted in the main report and the applicable provisions of the CRC.

The StoTherm® ci®, StoPanel™ Classic ci®, StoPanel™ Impact ci®, StoPanel™ XPS and StoPanel™ Classic NEXT ci® systems have not been evaluated under CRC Section R337 for use in the exterior design and construction of new buildings located in a Fire Hazard Severity Zone within State Responsibility Areas or any Wildland–Urban Interface Fire Area.

The products recognized in this supplement have not been evaluated for compliance with the *International Wildland–Urban Interface Code*®.

This supplement expires concurrently with the evaluation report, reissued October 2019 and revised August 2020.

ICC-ES Evaluation Report

ESR-1748 FBC Supplement

Reissued October 2019

Revised August 2020

This report is subject to renewal October 2020.

www.icc-es.org | (800) 423-6587 | (562) 699-0543 A Subsidiary of the International Code Council®

DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION

Section: 07 24 00—Exterior Insulation and Finish Systems

Section: 07 24 19—Water-Drainage Exterior Insulation and Finish System

REPORT HOLDER:

STO CORP.

EVALUATION SUBJECT:

STOTHERM® ci®, STOPANEL™ CLASSIC ci®, STOPANEL™ IMPACT ci®, STOPANEL™ XPS AND STOPANEL™ CLASSIC NEXT ci®

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that StoTherm® ci®, StoPanel™ Classic ci®, StoPanel™ Impact ci®, StoPanel™ XPS and StoPanel™ Classic NEXT ci® systems, recognized in ICC-ES ICC-ES evaluation report ESR-1748, have also been evaluated for compliance with the codes noted below.

Applicable code editions:

- 2020 Florida Building Code—Building
- 2020 Florida Building Code—Residential

2.0 CONCLUSIONS

The StoTherm® ci®, StoPanel™ Classic ci®, StoPanel™ Impact ci®, StoPanel™ XPS and StoPanel™ Classic NEXT ci® systems, described in Sections 2.0 through 7.0 of the ICC-ES evaluation report ESR-1748, comply with the *Florida Building Code—Building* and *Florida Building Code—Residential*, provided the design and installation are in accordance with the 2018 *International Building Code*® provisions noted in the ICC-ES report under the following condition:

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*, as applicable.

Use of the StoTherm® ci®, StoPanel™ Classic ci®, StoPanel™ Impact ci®, StoPanel™ XPS and StoPanel™ Classic NEXT ci® systems for compliance with the High-Velocity Hurricane Zone provisions of the *Florida Building Code—Building* and the *Florida Building Code—Residential* has not been evaluated and is outside the scope of this evaluation report.

For products falling under Florida Rule 9N-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, reissued October 2019 and revised August 2020.