



ICC-ES Evaluation Report

ESR-4842

Reissued August 2022

This report is subject to renewal July 2023

DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION

Section: 07 21 00—Thermal Insulation

Section: 07 22 00—Roof and Deck Insulation

REPORT HOLDER:

THE ENSOLTIS CORPORATION

EVALUATION SUBJECT:

ENSOLCOMP THERMAL PANEL INSULATION BOARDS

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2021, 2018 and 2015 *International Building Code*® (IBC)
- 2021, 2018 and 2015 *International Residential Code*® (IRC)

For evaluation for compliance with codes adopted by Los Angeles Department of Building and Safety (LADBS), see [ESR-4842 LABC and LARC Supplement](#).

Properties evaluated:

- Physical properties
- Surface-burning characteristics

2.0 USES

Ensolcomp thermal panels are used as nonstructural thermal insulation in roof covering assemblies.

3.0 DESCRIPTION

Ensolcomp thermal panels are used as above roof deck insulation made from Type IX EPS foam board complying with ASTM C578. The top face of the EPS foam board is covered with a fiberglass scrim and a cementitious slurry coat. The Ensolcomp thermal panel measures 19 inches (483 mm) wide by 48 inches (1219 mm) long and 2 inches (51 mm) thick. The foam plastic core is manufactured from EPS board with a flame spread index of 25 or less, when tested in accordance with ASTM E84 (UL 723).

4.0 DESIGN AND INSTALLATION

Installation of Ensolcomp thermal panel must comply with this report and the manufacturer's published installation instructions. The manufacturer's published installation instructions must be available at the jobsite at all times during installation.

The interior of the building must be separated from the Ensolcomp thermal panel with an approved thermal barrier as required by IBC Section 2603.4 or IRC Section R316.4, except as permitted in IBC Section 2603.4.1.5.

Thermal panels must not be used as a nailing base for roof covering. All nailing must be made through the insulation into the roof deck or framing as required by the applicable code. Fasteners must be corrosion-resistant roofing nails of sufficient length to penetrate through the roofing materials and not less than ³/₄-inch (19.1 mm) into the roof sheathing.

The Ensolcomp thermal panels may be used as a roof insulation when recognized in an ICC-ES evaluation report on the roof covering system.

5.0 CONDITIONS OF USE

The Ensolcomp thermal panels described in this report complies 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 published installation instructions and this report, this report must govern.
- 5.2 The Ensolcomp thermal panels are limited to installation with nonclassified roof systems, unless specifically recognized in a listing subject to approval by the code official.
- 5.3 Ensolcomp thermal panels are produced under a quality control program with inspections by ICC-ES.

6.0 EVIDENCE SUBMITTED

Data in accordance with the ICC-ES Acceptance Criteria for Foam Plastic Insulation (AC12), dated June 2015 (editorially revised December 2020).

7.0 IDENTIFICATION

- 7.1 The Ensolcomp thermal panel packaging must bear a label with The Ensoltis Corporation; the manufacturing facility location; the date of manufacture; and the evaluation report number (ESR-4842).
- 7.2 The report holder's contact information is the following:

THE ENSOLTIS CORPORATION
15205 ROAD 28½
MADERA, CALIFORNIA 93638
(559) 281-8646

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Section: 07 22 00—Roof and Deck Insulation

REPORT HOLDER:

THE ENSOLTIS CORPORATION

EVALUATION SUBJECT:

ENSOLCOMP THERMAL PANEL INSULATION BOARDS

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that Ensolcomp thermal panel, described in ICC-ES evaluation report [ESR-4842](#), has 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:

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

2.0 CONCLUSIONS

The Ensolcomp thermal panel, described in Sections 2.0 through 7.0 of the evaluation report [ESR-4842](#), complies with the LABC Chapter 26, and the LARC Section R316, and is subject to the conditions of use described in this supplement.

3.0 CONDITIONS OF USE

The Ensolcomp thermal panel described in this evaluation report supplement must comply with all of the following conditions:

- All applicable sections in the evaluation report [ESR-4842](#).
- The design, installation, conditions of use and identification of the Ensolcomp thermal panel are in accordance with the 2018 *International Building Code*® (IBC) provisions noted in the evaluation report [ESR-4842](#).

This supplement expires concurrently with the evaluation report, reissued August 2022.

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THE ENSOLTIS CORPORATION

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ENSOLCOMP THERMAL PANEL INSULATION BOARDS

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that Ensolcomp Thermal Panel, described in ICC-ES evaluation report ESR-4842, has also been evaluated for compliance with the codes noted below.

Applicable code editions:

- 2019 *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.

- 2019 *California Residential Code* (CRC)

2.0 CONCLUSIONS

2.1 CBC:

The Ensolcomp Thermal Panel, described in Sections 2.0 through 7.0 of the evaluation report ESR-4842, complies with CBC Chapters 26, provided the design and installation are in accordance with the 2018 *International Building Code*® (IBC) provisions noted in the evaluation report and the additional requirements of CBC Chapter 26, as applicable.

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 Ensolcomp Thermal Panel, described in Sections 2.0 through 7.0 of the evaluation report ESR-4842, complies with CRC Chapters 3, provided the design and installation are in accordance with the 2018 *International Residential Code*® (IRC) provisions noted in the evaluation report and the additional requirements of CRC Chapter 3.

This supplement expires concurrently with the evaluation report, reissued August 2022.