



ICC-ES Evaluation Report

ESR-4082

Reissued September 2021

This report is subject to renewal September 2022.

DIVISION: 05 00 00—METALS
Section: 05 10 00—Structural Metal Framing
Section: 05 12 00—Structural Steel Framing

REPORT HOLDER:

SEA BOX INC.

EVALUATION SUBJECT:

SEA BOX STRUCTURAL BUILDING MATERIALS FROM SHIPPING CONTAINERS

1.0 EVALUATION SCOPE

Compliance with the following codes:

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

Property evaluated:

- Structural - Materials

2.0 USES

Sea Box structural building materials are used in custom designed, factory built, building modules transported to the jobsite to construct site specific buildings.

3.0 DESCRIPTION

Sea Box Building Modules (modules) are site specific, custom designed, factory built, modules. The modules are transported to the jobsite and assembled to form a completed building. Shipping containers are used as the source of structural and non-structural building materials for constructing the building modules. The steel structural building materials from the shipping containers and the quality control process for selecting shipping containers is the subject of this report. All other aspects of the modules are outside the scope of this report. The steel components of the shipping containers selected for use as structural building materials have been correlated to the appropriate ASTM International steel specification and are suitable for use with the design provisions specified in the American Institute of Steel Construction Specification for Structural Steel Buildings (AISC 360) or the American Iron and Steel Institute North American Specification for the Design of

Cold-Formed Steel Structural Members (AISI S100), as applicable. The various components used, detail drawings of the components, steel specification for the steel used to fabricate the components, cross-reference to the equivalent ASTM standard, yield strength, and tensile strength used for design are specified in Sea Box Internal Design Handbook, Revision 1.0, dated September 25, 2019.

4.0 DESIGN AND INSTALLATION

The structural building materials used in the building modules must be designed in accordance with the AISC 360 or AISI S100, as applicable. The design of the building module must be in compliance with the IBC and installation of the building modules must be in accordance with the approved plans. The approved plans must be available at the jobsite at all times.

5.0 CONDITIONS OF USE

The structural building materials described in this report comply with, or are 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 scope of the report is limited to the evaluation (verification) of the steel structural building materials used in construction of the building modules in the Sea Box Internal Design Handbook, Revision 1.0, dated September 25, 2019, for their suitability for use with AISC 360 and AISI S100. All other aspects of the building modules and the final structure, such as, but not limited to, structural design, plumbing and electrical are outside the scope of this report.
- 5.2** Complete construction documents and calculations must be submitted to the code official for each specific project. The calculations and construction documents must be prepared and sealed by a registered design professional where required by the statutes of the jurisdiction in which the project is to be constructed.
- 5.3** A copy of this report must be submitted in addition to all other required material when applying for a building permit.
- 5.4** The structural building materials are procured for use in the Sea Box facilities in Cinnaminson, New Jersey, under quality control programs with inspections by ICC-ES.

6.0 EVIDENCE SUBMITTED

Data in accordance with the ICC-ES Acceptance Criteria for Structural Building Materials from Shipping Containers (AC462), dated October 2018.

7.0 IDENTIFICATION

7.1 Each Sea Box Building Module manufactured from shipping container materials shall be labeled with the Sea Box, Inc. name and address, the manufacturing location, and the evaluation report number (ESR-4082).

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

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1.0 REPORT PURPOSE AND SCOPE**Purpose:**

The purpose of this evaluation report supplement is to indicate that Sea Box structural building materials, described in ICC-ES evaluation report ESR-4082, 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 Sea Box structural building materials, described in Sections 2.0 through 7.0 of the evaluation report ESR-4082, comply with CBC Chapter 22, 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 Chapters 16, 17 and 22, as applicable.

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 Sea Box structural building materials, described in Sections 2.0 through 7.0 of the evaluation report ESR-4082, comply 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, as applicable.

This supplement expires concurrently with the evaluation report, reissued September 2021.