

DIVISION: 05 00 00—METALS

Section: 05 10 00—Structural Metal Framing

Section: 05 12 00—Structural Steel Framing

REPORT HOLDER:

INTERPORT MAINTENANCE CO., INC.

EVALUATION SUBJECT:

INTERPORT STRUCTURAL BUILDING MATERIALS

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2021* and 2018 *International Building Code*®
- 2021* and 2018 *International Residential Code*®

*For evaluation for compliance with the anticipated requirements of the 2021 IBC and IRC

Properties evaluated:

- Structural - Materials

2.0 USES

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

3.0 DESCRIPTION

Interport Shipping Container Structures 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 modules. The steel structural building materials from the shipping containers and the quality control process for selecting shipping containers are 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 the following Interport Technical Specifications.

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 Interport structural building materials 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** The scope of this report is limited to the evaluation (verification) of the steel structural building materials used in construction of the building modules in the EMS facility 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** Where approved by the code official, the marks and existing data plates on the intermodal shipping containers are permitted to be removed before they are repurposed for use as buildings or structures or part of buildings or structures in accordance with Section 3115.3 of the 2021 IBC.
- 5.3** The design of buildings or structures with repurposed intermodal shipping containers conforming to ISO 1496-1 shall be in accordance with Section 3115.8 of the 2021 IBC.
- 5.4** 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.
- 5.5** A copy of this report must be submitted in addition to all other required material when applying for a building permit.

- 5.6 The structural building materials are procured for use in the Interport Maintenance Co., Inc. facility in Newark, 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 (editorially revised September 2020).

7.0 IDENTIFICATION

- 7.1 Each Interport Shipping Container Structure manufactured from shipping container materials shall be labeled with the Interport Maintenance Co., Inc. name and address, and the evaluation report number (ESR-4717).

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

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