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ICC-ES Evaluation Report

ESR-4163

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Issued 05/2018
This report is subject to renewal 05/2019.

DIVISION: 05 00 00—METALS

SECTION: 05 10 00—STRUCTURAL METAL FRAMING

SECTION: 05 12 00—STRUCTURAL STEEL FRAMING

REPORT HOLDER:

FALCON STRUCTURES

**7717 GILBERT ROAD
MANOR, TEXAS 78653**

EVALUATION SUBJECT:

FALCON STRUCTURES STRUCTURAL BUILDING MATERIALS



“2014 Recipient of Prestigious Western States Seismic Policy Council (WSSPC) Award in Excellence”



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A Subsidiary of the International Code Council®

DIVISION: 05 00 00—METALS

Section: 05 10 00—Structural Metal Framing

Section: 05 12 00—Structural Steel Framing

REPORT HOLDER:

FALCON STRUCTURES

7717 GILBERT ROAD

MANOR, TEXAS 78653

(512) 231-1010

www.falconstructures.com

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EVALUATION SUBJECT:

FALCON STRUCTURES STRUCTURAL BUILDING MATERIALS

1.0 EVALUATION SCOPE

Compliance with the following codes:

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

Property evaluated:

- Structural - Materials

2.0 USES

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

3.0 DESCRIPTION

Falcon Structures 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 Falcon Structures Internal Design Handbook, Version 20180425, dated April 25, 2018.

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 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 the report is limited to the evaluation (verification) of the steel structural building materials used in construction of the building modules in the Falcon Structures facility in Manor, Texas, 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 Falcon Structures facility in Manor, Texas, 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 February 2016.

the Falcon Structures name and address, the manufacturing location, and the evaluation report number (ESR-4163).

7.0 IDENTIFICATION

Each Falcon Structures Building Module manufactured from shipping container materials shall be labeled with