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ICC-ES Report

ESR-3764

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Issued 04/2017
This report is subject to renewal 04/2018.

DIVISION: 05 00 00—METALS

SECTION: 05 10 00—STRUCTURAL METAL FRAMING

DIVISION: 05 12 00—STRUCTURAL STEEL FRAMING

REPORT HOLDER:

SG BLOCKS, INC.

**912 BLUFF ROAD
NASHVILLE, TENNESSEE 37027**

EVALUATION SUBJECT:

SG BLOCKS STRUCTURAL BUILDING MATERIALS



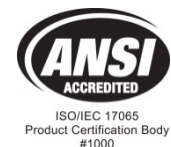
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ICC-ES Evaluation Report

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Issued April 2017

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SG BLOCKS, INC.
912 BLUFF ROAD
NASHVILLE, TENNESSEE 37027
(615) 566-5092
www.sgblocks.com
info@sgblocks.com

EVALUATION SUBJECT:

SG BLOCKS 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

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

3.0 DESCRIPTION

SG Blocks 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 SG Blocks Internal Design Handbook, Version 1, dated January 23, 2017.

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 SG Block facilities noted in Table 1 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 SG Block facilities noted in Table 1, 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.

7.0 IDENTIFICATION

Each SG Blocks Building Module manufactured from shipping container materials shall be labeled with the SG Blocks, Inc. name and address, the manufacturing location, and the evaluation report number (ICC-ES ESR-3764).

TABLE 1—MANUFACTURING LOCATIONS

SG Blocks, Inc. Galena Park, TX 77547
SG Blocks, Inc. Houston, TX 77054
SG Blocks, Inc. New Holland, PA 17557

ICC-ES Evaluation Report

ESR-3764 CBC and CRC Supplement

Issued April 2017

This report is subject to renewal April 2018.

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EVALUATION SUBJECT:

SG BLOCKS STRUCTURAL BUILDING MATERIALS

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that SG Blocks structural building materials, recognized in ICC-ES master evaluation report ESR-3764, have also been evaluated for compliance with the codes noted below.

Applicable code editions:

- 2016 *California Building Code* (CBC)
- 2016 *California Residential Code* (CRC)

2.0 CONCLUSIONS

2.1 CBC:

The SG Blocks structural building materials, described in Sections 2.0 through 7.0 of the master evaluation report ESR-3764, comply with CBC Chapters 22 and 22A, provided the design and installation are in accordance with the 2015 *International Building Code*® (IBC) provisions noted in the master report and the additional requirements of 16, 16A, 17, 17A, 22 and 22A, as applicable.

2.2 CRC:

The SG Blocks structural building materials, described in Sections 2.0 through 7.0 of the master evaluation report ESR-3764, comply with the CRC, provided the design and installation are in accordance with the 2015 *International Residential Code*® (IRC) provisions noted in the master report.

This supplement expires concurrently with the master report, issued April 2017.

ICC-ES Evaluation Report

ESR-3764 FBC Supplement

Issued April 2017

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1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that SG Blocks structural building materials, recognized in ICC-ES master evaluation report ESR-3764, have also been evaluated for compliance with the codes noted below.

Applicable code editions:

- 2014 *Florida Building Code—Building*
- 2014 *Florida Building Code—Residential*

2.0 CONCLUSIONS

The SG Blocks structural building materials, described in Sections 2.0 through 7.0 of the master evaluation report ESR-3764, comply with the *Florida Building Code—Building* and the *Florida Building Code—Residential*, provided the design and installation are in accordance with the *International Building Code*® (IBC) provisions noted in the master report.

Use of the SG Blocks structural building materials 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 supplemental 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 master report, issued April 2017.