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RESEARCH REPORT: RR 25764
(CSI # 09120, 09130)

BASED UPON ICC EVALUATION SERVICE
REPORT NO. ESR- 1222

REEVALUATION DUE DATE:

March 1, 2012

Issued Date: March 1, 2010

Code: 2008 LABC

GENERAL APPROVAL – Reevaluation - USG Donn® Brand Suspension Ceiling Systems

DETAILS

The above assemblies and/or products are approved when in compliance with the description, use, identification and findings of Report No. ESR-1222 and dated October 1, 2008 of the ICC Evaluation Service, Incorporated. The report, in its entirety, is attached and made part of this general approval.

The parts of Report No.ESR-1222 marked by the asterisks are modified by the Los Angeles Building Department from this approval.

The approval is subject to the following conditions:

1. Main runners shall be identified by indentation or by nontransferable decal with letters not less than ¼ inch high, and shall include the following information:
 - a. Company name
 - b. Runner designation
 - c. Load rating

In addition where used in fire-rated systems, the cartons shall include a UL label with applicable design number.

RR 25764
Page 1 of 3

USG INTERIORS, Inc.

RE: USG Donn® Brand Suspension Ceiling Systems.

2. All fixtures shall be independently supported except as herein provided. Recessed lighting fixtures may be supported by main runners rated 4.0 psf. In such systems where any corner of the fixture is not directly or positively connected to the main runner, a No. 12 gage hanger wire support is required at the corner. In fire-rated systems, regardless of load rating of the main runners, all fixtures are normally required to be independently supported.
3. Vertical supports shall be No. 12 or heavier wires. The terminal end of each runner shall be supported independently of and within eight inches of a wall.
4. Lateral restraints against earthquake forces for the systems shall be provided by use of four No. 12 or heavier wires at each bracing point, splayed in four directions 90 degrees apart, and connected to the main runner within four inches of a cross runner and to the structure above at an angle not exceeding 45 degrees from the plane of the ceiling. The lateral support bracing points shall be spaced no farther than 12 feet on center in each direction, with the first point within six feet of each wall. A strut fastened to the main runner shall be extended to and fastened to the structural members supporting the roof or floor above. The strut shall be adequate to resist the vertical component induced by the bracing wires.
5. The installation of the perimeter members shall comply with Section 1613.7.1.3.4 of the 2008 Los Angeles Building Code.
6. USG Donn® Brand Suspension Ceiling Systems shall comply with the provisions of ASCE7-05 Section 13.5.6
7. For ceilings installed in a building located in a Seismic Design Categories D, E, and F a Heavy Duty main T bar grid system shall be provided per ASCE7-05 Section 13.5.6.2.2(a).
8. For ceilings areas exceeding 1000 s.f. installed in a building located in a Seismic Design Categories D, E, and F a horizontal restraint of the ceiling to the structural system shall be provided per ASCE7-05 Section 13.5.6.2.2(c) and item 4 above.
9. For ceilings areas exceeding 2,500 s.f. installed in a building located in a Seismic Design Categories D, E, and F a seismic separation joint or a full height partition that breaks the ceiling up into areas not exceeding 2,500 sq. ft. shall be provided per ASCE7-05 Section 13.5.6.2.2(d).
10. Special inspection shall be provided per ASCE7-05 Section 11A.1.3.9.
11. ACM7 Clip is an alternate method of the installation of the perimeter members described on Section 1613.7.1.3.4 of the 2008 Los Angeles City Building Code. The alternate design is described in section 4.3 of Report No. ESR-1222.

USG INTERIORS, Inc.

RE: USG Donn® Brand Suspension Ceiling Systems.

12. For membranes screw attached to the suspended ceilings, shall be installed in accordance with section 4.2 of Report No. ESR-1222. Suspended ceilings constructed of lath and plaster or gypsum boards, screw or nail attached to suspended members that support a ceiling on one level extending from wall to wall are exempt from lateral load design requirements.

DISCUSSION

The report is in compliance with 2008 Los Angeles Building Code.

The approval is based on tests and analyses in accordance with ICC ES Acceptance Criteria for Suspended Ceiling Framing Systems (AC 368), dated February 2007, ICC ES Acceptance Criteria for Seismic Qualification by Shake-table Testing of Nonstructural Components and Systems (AC 156), dated December 2006 and ASTM E 119.

Addressee to whom this Research Report is issued is responsible for providing copies of it, complete with any attachments indicated, to architects, engineers and builders using items approved herein in design or construction which must be approved by Department of Building and Safety Engineers and Inspectors.

This general approval will remain effective provided the Evaluation Report is maintained valid and unrevised with the issuing organization. Any revisions to the report must be submitted to this Department, with appropriate fee, for review in order to continue the approval of the revised report.

This general approval of an equivalent alternate to the Code is only valid where an engineer and/or inspector of this Department has determined that all conditions of this approval have been met in the project in which it is to be used.

The status of the referenced Report No.ESR-1222, dated October 1, 2008, which is currently beyond its reexamination date are still valid. The validity of the Report was verified with ICC.

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Attachments: ICC ES Report No. ESR-1222 (12 Pages)