

# ICC-ES Evaluation Report

**ESR-2451\***

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**DIVISION: 09 00 00—FINISHES****Section: 09 54 00—Specialty Ceilings****REPORT HOLDER:****EMPIRE WEST, INC.  
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[ed@empirewest.com](mailto:ed@empirewest.com)**EVALUATION SUBJECT:****CEILUME CEILING TILES****1.0 EVALUATION SCOPE****Compliance with the following codes:**2012, 2009 and 2006 *International Building Code*® (IBC)**Properties evaluated:**

- Interior finish classification
- Thermal stability
- Physical properties

**2.0 USES**

*Ceilume* Ceiling Tiles are Class A interior finish lay-in panels for use in approved suspended ceiling framing systems in nonfire-resistance-rated floor-ceiling or roof-ceiling assemblies.

**3.0 DESCRIPTION****3.1 General:**

*Ceilume* Ceiling Tiles are thermoformed PVC panels. The panels are nominally 24 inches by 24 inches [actually 23.75 inches long by 23.75 inches wide (603.3 mm by 603.3 mm)] and nominally 24 inches by 48 inches [actually 23.75 inches long by 47.75 inches wide (603.3 mm by 1212.9 mm)], and are available in two thicknesses and multiple colors.

**3.1.1 Premier Featherlight:** Nominal thickness of 0.013 inch (0.33 mm) and weight of 167 grams (5.89 ounces) for a nominally 24-inch-by-24-inch panel, and a weight of 334 grams (11.78 ounces) for a nominally 24-inch-by-48-inch panel.

**3.1.2 Premier Signature:** Nominal thickness of 0.03 inch (0.76 mm) and weight of 381 grams (13.43 ounces) for a

nominally 24-inch-by-24-inch panel, and a weight of 762 grams (26.86 ounces) for a nominally 24-inch-by-48-inch panel.

**3.1.3 Better Than Tin; Feather-Light:** Nominal thickness of 0.013 inch (0.33 mm) and weight of 167 grams (5.89 ounces) for a nominally 24-inch-by-24-inch panel, and a weight of 334 grams (11.78 ounces) for a nominally 24-inch-by-48-inch panel.

**3.1.4 Better Than Tin; Signature:** Nominal thickness of 0.03 inch (0.76 mm) and weight of 381 grams (13.43 ounces) for a nominally 24-inch-by-24-inch panel, and a weight of 762 grams (26.86 ounces) for a nominally 24-inch-by-48-inch panel.

**3.2 Interior Finish Classification:**

*Ceilume* Ceiling Tiles, at a minimum nominal thickness of 0.01 inch (0.25 mm) and a maximum nominal thickness of 0.03 inch (0.76 mm), have a Class A interior finish classification, a flame-spread index not exceeding 25 and a smoke-developed index not exceeding 450, when tested in accordance with ASTM E84.

**4.0 INSTALLATION**

*Ceilume* Ceiling Tiles must be installed horizontally in suspended ceiling systems in accordance with the ceiling tile manufacturer's installation instructions. The suspended ceiling framing system must be installed in accordance with Sections 808.1.1 and 2506.2.1 of the 2012 IBC and 2009 IBC, and Sections 803.9.1.1 and 2506.2.1 of the 2006 IBC. The panels have a nominally <sup>3</sup>/<sub>8</sub>-inch (9.5 mm) edge support when installed using standard 1-inch (25.4 mm) T-bar grid framing. The panels must be installed in the framing members of suspended ceiling systems without the use of restraining clips. The space above the panels must not be used as an air circulation plenum. When sprinklers are required by the code, the heads must be located a maximum of 3 inches (76.2 mm) below the surface of the ceiling grid.

The instructions within this report govern if there are any conflicts between the manufacturer's published installation instructions and this report.

**5.0 CONDITIONS OF USE**

The *Ceilume* Ceiling Tiles 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 ceiling tiles are manufactured, identified and installed in accordance with this report.

**\*Revised March 2012**

- 5.2 The ceiling tiles are limited to use as a nonstructural component in nonfire-resistance-rated floor-ceiling or roof-ceiling assemblies.
- 5.3 The translucent ceiling tiles must not be used as light diffusers.

#### 6.0 EVIDENCE SUBMITTED

- 6.1 Manufacturer's installation instructions.
- 6.2 Test reports on surface-burning characteristics in accordance with ASTM E84.
- 6.3 Test reports on self-ignition and flash-ignition temperatures in accordance with ASTM D1929.

- 6.4 Test reports on stability of interior finish material, in accordance with Section 803.10 of the 2012 IBC and 2009 IBC and Section 803.3 of the 2006 IBC.

- 6.5 Quality documentation.

#### 7.0 IDENTIFICATION

Each carton of panels has a label bearing the manufacturer's name (Empire West, Inc.) and address, the product name (*Ceilume* Ceiling Tiles), and the evaluation report number (ESR-2451).