

REPORT NUMBER CMI-ER31001

REPORT HOLDER

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PRODUCT

Ceilume Ceiling Tiles.

PRODUCT DESCRIPTION

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 and finishes.

ASSESSED COMPLIANCE

Ceilume Ceiling Tiles demonstrate Compliance with the following codes:

- 2018, 2015, 2012, *International Building Code*® (IBC).
- 2012 IBC, section 803.10, 2009 IBC section 803.10, and 2006 IBC section 803.3 pertaining to stability.

Properties Evaluated:

- Interior finish classification
- Thermal stability
- Physical properties

BASIS OF THIS EVALUATION

This Evaluation Report has considered the following aspects in issuing this recognition:

- Installation procedures;
- Physical Properties;
- Relevant IBC requirements; and
- The ability of the installation details to meet the requirements of the 2018, 2015, 2012, *International Building Code*® (IBC), and applicable international standards.

REPORT VALIDITY

This Evaluation Report is valid for 3 years from the date of issue and subject to Annual Surveillance.

CertMark International Pty Ltd (CMI) has provided this Evaluation Report to the company named above for the product described herein. The product has been assessed by CMI as being fit for purpose providing, it is installed, used and maintained as set out in this Evaluation Report.

For and on behalf of CMI



John Thorpe
Chief executive

02/24/2019

Date of Issue

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Report Number

This document has been produced by the Administration Department of CertMark International (CMI).
For technical information on the matters discussed in the document, contact us on 1800 CertMark (237 862), International Call +617 5445 2199 or e-mail office@CertMark.org.

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1. INTRODUCTION

CMI has been asked to evaluate the *Ceilume* Ceiling Tiles for its compliance with the provisions of the International Construction Code (ICC) as detailed herein.

2. PRODUCT PURPOSE, USE AND APPLICATION

Ceilume Ceiling Tiles are a Code Compliant Class A interior finish lay-in panel, suitable for use as drop out ceiling panels beneath sprinklers in suspended ceiling framing systems in non-fire resistance rated floor-ceiling or roof-ceiling assemblies.

3. EVALUATION METHODS

Ceilume Ceiling Tiles has been evaluated in accordance with the requirements of ISO 17065:2012 clause 7.4, CMI has followed procedures for Evaluating the *Ceilume* Ceiling Tiles that are based on evidence established by:

- Testing of *Ceilume* Ceiling Tiles product;
- Evaluation of reports as detailed herein;
- Expert opinions to ascertain whether or not the product meets the Deemed to Satisfy Solution specified in this Evaluation report;
- Evidence of Suitability; and
- Expert Judgement.

4. PRODUCT SPECIFICATIONS

4.1. MODELS

4.1.1. Premiere 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.

4.1.2. Premiere 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.

4.1.3. Better Than Tin/Faux Wood; Feather-Light:

Nominal thickness of 0.013 inch (0.33mm) 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.

4.1.4. Better Than Tin/Faux Wood; 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.

4.1.5. 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.

5. TECHNICAL SPECIFICATION

5.1. FIRE

The *Ceilume* Ceiling Tiles have been tested in accordance with ASTM E84 *Standard Test Method for Surface Burning Characteristics of Building Materials and Assemblies*. The following results have been noted:

5.1.1. Feather-Light Collection and Signature Collection Ceiling Tiles – Class A Rating:

Flame Spread Rating – Not to exceed 25 Smoke Developed Classification – Not to exceed 450.

5.1.2. Ceiling Tiles Beneath Sprinklers:

- *Ceilume* Ceiling Tiles are recognized for use as drop out ceiling panels beneath sprinklers in concealed sprinkler installations, subject to the authorities having jurisdiction.
- No restraining devices of any kind can be used to limit the ceiling tile's ability to drop from the suspension system in the event of fire. Uplift clips are permitted but not required.
- The 0.013-inch-thick and 0.030 inch-thick tiles as described in this report are limited to use with quick-response (release) or standard-response sprinklers rated at 135°F (57.2°C) or above when used with sprinkler systems.
- Quick-response (release) sprinklers rated at 135°F (57.2°C) or above shall be installed no less than 1 inch (25.4 mm) and no more than 5 feet (1524 mm) above the drop out ceiling tiles and panels, when installed above the tiles and panels.
- Standard-response sprinklers rated at 135°F (57.2°C) or above shall be installed no less than 1 inch (25.4 mm), and no more than 5 feet (1524 mm) above the drop-out ceiling tiles.
- Painting of the ceiling tiles voids these approvals.
- Drop-out ceilings shall not be installed below extended coverage sprinklers unless specifically listed for that application.

- Piping installed above drop-out ceilings shall not be considered concealed piping.
- The ceiling tiles and panels shall be installed in accordance with FM listing: OXOA7 FM (4651).
- Accessories for use with the ceiling tiles and panels are limited to the following installations:
 - under wet or dry sprinkler systems;
 - with or without uplift prevention clips;
 - with or without AcoustoTherm® or Soniguard™ Insulation and/or EZ-ON Grid Covers.
- Drop-out tiles and panels may be used in conjunction with dry-pipe sprinkler systems.

6. INDICATIVE INSTALLATIONS

- 6.1.** *Ceilume* Ceiling Tiles must be installed horizontally in suspended ceiling systems and are manufactured and identified in accordance with the ceiling tile manufacturer's installation instructions and this report.
- 6.2.** 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.
- 6.3.** The panels have a minimum 1/4-inch (6.3.5 mm) edge support when installed using either standard 1-inch (25.4 mm), or slim-line 9/16" (14.3 mm) T-bar grid framing. The panels must be installed in the framing members of suspended ceiling systems without the use of any restraining device that would impede or effect their downward movement. Uplift prevention clips are permitted but not required.
- 6.4.** The space above the panels must not be used as an air circulation plenum.
- 6.5.** The instructions within this report govern if there are any conflicts between the manufacturer's published installation instructions and this report.
- 6.6.** The translucent ceiling tiles must not be used as light diffusers within light fixtures.
- 6.7.** The ceiling tiles are limited to use as a non-structural component in non-fire resistance rated floor-ceiling or roof-ceiling assemblies.
- 6.8. Installation with No Ceiling Sprinklers Present:**
Panels, in both nominal thicknesses of 0.013 inch (0.33 mm) and 0.03 inch (0.76 mm), may be installed throughout the ceiling.
- 6.9. Installation with No Ceiling Sprinklers Present –Refacing Mineral Fiber Tiles:**
Panels in nominal thickness of 0.03 inch (0.76 mm) may be installed beneath mineral fiber tiles throughout the ceiling.
- 6.10. Installation with Ceiling Sprinklers Penetrating Tiles –Oversized Hole:**
Tiles and Panels, in both nominal thicknesses of 0.013 inch (0.33 mm) and 0.03 inch (0.76 mm), may be installed by themselves. Sprinklers shall be located a maximum of 3 inches (76 mm) below the ceiling grid. Standard trim rings/escutcheons may be used at sprinkler penetrations. When trim rings/escutcheons are used corresponding openings in panel tiles shall be a minimum of ¼ inch (6.3 mm) larger than the outer diameter of the trim ring/escutcheon to enable tiles to fall from the ceiling grid without becoming entangled with the sprinkler or interfering with its operation. When escutcheons are not used the opening in panel tiles shall be a minimum of ¼ inch (6.3 mm) greater than the sprinkler head.
- 6.11. Installation with Ceiling Sprinklers Penetrating Tiles –Refacing Mineral Fiber -Penetrations Only:**
At sprinkler penetrations, panels in nominal thickness of 0.03 inch (0.76 mm) shall be installed beneath mineral fiber tiles. Sprinklers shall be located a maximum of 3 inches (76 mm) below the ceiling grid. Standard trim rings/escutcheons may be used at penetrations. When trim ring/escutcheons are used corresponding opening in panel tiles shall be ¼ inch (6.3 mm) smaller than the outer diameter of the trim ring/escutcheon. When trim rings/escutcheons are not used, the opening in panel tiles shall be a minimum of ¼ inch (6.3 mm) larger in diameter than the sprinkler head.
- 6.12. Installation with Ceiling Sprinklers Penetrating Tiles –Refacing Mineral Fiber –Full Ceiling:**
Ceilume Ceiling Tiles and Panels in 0.03-inch (0.76 mm) thickness may be installed beneath mineral fiber tiles throughout the ceiling and shall be installed beneath mineral fiber at sprinkler penetrations. Standard trim rings/escutcheons shall be used at sprinkler penetrations.
- 6.13. Installation with Ceiling Sprinklers Above *Ceilume* Ceiling Tiles and Panels–Concealed Sprinklers –Full Ceiling:**
Panels, both 0.013 (0.33 mm) and 0.03 (0.76 mm) thickness, may be installed by themselves throughout the ceiling below sprinkler heads.

7. SOURCES OF INFORMATION

- 7.1.** ASTM E84 - 13 Standard Test Method for Surface Burning Characteristics of Building Materials.
- 7.2.** CAN/ULC-S102-10: standard method of test for surface burning characteristics of building materials and assemblies.
- 7.3.** Test reports on self-ignition and flash-ignition temperatures in accordance with ASTM D1929.
- 7.4.** SWRI Testing in accordance with Factory Mutual FM 4651 dated July 27th, 2018.
- 7.5.** Submitted Manufacturer's Installation Instructions.
- 7.6.** Test reports on stability of interior finish material in accordance with section 803.10 of the 2012 & 2018 IBC and section 803.3 of the 2006 IBC.

8. CONCLUSION

The *Ceilume* Ceiling Tiles as described herein are fit for purpose and will comply with 2018, 2015, 2012, International Building Code® (IBC) & 2012 IBC, section 803.10, 2009 IBC section 803.10, and 2006 IBC section 803.3 pertaining to stability to the extent specified in this Evaluation Report provided it is used, designed, installed and maintained as set out in this Evaluation Report.

The Evaluation Report is issued only to Empire West, Inc. and is valid until expiry, subject to the Conditions of Evaluation Report.

9. CONDITIONS OF EVALUATION REPORT

This Evaluation Report:

- has been conducted based on technical data and reports supplied to CMI for the purpose of this evaluation Report.
- is issued only to Empire West, Inc. and is valid until expiry, subject to the Conditions of this Evaluation Report; and
- is based on research, experience and documentation reviewed; and
- relates only to the product as described herein; and
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