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FM APPROVAL 4880:2010 Class 1 Fire Rating of Insulated Wall or Wall and Roof/Ceiling Panels, Interior Finish Materials or Coatings, and Exterior Wall Systems

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Abbreviation

FM APPROVAL 4880:2010

Version

2010 Edition

Valid from

01/05/2010

Information provider

IHS Markit

Author

FM Approvals (Factory Mutual Laboratories)

Information type

Other Standard

Format

PDF, Hard copy

Cited By

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Description

This standard states Approval requirements for insulated wall or wall and roof/ceiling panels, interior finish materials or coatings and exterior wall systems for use where a Class 1 fire rating is needed in wall or wall and roof/ceiling constructions.

Approval criteria may include, but are not limited to, performance requirements, marking requirements, examination of manufacturing facility(ies), audit of quality assurance procedures, and a follow-up program.

Scope

This standard sets the fire performance requirements for Class 1 fire rated insulated wall or wall and roof/ceiling panels, interior finish materials or coatings and exterior wall systems in wall or wall and roof/ceiling constructions installed to maximum heights of 30 or 50 ft (9.1 or 15.2 m) or without height restriction when exposed to an ignition source simulating a building fire. If building use, occupancy or furnishings are combustibles and can be expected to sustain a fire, installation of an automatic sprinkler system is recommended.

The performance of insulated wall or wall and roof/ceiling panels, interior finish materials or coatings and exterior wall systems depends in part on the fasteners, adhesives or other accessories used in their installation and the substrate over which they are installed. It is therefore necessary to evaluate all of the components of the construction and include them in the constructions

tested.

This standard evaluates insulated wall or wall and roof/ceiling panels, interior finish materials or coatings and exterior wall systems for their performance in regard to fire. Roof panels and other roofing materials covered by this standard shall also meet the combustibility from above the roof assembly and wind uplift, foot traffic, hail and water leakage resistance requirements of FM Approvals Standard 4470 — Class 1 Roof Covers or FM Approvals Standard 4471 — Class 1 Metal Panel Roofs. Exterior wall panels and exterior wall systems covered by this standard shall also meet the windload and impact resistance requirements of FM Approvals Standard 4881 - Class 1 Exterior Wall Systems. Interior wall and ceiling materials or systems covered by this standard used in smoke sensitive occupancies shall also meet the requirements of FM Approvals Standard 4882 — Class 1 Interior Wall and Ceiling Materials or Systems for Smoke Sensitive Occupancies. Insulated walls shall have the option to be evaluated using FM Approvals Standard 4411 — Insulated Wall Constructions.

This standard is intended to evaluate only those hazards investigated, and is not intended to determine suitability for the end use of a product.

The results of tests conducted under the controlled conditions required by this standard shall not be used to describe or appraise performance under actual fire conditions. Actual fire conditions vary widely.

This standard shall not qualify exterior insulated finish systems (EIFS) or other exterior wall coating systems.

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- [NZS 4541:2013](#)

FM APPROVAL 4880:2010 is cited by NZS 4541:2013 Automatic fire sprinkler systems

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[Wall Systems](#)

Description

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Back

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