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Kingspan Insulated Panels
726 Summerhill Drive
Deland, FL 32724

Attn: Oscar Lovera
(386) 626-6835

RESEARCH REPORT: RR 26018
(CSI # 02200)

REEVALUATION DUE

DATE: December 1, 2020
Issued Date: December 1, 2018
Code: 2017 LABC

GENERAL APPROVAL – Renewal and Clerical Modification – Kingspan MF™ Insulated Metal Panel (IMP) System.

DETAILS

Kingspan MF panels are used as interior or exterior non-load bearing wall in a vertical or horizontal application. The Kingspan MF mineral wool core panels are factory-assembled sandwich panels with metal facings and a mineral wool core. The Kingspan MF panels are available in thicknesses of 4, 6 and 8 inches and are 42” wide and up to 40’-0” long. Panels are joined using double tongue and groove interlocking joints.

The panel core consists of Roxul® MSB 85, non-combustible, Type IVB, semi-rigid mineral wool insulation in compliance with ASTM C612. The mineral wool insulation has a flame-spread index of 0 and a smoke-developed index of 0 when tested in accordance with ASTM E 84. The maximum use temperature is 1200° F. The mineral wool core has a nominal density of 8.5 lb/ft³.

The panel exterior facings are fabricated from No. 24 or 22 gage (0.023 or 0.029 inch, respectively, base-metal thickness) steel conforming to ASTM A 653 SS Grade 33 with a Class G90 galvanized coating or ASTM A 792 SS Grade 33 with a Class AZ-50 galvalume coating.

The panel interior facings are fabricated from No. 26 or 24 gage (0.0187 or 0.023 inch, respectively, base-metal thickness) steel conforming to ASTM A 653 SS Grade 33 with a Class G90 galvanized coating or ASTM A 792 SS Grade 33 with a Class AZ-50 galvalume coating.

The panel mineral wool core is joined to steel panel facings using Polyfoam – Demilec B530/A100-4, Huntsman – Suprasec 2026/Rimeline TR 487412 polyurethane adhesives. The adhesives are categorized as Type II Class 2 adhesives according to ICC-ES AC 05, Acceptance Criteria for Sandwich Panel Adhesives, dated June 2005.

RR 26018
Page 1 of 3

Panels are installed using (3) 1/4"-14 hex head screws, with 1-1/8" bonded washers per panel per support.

A non-skinning butyl sealant is used for panel joints and trim. Sealants must conform to AAMA Voluntary Specification and Test Methods for non-drying Sealants (AAMA 809.2-92). The sealant is applied to clean and dry surfaces at temperatures ranging from 40° to 120° F.

Kingspan MF Panels are Fire-Resistance-Rated as specified in table below:

Panel Thickness (in)	Fire Resistance Rating (hours)
4	1
6	2
8	3

The approval is subject to the following conditions:

1. Panels must be installed in accordance with this report and the manufacturer's published installation instructions, a copy of which must be available at the jobsite.
2. Panels installed on walls must be limited to non-load bearing wall applications.
3. Plans and details on wall and panel attachments to building structure must be approved by the Structural Plan Check Division of the City of Los Angeles, Department of Building and Safety.
4. Construction plans and structural calculations for site specific loading conditions must be submitted to the Structural Plan Check Division for approval.
5. The allowable panel spans shall be pursuant to the attached table.
6. Panels are to be fabricated in the shop of a Type-I licensed fabricator approved by the Los Angeles City Department of Building and Safety.
7. The panels shall be identified with the following information:
 - a. Product name and type
 - b. Identification of mineral fiber core
 - c. Flame spread and smoke development rating
 - d. Inspection agency name

Kingspan Insulated Panels, Inc.
RE: Kingspan MFTM Insulated Panels

DISCUSSION

The clerical modification is to update the contact information.

The report is in compliance with 2017 Los Angeles Building Code.

The approval is based on tests and analysis. Test reports, details and other pertinent data are on file at the Engineering Research Section, Los Angeles Department of Building and Safety.

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 the Department of Building and Safety Engineers and Inspectors.

This general approval of an equivalent alternate of 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.

DAVID CHANG, Chief
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Attachments: Allowable Load Tables for Multiple Span Condition (1 page)
Panel Attachment Details (13 pages)