I.B. Roof Systems
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RESEARCH REPORT: RR 25961
(CSI # 07 54 19)

Expires: August 1, 2018
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Code: 2017 LABC

GENERAL APPROVAL – Technical Modification - IB PVC ROOFING MEMBRANES

DETAILS

IB Roof Systems single-ply roofing systems consist of single-ply polyvinyl chloride (PVC) roofing membrane, base/top insulation (when used) for use in adhered or mechanically fastened applications.

IB PVC Single Ply is a 50-mil, 60-mil, 80-mil polyester fabric–reinforced PVC membrane compliant with ASTM D4434, Type III.

IB PVC Single Ply Fleeceback is a 50-mil, 60-mil, 80-mil polyester reinforced PVC membrane with a non-woven polyester fleece backing. The membrane complies with ASTM D4434, Type III.

IB Roof single-ply roofing systems meet the fire classification and allowable design pressures outlined in Appendix 1, attached.

The roof covering systems described above are approved as Class A or Class B roof coverings and subject to the following conditions:

1. The roofing materials shall be delivered to the job site in sealed containers identified by the manufacturer's name and product designation.

2. Application of the components shall be in accordance with the applicant's published installation instructions, consistent with the description and requirements herein. (A copy shall be available at the job site).

3. Installation of the membranes must comply with the 2017 LABC, the manufacturer's published installation instructions, and this report.

4. IB Roof Systems PVC Single-Ply Roofing Systems are approved for reroofing (in accordance with Section 6.4 of AC75) under the following conditions:

    a. Class A, B, or C roof covering systems may be installed over existing roof covering systems under the following conditions provided the resulting classification is the lower of the new and existing roofing classification:
        i. New uninsulated systems installed only over existing uninsulated assemblies.
        ii. New insulated systems installed over existing uninsulated systems only.
    b. For wind uplift resistance, mechanically anchored systems may be accepted based on adequacy of anchors penetrating through existing roof coverings into structural substrates.
    c. Metal edge securement systems must be listed in accordance with ANSI/SPRI ES-1 dated (2003 or 2011, as applicable) and designed and installed for wind loads in accordance with LABC Section 1504.5 and LABC Chapter 16.

5. The membranes must be installed by authorized applicators approved by IB Roof Systems.

6. Foam plastic must be separated from the interior of the building by approved thermal barrier in accordance with Section 2603.4.1.5 of the 2017 LABC or Section R316.4 of the 2017 LARC, as applicable.

7. Foam plastic insulation, when used, must bear the label of an approved testing and listing agency indicating that the foam plastic has a flame –spread index of not more that 75 when tested at the maximum thickness intended for use in accordance with ASTM E84 or UL 723.

8. Above-deck thermal insulation board must comply with the applicable standard listed in Table 1508.2 of the 2017 LABC or Table R906.2 of the 2017 LARC, as applicable.

9. Allowable wind uplift pressures given in Tables 3 and 4 of the attachment are for the roof covering only. The deck and framing to which the roof covering is attached must be designed for the applicable components and cladding wind loads in accordance with the 2017 LABC.

DISCUSSION

The technical modification is to convert the report to a City of Los Angeles Only Research Report and to update the report to the 2017 Los Angeles Building Code.

The report is in compliance with the 2017 LABC.

The approval was based on data in accordance with ICC Evaluation Services Acceptance Criteria for Membrane Roof Covering Systems (AC75).

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 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.

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Attachment: Assemblies and Allowable Wind Uplift Pressure (9 pages)