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RESEARCH REPORT: RR 25994
(CSI #07 13 00)

REEVALUATION DUE
DATE: March 1, 2023
Issued Date: May 21, 2021
Code: 2020 LABC

GENERAL APPROVAL – Renewal - Hydro-Prufe® 80 mil Polyvinyl Chloride Methane Barrier

DETAILS

Hydro-Prufe® 80 mil polyvinyl chloride membrane is a below-grade, exterior-wall sheet membrane that performs as a dampproofing, wall waterproofing, and methane barrier material on cast-in-place concrete, concrete masonry unit, pneumatically applied concrete, and insulating concrete forms.

Adjacent sheets are welded together by hand, machine, or wedge welding. Hand welded and machine welded seams shall be a minimum 4 inches wide; 6 inches wide for wedge welded seams.

Induction plates attached to the basement walls or shoring lagging are used to support the membrane, by induction welding the membrane to the plates, in vertical applications during construction. Proprietary magnets support the membrane until the material and plate has adhered and cooled.

The approval is subject to the following conditions:

1. Installation of the product shall be in accordance with the manufacturer's instructions and the requirements herein. A copy of this report and the installation instructions shall be provided at each job site by the manufacturer.
2. Seams and repairs shall be completed in accordance with the manufacturer recommendations on file with the Engineering Research Section.

RR 25994
Page 1 of 3

Hydro-Gard, LLC

RE: Hydro-Prufe® 80 mil PVC Membrane

3. The maximum Hydrostatic pressure the barrier can withstand is 50 pounds per square inch.
4. The membrane shall not be placed under the building's footings.
5. Induction plates shall be located such that they do not interfere with seaming operations.
6. Installation shall be in accordance with the approved manufacturer's installation instructions (a copy is retained at the Engineering Research Section) and as specified herein. A copy shall be kept at the job site.
7. Installation shall be performed by an installer approved by the manufacturer.
8. All membrane joints shall have a minimum width in accordance with the manufacturer's specifications or as noted in the Details Section of this approval.
9. For gas membrane installation, continuous inspection by a Deputy Inspector registered in accordance with Section 1704.2.1 of the 2020 Los Angeles City Building Code for special inspection, is required. A Deputy Report shall be given to the Building Inspector verifying the membrane installation complies with all the requirements contained in this Approval Letter.
10. Complete details for the membrane system shall be submitted to Structural Plan Check.
11. Testing for leaks at membrane lap seals and other membrane joint seals including penetrations through the slab shall be performed in accordance with the manufacturer's quality assurance manual. A copy shall be available at the job site.
12. Prior to placing the concrete slab over the membrane, the membrane installer shall certify the membrane to be installed and tested in accordance with the manufacturer's specifications and to be free of leaks.
13. For gas membrane installation, the following field tests in accordance with the Hydro-Prufe Field Installation and Repair Procedure are required: (A copy of the Installation and Repair Procedures is on file with Engineering Research Section.)
 - a. Perform Smoke Test for the entire site at the interval not more than 50,000 sq. ft. each.
14. Hydro-Prufe® 80 mil PVC Membrane must be stored out of direct sunlight and at temperatures above -24 deg F and no greater than 122 deg F. Hydro-Prufe 80 mil PVC membrane system materials must not be installed when temperatures are below -24 deg F.
15. Hydro-Prufe® 80 mil PVC Membrane must be back filled within 30 days of its installation to protect the material from prolonged exposure to ultraviolet radiation (sunlight).

Hydro-Gard, LLC
RE: Hydro-Prufe® 80 mil PVC Membrane

DISCUSSION

This report is in compliance with the 2020 City of Los Angeles Building Code.

The approval is based on tests and analyses in accordance with ICC-ES AC 114; Acceptance Criteria for Rigid, Polyethylene, Below-Grade, Damp proofing and Wall Waterproofing Material; dated March 2012 (editorially revised December 2013) and Los Angeles Acceptance Criteria L137; Methane Barrier Test Criteria.

This general approval will remain effective provided the Evaluation Report is maintained valid and unrevised with the issuing organization. Any revision to the report must be submitted to this Department for review with appropriate fee to continue the approval of the revised report.

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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