

AIRLOK FLEX[®] VP

Fluid-Applied Membrane Air/Moisture Barrier

NFPA 285 Test Report

September 2013

Polyguard's Airlok Flex[®] VP air barrier membrane receives National Fire Protection Association (NFPA) 285 approval as part of a wall assembly with combustible materials.

Polyguard Products, Inc., an Ennis-based manufacturer of building waterproofing and air barrier membranes, has received approval of the Airlok Flex[®] VP air/moisture barrier systems. The performance was confirmed for various wall conditions with exterior insulation to the requirements of the National Fire Protection Association (NFPA) 285 standard.

Exterior non-load-bearing wall systems that incorporate combustible components and are used in the exterior walls of construction types I, II, III, and IV, are required to show compliance with an NFPA 285 multi-story test. The multi-story test is the recognized test method for determining the fire propagation vertically and horizontally away from a window opening in the wall assembly.

Airlok Flex[®] VP is a vapor-permeable, fluid-applied air/moisture barrier membrane. Along with its associated accessory products, it provides an air barrier system to the market which can be further incorporated into Polyguard's Integrated Building Envelope of membranes to provide critical moisture protection from underneath the slab, over to and up the wall to, but not including, the roof line.

NFPA 285 Approved assemblies:

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| <u>Base Wall System:</u> | 5/8" Type-X Gypsum Board on min. 3-5/8" min. 20 GA Steel Studs @ 24" O.C. Concrete Masonry Wall Concrete Wall |
| <u>Floor line Firestopping:</u> | 4 lb/cu. ft. Mineral Wool in each stud cavity at floor line – attach with Z-clips or equal |
| <u>Stud Cavity Insulation:</u> | None Non-combustible insulation, faced or unfaced. |
| <u>Exterior Sheathing:</u> | 1/2" exterior-type Gypsum Sheathing 5/8" Type-X, exterior-type Gypsum Sheathing |
| <u>Air Barrier Membrane:</u> | 32 wet mils Airlok Flex [®] VP (Option: use ITW Sta'-Put Quick Grip adhesive over the cured water-resistive barrier.) |
| <u>Exterior Insulation:</u> | Max. 3" thick Extruded Polystyrene Foam Insulation (XPS) – Type IV per ASTM C 578. (Option: cover joints with a max. 4" wide asphalt- or butyl-based flashing tape.) |
| <u>Exterior Cladding:</u> | 4" thick Clay Brick – standard anchors @ max. 24" O.C. vertically on each stud. – max. 2" air gap between insulation and brick. Stone – min. 2" thick limestone or natural stone. Stone – min. 1-1/2" thick cast artificial stone veneer. Terracotta – min. 1-1/4" thick. 4" thick Concrete Masonry Units (CMU) – max. 2" air gap between insulation and CMU. Concrete Panels – min. 2" thick with max. 2" air gap between insulation and panels. |