

AIRLOK FLEX[®] SERIES

Fluid-Applied Membrane Air/Moisture Barriers

NFPA 285 Test Report

September 2013

Polyguard fluid-applied air barrier membranes receive 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[®] air/moisture barrier systems. The performance was confirmed for a variety of wall conditions with exterior insulation to the requirements of the National Fire Protection Association (NFPA) 285 standard.

Airlok Flex[®] is a series of fluid-applied, elastomeric air/moisture barrier membranes. Along with the associated accessory products, each system provides high-performance membranes to the market which can be further incorporated into Polyguard's Integrated Building Envelope 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:

<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>	40 wet mils Airlok Flex [®] 32 wet mils Airlok Flex [®] VP 20 wet mils Airlok Flex [®] WG (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.