



# Non-Permeable Air Barrier 3015NP

Technical Data

March 2021

**Product Description** 3M™ Air Barrier 3015NP is a Non-Permeable membrane with an aggressive, high-tack acrylic adhesive that does not require the use of a primer on most construction materials. It even adheres to damp surfaces. This product uses a specially formulated acrylic adhesive that sticks and stays stuck at a wider range of temperatures than traditional air barrier products. The proprietary film backing seals around hand driven nails and staples to prevent moisture intrusion. This film is also tough, resists punctures and tears, yet can be tucked tightly into corners. Both the film and adhesive are widely compatible with most construction materials.

Product Construction	Backing	Adhesive	Colors	Liner
	Multilayer Film	Acrylic	White	Polycoated Kraft

## Typical Physical Properties

*Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.*

		Test Method
Air Permeance of membrane: @ 75Pa (0.3 in/wg.)	0.0004 cfm 0.0021L/s.m <sup>2</sup>	ASTM E2178 CAN/ULC-S741
Air Leakage of assembled wall: Opaque wall @ 75Pa (0.3 in/wg.)	0.0021 cfm/ft <sup>2</sup> 0.0106 L/s.m <sup>2</sup>	ASTM E2357
Penetrated wall @ 75Pa (0.3 in/wg.)	0.0027 cfm/ft <sup>2</sup> 0.0136 L/s.m <sup>2</sup>	CAN/ULC-S742
Air Leakage Rate Classification	A1	
Water Vapour Transmission: Desiccant Method	0.10 US Perms 5.59 ng/Pa·s·m <sup>2</sup>	ASTM E96
Water Method	0.09 US Perms 4.90 ng/Pa·s·m <sup>2</sup>	
Water Resistance 55cm (21.6 in) of water for 5 hours	No Leakage Observed	AATCC 127

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Low Temperature Flexibility @ -30°C (-22°F)	Pass	ASTM D1970 Section 7.9
Nail Sealability 127mm (5in) water head after 3 days	Dry/Pass	ASTM D1970 Section 7.9
Wall Assembly Fire Test As part of various assemblies with foam plastic insulation	Pass	NFPA 285
Surface Burning Characteristics		
Flame Spread Index	0	ASTM E84
Smoke Developed Value	10	
Rating	Class A	NFPA 101
Flame Spread Rating	0	CAN/ULC S102
Smoke Developed Classification	5	
Crack Bridging	Pass	ASTM C1305
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Backing Thickness	5 mils	ASTM D3652
Total Thickness (coated membrane)	10 mils	
Tensile Strength (coated membrane)	2153 psi	ASTM D882
Elongation at Break	> 700%	
Lap Adhesion	6.74 lbf/in 1.18 N/mm	ASTM D1876
Pull Adhesion (psi/kPa)		
Concrete	22 / 151	
Plywood	24 / 167	ASTM D4541
OSB	16 / 111	
DensGlass™	26 / 179	
Peel Strength (lbf/in / N/mm)		
Concrete	6.40 / 1.12	
Plywood	5.31 / 0.93	ASTM D903
OSB	5.88 / 1.03	
DensGlass™	5.20 / 0.91	

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## Features

- Meets the requirements of ASTM E2178 and CAN/ULC S741.
- Meets the requirements of AAMA 711
- Passes NFPA 285 as part of various exterior wall constructions.
- Service temperature from -40° to 240°F (-40° to 116°C).
- Can be applied to substrates from 0° to 150°F (-18° to 66°C).
- Resists UV exposure for up to 12 months.
- Compatible with most building materials: synthetic rubber, butyl, polyurethane, silicone and silane terminated hybrid sealants. See *3M™ Air Barrier Compatibility Listing Technical Bulletin* for the latest details.
- Excellent adhesion to concrete, concrete block, anodized aluminum, galvanized metal, plywood, rigid vinyl and most exterior grade fibreglass matt gypsum boards without the use of any primer. Refer to the *3M™ Air Barrier Compatibility Listing Technical Bulletin* for the latest details.
- Adhesive provides a unique combination of both cold and hot temperature adhesion to most substrates, which can extend the construction season in many climates.
- Unique adhesive even adheres to damp surfaces that have not absorbed water, like metals, glass and plastics.
- Seals around nails and staples to prevent moisture intrusion.
- Robust film helps resist bunching around screws
- Class A fire rating building material with low flame spread and smoke development

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## Surface Preparation

To obtain the best adhesion, 3M™ Non-Permeable Air Barrier 3015NP should be installed when outdoor temperatures range from 0°F (-18°C) to 150°F (66°C).

- Surfaces should be clean, free from dirt and debris and have not absorbed water.
- Surfaces should be free of any damaged, unsupported areas, sharp protrusions or voids.
- Concrete must be cured a minimum of 7 days before application.
- Block or brick walls should have mortar joints tooled or struck flush.
- While product can be applied as low as 0°F (-18°C), surfaces must be clear of snow, ice or frost.

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- Adheres to most common building materials. For especially difficult to stick to surfaces, test adhesion before application as shown in the installation guide. If needed, apply 3M™ Hi-Strength 90 Spray Adhesive, 3M™ Hi-Strength 94 ET Spray Adhesive, 3M™ Holdfast 70 Spray Adhesive or 3M™ Fastbond™ Contact Adhesive 30NF to prime the substrate prior to applying the membrane. Products are available as either an aerosol or cylinder spray adhesive.

## Application Instructions

Refer to *3M™ Air and Vapor Barrier 3015NP Installation Guide* for detailed application information.

- Must be lapped a minimum of 2" on sides and ends.
- No primer is needed on most construction surfaces.
- The adhesive is very aggressive and quickly bonds to substrates. Do not contaminate the adhesive area with dust or debris before applying it to the intended surface.
- Be careful when aligning product on the wall, as repositioning may be challenging. This product uses a pressure sensitive adhesive. Use hand applied pressure to “tack” the product into place. Follow by applying firm pressure with a roller or plastic squeegee.
- Detail work must be carefully executed to ensure a continuously sealed building envelope.

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**Storage** Optimum storage conditions are 60° to 80°F (16° to 27°C) and 40 to 60% relative humidity in the original packaging material.

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**Shelf Life** To obtain best performance, use this product within 24 months from date of manufacture.

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