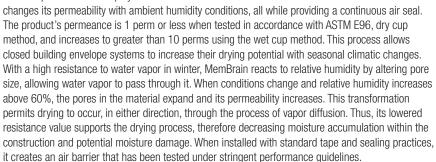


# **MemBrain**<sup>™</sup> Continuous Air Barrier & Smart Vapor Retarder

#### PRODUCT DESCRIPTION

Basic Use: CertainTeed's MemBrain™ Continuous Air Barrier & Smart Vapor Retarder is a vapor retarder sheeting intended for use with unfaced, vapor-permeable mass insulation (fiber glass and mineral wool) in wall and ceiling cavities.

**Benefits:** MemBrain Continuous Air Barrier & Smart Vapor Retarder is a polyamide film that



This product can be used in place of traditional vapor retarders with unfaced fiber glass insulation to provide an insulation system that is ideal in some of the more severe climate condition areas in terms of both temperature and humidity. In addition, MemBrain may be installed as an interior air barrier system combined with recommended tapes and sealants.

Composition and Materials: MemBrain Continuous Air Barrier & Smart Vapor Retarder is a Class A Fire Rated 2-mil thick film of polyamide (nylon).

Limitations: MemBrain Continuous Air Barrier & Smart Vapor Retarder is recommended for use in heating and mixed climates. The product is not suited for cooling climates with high outdoor humidities. MemBrain is not suitable in buildings with exceptionally high, constant indoor humidity levels, such as swimming pools and spas. This product should also not be used with specialty-conditioned spaces with relative humidities intentionally greater than 50%. Use of MemBrain is not recommended where residential humidification systems are set at relative humidities greater than 50%. MemBrain's performance in rooms with short peaks of high humidity, such as bathrooms and kitchens, will not be affected because of the buffering action of interior finishes.

Do not use low permeance interior finishes such as vinyl wallpaper or vapor retarding paints with MemBrain. The drying benefits of MemBrain will diminish with the use of low permeance finishes. MemBrain has not been tested for use with wet spray insulation systems and is not recommended at this time. MemBrain should not be used as a vapor barrier between concrete subfloors and flooring materials, or as a ground cover in basements and crawl spaces. This product is not recommended for applications having direct or indirect (reflected) ultraviolet light exposure due to solar or electrical sources. Special care should be taken when working with an open flame. Check local practice and/ or building codes for use of vapor retarders. To avoid danger of suffocation, keep this and all plastic film away from babies and small children.



# TECHNICAL DATA

#### **Applicable Standards**

- Model Building Codes:
  - -ICC
  - National Building Code of Canada 2005 & 2010
    Articles 9.25.4.2
    Articles 9.25.3
    CCMC Evaluation Report #13278-R
- Water Vapor Permeance:
  - ASTM C665 Section 7.4, Water-Vapor Permeance
  - ASTM E96

#### **Fire Properties**

ASTM E84
Surface Burning Characteristics
Flame Spread Index < 25</li>
Smoke Developed Index < 450</li>

#### **Quality Assurance**

CertainTeed's commitment to quality and environmental management has ensured the registration of the Athens, Chowchilla and Kansas City plants to ISO 9001:2008 and ISO 14001:2004 standards.

PHYSICAL AND CHEMICAL PROPERTIES					
PROPERTY	TEST METHOD	RESULT			
Water Vapor Permeance (57ng/Pa•s•m²)	ASTM E96 Desiccant Method	<1 () nerm			
Water Vapor Permeance (572ng/Pa•s•m²)	ASTM E96 Water Method	>10 perms			
Corrosivity	ASTM C665	No unusual aspect of corrosion such as pitting, cracking and adhesive cure inhibition			
Fungi Resistance	ASTM C1338	No growth			

Sizes: This product is manufactured in nominal widths to cover interior walls that are 8, 9, 10 and 12 feet high. The material is folded and rolled to create rolls containing 100 linear feet of product. Available standard sizes are listed in Table 1.

Table 1

MemBrain Continuous Air Barrier & Smart Vapor Retarder						
Width	Length	Coverage	Roll Weight (with Box & Core)	Rolls/Pallet*	Weight/Pallet	
8 ft. 4 in. (2.54m)	100 ft. (30.48m)	833 ft2 (77.4 m2)	11.1 lbs. (5.0 kg)	45	545 lbs. (247 kg)	
9 ft. 4 in. (2.84m)	100 ft. (30.48m)	933 ft2 (86.7m2)	12.5 lbs. (5.7 kg)	45	608 lbs. (276 kg)	
10 ft. 4 in. (3.15m)	100 ft. (30.48m)	1,033 ft2 (96.0 m2)	13.7 lbs. (6.2 kg)	40	593 lbs. (269 kg)	
12 ft. 4 in. (3.76m)	100 ft. (30.48m)	1,233 ft2 (114.5 m2)	17.0 lbs (7.7 kg)	30	555 lbs. (252 kg)	

<sup>\* 48&</sup>quot; (1219 mm) maximum pallet height.

# **INSTALLATION**

For most areas, vapor retarders should be installed on the warm-in-winter side of the insulation (toward the interior). For some warm and humid areas, the vapor retarder should be installed towards the exterior of the building envelope. MemBrain is not intended to be used as an exterior vapor retarder. Check local practice and/or building codes.

**Installation in wood framing:** Same as polyethylene sheeting. Please see MemBrain Installation Instructions for Wood Framing and Steel Framing (30-28-142).

Installation as an Air Barrier System: MemBrain may be installed as a continuous interior air barrier system. Please see MemBrain Air Barrier Installation for Wood Framing (30-28-137).

### **AVAILABILITY AND COST**

Manufactured and sold throughout the United States. For availability and cost, contact your local contractor, retailer or distributor, or call CertainTeed Sales Support Group at 800-233-8990.

# **MAINTENANCE**

Not required.

# **TECHNICAL SERVICES**

Technical assistance can be obtained from either the local CertainTeed sales representative, or by calling CertainTeed Sales Support Group at 800-233-8990.





