

# CertainTeed

## Specification Sheet

### DryRight™ Fiber Glass Insulation

#### 1. PRODUCT NAME

CertainTeed DryRight™ Fiber Glass Insulation with MemBrain™ facing.

#### 2. MANUFACTURER

CertainTeed Corporation  
 P.O. Box 860  
 Valley Forge, PA 19482-0105  
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 800-233-8990  
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#### 3. PRODUCT DESCRIPTION

**Basic Use:** DryRight Batt and Roll insulation is intended for use in either residential or commercial construction as thermal and acoustical insulation in wall and ceiling cavities.

The products are faced with MemBrain™, the Smart Vapor Retarder, which is adhered to the insulation and is designed for use in standard

wood stud assemblies.

**Benefits:** When installed properly, DryRight helps prevent mold and mildew growth by reducing the potential for moisture accumulation. Installing DryRight insulation is an easy, cost-effective method to help conserve energy in the residential and commercial new construction, remodeling, and re-insulation markets. In addition to its thermal properties, these products also provide excellent acoustical performance.

DryRight includes an attached vapor retarder, MemBrain, with smart vapor retarder technology. The patented nylon film facing allows closed building envelope systems to increase their drying potential with seasonal climatic changes. DryRight facing has the ability to alter its pore size with changes in the relative humidity of the wall cavity. During the heating season, when the



relative humidity in insulated cavities is low, MemBrain protects by working as a traditional vapor retarder. During the cooling season, when the relative humidity in insulated cavities is high (or whenever it is above 60%), MemBrain *breathes* by changing its permeance at a vapor/molecular level. This increases the system's drying potential, which decreases moisture accumulation within the construction and potential moisture damage.

**Composition and Materials:** The product is composed of yellow, uniformly textured, inorganic glass fibers covered by a Smart Vapor Retarder facing. The facing is a 2-mil thick polyamide (nylon) film.

**Sizes:** Available standard sizes are listed in the table below. Contact CertainTeed for non-standard sizes.

**Limitations:** The moisture management benefits associated with the use of DryRight are most significant in very cold, cold and mixed warm and cold climates. DryRight is not as advantageous in hot-humid or hot-dry climates. However, if a vapor retarder is desired, DryRight is the most effective at managing moisture no matter what the climate.

DryRight is not suitable in buildings with exceptionally high, constant indoor humidity levels, such as swimming pools and spas. These products should also not be used with specialty conditioned spaces with relative humidities intentionally greater than 60%.

AVAILABLE SIZES								
	R-Value		Thickness		Width		Length	
	R	RSI	in.	mm	in.	mm	in.	mm
Batts	13	2.3	3 1/2	89	15*	381	93	2362
	13	2.3	3 1/2	89	15*	381	105	2667
	13	2.3	3 1/2	89	15 1/4	387	93	2362
	13	2.3	3 1/2	89	15 1/4	387	105	2667
	13	2.3	3 1/2	89	16	406	96	2438
	13	2.3	3 1/2	89	24	610	96	2438
	15	2.6	3 1/2	89	15 1/4	387	93	2362
	19	3.3	6 1/4	159	15*	381	93	2362
	19	3.3	6 1/4	159	15*	381	105	2667
	19	3.3	6 1/4	159	15 1/4	387	93	2362
	19	3.3	6 1/4	159	15 1/4	387	105	2667
	19	3.3	6 1/4	159	16	406	96	2438
	19	3.3	6 1/4	159	24	610	96	2438
	21	3.7	5 1/2	140	15 1/4	387	93	2362
	30	5.3	10	254	24*	610	48	1219
38	6.7	12	305	24*	610	48	1219	
Roll	13	2.3	3 1/2	89	15 1/4	387	32 ft	9754

\*Product has tabbed facing

Use of DryRight is not recommended where residential humidification systems are set at relative humidities greater than 50%. DryRight'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 DryRight. The drying benefits of DryRight will diminish with the use of low permeance finishes.

DryRight with MemBrain facing is not intended to be used as an exterior vapor retarder.

DryRight facing must not be left exposed to U.V. light. DryRight must be installed behind and in substantial contact with the unexposed surface of the ceiling, floor or wall finish.

All building insulation should be kept dry. Wet fiber glass insulation will lose its effectiveness until it dries. Fiber glass will often dry naturally and regain its original R-value. However, under conditions where the insulation will not dry thoroughly, it should be removed or be replaced.

The National Electrical Code prohibits installation of any insulation over or within 3" (76 mm) of recessed light fixtures, unless approved insulated ceiling (IC) lighting fixtures are used.

#### 4. TECHNICAL DATA

##### **Applicable Standards:**

- Model Building Codes:
  - ICC
  - New York – NYS UFPBC Article 15
  - California and Minnesota Quality Standards.
- Material Standards:
  - ASTM C665, Type II, Class A, Category 1 & 2

Section 7.4, Water-Vapor Permeance

- ASTM E96

##### **Fire Resistance:**

- DryRight batts have a Class A or I rating.

##### **Physical/Chemical Properties:**

- Thermal Performance:
  - (ASTM C518) R-values for insulation only, as stated in the table on the front page.
- Water Vapor Sorption:
  - (ASTM C1104) < 5%
- Water Vapor Permeance:
  - $\leq 1.0$  perm (57ng/Pa•s•m<sup>2</sup>) (ASTM E96, Desiccant method) Dry Cup Mean Relative Humidity=25%
  - $> 8$  perms (1,144ng/Pa•s•m<sup>2</sup>) (ASTM E96, Water method) Wet Cup Mean Relative Humidity=75%
- Fungi Resistance:
  - No growth (ASTM C1338)

**Quality Assurance:** Many of CertainTeed's manufacturing plants are registered to ISO 9001-2000 standards.

#### 5. INSTALLATION

DryRight is designed to be installed with the facing on the warm-in-winter side of the insulation (toward the interior). Fiber glass insulation is noncombustible. However, the facing should not be left exposed. Special care should be taken when working close to the facing with an open flame. Special flame-resistant facings are available for exposed applications.

##### **Installation in wood framing:**

Studs–DryRight insulation friction-fits between wood studs. No stapling is required.

Ceiling Joists–DryRight insulation is placed between joists with vapor

retarder facing down. Only unfaced insulation is installed over existing insulation.

Floor Joists–DryRight insulation is installed with the vapor retarder facing up and in contact with the floor. All insulation must be supported between joists with wire supports or by lacing wire across joists or other approved methods. Check with CertainTeed before installation.

Cathedral Ceilings–Install DryRight insulation with vapor retarder facing down. A 1" vented air space is recommended between insulation and roof sheathing.

#### 6. 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 in Valley Forge, PA, at 800-233-8990.

#### 7. WARRANTY

Refer to CertainTeed's Lifetime Limited Insulation Warranty for Fiber Glass Building Insulation (30-21-1321).

#### 8. MAINTENANCE

No maintenance required.

#### 9. TECHNICAL SERVICES

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

#### 10. FILING SYSTEMS

- Additional product information is available upon request.



Protected by one or more of the following U.S. and foreign patents:  
 U.S. Pat. Nos. 6,890,666; 6,878,455 and 6,808,772  
 Can. Pat. No. 2215502  
 Other U.S. and foreign patents pending.

### ASK ABOUT OUR OTHER CERTAINTEED PRODUCTS AND SYSTEMS:

**EXTERIOR:** ROOFING • SIDING • WINDOWS • FENCE • RAILING • TRIM • DECKING • FOUNDATIONS • PIPE  
**INTERIOR:** INSULATION • GYPSUM • CEILINGS

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