



GreenGuard® RainDrop® 3D Building Wrap

Submittal

Job Reference

Job Name

Job Location

Submitted To

Submitted By

Date

Phone

Date

Phone

Application

For use as an air barrier, water-resistive barrier and drainage medium in construction environments where optimum barrier performance plus drainage behind wall cladding is required

Description

Kingspan GreenGuard® RainDrop® 3D Building Wrap is a cross-woven polyolefin building wrap designed with an enhanced contour to facilitate the drainage of water that penetrates the exterior cladding, which is the primary weather barrier of a wall system. The contour won't crimp, collapse, or flatten, ensuring water will drain no matter how tightly cladding is nailed to the wall. It is a recognized air barrier material listed with www.airbarrier.org, and it has demonstrated water holdout capabilities in industry recognized water resistance tests. This non-perforated wrap also breathes to allow moisture vapor to escape. It is an excellent secondary weather barrier that helps deflect water and wind-driven rain, yet is designed to breathe to assist trapped moisture vapor to escape, helping walls dry faster. It meets the International Building and Residential Code requirements for air barrier materials, water-resistive barriers, and for drainage efficiency.

Benefits

- Drains water that gets through exterior cladding
- Built-in drainage channels will not crush or crimp
- Qualified air barrier
- Water-resistive barrier
- High resistance to tearing
- Breathes to allow moisture vapor to escape
- Use for siding, stone, stucco

Code Compliance

Intertek CCRR-1018 for IBC, IECC and IRC Compliance;
DrJ Engineering TER No. 1407-05 (NFPA 285);
ASTM D 226, Type I (Specification for Building/Roofing Paper);
ASTM E 1677, Type II (Specification for Air Infiltration Barriers);
ASTM E 2178 – Air Permeance (Air Barrier Materials);
ASTM E 2357 – Air Barrier Assembly (go to www.airbarrier.org);
ASTM E 2556, Type II (Specification for Water-Resistive Barriers);
HUD/FHA UU-B-790a – Equivalent to Grade D/Type 15 Building Paper.

Warranty

Standard 10-Year Limited Warranty. Contact your Kingspan representative or contact Kingspan Insulation LLC, 800-241-4402 for additional information, or visit www.kingspaninsulation.us



GreenGuard® RainDrop® 3D Building Wrap

Handling & Storage

When stored outdoors, all product should be protected from exposure to direct sunlight using the original packaging or an opaque, light-colored tarp. Material that has been unwrapped should be covered or rewrapped.

WARNING: This product is combustible. A protective barrier or thermal barrier is required as specified in the appropriate building code. Protect it from exposure to open flame or other ignition sources during shipping, storage and installation.

Health & Safety

Kingspan GreenGuard® RainDrop® 3D Building Wrap is made of synthetic materials that are generally recognized as not providing a food source for insects, fungus, mold, or mildew. It should always be properly installed and stored.

For more information on specific building product recommendations and installation guidelines, contact your Kingspan Insulation LLC representative. For the most current product and compliance information go to www.kingspaninsulation.us

Kingspan Insulation LLC believes the information and recommendations herein to be accurate and reliable. However, since use conditions are not within its control, Kingspan Insulation LLC does not guarantee results from use of such products or other information herein and disclaims all liability from any resulting damage or loss. No warranty, express or implied, is given as to the merchantability, fitness for particular purpose, or otherwise with respect to the products referred to.

Product Data

Property	Test Method	Value
General		
Nominal Thickness ¹ (in/ mils)	ASTM D 1777	0.020/20
Nominal Width (ft)		3/9/10
Weight (lb/1000 ft ²)	ASTM D 3776	21
Tensile Strength (MD / TD) ² (lb/in)	ASTM D 882	56/30
Trapezoid Tearing Strength (MD / TD) ² (lb/in)	ASTM C 4533	25/41
Burst Strength (psi)	ASTM D 751	155
Water Resistance (minutes)	ASTM D 779	>120
Water Penetration Resistance (cm H ₂ O)	AATCC-127	>600
Drainage Efficiency (% water drained)	ASTM D 2273	>90
Water Vapor Permeance (perm)	ASTM E 96 (Desiccant/Water Method)	16/18
Water Vapor Transmission Rate (g/m ² /24 hr)	ASTM E 96 (Desiccant/Water Method)	111/125
Air Permeance (L/s/m ² @75 Pa) (cfm/ft ² @1.57 psf)	ASTM E 2178	0.001 0.000
Air Resistance / Wall Assembly (L/s/m ² @75 Pa) (cfm/ft ² @1.57 psf)	ASTM E 2357	<0.01 0.00
Air Penetration Resistance (seconds per 100 cc)	TAPPI T-460	>800
Air Leakage Rate / Air Resistance (cfm/ft ² @1.57 psf / 25 mph)	ASTM E 283	0.01
Structural Integrity (minimum 1 hr@500 Pa / 65 mph)	ASTM E 330 (Procedure A)	Pass
Water Resistance (15 min@27 Pa / 15 mph)	ASTM E 331	Pass
Fire & Smoke		
Flame Spread ³ Smoke Developed	ASTM E 84	0 (Class A) 15

¹ Low Point (0.010 inches / 10 mils), High Point (0.030 inches / 30 mils.)

² Machine Direction / Cross Direction

³ This numerical flame spread rating is not intended to reflect hazards presented by this material under actual fire conditions. All applicable building codes must be followed.



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