

REDZONE PRO

AIR / VAPOUR BARRIER MEMBRANE

TECHNICAL DATA SHEET
160118RCAN1E
(supersedes 160104RCAN3E)

DESCRIPTION

REDZONE PRO is a self-adhesive membrane composed of SBS modified bitumen and a tri-laminated woven polyethylene facer. The tri-laminated woven polyethylene is compatible for the use of sprayed polyurethane foam insulation. The underface is covered with a silicone release paper.

REDZONE PRO is designed to ensure airtightness and act as a vapour barrier. It is also used as masonry as well as waterproofing membrane at openings and transitions.

RECOMMENDED SUBSTRATES

This product can be used on most substrates, such as masonry, concrete, wood and gypsum.

SURFACE PREPARATION

Using **RESISTO H₂O PRIMER** or **RESISTO EXTERIOR PRIMER** is required before the installation of **REDZONE PRO** membrane. The substrate should be clean, sound, free of excess water and loose materials, grease and any contaminants, which may compromise the performance of the product.

INSTALLATION

SELF-ADHESIVE

REDZONE PRO membrane must be adhered to support by peeling off the silicone release paper.

All membrane overlaps must be a minimum of 50 mm (2 in).

Once installed, a pressure must be applied over the whole surface using a hard roller to ensure a perfect adhesion.

REDZONE PRO could be applied over a caulking bead such as polyurethane or butyl provided they are fully cured. It is recommended however to test it and ensure their compatibility prior to full application of the membrane.

Polyurethane foam can be sprayed directly onto **REDZONE PRO**. However, membrane should be mechanically fastened to the substrate using a termination bar to junctions, window or door frames, endings, and on the perimeter of the building.

Application temperatures: - 10 °C (14 °F) and more.

Service temperatures: -45 to 90 °C (-49 to 194 °F)

PACKAGING

Specifications	REDZONE PRO	
Thickness	1.0 mm (40 mil)	
Dimensions	0.91 m X 22.9 m (3 ft X 75 ft)	100 mm x 22.9 m (4 in X 75 ft) 150 mm x 22.9 m (6 in X 75 ft) 225 mm x 22.9 m (9 in X 75 ft) 300 mm x 22.9 m (12 in X 75 ft) 450 mm x 22.9 m (18 in X 75 ft)
Weight	1 kg/m ² (0.2 lb/ft ²)	
Selvedge width	50 mm (2 in)	-
Surface	Tri-laminated woven polyethylene	
Underface	Silicone release paper	
Rolls per skid	36	Varies depending of the width.

(All values are nominal)



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PROPERTIES

Properties	Standards	RED ZONE	
Tensile strength, MD/XD	ASTM D5147	13.1 / 9.6 kN/m	74 / 55 lb/in
Ultimate elongation, MD/XD	ASTM D5147	40 / 25 %	
Ultimate elongation, MD/XD (bitumen)	ASTM D5147	> 1000 %	
Puncture resistance	ASTM E154	575 N	129 lbf
Tear resistance, MD/XD	ASTM D5601	535 / 245 N	120 / 55 lbf
Cold temperature flexibility	ASTM D5147	-35 °C	-31 °F
Lap adhesion	ASTM D1876	2 100 N/m	12 lbf/in
Peel resistance - on primed gypsum	ASTM D903	1 180 N/m	7 lbf/in
Water Vapour Permeance	ASTM E96 (Procedure B)	< 2.1 ng/Pa•s•m ²	< 0.037 perm
Air Permeability, 75 Pa	ASTM E2178	< 0.0005 L/sec•m ²	< 0.00001 cfm/ft ²
Resistance to gust wind load	ASTM E330 (3000 Pa – 10 s)	No delamination or variation in the air permeability	
Resistance to uniform static air pressure	ASTM E330 (100 Pa – 1 h)	No delamination or variation in the air permeability	
Fire resistance	Component of an assembly tested in conformity with NFPA 285	Pass	
Air leakage resistance	ASTM 2357	Pass	
Air leakage rate classification	CAN/ULC S742	A1	
Nail Sealability	ASTM D1970 modified	Pass	

(All values are nominal)

STORAGE AND HANDLING

Rolls must be stored upright. If the product is stored outdoors, cover them with an opaque protective cover after removal of the delivery packaging.

REDZONE PRO must be protected from UV prior its installation and is not intended to be left exposed more than 90 days. Must not be in contact with flexible PVC or other products containing plasticizers.