

DonProof PR

A flexible PVC waterproofing membrane for roofs



Description

DonProof PR is a high quality, UV-resistant, flexible polyvinyl chloride (PVC) waterproofing sheet reinforced with a high-performance polyester mat.

DonProof PR is available in "reflecting white" version with the upper side of the membrane (top) treated in an entire layer that covers the top of the reinforcement. This process enhances the reflectance and emission features giving the membrane a Solar Reflectance Index (SRI) values that reach 100%.

Applications

DonProof PR is used in waterproofing of exposed and covered roof systems like:

- ▲ Tiled roofs.
- ▲ Inverted roofs.
- ▲ Green roofs.
- ▲ Exposed and mechanically fastened membrane on metal decks roofs.

Advantages

- ▲ Excellent resistance to weathering.
- ▲ High UV resistance.
- ▲ Highly resistance to puncture and mechanical impact.
- ▲ Long lasting, high service life.
- ▲ Remains flexible at low temperatures.
- ▲ Can be easily welded using hot air even at low temperatures.

Standards

DonProof PR complies with EN 13956:2005 for roofing membranes.

Limitations

DonProof PR should not be in direct contact with bitumen, oil, solvent and tar as well as plastics other than PVC. On these surfaces it requires a separation layer of non-woven fabric (> 300 g/m²).

Method of Use

DonProof PR must be installed by experienced and qualified personnel.

Surface Preparation

Surface must be clean, sound and dry. Remove any poorly attached materials or contaminations. Cover or remove any sharp elements which could damage the PVC membrane. A compatible clean and dry separation layer should be placed between the substrate and the PVC membrane.

Application

DonProof PR can be applied on roofs by two methods:

Fixing method

The membrane is mechanically anchored in the overlapping seams, and loosely laid under ballast layer.

Welding method

Use a manual or an automatic hot air welding machine with a pressure roller to join the overlapping membrane sheets together. The width of the joint must be at least 30 mm. Adjust the temperature and machine speed of the air welding machine according to the ambient conditions.

To ensure all the welding is done correctly, all seams must be tested with screw driver or steel needle after the joint has cooled. Unwelded points must be repaired with a welding tool.

Packaging

Each roll is packed in clear LDPE film:

DonProof PR120: 1.2 mm x 2.1 m x 20 m

DonProof PR150: 1.5 mm x 2.1 m x 16.5 m

DonProof PR180: 1.8 mm x 2.1 m x 15 m

Storage

DonProof PR rolls must be stored horizontally and in parallel in their original packaging, away from direct sunlight in cool and dry conditions.

If these conditions are exceeded, DCP Technical Department should be contacted for advise.

Cautions

DonProof PR should be welded in a well-ventilated area.

For further information refer to the Material Safety Data Sheet.

DonProof PR



Technical Properties:	DonProof PR120	DonProof PR150	DonProof PR180
Colour:	Grey / black		
Application temperature:	-15°C to 50°C		
Visible defects: EN 1850-2	Not present		
Width: EN 1848-2	2.10 (-0.5%/+1%) m		
Straightness: EN 1848-2	≤ 30 mm		
Flatness: EN 1848-2	≤ 10 mm		
Thickness: EN 1849-2	1.20 (-5%/+10%) mm	1.50 (-5%/+10%) mm	1.80 (-5%/+10%) mm
Mass per unit area: EN 1849-2	1.50 (-5%/+10%) kg/m ²	1.80 (-5%/+10%) kg/m ²	2.20 (-5%/+10%) kg/m ²
Water tightness: EN 1928	Pass		
Reaction to fire: EN 13501-1	Class E		
Reaction to external fire: EN 13501-5	Broof (t1), Broof (t2), Broof (t3) (specific versions)		
Joint peel resistance: EN 12316-2	≥ 260 N/50 mm		
Joint shear resistance: EN 12317-2	≥ 1000 N/50 mm (specimen fails outside bond area)		
Water vapour coefficient: EN 1931	21,000 ± 30%μ		
Tensile strength: EN 12311-2	Longitudinal Transversal	≥ 1000 N/50 mm ≥ 1000 N/50 mm	
Elongation: EN 12311-2	Longitudinal Transversal	≥ 18% ≥ 20%	

Technical Properties:	DonProof PR120	DonProof PR150	DonProof PR180
Tearing strength: EN 12310-2 Longitudinal Transversal		≥ 200 N ≥ 220 N	
Resistance to impact: EN 12691/A EN 12691/B		≥ 500 mm ≥ 2000 mm	
Flexibility under low temperature: EN 495-5		≤ -30°C	
UV exposure: EN 1297		Pass	
Hail resistance: EN 13583 Rigid substrate Soft substrate		17 m/s 25 m/s	
Dimensional stability: EN 1107/2		≤ 0.3%	
Resistance to static loading: EN 12730/B		≥ 20 kg	

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A wide range of construction chemical products are manufactured by DCP which include:

- ▲ Concrete admixtures.
- ▲ Surface treatments
- ▲ Grouts and anchors.
- ▲ Concrete repair.
- ▲ Flooring systems.
- ▲ Protective coatings.
- ▲ Sealants.
- ▲ Waterproofing.
- ▲ Adhesives.
- ▲ Tile adhesives and grouts.
- ▲ Building products.
- ▲ Structural strengthening.

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Note:

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