

# DonProof LE

High quality polyester reinforced, UV resistant, PVC roofing membrane



## DESCRIPTION

DonProof LE waterproofing membrane is a high-quality, polyester reinforced thermoplastic PVC waterproofing membrane designed for exposed roofing applications. It combines excellent mechanical properties, and long-term durability under harsh climatic conditions.

DonProof LE is UV-resistant, flame-retardant, and stabilized to withstand both high and low temperature exposure. It is hot-air weldable, forming homogeneous and watertight joints without the use of open flame, ensuring safe and reliable installation. It can be mechanically fastened to the load bearing substrate or installed in a vacuum roof system.

DonProof LE features a lightly textured surface which improves slip resistance during installation and maintenance while providing an aesthetically pleasing finish. It is offered in a range of thicknesses to meet different project requirements.

## APPLICATIONS

DonProof LE is suitable for waterproofing of a wide range of roof constructions, including:

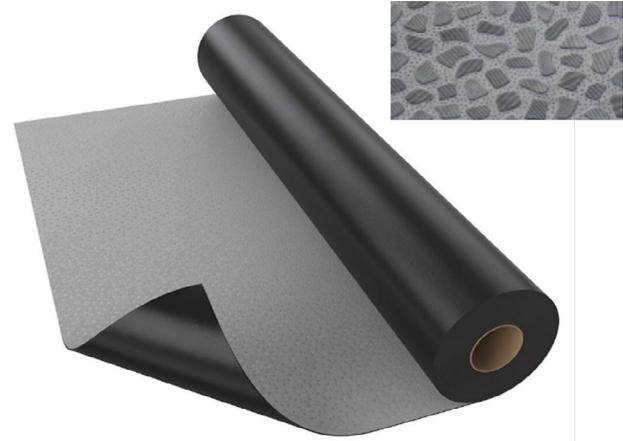
- » Roofs with complex geometry (flat, sloped, or curved).
- » Exposed flat and low-sloped roofs.
- » Vacuum roof systems.
- » Warm / compact roof constructions.
- » Cold / ventilated roof constructions.

## ADVANTAGES

- » UV-resistant.
- » High wind load resistance.
- » Excellent weathering and environmental resistance.
- » Strong joints achieved through hot air welding.
- » Available in different thicknesses.
- » Suitable for exposed roofing applications.
- » Textured surface improves safety during installation and maintenance.
- » Recyclable, low carbon footprint.
- » No open flame welding, enhancing safety during installation.

## STANDARDS

DonProof LE complies with EN 13956 as per the technical properties table.



## METHOD OF USE

DonProof LE must be installed by experienced and qualified personnel.

## SURFACE PREPARATION

Concrete roofs onto which DonProof LE Membrane is to be installed have to be sufficiently cured and dry. Remove any poorly attached materials, sharp objects or contaminations.

## SEPARATION LAYERS

A separation layer must be applied under all conditions to which the roofing membrane is exposed during its life to separate incompatible materials and prevent damage.

- » Migration Barrier Below the Membrane:

Plasticized PVC can react over time with bitumen membranes or polystyrene insulation, causing plasticizer loss. This makes the PVC membrane more rigid and reduces performance, so a barrier is required.

Old bitumen roofs, timber, rubber	140 g/m <sup>2</sup> polypropylene fleece
EPS/XPS-insulation	120 g/m <sup>2</sup> glass fleece

- » Sliding /Leveling Layer Below the Membrane:

Concrete decks require sliding leveling/layer to prevent excessive friction between them and hide irregularities in the substrate.

Smooth concrete or light weight concrete	300 g/m <sup>2</sup> polypropylene fleece
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TECHNICAL PROPERTIES:	DONPROOF LE1.2	DONPROOF LE1.5	DONPROOF LE1.8	DONPROOF LE2.0
Colour:	Black, light grey, dark grey, other colours are available on request			
Thickness: EN 1849-2	1.2 mm ± 10%	1.5 mm ± 10%	1.8 mm ± 10%	2.0 mm ± 10%
Dimensional stability: EN 1107-2	≤ ±0.5%			
Tensile strength (L/T): EN 12311-2 (A)	≥ 1100/1050 N/50 mm	≥ 1100/1050 N/50 mm	≥ 1100/1100 N/50 mm	≥ 1100/1100 N/50 mm
Elongation (L/T): EN 12311-2 (A)	≥ 15%			
Water tightness: EN 1928 (A)	Pass (10 kPa)			
Water vapor resistance (Sd-value): EN ISO 12572	16 m	20 m	24 m	27 m
Impact resistance: EN 12691 (A)	≥ 400 mm	≥ 500 mm	≥ 700 mm	≥ 800 mm
Static load resistance: EN 12730 (C)	≥ 20 kg			
Tear resistance (trapezoidal): EN 12310-2	≥ 200 N			
Joint peel resistance: EN 12316-2	≥ 200 N/ 50 mm			
Joint shear resistance: EN 12317-2	≥ 1000 N/ 50 mm			
Foldability at low temperatures: EN 495-5	≤ -25°C			
Exposure to UV: EN 1297	Pass ≥ 5000 h			
Hail resistance EN 13583 hard substrate soft substrate	≥ 22 m/s ≥ 50 m/s			
External fire performance: EN 13501-5	B <sub>ROOF</sub> (t1, t2, t3, t4)	B <sub>ROOF</sub> (t1)	B <sub>ROOF</sub> (t1, t2, t3, t4)	B <sub>ROOF</sub> (t1, t2, t3, t4)
Reaction to fire: EN 13501-1	Class E			
Dangerous substances:	None			

\*External fire classification depends on roof build-up

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## APPLICATION

Unroll each membrane sheet in the intended direction. Straighten and tighten the sheet to eliminate wrinkles and place 2 - 3 fixings at both ends. Fasteners are then installed along both longitudinal sheet edges at the interval described in the wind load calculation for the roof.

The next sheets are rolled out, stretched and fixed at both ends before being welded to the previous sheet. Fasteners are then installed along the loose longitudinal sheet edge. The line marked along the sheet shows where the overlap is to be (120 mm) and where the fasteners are to be placed (approximately 37 mm from the sheet edge). For 2 m sheet widths, the overlap is 130 mm.

When fixing onto concrete elements, the fixings must never be placed closer than 50 mm from the element edge on concrete and 100 mm on lightweight concrete. Use an automatic hot air welding machine with a 40 mm nozzle.

## REMARKS

- » DonProof LE must not be used/installed loose (apart from vacuum roofs), or with gravel ballast.
- » It's important to make sure that welding is done first, then mechanical fixing.

## PACKAGING

	Width	Length
DonProof LE1.2		20 m
DonProof LE1.5	1.0 m, 1.1 m, 2.0 or 2.2 m	15 m/20 m
DonProof LE1.8		15 m/20 m
DonProof LE2.0	1.0 m or 2.0 m	15 m

## STORAGE

DonProof LE rolls must be stored in their original packaging, away from direct sunlight in cool, dry and frost free conditions and protected at the building site with tarpaulins or similar.

Store the product horizontally on a pallet. Please avoid placing pallets of rolls on top of one another or beneath pallets that hold different materials when transporting or storing them.

If these conditions are exceeded, contact DCP Technical Department for advice.

## CAUTIONS

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

For further information, refer to the Material Safety Data Sheet.



# DonProof LE

## MORE FROM DON CONSTRUCTION PRODUCTS

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.

**Note:**

We endeavour to ensure that any information, advice or recommendation we may give in product literature is accurate and correct. However, because we have no control over where and how products are applied, we cannot accept any liability arising from the use of the products.