

POLYDAN 180-30 P ELAST

High Performance SBS elastomeric 3 kg/m² underlay. Torch Applied.



BBA 10/4787 (PS1)

Bituminous SBS modified membrane reinforced with a heavy non-woven polyester felt. Finished in a quick-melt thermofusible film. Designed for torch-applied applications and Safe2Torch details using hot-air.

Presentation

- Length (cm): 1200
- Width (cm): 100
- Thickness (mm): 2.65
- Product code: 141645

Technical Data

Concept	Value	Standard
Mass per unit area (nominal) (kg/m ²)	3	-
External fire behaviour	PND	UNE-EN 1187; UNE-EN 13501-5
Durability flexibility	-5 ± 5	-
Creep durability (°C)	100 ±10	UN-EN 1110
Elongation at break longitudinal (%)	45 ± 9	UNE-EN 12311-1
Elongation at transverse break (%)	45 ± 9	UNE-EN 12311-1
Watertightness at 10 kPa (Type A)	Pasa	UNE-EN 1928
Water vapour resistance factor (μ)	20.000	UNE-EN 1931
Low temperature flexibility (°C)	<-15	UNE-EN 1109

Concept	Value	Standard
Reaction to fire	E	UNE-EN 11925-2; UNE-EN 13501-1
Resistance to static loading (kg)	>20	UNE-EN 12730
Resistance to root penetration	No Pasa	UNE-EN 13948
Longitudinal tensile strength (N / 5cm)	800 ± 160	UNE-EN 12311-1
Transverse tensile strength (N / 5cm)	500 ± 100	UNE-EN 12311-1
Longitudinal resistance to tearing (nail shank) (N)	PND	UNE-EN 12310-1
Transversal resistance to tearing (nail shank) (N)	PND	UNE-EN 12310-1
Resistance to impact, A (mm)	>1000	UNE-EN 12691
Joint Strength: Welding Shear	650 ± 250	UNE-EN 12317-1
Hazardous substances	PND	-

Additional Technical Data

Concept	Value	Standard
Adhesion of granules (%)	PND	UNE-EN 12039
Dimensional stability at elevated temperatures (longitudinal) (%)	<0.5	UNE-EN 1107-1
Dimensional stability at high temperatures (transversal) (%)	<0.5	UNE-EN 1107-1
Creep resistance at high temperatures (°C)	>100	UN-EN 1110

Standards and Certification

- DTA " POLYDAN JARDÍN".
- BBA 10/4787 Product Sheet 1 "GLASDAN ELAST, ESTERDAN ELAST AND POLYDAN ELAST ROOF WATERPROOFING MEMBRANES".
- In accordance with the UNE-EN 13707 standard 'Flexible sheets for waterproofing - Reinforced bitumen sheets for roof waterproofing - Definitions and characteristics'.
- Complies with CE marking requirements.
- DTA 5/09-2088 "Glasdan ELAST-Esterdan ELAST-Polydan ELAST".

Scope

- Two-layer membrane underlay for the waterproofing of self-protected bonded roofs.
- Improved single-ply membrane underlay for waterproofing of roofs with heavy bonded protection.
- Improved single-ply membrane underlay for waterproofing of heavy unbonded or floating roofs with heavy protection.

- Bottom or top sheet in two-layer membranes for waterproofing of roofs with heavy bonded protection.
- Bottom or top sheet in two-layer membranes for waterproofing of heavy unbonded or floating roofs with heavy protection.

Advantages & Benefits

- High movement capability.
- Helps to increase the durability of the sheet.
- It retains its properties better over time.
- Good anti-piercing protection from mechanical damage.
- High tensile strength and high elongation at break.
- High resistance to tearing.
- High resistance to static and dynamic piercing.
- Rot-proof.
- The membrane can be combined, in two-ply membranes, with a reinforced membrane with glass fibre felt, which provides the waterproofing system with dimensional stability; highly important in bonded systems.
- Improves the performance of mechanically fastened sheets by providing a high wind suction resistance value and optimising the density of fastenings.
- Very stable in the long term.

Instruction for Use

Preparation of the substrate:

The surface of the base substrate shall be resistant, uniform, smooth, clean, dry and free of foreign bodies. In the case of thermal insulation, the boards shall be laid flush with each other and without gaps of more than 0.5 cm between boards.

- Two-ply membrane underlay heavy-duty bonded system and self-protected two-ply membrane underlay. The adhesion of the membrane to the substrate is carried out with a blowtorch. In the case of mortar or concrete substrates, a bituminous primer (Curidán, Impridán 100, Maxdán or Maxdán Caucho) must be applied beforehand. If the substrate is a weldable thermal insulation panel, i.e. finished in asphalt (Rocdán A or Rocdán PIR VA), the primer is not necessary. The overlaps must be welded and shall be 8 cm in both longitudinal and transverse directions.
- Two-ply membrane underlay adhered system in green roofs. The sheet is adhered to the substrate with a blowtorch. In the case of mortar or concrete substrates, a bituminous primer (Curidán, Impridán 100, Maxdán or Maxdán Caucho) must be applied beforehand. The overlaps must be welded and shall be 8 cm in both longitudinal and transverse directions.
- Two-ply membrane underlay, non-adhered or floating system with heavy protection. In this case, the membrane is only welded to the substrate at singular points (parapets, expansion joints, drains, etc.), where a bituminous primer (Curidán, Impridán 100, Maxdán or Maxdán Caucho) has been previously applied. Non-adherence to the substrate must be guaranteed and a separating layer (Danofelt PY 150 or Velo 100) may be necessary between the substrate and the waterproofing membrane. The overlaps shall be welded and shall be 8 cm in both longitudinal and transverse directions.
- Top sheet of two-layer waterproofing membranes with heavy-duty protection. The sheet is laid in the same direction as the bottom sheet, shifting the overlap line by approximately half of the roll. The sheet is fully welded to the bottom sheet with a blowtorch. The overlaps are to be welded, and shall be 8 cm in both longitudinal and transverse directions.

Maintenance Recommendations

- Please refer to DANOSA UK Technical Statement 'Flat Roof Waterproofing – Cleaning and Maintenance Recommendations'

Handling, storage and preservation

- Before moving the pallet, check the condition of the shrink-wrap and reinforce if necessary.
- For high storage, the racks must have three cross members, or braces under the wooden pallet skids.
- For handling with a crane, use a protective net.

Notice

- The information contained in this document and any other advice provided, are given in good faith, based on DANOSA's current knowledge and experience when products are properly stored, handled and applied, in normal situations and in accordance with the recommendations of DANOSA. The information applies only to the application (s) and the product (s) to which reference is expressly made. In case of changes in the parameters of the application, or in case of a different application, consult the DANOSA Technical Service before using the DANOSA products. The information contained herein does not exonerate the responsibility of the building agents to test the products for the application and intended use, as well as their correct application in accordance with current legal regulations. The product images used in our communications are indicative and may differ slightly in color and aesthetic appearance in relation to the final product. Orders are accepted in accordance with the terms of our current General Sales Conditions. DANOSA reserves the right to modify, without prior notice, the data reflected in this documentation. Website: **www.danosa.com** E-mail: **info@danosa.com** Telephone: **+34 949 88 82 10**