

### GLASDAN PRO 30 P.

High performance SBS elastomeric bitumen waterproofing membrane type LBM-30-FV.



BBA 10/4787 (1)

Bituminous sheet with a highly durable LBM(SBS)-30-FV type advanced SBS mastic formulation. It contains a glass fibre felt reinforcement, coated on both sides with a bitumen mastic modified with elastomers (SBS). As a finishing material, it incorporates a thermofusible plastic finishing film on both sides.

#### Presentation

- Length (cm): 1200
- Width (cm): 100
- Thickness (mm): 2.5
- Product code: 141213

#### Technical Data

Concept	Value	Standard
Mass per unit area (nominal) (kg/m <sup>2</sup> )	3	-
External fire behaviour	Broof(t1)	UNE-EN 1187; UNE-EN 13501-5
Durability flexibility	-5 ± 5	-
Creep durability (°C)	100 ±10	UN-EN 1110
Elongation at break longitudinal (%)	NPD	UNE-EN 12311-1
Elongation at transverse break (%)	NPD	UNE-EN 12311-1
Water vapour resistance factor (μ)	>100.000	UNE-EN 1931
Low temperature flexibility (°C)	<-25	UNE-EN 1109

Concept	Value	Standard
Reaction to fire	E	UNE-EN 11925-2; UNE-EN 13501-1
Resistance to static loading (kg)	NPD	UNE-EN 12730
Resistance to root penetration	No pasa	UNE-EN 13948
Longitudinal tensile strength (N / 5cm)	350 ± 100	UNE-EN 12311-1
Transverse tensile strength (N / 5cm)	250 ± 100	UNE-EN 12311-1
Longitudinal resistance to tearing (nail shank) (N)	NPD	UNE-EN 12310-1
Transversal resistance to tearing (nail shank) (N)	NPD	UNE-EN 12310-1
Resistance to impact, A (mm)	NPD	UNE-EN 12691
Joint Strength: Welding Shear	NPD	UNE-EN 12317-1
Hazardous substances	PND	-
Resistance to root penetration	No pasa	UNE-EN 13948

## Additional Technical Data

Concept	Value	Standard
Adhesion of granules (%)	NPD	UNE-EN 12039
Creep resistance at high temperatures (°C)	>100	UN-EN 1110

## Environmental Information

Concept	Value	Standard
Volatile organic compounds (COV's) (µg/m³)	50 (A+)	ISO 16000-6:2006
Post-consumer recycled content (%)	35	-
Manufactured in	Fontanar - Guadalajara (España)	-

## Standards and Certification

- 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'.
- In accordance with the UNE-EN 13970 standard for flexible sheets for waterproofing. Bitumen sheets

for water vapour control. Definitions and characteristics.

- Complies with CE marking requirements.
- DIT 550R/16 "ESTERDAN PENDIENTE ZERO".

## Scope

- Anti-capillary barrier in walls.
- Air and Vapour Control Barrier (AVCL) in roofs and cold stores.
- Bottom or top sheet in two-layer membranes for waterproofing of roofs with heavy bonded and unbonded protection.
- Bottom reinforcement in improved single-ply waterproofing membranes for waterproofing of roofs with heavy bonded, non-bonded or floating protection.

## Advantages & Benefits

- Little thermal variation.
- High dimensional stability.
- Total impermeability to water and water vapour.
- Limits stresses in the waterproofing membrane.
- Allows for adaptation to any type of geometry.
- Allows for working with molten asphalt.

## Support

- Plasticised and self-protected asphalt sheets.
- Compatible thermal insulation products.
- Concrete substrates.
- Mortar substrates.

## Substrate preparation

- The substrate must be free of damp issues and must have completed its setting process.
- The support must be healthy, clean, flat, free of paint, crumbling or poorly adhered parts, release agents, etc. and in general without any substance or particle that may prevent correct adherence.

## 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 board, i.e. finished in asphalt, 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 on 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 with unbonded 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 will be 8 cm in both longitudinal and transverse directions.
- Anti-capillary barrier on walls. A bituminous primer (Curidán, Impridán 100, Maxdán or Maxdán Caucho) must be applied beforehand. For ease of installation, it is recommended to cut the rolls into smaller, more manageable dimensions, adjusting to the width of the wall.

## Indications and Important Recommendations

- In case of new construction and renovation, possible chemical incompatibilities with APP plastomer-modified bitumen sheets shall be taken into account.
- In case of refurbishment, chemical incompatibilities with old waterproofing systems consisting of PVC membranes, modified tar-based mastics or any other, shall be taken into account, and it may be necessary to remove them completely or to use suitable separating layers.
- If it is necessary to adhere to metallic or slightly porous elements, a bituminous primer (IMPRIDAN 100) shall be applied to the entire surface to be welded beforehand.
- This product may form part of a waterproofing system, so all the documents referred to in the Danosa Solutions Manual must be taken into account, as well as all the regulations and legislation that must be complied with in this respect.
- There is no chemical incompatibility between the Danosa range of SBS elastomeric bitumen and APP plastomeric bitumen membranes.
- Not suitable as cap sheet on green roofs; use GARDEN variant.
- Do not use in single-layer system.
- Possible incompatibility between thermal insulation and waterproofing shall be checked.
- A separating layer (DANOFELT or DANODREN) shall be laid before laying the heavy protection (paving, gravel, topsoil, etc).
- Polyurethane foam shall not be sprayed directly on top of the waterproofing without the use of a suitable separating layer (geotextiles, mortar layers, polyethylene film, etc).
- If expansion that could affect the sheet is expected, a geotextile separating layer (Danofelt PY 200) shall be used between the sheet and the extruded polystyrene insulation panels, so that each product expands independently.
- NOTE: For more information on the Danosa systems in which this product is used, please see the document "Waterproofing Solutions".

## Maintenance Recommendations

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

## Warning

- Do not apply on wet or frozen surfaces.

## Handling, storage and preservation

- Before moving the pallet, check the condition of the shrink-wrap and reinforce if necessary.
- The product must be stored in a dry place protected from rain, sun, heat and low temperatures.
- The product must be stored in an upright position.
- Handle with a crane with a protective net.
- Pallets shall not be stacked on top of each other.

## 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**