Waterproofing

GLASDAN 30 P ELAST

SBS elastomeric 3 kg/m² underlay.
Torch applied.



BBA 10/4787 (1)

EPD S-P-01493

GLASDAN 30 P ELAST. is a waterproofing bituminous sheet with non self-protected surface of 3.0 kg/m². Composed of a fibreglass reinforcement and covered on both sides with SBS modified bitumen mastic. A polyethylene film is used as anti-adherent material on both sides. Tested according to standard EN test methods.

Presentation

- Length (cm): 750
- Width (cm): 100
- Thickness (mm): 2.5
- Product code: 141136

Technical Data

Concept	Value	Standard
Mass per unit area (nominal) (kg/m²)	3	-
External fire behaviour	Broof(t1)	UNE-EN 1187; UNE-EN 13501-5
Durability flexibility	-5 ± 5	-
Creep durability (ºC)	100 ±10	UN-EN 1110
Elongation at break longitudinal (%)	>1	UNE-EN 12311-1
Elongation at transverse break (%)	>1	UNE-EN 12311-1
Water vapour resistance factor (µ)	>100.000	UNE-EN 1931

Concept	Value	Standard
Low temperature flexibility (ºC)	<-15	UNE-EN 1109
Reaction to fire	E	UNE-EN 11925-2; UNE-EN 13501-1
Resistance to static loading (kg)	>5	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)	PND	UNE-EN 12310-1
Transversal resistance to tearing (nail shank) (N)	PND	UNE-EN 12310-1
Resistance to impact, A (mm)	>150	UNE-EN 12691
Joint Strength: Welding Shear	PND	UNE-EN 12317-1
Hazardous substances	PND	-
Resistance to root penetration	No pasa	UNE-EN 13948

Addtitional Technical Data

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

Environmental Information

Concept	Value	Standard
Post-consumer recycled content (%)	35	-
Manufactured in	Fontanar - Guadalajara (España)	-

Standards and Certification

- DTA “ POLYDAN JARDÍN”.
- BBA 10/4787 Product Sheet 1 "GLASDAN ELAST, ESTERDAN ELAST AND POLYDAN ELAST ROOF WATERPROOFING MEMBRANES".
- Cahiers des charges “POLYDAN SOUS PROTECTION”.
- 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".
- DIT 567R/16 "ESTERDAN - SELF DAN - POLYDAN UNDERGROUND STRUCTURES".
- DIT 569R/16 “POLYDAN TRAFFIC ROLLED”.
- DTA 5/09-2088 "Glasdan ELAST-Esterdan ELAST-Polydan ELAST".
- Application Document DA39/2013.

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 subsrates.
- Mortar subsrates.

Instruction for Use

- Deck surfaces must be dry, clean and free from sharp projections such as nail heads and concrete nibs.
- When bonding the substrate should be prepared using a primer either Impridan 100, CURIDAN, MAXDAN or MAXDAN CAUCHO at the recommended rate prior to installation of the waterproofing system.
- Where the membranes are adhered to insulation boards, the resistance to wind uplift will be dependent on the cohesive strength of the insulation and the method by which it is secured to the roof deck. This should be taken into account when the insulation material is selected.
- At falls in excess of 5º (1:11) precautions against slippage, and requirements for mechanical fixing should be observed.
- The membrane may be laid in conditions normal to roofing work and must not be laid in rain, snow or heavy fog, nor if the temperature falls below 5ºC, unless precautions against condensation have been taken.

- The roofing layers must always be installed with staggered overlaps and in such a manner that no counter-seams in the direction of the outlets are made.
- Attachment of reinforced bituminous membrane roofing maybe achieved by full bonding, by partial bonding or loose laid (ballasted); the choice should depend upon the type of substrate and the required resistance to wind uplift pressure. BR>- The first layer is installed over the substrate, full bonded, partially bonded, or loose laid (ballasted).
- Fully bonded torch-applied membranes should only be used with non-combustible substrates and with surfaces designed to enable the torch application of subsequent layers. It is possible to install a torch-receivable first layer in hot bitumen, and then torch apply the second or capping sheet, which should be specifically designed for torching. Bonding is achieved by melting the lower surface by torching and pressing the membrane down. Care must be taken not to overheat the membrane. The first layer is installed with side laps of 60 mm and end laps of 75 mm. The top layer/cap sheet is laid over the first layer in the same direction, and fully bonded. The top layer/cap sheets are installed with side laps for the mineral surfaced membranes determined by the selvedge edge and for sanded or plastified top layers a minimum of 75 mm and end laps 100 mm wide.
- When partially bonded either a layer of GLASDAN 800 P PERFORADO or other suitable venting layer is loose-laid across the substrate edge to edge. The first layer is fully bonded over the venting layer in the direction with side laps of 80 mm and end laps of 75 mm. The top layer/cap sheet is laid over the first layer in the same direction, and fully bonded. The top layer/cap sheets are installed with side laps for the mineral surfaced membranes determined by the selvedge edge and for sanded or plastified top layers a minimum of 75 mm and end laps 100 mm wide.
- Loose-laid is possible in ballasted systems. A separating layer is loose-laid over the substrate to act with overlaps of 100 mm. The first layer is loose-laid over the separation layer with side laps of 60 mm and end laps of 80 mm wide. The laps are sealed by torch welding. The top layer is laid over the first layer in the same direction, and fully bonded. The top layer/cap sheets are installed with side laps for the mineral surfaced membranes determined by the selvedge edge and for sanded or plastified top layers a minimum of 75 mm and end laps 100 mm wide.The waterproofing system is ballasted with a proper finishes.
- In all systems, laps between the membrane and any base sheets should be offset by a minimum of 300 mm.

WARNING:

- Attachment of reinforced bituminous membrane roofing san also be achieved by mechanical fastening with screws and stress plates or by nailing.
- Mechanical fastening of membranes is possible by installing a specially manufactured membrane mechanically fastened with screws and stress plates along the lap, with joints then sealed by torching, with subsequent layers fully bonded.
- Nailing fastening of membranes is possible by installing a sacrificial specially manufactured layer mechanically fastened with screws and stress plates, or alternatively nails, with subsequent layers fully bonded.

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**