

GLASDAN AL 80 T 50 P E

Waterproofing sheet of SBS modified bitumen with metallic self-protection.



BBA 10/4787 (1)

Bituminous waterproofing membrane with metallic self-protection, type LBM-45/M-TV. Composed of a glass fabric reinforcement with excellent mechanical performance, coated on both sides with a bitumen mastic modified with elastomers (SBS). A natural-coloured embossed aluminium foil is used as a protective material on the outer side. It incorporates an 8 to 10 cm wide longitudinal strip stripped of aluminium to facilitate overlapping. A plastic film is used as a non-stick material on the inner side.

Presentation

- Length (cm): 500
- Width (cm): 100
- Thickness (mm): 3.5
- Product code: 141236

Technical Data

Concept	Value	Standard
Mass per unit area (nominal) (kg/m ²)	4.5	-
External fire behaviour	Broof(t1)	UNE-EN 1187; UNE-EN 13501-5
Durability flexibility	NPD	-
Creep durability (°C)	NPD	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)	300000	UNE-EN 1931

Concept	Value	Standard
Low temperature flexibility (°C)	<-15	UNE-EN 1109
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)	900 ± 300	UNE-EN 12311-1
Transverse tensile strength (N / 5cm)	900 ± 300	UNE-EN 12311-1
Longitudinal resistance to tearing (nail shank) (N)	200 ± 50	UNE-EN 12310-1
Transversal resistance to tearing (nail shank) (N)	200 ± 50	UNE-EN 12310-1
Resistance to impact, A (mm)	PND	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
Density (kg/m³)	1286	-
Adhesion of granules (%)	NPD	UNE-EN 12039
Creep resistance at high temperatures (°C)	>90	UN-EN 1110
Durabilidad UV; calor y agua: Flexibilidad a baja temperatura (°C)	NPD	-
Durabilidad UV; calor y agua: Fluencia a alta temperatura (°C)	NPD	-

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

- 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.

Scope

- Reinforced vapor barrier (mountain climate, underfloor heating).
- Finishing layer for waterproofing surfaces.
- Second layer of exposed coatings (roofs with a minimum slope of 3%).
- Firewall protection strip on roof.
- Waterproofing of gutters.
- Bridging masonry joints and wooden supports.

Advantages & Benefits

- It has a special embossed aluminium finish with larger dimensions, which improves its installation.
- The metallic finish gives the membranes UV resistance, which is necessary for visible waterproofing layers. Therefore, this membrane can be used as an auxiliary sheet for visible finishes, gutters, parapets, etc.
- Little thermal variation.
- High dimensional stability.
- The plastic-coated longitudinal overlap strip makes it easy to lay on site.
- The membrane, composed of a bitumen mastic modified with plastomers, provides great performance at high and low temperatures, plasticity and resistance to ageing, which leads to greater durability of the sheet and greater safety of the waterproofing membrane.
- Limits deformations.

Instruction for Use

Preparation of the substrate:

- The surface of the base substrate must be resistant, uniform, smooth, clean, dry and free of foreign bodies.
- Auxiliary sheet: Before laying, apply a bituminous primer (CURIDAN, IMPRIDAN 100, MAXDAN or MAXDAN CAUCHO). The sheet is fully welded to the substrate or to the substrate underneath with a blowtorch. The overlaps are to be welded, and shall be 8 cm in both longitudinal and transverse directions. To join the transversal overlap at the ends of the rolls, it is necessary to heat the edges of the lower face in a strip of 8-10 cm and then weld on the end of the previous piece.

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.
- Danosa waterproofing films should be installed preferably within seven months from the date of manufacture.
- Not suitable as cap sheet on green roofs; use GARDEN variant.
- Do not use for waterproofing buried walls.
- Do not use over thermal insulation.
- Special attention must be paid to the execution of the singular points, such as parapets (meetings with vertical and emergent elements), drains, expansion joints, etc.
- To avoid the appearance of whitish stains on the surface of the aluminum sheet, the rolls should be kept in a dry place or protected from rain and humidity under the plastic cover of the pallet or by any other way.
- 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'

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.
- The product will be used on a first-come, first-served basis.
- This product is not toxic or flammable.
- Waterproofing work should not be carried out when the ambient temperature is lower than +5°C for hot air welding.
- Waterproofing work must not be carried out when weather conditions may be detrimental, in particular when it is snowing or there is snow or ice on the roof, when it is raining or the roof is wet, surface dampness >8% according to NTE QAT, or when a strong wind is blowing.
- Pallets shall not be stacked on top of each other.
- 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 as indicated on the pallet label.
- Danosa recommends consulting the safety data sheet for this product, which is permanently available at danosa.com, Knowledge Portal, or it can be requested from our Technical Department.
- In all cases, the Occupational Safety and Hygiene standards, as well as the standards of good construction practice, must be taken into account.
- For further information, please contact our Technical Department.

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

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