

ESTERDAN 30 P ELAST AUTOADHESIVO

Waterproofing sheet of SBS modified bitumen with non-protected surface finished with polyethylene film.



BBA 10/4787 (1)

ESTERDAN 30 P ELAST. AUTOADHESIVO is a waterproofing bituminous self-adhesive membrane. Composed of a non-woven polyester felt reinforcement, covered with SBS modified bitumen mastic, self-adhesive on the lower side. A polyethylene film is used as anti-adherent material on the top side and a siliconized releasable polypropylene film is used on the bottom side.

Presentation

- Length (cm): 1200
- Width (cm): 100
- Thickness (mm): 2.5
- Product code: 141801

Technical Data

Concept	Value	Standard
External fire behaviour	Broof(t1)	UNE-EN 1187
Density (kg/m ³)	1200	-
Durability flexibility	-5 ± 5	-
Creep durability (°C)	100 ±10	UN-EN 1110
Elongation at break longitudinal (%)	45 ±15	UNE-EN 12311-1
Elongation at transverse break (%)	45 ±15	-
Humidity resistance factor	20.000	UNE-EN 1931
Low temperature flexibility (°C)	<-15	UNE-EN 1109

Concept	Value	Standard
Mass per unit area (nominal) (kg/m ²)	3	-
Reaction to fire	E	UNE-EN 11925-2; UNE-EN 13501-1
Resistance to static loading (kg)	>15	UNE-EN 12730
Resistance to root penetration	No pasa	UNE-EN 13948
Longitudinal tensile strength (N / 5cm)	700 ± 200	-
Transverse tensile strength (N / 5cm)	450 ± 150	-
Longitudinal resistance to tearing (nail shank) (N)	NPD	-
Transversal resistance to tearing (nail shank) (N)	NPD	-
Resistance to impact, B (mm)	>900	-
Hazardous substances	PND	-

Additional Technical Data

Concept	Value	Standard
Adhesion of granules (%)	NPD	UNE-EN 12039
Dimensional stability at elevated temperatures (longitudinal) (%)	<0.3	UNE-EN 1107-1
Dimensional stability at high temperatures (transversal) (%)	<0.3	-
Creep resistance at high temperatures (°C)	>100	UN-EN 1110

Environmental Information

Concept	Value	Standard
Volatile organic compounds (COV's) (µg/m ³)	50 (A+)	ISO 16000-6:2006
Recycled content afterword the consumer (%)	35	-
Manufactured in	Fontanar	-

Standards and Certification

- In accordance with the UNE-EN 13707 standard for flexible sheets for waterproofing. Reinforced bituminous sheets for roof waterproofing. Definitions and characteristics.
- In accordance with the UNE-EN 13969 standard for flexible sheets for waterproofing. Bituminous anti-capillary sheets including bituminous sheet for sealing buried structures. Definitions and

characteristics.

- It complies with the requirements of the Technical Building Code (CTE).
- Complies with CE marking requirements.
- DIT 567R/16 "ESTERDAN - SELF DAN - POLYDAN UNDERGROUND STRUCTURES".

Scope

- Waterproofing sheet on the outside of walls.
- Two-ply self-protected membrane underlay mechanically fastened to the deck roof.

Advantages & Benefits

- Absorbs structural movements well.
- Helps to increase the durability of the sheet.
- It retains its properties better over time.
- Good anti-piercing protection from mechanical damage.
- This sheet is suitable for waterproofing buried structures (basement walls) with a favourable technical evaluation (see DIT 567/11 "ESTERDAN - SELF DAN - POLYDAN BURIED STRUCTURES").
- High tensile strength and high elongation at break.
- High resistance to tearing.
- High resistance to static and dynamic piercing.
- Rot-proof.
- The sheet can be combined, in two-ply membranes, with a sheet reinforced with glass fibre felt, which provides the waterproofing system with dimensional stability, of great importance in bonded systems.
- The sheet, being made of a bitumen mastic modified with SBS-type elastomeric polymers, substantially improves other bituminous mastics, providing much better performance in terms of reaction at high and low temperatures, elasticity and resistance to ageing, which leads to greater durability of the sheet and greater safety of the waterproofing membrane.
- 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 must be resistant, uniform, smooth, clean, dry and free of foreign bodies.

In the case of mortar or concrete substrates, first apply a bituminous primer (Curidán, Impridán 100, Maxdán or Maxdán Caucho).

In the case of wooden substrates, an Impridán 100, Maxdán or Maxdán Caucho bituminous primer shall be applied beforehand.

In case the substrate is a thermal insulation board, the compatibility between both materials shall be verified. Application of the sheet:

- The adhesion to the substrate of the sheet is carried out by removing the protective film and pressing outwards to avoid the formation of air bubbles.
- The overlaps must be adhered, 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 previously heat the transversal edge of the lower sheet in a strip of 8-10 cm, eliminating the protective polyethylene film in the bituminous mass and then adhere the end of the following piece.

Waterproofing of walls:

- Previously apply a bituminous primer (Curidán, Impridán 100, Maxdán or Maxdán Caucho).
- The rolls are placed in a vertical position.
- The adhesion of the film to the substrate is done by removing the protective film and pressing outwards to avoid the formation of air bubbles.
- The overlaps must be adhered and should be 8 cm in both longitudinal and transverse directions.
- For easier installation, it is recommended to cut the rolls into smaller, more manageable dimensions.
- To join the transverse overlap at the ends of the rolls, it is necessary to heat the transverse edge of the lower sheet in a strip of 8-10 cm beforehand, removing the protective polyethylene film in the bituminous mass and then adhere the end of the next piece.

Indications and Important Recommendations

- It should be kept in the sun for as short a time as possible to protect it from UV rays.
- In case of new construction and renovation, possible chemical incompatibilities with APP plastomer-modified bitumen sheets shall be taken into account.
- In case of renovation, chemical incompatibilities with old waterproofing consisting of flexible PVC sheets, 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 (geotextiles, mortar layer, polyethylene film, etc).
- 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.
- On flat roofs, it cannot be used as a waterproofing system.
- In case the substrate is a thermal insulation board, the compatibility between the two materials shall be verified.
- In cold weather, it is advisable to slightly heat the support with the blowtorch.
- 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.
- Exposure to the sun can make it difficult to remove the release film. The temperature of the sheet during installation must not exceed 45°C.
- NOTE: For more information on the Danosa systems in which this product is used, please see the document "Waterproofing Solutions".
- It must not be installed when the ambient, product or substrate temperature is below +10°C.
- There is no chemical incompatibility between the Danosa range of SBS elastomeric bitumen and plastomeric bitumen sheets.
- Do not use as a top sheet on green roofs.
- To join the transverse overlap at the ends of the rolls, it is necessary to preheat the transverse edge of the bottom sheet in a strip of 8-10 cm, remove the protective polyethylene film in the bituminous mass and then adhere the end of the next piece.
- It shall be stored in a dry place protected from rain, sun, heat and low temperatures.
- Possible incompatibility between thermal insulation and waterproofing shall be checked.
- A separating layer (DANOFELT or DANODREN) must be laid before laying the heavy protection (paving, gravel, topsoil, etc.), except in the case of waterproofing under tiles.
- 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.

Maintenance Recommendations

- Maintenance requirements for Danosa Roofing Products The following maintenance checks must be adhered to: - A general examination on the condition of the waterproofing and surrounding roof components. - An inspection of all functional roofing elements including skylights, outlets, upstands, penetrations and any other visible roofing components. - Clean outlets, drains, gutters and remove any debris from the roof. - Periodic removal of mildew, moss, herbs or any other kind of vegetation that has been accumulation on the waterproofing. - Periodic removal of possible sediments accumulated on the deck (silt, sledges, slate granules, etc) by occasional water accumulation. - Periodic removal of debris and small objects that may have accumulated on the roof. - Ensure surrounding structural elements are sound such as eaves, flashings, slate tiles and brickwork. - Ensure that the waterproofing is in good condition and there are no blisters, damage or separation. - Review the condition of the waterproofing (adherence to upstands, condition of overlaps, visual appearance, etc) and repair the defects observed. These operations must be carried out twice a year, preferably at the beginning of spring or autumn and must be increased in case of decks or valleys with zero falls. It is also necessary to perform additional maintenance depending on the type of roof, location and proximity of roofs to areas with trees or in areas with high levels of pollution. More details on the document Maintenance and repair recommendations for flat roofs waterproofed with modified bitumen sheets

Handling, storage and preservation

- Before moving the pallet, the condition of the shrink-wrap is checked in order to reinforce it if necessary.
- Danosa recommends consulting the safety data sheet for this product, which is permanently available at www.danosa.com, or it can be requested in writing from our Technical Department.
- The product should be kept in the sun for the shortest time possible to protect it from UV rays
- The product must be stored in a dry place protected from rain, sun, heat and low temperatures.
- The product will be stored horizontally.
- The product will be used on a first-come, first-served basis.
- In cold weather, it is advisable to slightly heat the support with the blowtorch.
- In all cases, the Occupational Safety and Hygiene standards, as well as the standards of good construction practice, must be taken into account.
- This product should not be installed when the ambient, product or support temperature is below +10°C.
- This product is not toxic or flammable.
- Exposure to the sun can make it difficult to remove the release film. The temperature of the sheet during installation must not exceed 50°C.
- 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 further information, please contact our Technical Department.
- For handling with a crane, use a protective net as indicated on the pallet label.

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**