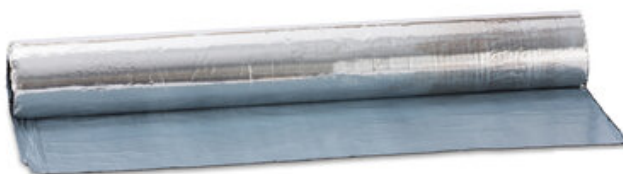


SELF-DAN AL PRO

Self-adhesive SBS elastomeric, easy peel foil faced AVCL.



Innovative Self-Adhesive SBS reinforced bitumen Air and Vapor Control Layer (AVCL). It consists of a self-adhesive low-thickness bituminous compound protected by an aluminium film that forms a barrier against vapour and gases. The aluminium reinforcement provides excellent resistance to puncture and effects of work site foot traffic. Available in 1,00 or 1,50 mm thickness.

- Upper Surface: Aluminium foil
- Lower Surface: Removable protective film

Presentation

- Length (cm): 2000
- Width (cm): 100
- Thickness (mm): 1.5
- Product code: 192120

Technical Data

Concept	Value	Standard
External fire behaviour	NPD	UNE-EN 1187;prUNE-EN 13501-5
Durability flexibility	NPD	-
Creep durability (°C)	NPD	UN-EN 1110
Elongation at break longitudinal (%)	45 ± 15	UNE-EN 12311-1
Elongation at transverse break (%)	45 ± 15	UNE-EN 12311-1

Concept	Value	Standard
Water vapour resistance factor (μ)	>530000	EN 1931
Low temperature flexibility ($^{\circ}\text{C}$)	< -25	EN 1109
Reaction to fire	F	EN 11925-2;EN 13501-1
Resistance to static loading (kg)	5	EN 12730
Resistance to root penetration	N/A	EN 13984
Longitudinal tensile strength (N / 5cm)	250 ± 100	UNE-EN 12311-1
Transverse tensile strength (N / 5cm)	250 ± 100	UNE-EN 12311-1
Longitudinal resistance to tearing (nail shank) (N)	180 ± 50	EN 12310-1
Transversal resistance to tearing (nail shank) (N)	180 ± 50	EN 12310-1
Resistance to impact, A (mm)	400	EN 12691
Joint Strength: Welding Shear	200 ± 100	EN 12317-1
Hazardous substances	NPD	-
Diffusion equivalent air layer thickness (Sd Value) EN 1931 :2002 (m)	>759	-

Additional Technical Data

Concept	Value	Standard
Nominal thickness (mm)	1.5	-
Dimensional stability at elevated temperatures (longitudinal) (%)	<2.5	UNE-EN 1107-1
Dimensional stability at high temperatures (transversal) (%)	<2.5	UNE-EN 1107-1
Creep resistance at high temperatures ($^{\circ}\text{C}$)	>70	UN-EN 1110
Durabilidad UV; calor y agua: Flexibilidad a baja temperatura ($^{\circ}\text{C}$)	NPD	-
Durabilidad UV; calor y agua: Fluencia a alta temperatura ($^{\circ}\text{C}$)	NPD	-

Environmental Information

Concept	Value	Standard
Radon diffusion coefficient (m^2 / s)	1 Exp -13	ISO/DTS 11665-13

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'.
- In accordance with the UNE-EN 13969 standard for 'Flexible sheets for waterproofing - Bitumen damp proof sheets including bitumen basement tanking sheets - Definitions and characteristics'.

Scope

- Radon gas barrier.
- Air and Vapour Control Barrier (AVCL) in roofs and cold stores.

Advantages & Benefits

- Modified with SBS polymers, it achieves much higher performance in behavior at high and low temperatures, elasticity and resistance to aging, which leads to improved durability of the membrane .
- Self-Adhesive, Flame-Free application.
- Outstanding Adhesion
- Easy to install.
- Allows for adaptation to any type of geometry.
- Adapts to the substrate geometry with ease.

Support

- Deck-type metal roof.
- Wooden subrates.
- Concrete or mortar supports.

Instruction for Use

Instructions:

Substrate should be dry and clean from grease, dirt, debris or any other contaminants.

Where applicable, prime surface with the specified bitumen primer in accordance with danosa uk instructions and allow to dry.

Where falls apply, membrane rolls should be rolled up the slope so that waterdrains over and not into membrane overlaps.

For field applications:

- Roll the membrane into position, allowing for 80 mm side overlaps and 150mm head overlaps and cut to length. All overlaps and cross joint should be staggered by a minimum of 300mm.
- Roll back the membrane for a portion of the length (approximately 50%).
- Cut across the removeable protective film underside, and peel the film off.
- Peel the leading edge of the film up and tuck it under the roll to enable the release of the remainder when unrolling.
- Roll the membrane forward, applying even pressure downwards and outwards, avoiding trapping pockets of air.
- Roll back the remaining portion of the membrane to the leading edge of the release film.
- On completion, use a soft broom or roller to apply pressure over the total area, ensuring all overlaps are fully sealed.

For detail applications

- Place the membrane into position and cut to length ensuring all overlaps and cross joints are staggered by a minimum of 300mm .
- Remove protective film from rear of the membrane.
- Apply pressure and consolidate the bond to the substrate, ensuring all overlaps are fully sealed

Indications and Important Recommendations

- 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) must be applied to the entire surface to be bonded beforehand.
- Not suitable on flat roofs as permanent waterproofing layer.
- During cold weather, the substrate, if uncombustible, can be heated with the torch or other means.
- 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 membrane during installation must not exceed 50°C.
- For ease of installation, it is recommended to cut the rolls into smaller, more manageable dimensions.
- 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).
- The use of a roller is recommended to apply more pressure on the tape and improve adhesion.
- It is recommended to protect after installation.
- On porous or not very homogeneous substrates, a bituminous primer must be applied before application.
- 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

- As this product is not designed for uv-exposed conditions danosa advise that when used as an air and vapour control layer, the product is protected as soon as reasonably possible within a normal sequence of work. However, under normal circumstances and conditions this product may function temporary waterproofing layer for up to 2 weeks. Extreme weather conditions may significantly reduce this exposure time. Over-exposed products may require localised repair and/or replacement
- The product must be stored in a dry place protected from rain, sun, heat and low temperatures.
- The product must 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.
- This product should not be installed when the ambient, product or support temperature is below +10°C.
- This product is not toxic or flammable.
- 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 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**