

ASTROFLEX 5000 SUPRA

Compound
SBS
Cold Flexibility
-20°C
CHARACTERISTICS

ASTROFLEX 5000 SUPRA is a waterproofing membrane made of distilled bitumen modified with SBS (styrene-butadiene-styrene) polymers. The high grade elastomeric compound ensures great elasticity, ease of application and superior bonding and tightness of all joints and overlaps.

ASTROFLEX 5000 SUPRA is ideally suited for systems where waterproofing layers are subject to structural solicitations and where superior ageing resistance and flexibility at low temperatures are required.

CARRIER

The carrier is a tough isotropic and rot-proof spunbond polyester carrier, reinforced and stabilised with longitudinal glass yarns that provide superior dimensional stability and reduce to an absolute minimum the risk of shrinkages caused in time by weathering and by swift thermal excursions.

INTENDED USE ACCORDING "CE" MARK STANDARDS

Top layer in multi-layer systems for roof waterproofing (EN 13707)

ASTROFLEX 5000 SUPRA
CERTIFICATION

The composite roofing system including ASTROFLEX 5000 SUPRA as top layer and ASTROFLEX 4000 SUPRA as underlay has been tested and classified in category "EXT. F.AA", in accordance with British Standard BS 476 Part 3:2004 "External Fire Exposure Roof Tests" (Report n°336035).

ASTROFLEX 5000 SUPRA also meets the provisions regarding product documentation given in Norwegian Building Regulations for bituminous waterproofing membranes, including properties related to external fire (B_{roof}(t2) classification). Characteristics, fields of application and conditions are stated in Technical Approval n°20032 (single-layer system) and n°20283 (double-layer system) issued by SINTEF Certification.

AVAILABLE SURFACE FINISHES

Upper surface: self-protection with Black, Dark Grey or coloured mineral slate flakes or granules.

Lower surface: Glossy polypropylene fast burning "torch-on" film.

USE & APPLICATION

ASTROFLEX 5000 SUPRA is recommended as cap sheet layer in multi-layer waterproofing systems, particularly suitable for use on the following: prefabricated concrete structures - concrete and brick structures - wooden roofs - sheet metal structures - tension structures.

Subject to the type of substrate ASTROFLEX 5000 SUPRA shall be installed by means of a propane gas torch, approved adhesives or by mechanical fixing.

For correct installation refer to information provided by Copernit Technical Department.

Properties	Test Method	Unit	ASTROFLEX 5000 SUPRA	Tol.
Length	EN 1848-1	m	8 (-1%)	≥
Width	EN 1848-1	m	1,0 (-1%)	≥
Straightness	EN 1848-1	mm	16 mm X 8 m	max
Unit weight	EN 1849-1	kg/m ²	5,0	±5%
Nominal thickness	EN 1849-1	mm	4,2	±10%
Tensile strength (at break) L/T	EN 12311-1	N/5 cm	815/750	±20%
Elongation (at break) L/T	EN 12311-1	%	45/50	±15
Tear resistance (nail test) L/T	EN 12310-1	N	265/395	±30%
Resistance to static loading	EN 12730 (A)	kg	20	≥
Impact resistance	EN 12691	mm	1000	≥
Dimensional stability	EN 1107-1	%	±0,3	≤
Flexibility at low temperature	EN 1109	°C	-20	≤
Flow resistance at elevated temperature	EN 1110	°C	100	≥
Watertightness (method A)	EN 1928	kPa	60	≥
Resistance to water vapor diffusion (μ)	EN 1931	--	20.000	--
Reaction to fire	EN 13501-1	Class	E	--
External fire exposure roof test	BS 476 Part 3	Class	EXT.F.AA ⁺	--

(+) system related performance referred to the composite roofing system including ASTROFLEX 4000 SUPRA as underlay and ASTROFLEX 5000 SUPRA as top layer.