Product trade name: **BÖRNER K-YS 5500**
Elastomer bitumen torch-on membrane

Product-number: 12412

Product-standard: EN 13707

Length, width: 8.00 m x 1.00 m
Thickness: 4.30 mm
Coating type: Elastomer bitumen
Content of solubility: N/A
Reinforcement: composite reinforcement
Cap sheet: slated
Bottom sheet: laminated film

Polymer bitumen torch-on membrane with composite reinforcement as a single layer of roof insulation.

Characteristics according to EN 13707	**Test method/ Classification**	**Units**	**Requirements/ Critical value**
Visible defects	DIN EN 1850-1	-	no visible defects
Length	DIN EN 1848-1	m	≥ 8.00 m
Width	DIN EN 1848-1	m	≥ 1.00 m
Straightness	DIN EN 1848-1	mm/10 m	≤ 20
Mass per unit area	DIN EN 1849-1	kg/m²	5,5 (- 0,25)
Thickness	DIN EN 1849-1	mm	4,30 (± 0,20)
Water tightness at 200 kPa test pressure	DIN EN 1928 Method B	-	passed
External fire performance	DIN ENV 1187	-	see system check
Reaction to fire	EN ISO 11925-2	-	Class E according to EN 13501-1
Water tightness after stretching at low temperatures	EN 13897	-	npd
Peel resistance of joint	EN 12316-1	N/50 mm	npd
Shear resistance of joint	EN 12317-1	N/50 mm	npd
Tensile properties: maximum tensile force	EN 12311-1	N/50 mm	900 / 700 (± 100)
Tensile: elongation	EN 12316-1	%	50 / 50 (± 25)
Resistance to impact	EN 12691	mm	npd
Resistance to static loading	EN 12730	kg	npd
Resistance to tearing (nail shank)	EN 12310-1	N	npd
Resistance to root penetration	EN 13948	-	npd

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Dimensional stability	EN 1107-1	%	npd
Form stability under cyclic temperature change	EN 1108	%	npd
Flexibility at low temperatures	EN 1109	°C	≤ - 25
Flow resistance at elevated Temperatures	EN 1110	°C	≥ 100
Artificial aging DIN EN 1296	EN 1109 or EN 1110	°C	npd
Adhesion of granules	EN 12039	%	npd
Water vapour transmission properties	EN 1931	-	npd

Customer information:

Purpose:
BÖRNER K-YS 5500 is a polymer bitumen torch-on membrane. In the build up of the flat roof layers this membrane is used as a single layered waterproofing membrane.

Notice:
Please pay attention to the inclination and operational demands!

Application:
The application of **BÖRNER K-YS 5500** is carried out in accordance with the nationally valid regulations for roofs with sealants. With a single layered and loose applied system the membrane can be fixed onto the substructure with a concealed mechanical fastening. The joint overlap is approximately 12 cm.

Advise:
Due to its thermoplastic inlay the membrane must not be overheated.

Loose laying or mechanical fixing of the membrane as well as spots or stripes of heating/adhesion on the surface followed by heating/adhesion of the joint overlaps can cause corrugation if the outside temperature and/or surface temperature are too low.

Please note that the colour of the granules can vary during their useful life due to the effect of weather and other outside agents.

Chemical resistance:
BÖRNER K-YS 5500 is water-resistant as well as resistant to watery solutions of salt, diluted non-oxidising acids and bases. Aliphatic and aromatic hydrocarbons as well as chlorine hydrocarbons, oils and greases loosen **BÖRNER K-YS 5500**.

Storage:
Store upright in a cool and dry place.

Safety data sheet:
Supplementary safety data sheet is available on request.

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