Standard
DIN EN 13859-2

CE

EFFISUS ECOFACADE MEMBRANE

DESCRIPTION

Elastomer sheet for waterproofing from Ethtlen-Propylen-Dien-Terpolymer (EPDM), homogeneous, cured, non-backed.
Elastomer sheets as underlay for walls.

TECHNICAL DATA

Technical data	Standard	Unit	Value	Expression of results
Thickness	EN 1849-2	mm	0.60 / 0.75 / 1.00 / 1.30 / 1.50 ± 0.15	
Length		m	≥ 20	MLV
Width		mm	100 – 1300 ± 0,2%	MDV
Directness		-	Pass	
Mass per unit area		g/m²	750 / 950 / 1250 / 1625 / 1870 ± 25%	MDV
Reaction to fire	EN 13501-1		Class E	Pass
Resistance to water passage	EN 1928 B		W1	
Water vapour propertires μ	EN 1931	-	60.000 ± 20.000	MDV
Resistance to air passage	EN 12114	m³/(m²xhx50 Pa)	≤ 0,1	MLV
Tensile strength	EN 12311-1	N/50mm	≥ 210 / ≥ 260 / ≥ 350 / ≥ 450 / ≥ 460	MDV
Elongation	EN 12311-1	%	≥ 500	
Tear resistance	EN 12310-1	N	≥ 80 / ≥ 80 / ≥ 90 / ≥ 90 / ≥ 130	MDV
Dimension stability	EN 1107-2	%	≤ 0,5	MLV
Foldability at low temperature	EN 1109	ºC	≤ -30	MLV
Weathering by combined continuos stress trough UV-exposure and high temperature according to appendix C	Tensile strength	N/50mm	306/ 414/ 567/ 657 ± 45 / ± 67 / ± 90 / ± 108	MDV
	Elongation	%	450 ± 15%	MDV
	Resistance to water passage	Class W1	W1	

Accompanying Document
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DIN EN 13859-2

EFFISUS BREATHER+ MEMBRANE

DESCRIPTION

Application area: Wall lining membrane behind closed facades.
Film: TEEE monolithic.
Cover and protection spunbond: polypropylene microfiber fleece

TECHNICAL CHARACTERISTICS

Technical characteristics	Standard	Value
Colour		Black
Surface weight	EN 1849-2	100 ± 5 g/m2
Thickness	EN 1849-2	0.45 ± 0.05 mm
Water vapour resistance factor μ	EN ISO 12572	111
sd - value	EN ISO 12572	0.05 ± 0.02 m
g - value		0.25 ± 0.10 MNs/g
Water vapour permeance	ASTM E 96	65.6 US perms
Fire behavior	EN 13501-1	E
Exposure time		3 months
Water column	EN 20811	10 000 mm
Water resistance un-/aged*	EN 1928	W1 / W1
Tensile strength MD/CD	EN 12311-1	210 ± 20 N/5cm / 140 ± 20 N/5cm
Tensile strength MD/CD aged*	EN 12311-1	190 ± 20 N/5cm / 120 ± 20 N/5cm
Elongation MD/CD	EN 12311-1	90 ± 10 % / 90 ± 10 %
Elongation MD/CD aged*	EN 12311-1	70 ± 10 % / 70 ± 10 %
Nail tear resistance MD/CD	EN 12310-1	110 ± 20 N / 140 ± 20 N
*** Artificial ageing by long tern**	EN 1297 / EN 1296	Passed
Flexibility at low temperature	EN 1109	-40ºC
Temperature resistance		-40 ºC a +100 ºC
Coefficient of thermal conductivity		0.17 W/mK

OTHERS

Area of Application
For making walls externally windproof. Installation on boarding, wood-based panels and all insulation mats and boards.

OTHERS

Advantages
Strong 3-ply structure for protecting the wall structure.
Protective function as a result of non-porous functional membrane that actively manages moisture.
High nail tear resistance.
For use behind closed facades.
3 months outdoor exposure.

General conditions
Effisus Breather+ Membranes can be laid flat either at right angles to or along the sub-structure without sagging. Horizontal installation is preferable with regard to water tightness during the construction phase.
The membrane must be secured in areas where water collectively drains off.
Additional measures during the building phase (e.g. covering with tarpaulin) should be taken in the case of occupied buildings or buildings that need particular protection. Covering with tarpaulin should also be considered in the case of extended interruptions to work.

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EFFISUS VAP MEMBRANE

DESCRIPTION

Effisus Vap Membrane is a high-quality and multifunctional vapour barrier for roofs, walls in wood, dry and general construction indoors. Due to the use of highest quality raw-material which is absolutely free of regenerates, it is possible to offer a vapour barrier with a superior ageing-resistance that is especially suitable for airtight bondings.

TECHNICAL DATA

Technical data	Test Method	Value
Material		PEBD Film (low density polyethylene)
Colour		White, 1-colour print
Thickness		200u
Sd-value		≥ 100m (DIN EN 1931:2000)
Flammability	DIN EN 13501-1	Class E
Dimensions		4m x 25m
		2m x 50m
CE Control		Pass
Tensile strength	DIN EN ISO 527-3	
	Lengthwise	≥ 17 N /mm
	Crosswise	≥ 15 N /mm
Tear resistance	DIN EN 12311-2	
	Lengthwise	≥ 170 N/50mm
	Crosswise	≥ 150 N/50mm
Elongation at break	DIN EN 12311-2	
	Lengthwise	≥ 250%
	Crosswise	≥ 400%
Tear strength	DIN EN 12340-1	
	Lengthwise	≥ 50 N
	Crosswise	≥ 50 N
Temperature range		-20ºC to +80ºC
Water resistance		Pass
Core		76.5mm
Storage		In dry rooms from 5 to 25ºC, protected from UV radiation

TECNHICAL DATA

The sd value of 100m effectively prevents the building of condensate in the areas of insulated construction. The technical characteristics allow furthermore a construction without special calculated proof of condensate safety – providing a construction according to DIN 4108.

OTHERS

The usage at the construction sites is significantly improved trough a selection of the raw material: dimensional stability, length and crosswise as well as the high rip resistance allow a very quick and easy application.

Effisus Adjoin GS Tape may especially be used for the bonding of barrier overlaps, penetrations and repair spots. Connections to the constructional elements may generally be realized with Effisus 2Bond GO Tape, bi-adhesive tape.