

**Definition** : Protection insulation of ventilated facade systems from atmospheric and climatic effects with mineral wool

**Application** : Waterproof flexible covers - Part 2: Underlays for walls EN 13859-2, TS EN 13859-2

**Composition** : 93 % Glass Fiber + 7 % Solution

Properties	Test Method	Units	Results	Min.	Max.
Reaction to Fire	EN 13501-1+A1	Class	A2-s1,d0	-	-
Water Vapour Transmission (Sd)	TS EN ISO 12572	m	0.10	-	-
Flexibility at Low Temperature	TS EN 1109	°C	-	-	-20
Thickness	-	mm	0.22 ±5%	-	-
Water Tightness	EN 13859-2, EN 13111	Class	W2	-	-
Mass per Unit Area	TS EN 1849-2	g/m <sup>2</sup>	220	210	230
Max. Tensile Force ( <i>longitudinal</i> )	TS EN 12311-1	N/50mm	455	420	470
Max. Tensile force ( <i>transverse</i> )	TS EN 12311-1	N/50mm	570	490	620
Elongation at Max. Tensile Force ( <i>longitudinal</i> )	TS EN 12311-1	%	4.0	4.0	4.8
Elongation at Max. Tensile Force ( <i>transverse</i> )	TS EN 12311-1	%	4.1	4.0	4.8
Resistance to Tearing ( <i>longitudinal</i> )	TS EN 12310-1	N	60	50	90
Resistance to Tearing ( <i>transverse</i> )	TS EN 12310-1	N	40	30	70

Properties After Ageing	Test Method	Units	Results	Min.	Max.
Artificial Ageing by UV and Heat	TS EN 1297, TS EN 1296	-	-	-	-
Max. Tensile Force ( <i>longitudinal</i> )	TS EN 12311-1	N/50mm	425	420	470
Max. Tensile Force ( <i>transverse</i> )	TS EN 12311-1	N/50mm	495	490	620
Elongation at Max. Tensile Force ( <i>longitudinal</i> )	TS EN 12311-1	%	4.0	4.0	4.8
Elongation at Max. Tensile Force ( <i>transverse</i> )	TS EN 12311-1	%	4.0	4.0	4.8

Additional Properties	Test Method	Units	Results	Min.	Max.
Roll Length	TS EN 1848-2	m	50 & 60	-	-
Roll Width	TS EN 1848-2	m	1.50 & 1.27	-	-
Roll Area	-	m <sup>2</sup>	75	-	-
Roll Weight	-	Kg	16.88 ±5%	-	-
Dimension Stability	TS EN 1107-2	%	1.2	-	2
Resistance to Air Processing	EN 12114	m <sup>3</sup> /(m <sup>2</sup> h 50Pa)	Weather Proof	-	2

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