## Technical data sheet BauderTHERMOFOL U 18 FR PVC Roofing membrane



## 16/07/2024

Product description	Polyester reinforced PVC-P single ply roofing membrane.		
Application fields	Membrane can be mechanically fastened, adhered or loose-laid ballasted. Can be used under green roof landscaping		
Surface	top:	anthracite RAL 7016	
	bottom:	dark grey	
Reinforcement type and weight	synthetic reinforced polyester		
Article number	6118 4000		

Characteristic	Test method	Unit	Value
Visible defects	EN 1850-2	-	no visible defects
Length	EN 1848-2	m	20(-0/+5%)
Width	EN 1848-2	m	1,5(-0,5/+1%)
Straightness	EN 1848-2	mm	< 30
Flatness	EN 1848-2	mm	< 10
Mass per unit area	EN 1849-2	kg/m²	2,1(-5/+10%)
Effective thickness	EN 1849-2	mm	1,8(-5/+10%)
Water tightness	EN 1928 - B	-	passed
Reaction to fire	EN 13501-1	-	class E
Joint peel resistance	EN 12316-2	N/50mm	≥200
Joint shear resistance	EN 12317-2	N/50mm	≥600
Tensile strength Id	EN 12311-2 A	N/50mm	≥1000
Tensile strength td	EN 12311-2 A	N/50mm	≥1000
Elongation Id	EN 12311-2 A	%	≥19
Elongation td	EN 12311-2 A	%	≥19
Resistance to impact hard surface	EN 12691	mm	≥500
Resistance to impact soft surface	EN 12691	mm	≥800
Resistance to static loading hard surface	EN 12730	kg	≥20
Resistance to static loading soft surface	EN 12730	kg	≥20
Tear resistance (length)	EN 12310-2	Ν	> 200

**CE**(07)

Notified body: MFPA Leipzig, 0800 EN 13956 : 2012, EN 13967 : 2012



Notified body: BBA 0836 BS EN 13956

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Tear resistance (transversal)EN 12310-2N> 200Resistance to root penetrationEN 13948/FLL-passedDimensional stability IdEN 1107-2%s0,3Flexibility at low temperatureEN 495-5°Cs-30UV exposureEN 1297-passed, class 0 (> 5000 h )Durability Watertightness after artificial ageingEN 1296 - EN 1928 (B 24h/60kpa)-passedDurability Watertightness after exposure to chemicalsEN 1847 - EN 1928 (B 24h/60kpa)-passedHail resistance hard surfaceEN 13583m/s≥25Hail resistance soft surfaceEN 1931-20000 (±30%)Sd-valueEN 1931m36Nail Shaft testEN 12310-1N>400	Characteristic	Test method	Unit	Value
Dimensional stability IdEN 1107-2%≤0,3Flexibility at low temperatureEN 495-5°C≤-30UV exposureEN 1297-passed, class 0 ( > 5000 h )Durability Watertightness after artificial ageingEN 1296 - EN 1928 (B 24h/60kpa)-passedDurability Watertightness after exposure to chemicalsEN 1847 - EN 1928 (B 24h/60kpa)-passedHail resistance hard surfaceEN 13583m/s≥25Hail resistance soft surfaceEN 1931-20000 (±30%)Sd-valueEN 1931m36Nail Shaft testEN 12310-1N≥400	Tear resistance (transversal)	EN 12310-2	N	> 200
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Internet in portion of the constraint of the const	Dimensional stability Id	EN 1107-2	%	≤0,3
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artificial ageing(B 24h/60kpa)Image: Comparison of the second seco	UV exposure	EN 1297	-	passed, class 0 ( > 5000 h )
exposure to chemicals(B 24h/60kpa)ProcessionHail resistance hard surfaceEN 13583m/s≥25Hail resistance soft surfaceEN 13583m/s≥46Water vapour transmissionEN 1931-20000 (±30%)sd-valueEN 1931m36Nail Shaft testEN 12310-1N>400	, ,		-	passed
Hail resistance soft surfaceEN 13583m/s≥46Water vapour transmissionEN 1931-20000 (±30%)sd-valueEN 1931m36Nail Shaft testEN 12310-1N>400			-	passed
Water vapour transmission     EN 1931     -     20000 (±30%)       sd-value     EN 1931     m     36       Nail Shaft test     EN 12310-1     N     >400	Hail resistance hard surface	EN 13583	m/s	≥25
sd-value     EN 1931     m     36       Nail Shaft test     EN 12310-1     N     >400	Hail resistance soft surface	EN 13583	m/s	≥46
Nail Shaft test EN 12310-1 N > 400	Water vapour transmission	EN 1931	-	20000 (±30%)
	sd-value	EN 1931	m	36
External fire performance CEN/TS 1187 - Product has been fire tested as part of a system assembly and this	Nail Shaft test	EN 12310-1	Ν	> 400
information can be obtained in the Fire Test Report available from Bauder Ltd	External fire performance	CEN/TS 1187	-	

Product storage guidance	Store the materials outdoors, laid horizontal/flat and off the ground with suitable robust UV resistant, flame-retardant tarpaulin. Ensure the product(s) are clear of buildings and any other storage areas. Where there are storage containers on site, these may be suitable for storing products.
Pallet size	Pallet size = 16 rolls/480m <sup>2</sup> per pallet
Packaging material	The product will be delivered on wooden pallets with polyethylene overwrap to protect the product. Each roll has a recycled cardboard core. Recycled nylon straps contain the rolls on a pallet.
Handling/PPE	All persons using the product should be fully aware of the manual handling methods as roofing materials are heavy and can cause serious injury. When using/handling the product, installers should be provided with, and wear, suitable personal protective equipment.
Disposal guidance	Waste of the product is not a hazardous substance. Observe local regulations. European Waste Catalogue EWC number 170203 "Plastic Mirror Non hazardous"
Re-use options of product	Please refer to EPD stated below in Certification and environmental information.
Further information/documents	Current documents such as DoC's, DoP's (where relevant), brochures, installation guides, etc. can be found by visiting www.bauder.co.uk
Certification and environmental information	BBA Certificate No.: 06/4354
	FM Approval: BauderTHERMOFOL U membrane is part of a series of FM-global tested assemblies.

Environmental Product Declaration: EPD-BAU-20130189-IBCC-DE

International Standards Organisation (ISO):



Notified body: MFPA Leipzig, 0800 EN 13956 : 2012, EN 13967 : 2012



Notified body: BBA 0836 BS EN 13956

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ISO 9001:2015 Quality Management Certificate 70499/03-15\_e (Germany)

ISO 14001:2015 Environmental Management Certificate 70499/03-15\_d (Germany)

ISO 50001: 2011 Energy Management Certificate 70499/03-15\_c (Germany)

Safety Data Sheet

Safety Data Sheets are designed to provide the necessary information to recipients of substances and mixtures in the EU & UK. This product is classed as an article; therefore, this product does not have a requirement for a Safety Data Sheet.



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