

Technical data sheet

BauderTHERMOFOL U 18 FR

PVC Roofing membrane



24/03/2026

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:	black
Reinforcement type and weight	synthetic reinforced polyester	
Article number	6118 4000	
Website link	https://www.bauder.co.uk/products/thermofol-u-fr	



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/m ²	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	N	> 200



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

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Intended use of this product should be verified with Bauder to ensure suitability and compliance with applicable guidance, regulations, legislations, project requirements, specifications, and installation techniques.

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Characteristic	Test method	Unit	Value
Tear resistance (transversal)	EN 12310-2	N	> 200
Resistance to root penetration	EN 13948/FLL	-	passed
Dimensional stability Id	EN 1107-2	%	≤0,3
Flexibility at low temperature	EN 495-5	°C	≤ -30
UV exposure	EN 1297	-	passed, class 0 (> 5000 h)
Durability Watertightness after artificial ageing	EN 1296 - EN 1928 (B 24h/60kpa)	-	passed
Durability Watertightness after exposure to chemicals	EN 1847 - EN 1928 (B 24h/60kpa)	-	passed
Hail resistance hard surface	EN 13583	m/s	≥25
Hail resistance soft surface	EN 13583	m/s	≥46
Water vapour transmission	EN 1931	-	20000 (±30%)
sd-value	EN 1931	m	36
Nail Shaft test	EN 12310-1	N	> 400
External fire performance	CEN/TS 1187	-	Product has been fire tested as part of a system assembly and this information can be obtained in the Fire Test Report available from Bauder Ltd

Normative references

For undated references, the latest edition of the referenced document (including any amendments) applies.

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/480m² 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 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



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International Standards Organisation (ISO):

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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