

# Technical data sheet

## BauderTHERMOFOL U 18 FR

### PVC Roofing membrane



16/07/2024

<b>Product description</b>	Polyester reinforced PVC-P single ply roofing membrane.	
<b>Application fields</b>	Membrane can be mechanically fastened, adhered or loose-laid ballasted. Can be used under green roof landscaping	
<b>Surface</b>	top:	anthracite RAL 7016
	bottom:	dark grey
<b>Reinforcement type and weight</b>	synthetic reinforced polyester	
<b>Article number</b>	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/m <sup>2</sup>	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 ld	EN 12311-2 A	N/50mm	≥1000
Tensile strength td	EN 12311-2 A	N/50mm	≥1000
Elongation ld	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



Notified body: BBA 0836  
BS EN 13956

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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

#### 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](http://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):



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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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