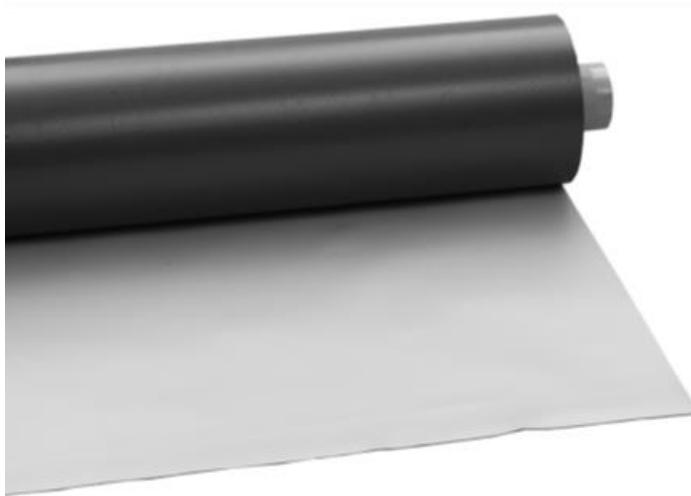



PRODUCT DATA SHEET

Bauder Thermofol U12 Membrane

Bauder Thermofol U12 Membrane is a 1.2mm gauge polyester reinforced Poly Vinyl Chloride membrane (PVC). The product is highly flexible due to the incorporation of internal plasticizers during the manufacturing process. This combination of materials gives high tensile strength, good thermal stability, chemical resistance and flexibility. Primarily employed on mechanically fastened installations, although can be adhered or loose laid ballasted under certain circumstances.



PRODUCT INFORMATION AND TECHNICAL PERFORMANCE		
Weights and Sizes	Unit	Value
Roll width	m	1.5
Roll length	m	20
Thickness	mm	1.2
Weight	kg/m ²	1.40
Reinforcement		Pre-coated cross-weave polyester

SURFACE FINISHES	MEMBRANE COLOURS
Top:	Light Grey – RAL 7035 
Bottom:	Dark Grey

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PRODUCT DATA SHEET

PRODUCT INFORMATION AND TECHNICAL PERFORMANCE			
Characteristics	Test method	Unit	Value
External fire performance*	EN 13501-5		No performance declared
Reaction to fire	EN 13501-1		Class E according to EN 13501-1
Watertightness method B			Passed
Tensile force	md	N/mm	≥ 1000/50
	cd	N/mm	≥ 1000/50
Elongation at maximum tensile force	md	%	≥ 19
	cd	%	≥ 19
Root Resistance			No performance declared
Resistance to impact	Hard surface	mm	> 300
	Soft surface	mm	> 600
Resistance to static loading	Hard surface	kg	≥ 20
	Soft surface	kg	≥ 20
Tear resistance		N	> 200
Joint peel resistance		N/mm	≥ 200/50
Joint shear resistance		N/mm	≥ 600/50
Durability		h	Passed
Foldability		°C	≤ -30
Dangerous substances			No performance declared

* Determination of external fire performance is a system test, which can be influenced by system components, which are not produced or sold by Bauder Limited, thus performance for each product cannot be given.

CERTIFICATION AND ENVIRONMENTAL INFORMATION	
BBA Certificate	BBA Fire Rating – Test results indicate the product to be designated as being Un-Restricted 06/4354
FM Certificate	Assembly 229690 (other assemblies available)
Environmental Product Declaration (EPD)	EPD -BAU-20130188-IBCC-DE
International Standards Organisation (ISO)	ISO 9001:2015 Quality Management Certificates EN1271 (UK) and 70499/03-15_e (Germany). ISO 14001:2015 Environmental Management Certificates A10552 (UK) and 70499/03-15_d (Germany). ISO 50001: 2011 Energy Management Certificate 70499/03-15_c
BRE Green Guide generic product rating	A+

INSTALLATION GUIDANCE
Refer to the PVC Application Instructions Bauder Thermofol Guide.

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PRODUCT DATA SHEET

PRODUCT INFORMATION AND TECHNICAL PERFORMANCE (Black 11pt)				
Characteristic (black 10pt)	Test method	Unit	Value	
Length (8pt text)	DIN EN 1848-1	m	5.0	
Width	DIN EN 1848-1	m	1	
Thickness	DIN EN 1849-1	mm	5.2	
Flexibility at low temperature	DIN EN 1109	°C	≤ -36	
Flow resistance at elevated temperature	DIN EN 1110	°C	≥ +120	
Tensile properties: max. tensile force	DIN EN 12311-1	N / 50 mm	length: ≥ 1000	transverse: ≥ 1000
Tensile properties: elongation	DIN EN 12311-1	%	length: ≥ 45	transverse: ≥ 45
Straightness	DIN EN 1848-1	mm / 10m	≤ 20	
Watertightness type A and T	DIN EN 1928 Verf. B	-	passed	
Reaction to fire	DIN EN ISO11925-2	-	class E according to DIN EN 13501-1	
External fire performance	DIN V ENV 1187	-	B _{ROOF} (t1)	
Visible defects	DIN EN 1850-1	-	no visible defects	
Peel resistance of joint	DIN EN 12316-1	N / 50 mm	nvs	
Shear resistance of joint	DIN EN 12317-1	N / 50 mm	nvs	
Resistance to impact	DIN EN 12691	mm	nvs	
Resistance to static loading	DIN EN 12730	kg	nvs	
Dimensional stability	DIN EN 1107-1	%	nvs	
Artificial ageing DIN EN 1296	DIN EN 1109	°C	nvs	
	DIN EN 1110	°C	nvs	

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PRODUCT DATA SHEET

CERTIFICATION AND ENVIRONMENTAL INFORMATION	
BBA Certificate	
Environmental Product Declaration (EPD)	
International Standards Organisation (ISO)	ISO 9001:2015 Quality Management Certificates EN1271 (UK) and 70499/03-15_e (Germany). ISO 14001:2015 Environmental Management Certificates A10552 (UK) and 70499/03-15_d (Germany). ISO 50001: 2011 Energy Management Certificate 70499/03-15_c
BRE Green Guide generic product rating	
Ozone depletion potential (ODP)	
Global warming potential (GWP)	
Recycled content	

INSTALLATION GUIDANCE
This text is specifier related and not contractor focused.

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