

# Technical data sheet

## BauderTHERMOPLAN T 20

### FPO Roofing membrane



V3 16/11/2022

<b>Product description</b>	Polyester reinforced flexible polyolefin membrane (FPO), an alloy of thermoplastic and rubber.	
<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:	pearl white RAL 1013
	bottom:	black
<b>Reinforcement type and weight</b>	synthetic reinforced polyester	
<b>Article number</b>	6620 0150	



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>	2,4(-5/+10%)
Effective thickness	EN 1849-2	mm	2,0 (-5/+10%)
Water tightness	EN 1928 - B	-	passed
Reaction to fire	EN 13501-1	-	class E
Joint peel resistance	EN 12316-2	N/50mm	≥300
Joint shear resistance	EN 12317-2	N/50mm	≥500
Tensile strength ld	EN 12311-2 A	N/50mm	≥1200
Tensile strength td	EN 12311-2 A	N/50mm	≥1200
Elongation ld	EN 12311-2 A	%	≥19
Elongation td	EN 12311-2 A	%	≥19
Resistance to impact hard surface	EN 12691	mm	≥900
Resistance to impact soft surface	EN 12691	mm	≥1250
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	> 400



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



Notified body: BBA 0836  
BS EN 13956

# Technical data sheet

## BauderTHERMOPLAN T 20

### FPO Roofing membrane



Characteristic	Test method	Unit	Value
Tear resistance (transversal)	EN 12310-2	N	> 400
Resistance to root penetration	EN 13948/FLL	-	passed
Dimensional stability	EN 1107-2	%	≤0,3
Flexibility at low temperature	EN 495-5	°C	≤ -30
UV exposure	EN 1297	-	passed ( > 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	≥31
Hail resistance soft surface	EN 13583	m/s	≥42
Water vapour transmission	EN 1931	m	200000 (±30%)
Exposure to bitumen	EN 1548	-	passed
Nail Shaft test	EN 12310-1	N	> 700
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

<b>Product storage guidance</b>	Store single-ply membranes in clean, dry conditions. Leave membrane in its original packaging until installation to reduce requirement for seam activation/cleaning.
<b>Pallet size</b>	Pallet size = 14 rolls/280m <sup>2</sup> per pallet
<b>Packaging material</b>	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.
<b>Handling/PPE</b>	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.
<b>Disposal guidance</b>	Waste of the product is not a hazardous substance. Observe local regulations. European Waste Catalogue EWC number 170203 "Plastic Mirror Non hazardous"
<b>Re-use options of product</b>	Please refer to EPD stated below in Certification and environmental information.
<b>Further information/documents</b>	Current documents such as DoC's, DoP's (where relevant), brochures, installation guides, etc. can be found by visiting <a href="http://www.bauder.co.uk">www.bauder.co.uk</a>
<b>Certification and environmental information</b>	<p><b>BBA Certificate No.:</b> 04/4120</p> <p><b>FM Approval:</b> BauderTHERMOPLAN T membrane is part of a series of FM-global tested assemblies.</p> <p><b>Environmental Product Declaration:</b> EPD-BAU-20130189-IBCC-DE</p>



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



Notified body: BBA 0836  
BS EN 13956

# Technical data sheet

## BauderTHERMOPLAN T 20

### FPO Roofing membrane



#### 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.



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



Notified body: BBA 0836  
BS EN 13956