

BauderTHERM DS 1 DUO

Technical Data Sheet

Type of application:	Cold self-adhesive elastomer bitumen membrane as vapour barrier with thermally activated stripes on top		
Surface	top:	Foil, thermally activated stripes	
	bottom:	Pull-off foil, cold self-adhesive compound	
Reinforcement	type and weight:	Aluminium-polyester-combination + glass fleece	
Article number	1661 0000		

Characteristic	Test method	Unit	Value
Length	DIN EN 1848-1	m	7.5
Width	DIN EN 1848-1	m	1.08
Thickness	DIN EN 1849-1	mm	4
Flexibility at low temperature	DIN EN 1109	°C	≤ -25
Flow resistance at elevated temperature	DIN EN 1110	°C	≥ +70
Tensile properties: max. tensile force	DIN EN 12311-1	N / 50 mm	length: ≥ 400 transverse: ≥ 300
Tensile properties: elongation	DIN EN 12311-1	%	length: ≥ 2 transverse: ≥ 2
Tear propagation resistance	DIN EN 12310-1	N	≥ 150
Straightness	DIN EN 1848-1	mm / 10m	≤ 20
Watertightness type A	DIN EN 1928 Verf. B	-	passed
Water vapour transmission properties (sd-value)	DIN EN 1931	m	≥ 1500
Reaction to fire	DIN EN ISO11925-2	-	class E according to DIN EN 13501-1
External fire performance ^{a)}	DIN EN 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 = no value specified

^{a)} The determination of the method for external fire performance is a system test that can be influenced by system components which are not produced or sold by Bauder GmbH & Co. KG. A performance for the single product can therefore not be stated.

The declared values are determined statistically and are subject to tolerances.



(06)
DIN EN 13970

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Product Information Sheet

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Product description	Cold self-adhesive elastomeric bitumen membrane with aluminium-polyester and glass fleece composite reinforcement.
Field of application	Cold self-adhesive elastomeric bitumen membrane for use as vapour barrier membrane under different types of thermal insulation.
Service description	<p>BauderTHERM DS 1 DUO is a cold self-adhesive membrane at the bottom side and has quickly-activated thermal stripes at the top side for adhering thermal insulation material on top of it. Further advantage is the integrated vapour pressure equalizing layer function. The two overlap areas are equipped differently, the blue joint is self-adhesive and the red joint is for welding either with a torch or hot air. If the overlap is welded, it functions as temporary sealing. BauderTHERM DS 1 DUO has a high diffusion resistance, a high stepping stability and resistance to alkali.</p> <p>Installation:</p> <p>Lay BauderTHERM DS 1 DUO parallel to the top belts of the trapezoidal metal sheet. The longitudinal joints of the membrane should always be placed on the top belts and adhered properly (pressing with roll).</p> <p>Install BauderTHERM DS 1 DUO on wooden substructures as vapour barrier and separating layer by removing just one joint strip and lay just loosely with mechanical fastening according to DIN EN 1991-4.</p> <p>On primed concrete substructure activate the bottom side bitumen of the membrane thermally, e.g. by flaming the membrane from the top side and laying thermal insulation boards onto it.</p> <p>Place joints shifted. Head joints should overlap 12-15 cm and are to be welded with a torch or hot air firmly, so that a welding rope appears.</p> <p>For roof slopes of $>3^\circ$ the thermally adhered thermal insulation should be secured additionally against slipping.</p> <p>After the installation the membrane should be covered with further layers within max. 2 weeks. Please consider laying instructions.</p>
Storage	Store Bauder bitumen membranes vertically and protected against UV-radiation, humidity and heat. In cold season the rolls possibly have to be tempered before.
Waste handling	Bitumen waste can be disposed with an ordinary public waste or similar trade waste (European waste catalogue EWC number 170302 „asphalt-tarless“)