



KÖSTER ECB 2.0 F

Technical Data Sheet RE 820 F

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Ethylene Copolymer Bitumen based waterproofing membrane with centrally embedded glass fiber mesh and fleece laminated underside

Features

- uniform material quality (no difference between upper and lower side)
- homogeneous seam bonding with hot air welding
- temperature and weather resistant
- aging and rot resistant
- high cold flexibility (\leq -50 °C)
- UV-stable
- root resistant
- compatible with bitumen
- compatible with polystyrene
- suitable for all types of insulation
- resistant against normal mechanical stresses
- resistant to microorganisms and rodent attack
- environmentally friendly
- free of softeners and chlorine
- safe for health, water, soil, and plants
- recyclable

Technical Data

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Fields of Application

KÖSTER ECB Roofing and Waterproofing Membranes are used to waterproof unventilated and ventilated flat roofs, pitched roofs, green roofs, terraces, balconies, roof gardens and underground garages with ballast and in cases of direct exposure to weathering. KÖSTER ECB Roofing and Waterproofing Membranes can be used for the waterproofing of wet rooms and tanks.

Application

For the application of KÖSTER ECB Membranes, please adhere to the KÖSTER Installation Instructions for roofing membranes.

Packaging

RE 820 052 F	2.0 mm x 0.525 m x 20 m
RE 820 105 F	2.0 mm x 1.05 m x 20 m
RE 820 150 F	2.0 mm x 1.50 m x 20 m
RE 820 210 F	2.0 mm x 2.10 m x 20 m

Related products

KÖSTER ECB 2.0 U	Prod. code RE 820 052 U
KÖSTER PUR Membrane Adhesive	Prod. code RT 101
KÖSTER 2C PUR Membrane Adhesive	Prod. code RT 104 001
KÖSTER External Corner black 90	Prod. code RT 901 001 B
degrees	
KÖSTER Internal Corner black 90	Prod. code RT 902 001 B
degrees	
KÖSTER TPO Metal Composite Sheet	Prod. code RT 910 002 B
KÖSTER TPO Metal Composite Coil	Prod. code RT 910 030 B
black	

The information contained in this technical data sheet is based on the results of our research and on our practical experience in the field. All given test data are average values which have been obtained under defined conditions. The proper and thereby effective and successful application of our products is not subject to our control. The installer is responsible for the correct application under consideration of the specific conditions of the construction process. This may require adjustments to the recommendations given here for standard cases. Specifications made by our employees or representatives which exceed the specifications contained in this technical guideline require written confirmation. The valid standards for testing and installation, technical guidelines, and acknowledged rules of technology have to be adhered to at all times. The warranty can and is therefore only applied to the quality of our products within the scope of our terms and conditions, not however, for their effective and successful application. This guideline has been technically revised; all previous versions are invalid.

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Product description:	KÖSTER ECB F 2.0 F	
Description according to DIN 20000-201	DE/E1-ECB-BV-E-GV-PV-2,0	
Strip or full surface adhesion	X	
oose laying under ballast and under wear surfaces	х	
Mechanically fastened, without ballast	X	
Reinforcement	Centrally embedded glass fiber mesh	
amination	fleece laminated underside	
Color	Black	
/isible defects	Free of visible defects	
ength according to DIN EN 1848-2	20 m ¹⁾	
Nidth according to DIN EN 1848-2	2100/1500/1050/525 mm	
Straightness according to DIN EN 1848-2	≤ 50 mm	
Flatness according to DIN EN 1848-2	≤ 10 mm	
Area related weight according to DIN EN 1849-2	2010 g /m²	
Nominal thickness	3.0 mm	
Nater tightness according to DIN EN 1928 (method B)	watertight	
Reaction to liquid chemicals including water according to	passed	
DIN EN 1847		
External fire exposure according to DIN V ENV 1187; DIN 4102-7; DIN 13501-5	B _{ROOF} (t1) ²⁾	
Reaction to fire according to DIN EN ISO 11925-2; EN 13501-1	Class E	
Resistance to shock loads (Hail) according to DIN EN 13583		
Rigid Substrate	≥ 30 m/s	
Flexible Substrate	≥ 45 m/s	
Peel strength of the overlap seam according to DIN EN 12316-2	Type of failure: 100% C	
	\rightarrow No failure of the seam	
Weld seam shear resistance according to DIN EN 12317-2	Failure outside of the seam	
Water vapor diffusion resistance according to	S _d = 350 m	
DIN EN 1931	μ = 175.000	
Elongation at break according to DIN EN 12311-2 (method B)	≥ 6 N/mm²	
Elongation at break according to DIN EN 12311-2 (method B)	≥ 600 %	
Resistance to shock loads according to DIN EN 12691		
Substrate Al Plate (method A)	≥ 900 mm	
Substrate EPS (Method B)	≥ 1250 mm	
Resistance to static loading according toDIN EN 12730		
Substrate EPS (Method A)	≥ 20 kg (tight)	
Substrate Concrete (Method B)	\geq 20 kg (tight)	
Tear continuation resistance according to DIN EN 12310-2	≥ 250 N	
Root penetration resistance 3)	given	
Dimensional stability according to DIN EN 1107-2	≤ 0.25 %	
Folding at low temperatures according to DIN EN 495-5	≤ -50 °C	
Behavior under UV irradiation, elevated temperatures, and water according to DIN EN 1297 (1000 h)	passed: Level 0	
Dzone resistance according to DIN EN 1844	passed: Cracking stage 0	
Behavior upon exposure to bitumen according to DIN EN 1548	passed	

1) Special lengths available on request 2) Requirements are met for roofs tested by KÖSTER in Germany. Further information can be requested from KÖSTER 3) Applies only to green roofs

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