



## KÖSTER ECB 2.0

**Technical Data Sheet RE 820** 

Prod. code RT 914 001 S

Prod. code RT 914 002 A

Prod. code RT 915 004

Prod. code RT 920 075

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# Ethylene Copolymer Bitumen (ECB) based waterproofing membrane with centrally embedded glass fiber mesh

100

MÖSKTER Roof Drain Vertical DN 125

KÖSTER Roof Drain Angled DN 70

KÖSTER System Roof Vent DN 100

for roof drain without TPO-seal

KÖSTER Vapor Barrier FR

KÖSTER Universal Roof Drain Extension Prod. code RT 914 003 A

KÖSTER Base for System Roof Vent DN Prod. code RT 915 005

### 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**

See last page

#### **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 wet rooms, tanks, waterproofing horizontal and vertical surfaces of structures and/or structural members according to DIN EN 18533.

#### Application

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

#### Packaging

0.05 00
) mm x 0.25 m x 20 m
0 mm x 0.35 m x 20 m
) mm x 0.525 m x 20 m
0 mm x 0.75 m x 20 m
0 mm x 1.05 m x 20 m
) mm x 1.50 m x 20 m
0 mm x 2.10 m x 20 m
Prod. code RE 820 052
Prod. code RT 102
Prod. code RT 901 001
Prod. code RT 902 001

KÖSTER TPO Metal Composite Sheet	Prod. code RT 910 002 B
KÖSTER TPO Metal Composite Coil	Prod. code RT 910 030 B

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 site and for the final results 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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0761 15	KÖSTER BAUCHEMIE AG Dieselstraße 1-10, 26607 Aurich KÖSTER ECB 2.0 EN 13956 0761-CPR-0422 EN 13967 0761-CPR-0423 Roofing- und Waterproofing membrane from Ethylene-Copolymer- Bitumen with embadded glass fleece	
Length according nach DIN EN 1848-2	20 m <sup>1)</sup>	
Width according DIN EN 1848-2	2,10; 1,50; 1,05; 0,75; 0,525; 0,35; 0,25 m	
Nominal thickness DIN EN 1849-2	2,0 mm	
	DIN EN 13956: 2012 Flexible sheets for waterproofing - Plastic and rubber sheets for roof waterproofing	DIN EN 13967:2012 Flexible sheets for waterproofing - Plastic and rubber damp proof sheets including plastic and rubber basement tanking sheet
Description according to DIN SPEC 20000-201 / 20000-202	DE/E1-ECB-BV-E-GV-2,0	BA-ECB-BV-E-GV-2,0
Color	black	black
Visible defects according to DIN EN 1850-2	Free of visible defects	Free of visible defects
Geradheit nach to DIN EN 1848-2	≤ 50 mm	≤ 50 mm
Flatness according to DIN EN 1848-2	≤ 10 mm	
Area related weight according to DIN EN 1849-2	2010 g /m <sup>2</sup>	2010 g /m <sup>2</sup>
Water tightness according to DIN EN 1928 (Verf. B)	400 kPa/72h dicht	400 kPa/72h dicht
Reaction to liquid chemicals including water according to DIN EN 1847	passed (Verf. B)	watertight (Verf. A)
External fire exposure according to DIN CEN/TS 1187; DIN 4102-7; DIN EN 13501-5	Broof(t1) <sup>2)</sup>	-
Reaction to fire according to EN 13501-1 Resistance to shock loads (Hail) according to DIN EN 13583	Class E	Classe E
Rigid Substrate	≥ 34 m/s	-
Flexible Substrate	$\geq$ 45 m/s	
Peel strength of the overlap seam according to DIN EN 12316-2	> 400 N/50 mm	-
Weld seam shear resistance according to DIN EN 12317-2	Failure outside of the seam	Failure outside of the seam
Water vapor diffusion resistance according to DIN EN 1931 Elongation at break according to DIN EN 12311-2	μ = 175.000	μ = 175.000
Tensile strenght longitudinal/transverse	$\geq$ 6 N/mm <sup>2</sup> (method B)	≥ 6 N/mm <sup>2</sup> (method B)
Elongation longiudinal/transverse	≥ 600 % (method B)	≥ 600 % (method B)
Resistance to shock loads according to DIN EN 12691		
Method A	≥ 900 mm	≥ 900 mm
Method B	≥ 1500 mm	≥ 1500 mm
Resistance to static loading according to nach DIN EN 12730		
Method A	≥ 20 kg	≥ 20 kg
Method B	$\geq 20 \text{ kg}$	$\geq 20 \text{ kg}$
Tear continuation resistance according to DIN EN 12310-2	≥ 250 N	≥ 250 N
Root penetration resistance <sup>3)</sup>	given	-
Dimensional stability according to DIN EN 1107-2 längs/quer	≤ 0,25 %	≤ 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	-
Ozone resistance according to DIN EN 1297 (1000 h)	passed: Cracking stage 0	_
Behavior upon exposure to bitumen according to DIN EN	passed	- watertight
1548		
Durability against heat storage to DIN EN 1296, DIN EN 1928 (Verf. A)	watertight	watertight
Tear resistance (nail shaft) to DIN EN 12310-1	≥ 500 N	≥ 500 N
1) Special lengths available on request 2) Requirements are met		

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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