KÖSTER TPO 1.5

Technical Data Sheet RT 815

Issued: 2018-06-06

EPD-KBC-20160014-IBC1-DE Environmental Product Declaration according to the ISO 14025 and EN 15804

Official Test Report according to 1200/057/15 DIN EN 13956 MPA Braunschweig, Official Test Report according to 5278/015/14 DIN EN 13967 MPA Braunschweig, Certificate of conformity of the factory production control 0761-CPR-0422 MPA Braunschweig, Fish test A14-02548 BMG Zürich, Official Test Report acccording to ETAG 006 4/2015 I.F.I. Aachen

TPO Roofing and Waterproofing membrane with central glass fleece insert

Features
- Plastic waterproofing membrane made of high quality thermoplastic polyolefins based on polyethylene
- central glass fleece insert
- 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 (≤ -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
Refer to last page

Fields of Application
KÖSTER TPO 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 TPO Roofing and Waterproofing Membranes can be used for the waterproofing of basements, wet rooms and tanks.

Application
Please refer to the TPO Installation Instructions and the Technical Manual for TPO of KÖSTER BAUCHEMIE AG for correct application of KÖSTER TPO Roofing and Waterproofing Membranes.

Packaging

RT 815 025	1.5 mm x 0.25 m x 20 m
RT 815 035	1.5 mm x 0.35 m x 20 m
RT 815 052	1.5 mm x 0.525 m x 20 m
RT 815 075	1.5 mm x 0.75 m x 20 m
RT 815 105	1.5 mm x 1.05 m x 20 m
RT 815 150	1.5 mm x 1.50 m x 20 m

Related products

KÖSTER Contact Adhesive	Prod. code RT 102
KÖSTER TPO 2.0 U	Prod. code RT 820 U
KÖSTER External Corner light grey 90 degrees	Prod. code RT 901 001
KÖSTER Internal Corner light grey 90 degrees	Prod. code RT 902 001
KÖSTER Round Corner Patch light grey	Prod. code RT 903 001
KÖSTER Pipe Flashing 8/180 light grey	Prod. code RT 904 001
KÖSTER Pipe Flashing 34/180 light grey	Prod. code RT 904 002
KÖSTER Pipe Flashing 40/190 light grey	Prod. code RT 904 003
KÖSTER Pipe Flashing 10/300 light grey	Prod. code RT 905 001
KÖSTER Pipe Flashing 20/300 light grey	Prod. code RT 905 002
KÖSTER Pipe Flashing 40/300 light grey	Prod. code RT 905 003
KÖSTER Pipe Flashing 30/300 light grey	Prod. code RT 905 005
KÖSTER TPO Metal Composite Sheet Grey	Prod. code RT 910 002
KÖSTER TPO Metal Composite Coil grey	Prod. code RT 910 030
KÖSTER Roof Drain Vertical DN 125	Prod. code RT 914 001 S
KÖSTER Roof Drain Angled DN 70	Prod. code RT 914 002 A
KÖSTER Universal Roof Drain Extension for roof drain with TPO-seal	Prod. code RT 914 003
KÖSTER Roof Drain with Leaf Trap NW 70 light grey	Prod. code RT 915 001
KÖSTER Roof Drain with Leaf Trap NW 100 light grey	Prod. code RT 915 002
KÖSTER Roof Drain with Leaf Trap NW 125 light grey	Prod. code RT 915 003
KÖSTER System Roof Vent DN 100	Prod. code RT 915 004
KÖSTER Base for System Roof Vent DN 100	Prod. code RT 915 005
KÖSTER Roof Vent with Cap NW 70	Prod. code RT 916 001
KÖSTER Roof Vent with Cap NW 100	Prod. code RT 916 002
KÖSTER Attica Spout 120*60*300 mm black	Prod. code RT 917 001 B
KÖSTER Attica Spout 300*80*300 mm black	Prod. code RT 917 003 B
KÖSTER Water Spout DN 70	Prod. code RT 917 010
KÖSTER Water Spout DN 100	Prod. code RT 917 011
KÖSTER Emergency Overflow 120*60*300 mm black	Prod. code RT 918 001 B
KÖSTER Emergency Overflow 300*80*300 mm black	Prod. code RT 918 003 B
KÖSTER Emergency Overflow Adapter for Roof Drain	Prod. code RT 918 004
KÖSTER Emergency Overflow 100*110*490 mm	Prod. code RT 918 011
KÖSTER Edge for wall connection profile 60 mm	Prod. code RT 919 001
KÖSTER Wall connection profile 60 mm	Prod. code RT 919 003
KÖSTER Vapor Barrier FR	Prod. code RT 920 075
KÖSTER Maintenance Walkway Mat	Prod. code RT 925 001
KÖSTER Walkway Membrane grey	Prod. code RT 927 010
KÖSTER Weld Seam Tester	Prod. code RT 929 001

KÖSTER BAUCHEMIE AG • Dieselstraße 1-10 • D-26607 Aurich • Tel. 04941/9709-0 • Fax -40 • info@koester.eu • www.koester.eu

CE 0761 15	KÖSTER BAUCHEMIE AG Dieselstraße 1-10, 26607 Aurich KÖSTER TPO 1.5 EN 13956 0761-CPR-0422 EN 13967 0761-CPR-0423 TPO roofing and waterproofing membrane with central glass fleece insert	
Length according to DIN EN 1848-2	20 m [1)]	
Width according to DIN EN 1848-2	2.10; 1.50; 1.05; 0.75; 0.525; 0.35; 0.25 m	
Effective thickness according to DIN EN 1849-2	1.5 mm	
	DIN EN 13956: 2012 waterproofing of flat and sloped roofs. Application by loose laying with ballast or mechanical fastening	**DIN EN 13967:2012 Vapor Barrier Type T**
Designation according DIN SPEC 20000-201 and DIN SPEC 20000-202	DE/E1-FPO-BV-E-GV-1,5	BA-FPO-BV-E-GV-1,5
Color	Standard: light grey [2)]	light grey
Visible Defects according to DIN EN 1850-2	free from visible defects	free from visible defects
Straightness according to DIN EN 1848-2	≤ 50 mm	≤ 50 mm
Flatness according to DIN EN 1848-2	≤ 10 mm	
Mass per unit area according to DIN EN 1849-2	1490 g /m²	1490 g /m²
Water tightness according to DIN EN 1928 (Method B)	400 kPa/24h watertight	400 kPa/72h watertight
Exposure to liquid chemicals, including water according to DIN EN 1847	passed (Method B)	watertight (Method A)
Exposure to external fire according to DIN CEN/TS 1187; DIN 4102-7; DIN EN 13501-5	Broof(t1) [3)]	-
Reaction to fire according to EN 13501-1	Class E	Class E
Resistance to hail according to DIN EN 13583		
Rigid substrate	≥ 25 m/s	-
Soft substrate	≥ 38 m/s	
Peel resistance of the overlap according to DIN EN 12316-2	≥ 500 N/50 mm	-
Shear resistance of the overlap according to DIN EN 12317-2	Failure beyond the overlap	Failure beyond the overlap
Water vapor diffusion resistance according to DIN EN 1931	μ = 85,000	μ = 85,000
Tensile characterisitcs according to DIN EN 12311-2		
Tensile strength	≥ 7 N/mm² (Method B)	≥ 7 N/mm² (Method B)
Elongation at break	≥ 500 % (Method B)	≥ 500 % (Method B)
Resistance to shock loads according to DIN EN 12691		
Method A	≥ 500 mm	≥ 500 mm
Method B	≥ 1000 mm	≥ 1000 mm
Resistance to static loading according to DIN EN 12730		
Method A	≥ 20 kg	≥ 20 kg
Method B	≥ 20 kg	≥ 20 kg
Tear continuation resistance according to DIN EN 12310-2	≥ 200 N	≥ 200 N
Root penetration resistance [4)]	given	-
Dimensional stability according to DIN EN 1107-2	≤ 0.2 %	≤ 0.2 %
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 1844	passed	-
Exposure to bitumen according to DIN EN 1548	passed	watertight
Durabilty against heat storage according to DIN EN 1296, DIN EN 1928 (Method A)	watertight	watertight
Tear resistance (nail shank) according to DIN EN 12310-1	≥ 500 N	≥ 500 N

1) Special lengths available on request 2) Other colors available on request 3) Requirements are met for roofs tested by KÖSTER in Germany. Further information can be requested from KÖSTER. 4) Applies only to green roofs

KÖSTER BAUCHEMIE AG • Dieselstraße 1-10 • D-26607 Aurich • Tel. 04941/9709-0 • Fax -40 • info@koester.eu • www.koester.eu