Data sheet
FM 400 Omega

PRODUCT‘ SPECIFICATION

SK H2O protec expansion waterstop series FM according to DIN 7865, part 2, is a permanently flexible sealing profile with middle tube made of elastomer, SBR or EPDM, that is used to seal expansion joints in water-proof concrete structures with high water pressures.

Characteristics / Advantages

- high tensile strength and elongation at break
- high permanent flexibility and high-load bearing capacity
- suitable for water pressure and large settlings
- resistant to all natural media acting aggressively to concrete
- resistant to a wide range of chemical substances (tests required for each additional specific situation)
- resistant to bitumen
- supply of systems for easy handling on site
- vulcanizable by using butt joints on site

Application

- joint sealing in concrete structures
- expansion joint sealing system for in-situ concrete
- for big joints

Typical structures

- bridges, trough and bridge constructions
- rail tunnels and road tunnels
- water construction plants

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Standards / Directives	▪ DIN 18197 ▪ DIN 7865, part 2 ▪ WU-Directives DAfStb ▪ ZTV-ING, Riz-Ing ▪ Vulcanizing instructions
Test certificate / Approvals	▪ latest manufacturer's test certificate ▪ certificate of conformity – DIN 7865 ▪ external monitoring by MPA NRW ▪ internal monitoring

PRODUCT DATA

Material	▪ SBR elastomer (styrene butadiene rubber) ▪ EPDM elastomer (ethylene-propylene-diene monomer)
Colour	▪ black
Packaging	▪ supplied as standard rolls (25 m)

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MECHANICAL PROPERTIES according to DIN 7865, part 2	
Shore A hardness	62 ± 5
Tear strength	≥ 10 MPa
Elongation at break	≥ 380 %
Compression set	168h / 23°C ≤ 20% 24h / 70°C ≤ 35%
Tear propagation resistance	≥ 8 kN/m
Performance after heat ageing	Shore A hardness change ≤ 8 Tear strength ≥ 9 MPa Elongation at break ≥ 300%
Low temperature performance	≤ 90 Shore A
Tension set	≤ 20%
Performance after conditioning in hot bitumen	Residual deformation < 20% Tear strength ≥ 7 MPa Elongation at break ≥ 300%
Performance after ozone ageing	No cracks

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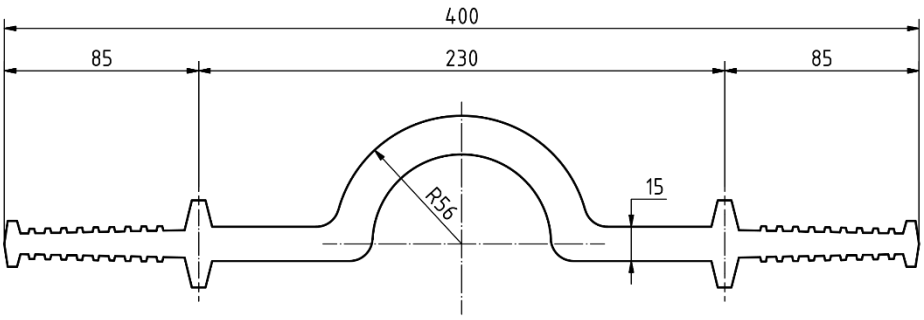

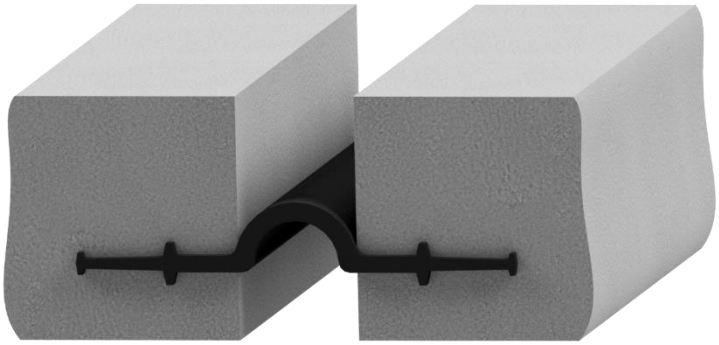

All dimensions in mm