

PRODUCT' SPECIFICATION

SK H2O protec expansion waterstop series FM according to DIN 7865, part 1 and 2, is a permanently flexible sealing profile with middle tube made of elastomer, SBR or EPDM, that is used to seal expansion joints in waterproof concrete structures with high water pressures.

Characteristics / high tensile strength and elongation at break Advantages 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 require

- 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
- press joints according to ZTV-ING

Typical structures

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



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

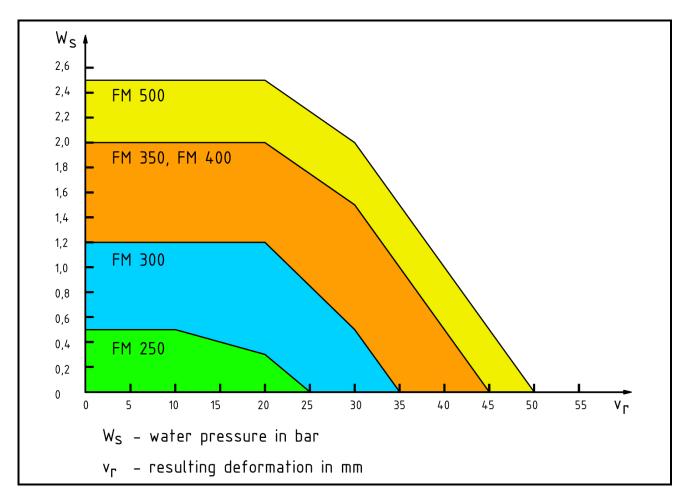
Material	 SBR elastomer (styrene butadiene rubber) EPDM elastomer (ethylene-propylene-diene monometer) 		
Colour	 black 		
Packaging	 supplied as standard rolls (25 m) 		



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



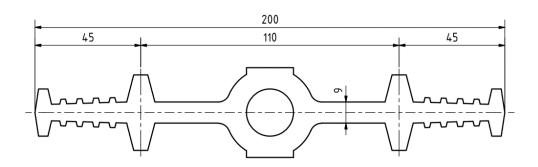
Selection diagram for waterstops acc. to DIN 7865

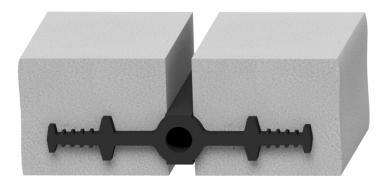


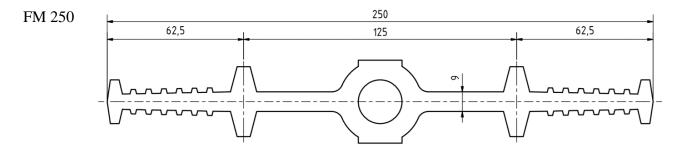
excerpt from DIN 18197:2018-01

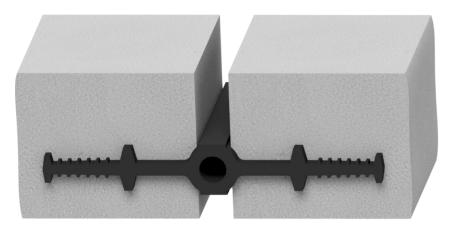


FM 200





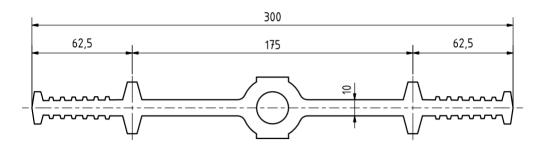


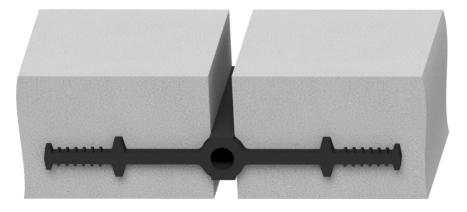


All dimensions in mm

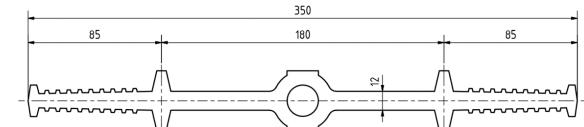


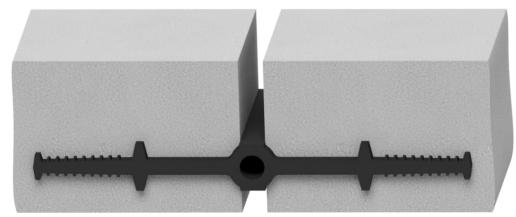
FM 300





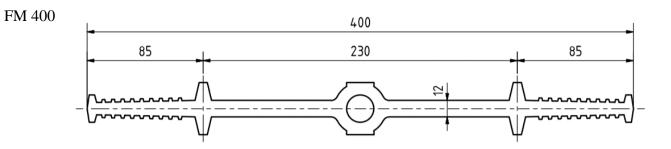
FM 350

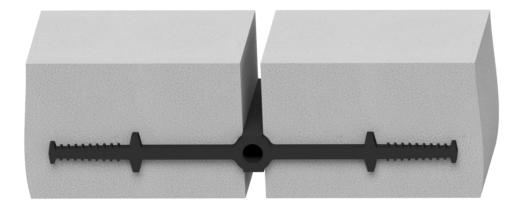


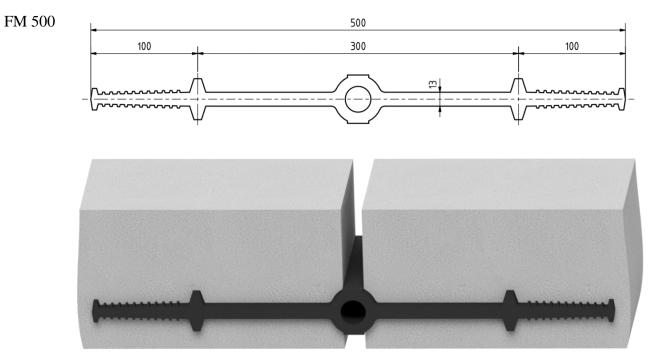


All dimensions in mm









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