Data sheet - series FN

PRODUCT‘ SPECIFICATION

SK H2O protec special joint profile type FN according to DIN 7865, part 2, is a permanently flexible profile made of elastomer, EPDM, providing protection against dirt and maintaining the function of expansion joints in waterproof concrete structures with large movements and high water pressures.

Characteristics / Advantages

- high tensile strength and elongation at break
- high permanent flexibility and high-load bearing capacity
- 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

Typical structures

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

Data sheet - series FN

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	▪ EPDM elastomer (ethylene-propylene-diene monomer)
Colour	▪ black with grey visible surface
Packaging	▪ supplied as standard rolls (25 m)

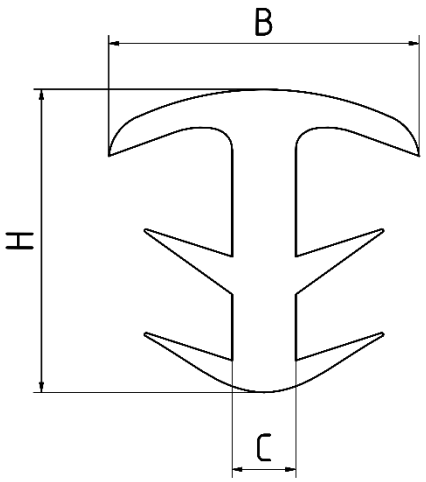
Data sheet - series FN

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

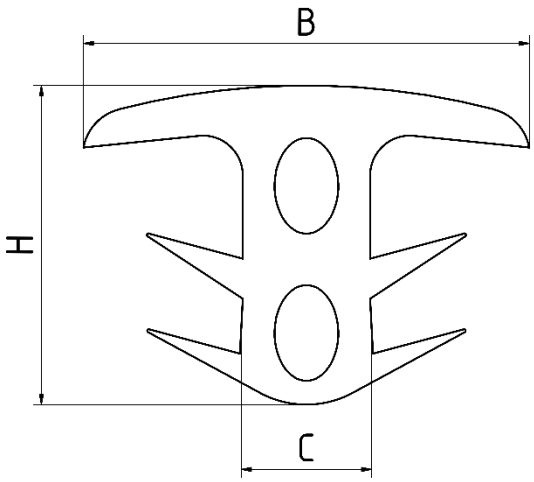
Data sheet - series FN

SK H_2O protec
new science. balanced nature.

Design FN 20



Design FN 30 / FN 40



Type	Dimension B	Dimension H	Dimension C	Joint width
FN 20	39	38	8	15 - 25
FN 30	55	40	16	25 - 35
FN 40	66	43	24	30 - 40

All dimensions in mm