

# Data sheet - series FMS



## **PRODUCT SPECIFICATION**

SK H2O protec expansion joint series FMS according to DIN 7865, part 1 and 2, is a permanently flexible sealing profile made of elastomer, SBR or EPDM, that is used to seal expansion joints in waterproof 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 settlements
- 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

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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

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**Shore A hardness**  $62 \pm 5$

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**Tear strength**  $\geq 10$  MPa

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**Elongation at break**  $\geq 380$  %

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**Compression set** 168h / 23°C  $\leq 20\%$   
24h / 70°C  $\leq 35\%$

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**Tear propagation resistance**  $\geq 8$  kN/m

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**Performance after heat ageing** Shore A hardness change  $\leq 8$   
Tear strength  $\geq 9$  MPa  
Elongation at break  $\geq 300\%$

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**Low temperature performance**  $\leq 90$  Shore A

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**Tension set**  $\leq 20\%$

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**Metal adhesion**  $\geq 1,5$  kN

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**Performance after conditioning in hot bitumen** Residual deformation  $< 20\%$   
Tear strength  $\geq 7$  MPa  
Elongation at break  $\geq 300\%$

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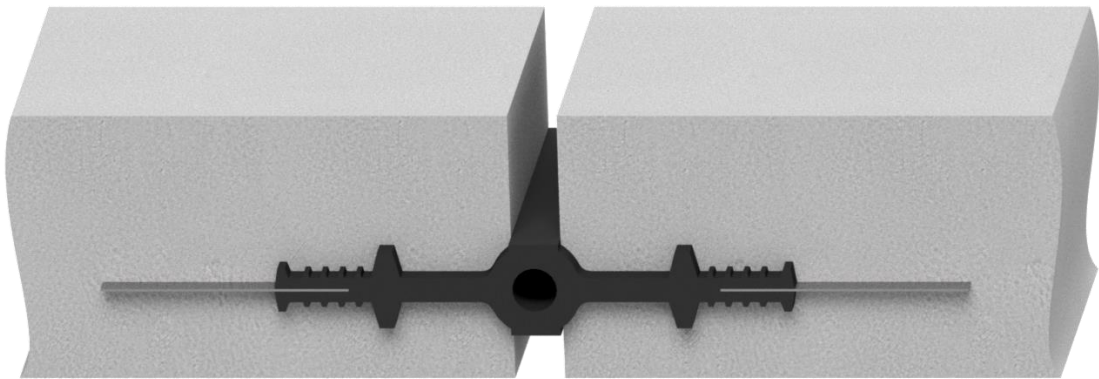
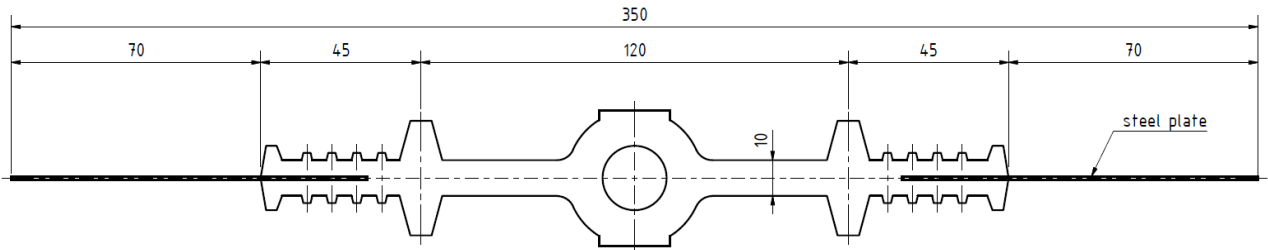
**Performance after ozone ageing** No cracks

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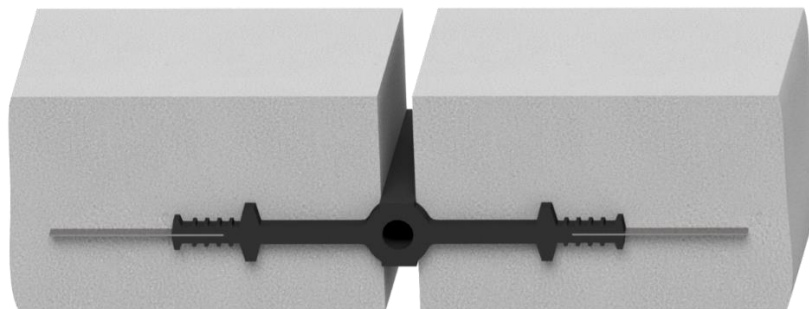
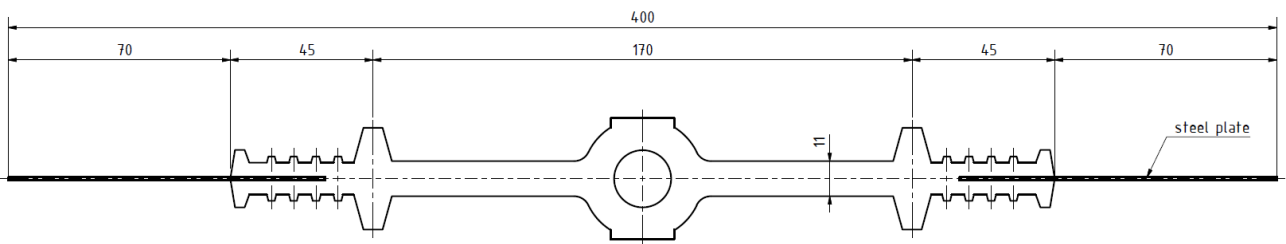
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## FMS 350



## FMS 400

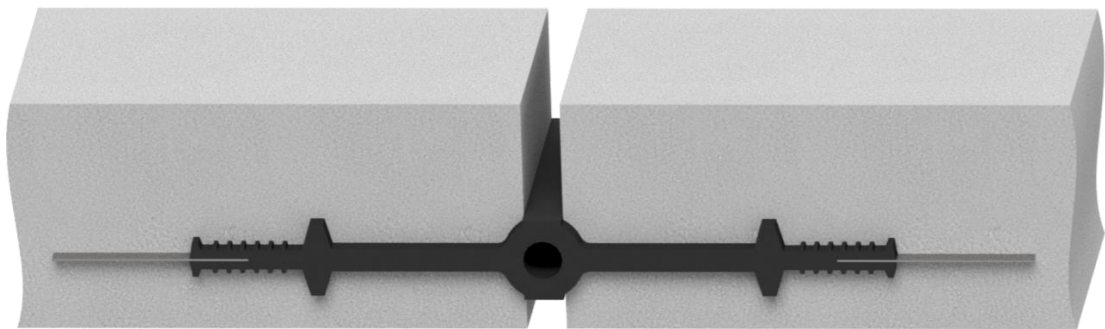
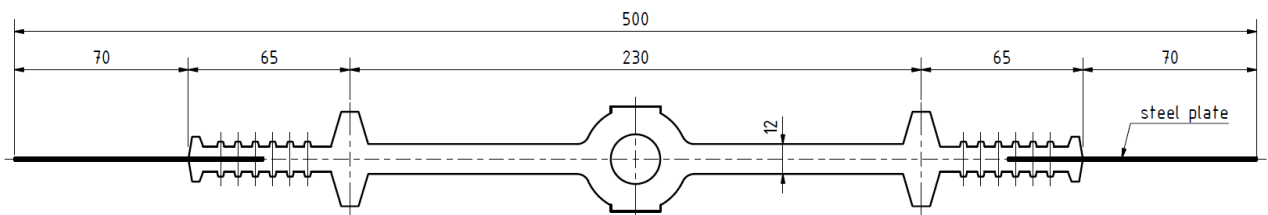


All dimensions in mm

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## FMS 500



All dimensions in mm