

# Data sheet - series FMS MU



## **PRODUCT SPECIFICATION**

SK H2O protec expansion joint series FMS MU according to DIN 7865, part 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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<b>Shore A hardness</b>	$62 \pm 5$
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<b>Tear strength</b>	$\geq 10 \text{ MPa}$
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<b>Elongation at break</b>	$\geq 380 \%$
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<b>Compression set</b>	168h / 23°C $\leq 20\%$ 24h / 70°C $\leq 35\%$
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<b>Tear propagation resistance</b>	$\geq 8 \text{ kN/m}$
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<b>Performance after heat ageing</b>	Shore A hardness change $\leq 8$ Tear strength $\geq 9 \text{ MPa}$ Elongation at break $\geq 300\%$
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<b>Low temperature performance</b>	$\leq 90 \text{ Shore A}$
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<b>Tension set</b>	$\leq 20\%$
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<b>Metal adhesion</b>	$\geq 1,5 \text{ kN}$
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<b>Performance after conditioning in hot bitumen</b>	Residual deformation $< 20\%$ Tear strength $\geq 7 \text{ MPa}$ Elongation at break $\geq 300\%$
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<b>Performance after ozone ageing</b>	No cracks
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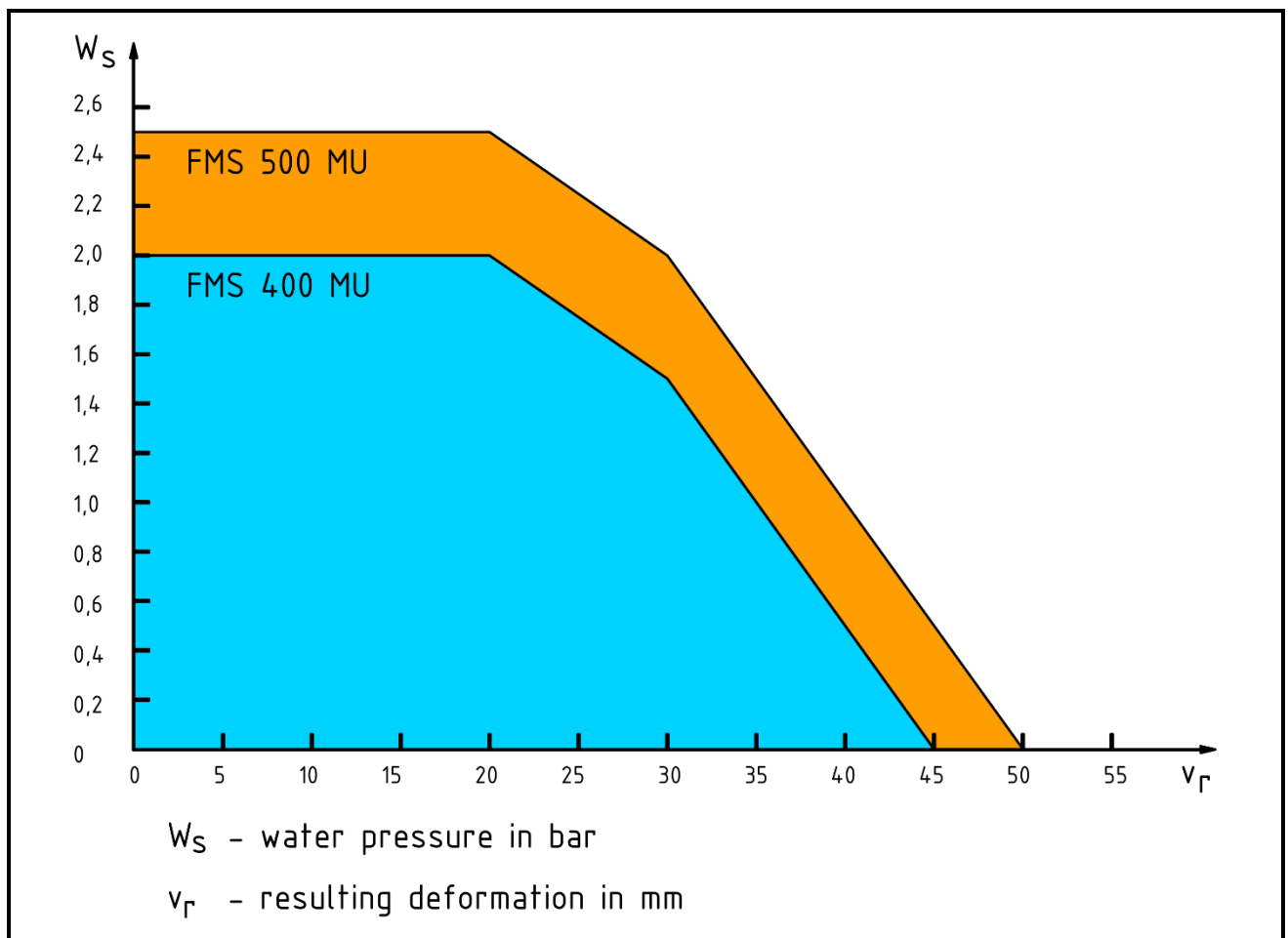
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## Selection diagram

for waterstops acc. to DIN 7865

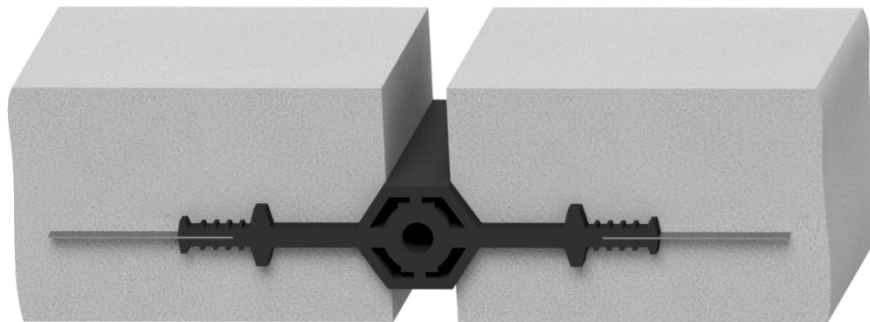
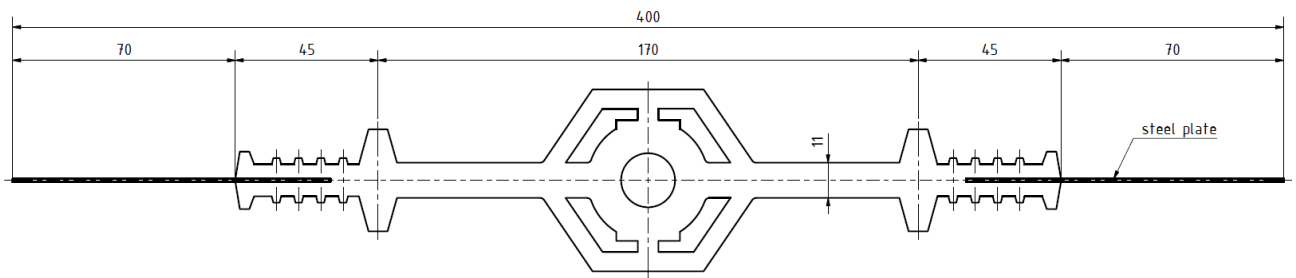


excerpt from DIN 18197:2018-01

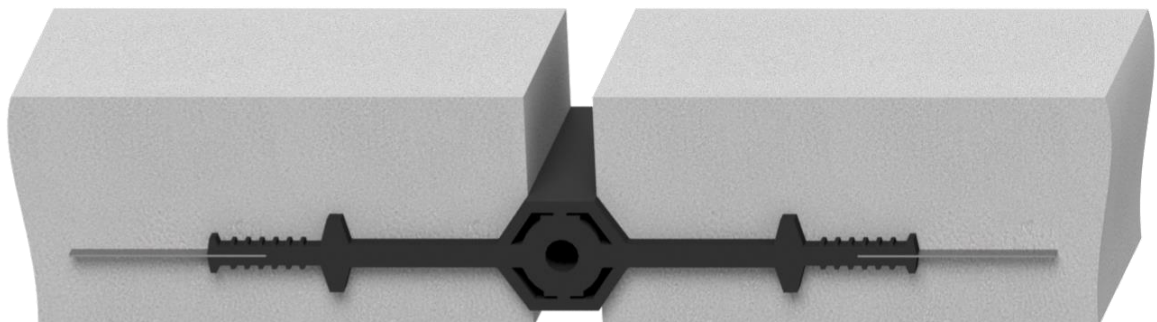
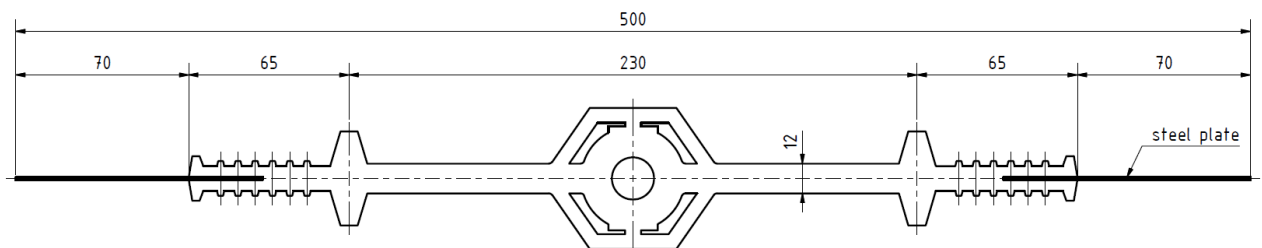
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## FMS 400 MU



## FMS 500 MU



All dimensions in mm