

Data sheet - series FM MU



PRODUCT SPECIFICATION

SK H2O protec expansion waterstop series FM MU 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 / 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
- press joints according to ZTV-ING

Typical structures

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

Data sheet - series FM MU



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)

Data sheet - series FM MU



MECHANICAL PROPERTIES according to DIN 7865, part 2

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|-------------------------|------------|
| Shore A hardness | 62 ± 5 |
|-------------------------|------------|

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|----------------------|---------------|
| Tear strength | ≥ 10 MPa |
|----------------------|---------------|

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|----------------------------|--------------|
| Elongation at break | ≥ 380 % |
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|------------------------|---|
| Compression set | 168h / 23°C $\leq 20\%$ 24h / 70°C $\leq 35\%$ |
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|------------------------------------|---------------|
| Tear propagation resistance | ≥ 8 kN/m |
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|--------------------------------------|--|
| Performance after heat ageing | Shore A hardness change ≤ 8 Tear strength ≥ 9 MPa Elongation at break $\geq 300\%$ |
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| Low temperature performance | ≤ 90 Shore A |
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|--------------------|-------------|
| Tension set | $\leq 20\%$ |
|--------------------|-------------|

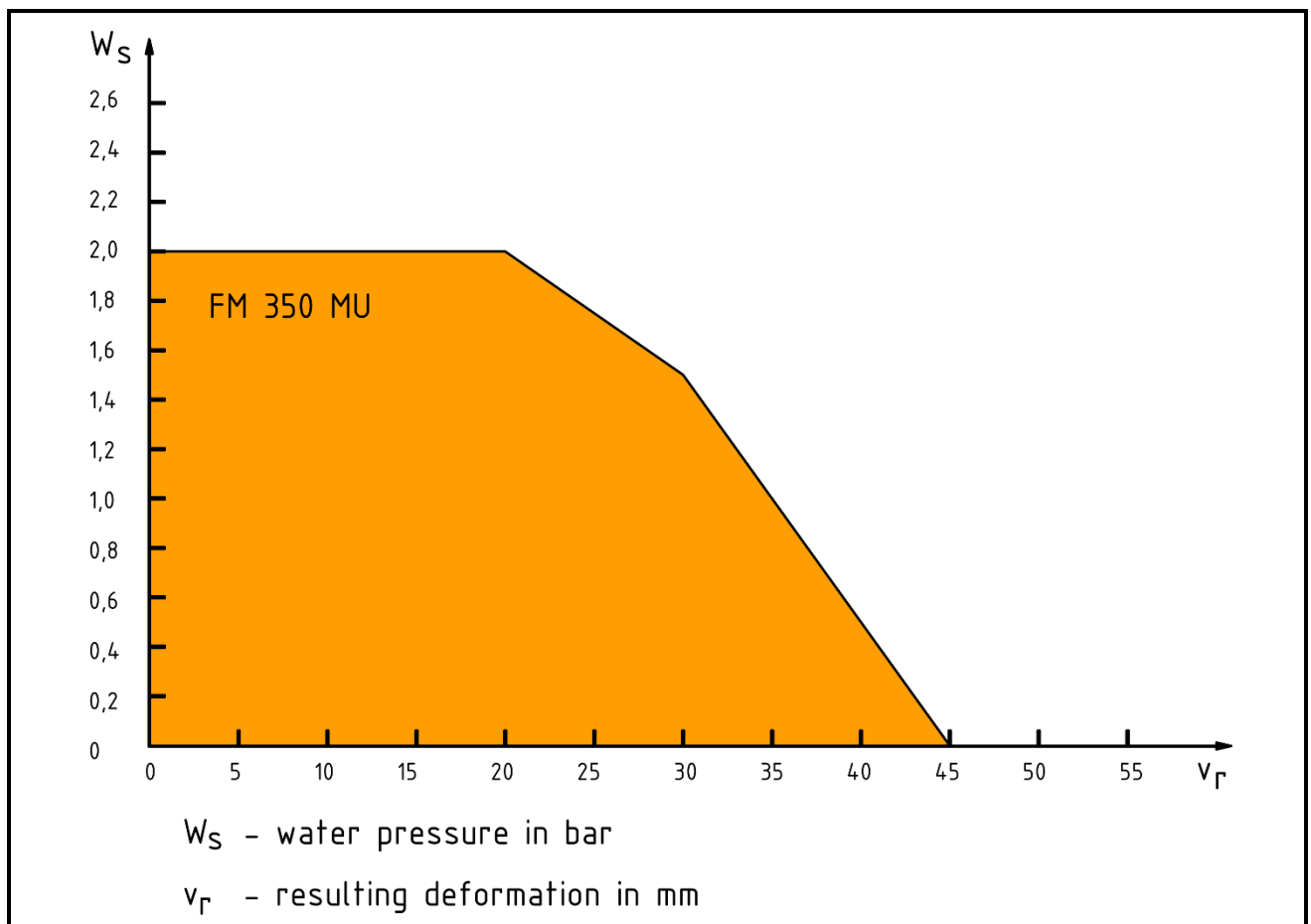
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| Performance after conditioning in hot bitumen | Residual deformation $< 20\%$ Tear strength ≥ 7 MPa Elongation at break $\geq 300\%$ |
|--|---|

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|---------------------------------------|-----------|
| Performance after ozone ageing | No cracks |
|---------------------------------------|-----------|

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Selection diagram for waterstops acc. to DIN 7865

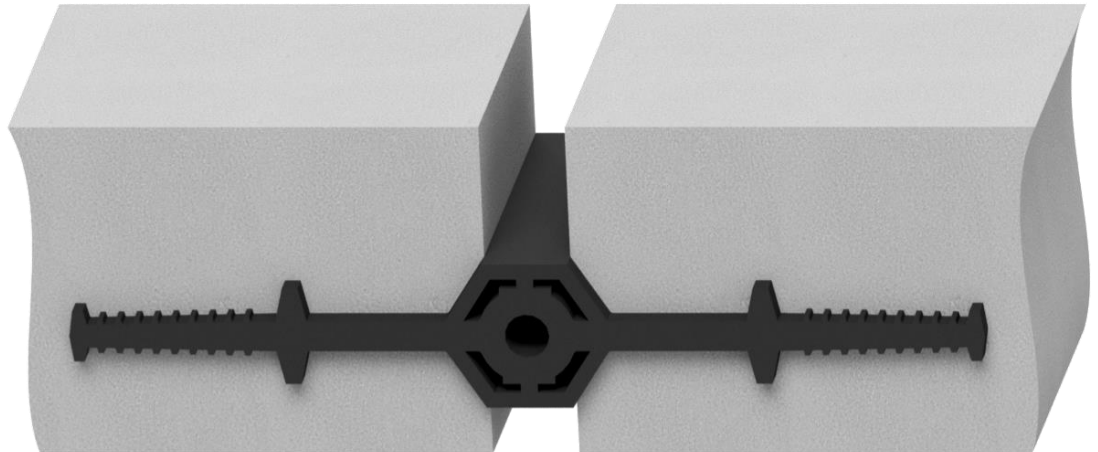
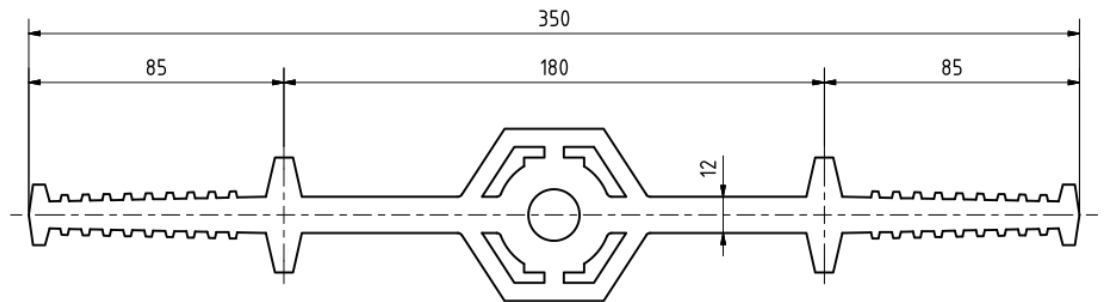


excerpt from DIN 18197:2018-01

Data sheet - series FM MU



FM 350 MU



All dimensions in mm