

Data sheet - series DA - DIN



PRODUCT SPECIFICATION

SK H2O protec expansion waterstop series DA according to DIN 18541, part 1 and 2, is a permanently flexible sealing profile with middle tube made of thermoplastic polymer, PVC-P or PVC-NBR, 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 (if applicable)
- resistant to a wide range of chemical substances (tests required for each additional specific situation)
- standard resistant
- supply of systems for easy handling on site
- weldable by using butt joints on site

Application

- joint sealing in concrete structures
- expansion joint sealing system for in-situ concrete

Typical structures

- commercial buildings, cellars, underground car parks

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Standards / Directives

- DIN 18197
- DIN 18541, part 1 and 2
- WU- Directives DAfStb
- Welding instructions

Test certificate / Approvals

- latest manufacturer's test certificate
- certificate of conformity - DIN 18541
- external monitoring by MPA NRW
- internal monitoring

PRODUCT DATA

Material

- PVC-P (Polyvinyl chloride with plasticizer / P: plasticized)
- PVC-NBR (Polyvinyl chloride - Nitrile butadiene rubber)

Colour

- black

Packaging

- supplied as standard rolls (25 m), pre-cuts and systems

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MECHANICAL PROPERTIES according to DIN 18541, part 2

| | |
|-------------------------|------------|
| Shore A hardness | 67 ± 5 |
|-------------------------|------------|

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|-------------------------|---------------|
| Tensile strength | ≥ 10 MPa |
|-------------------------|---------------|

| | |
|----------------------------|--------------|
| Elongation at break | ≥ 350 % |
|----------------------------|--------------|

| | |
|------------------------------------|----------------|
| Tear propagation resistance | ≥ 12 kN/m |
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| | |
|------------------------------------|---|
| Low temperature performance | Elongation at break at $-20^{\circ}\text{C} \geq 200\%$ |
|------------------------------------|---|

| | |
|-------------------------------------|--|
| Performance after weathering | Tensile strength $\leq 20\%$ Elongation at break $\leq 20\%$ Modulus of elasticity $\leq 50\%$ |
|-------------------------------------|--|

valid change of average values relative to the initial value

| | |
|---|----------------------------------|
| Performance of the weld at shear test short-term joining factor f_z | break outside of weld $\geq 0,6$ |
|---|----------------------------------|

| | |
|-----------------------|---------|
| Fire behaviour | class E |
|-----------------------|---------|

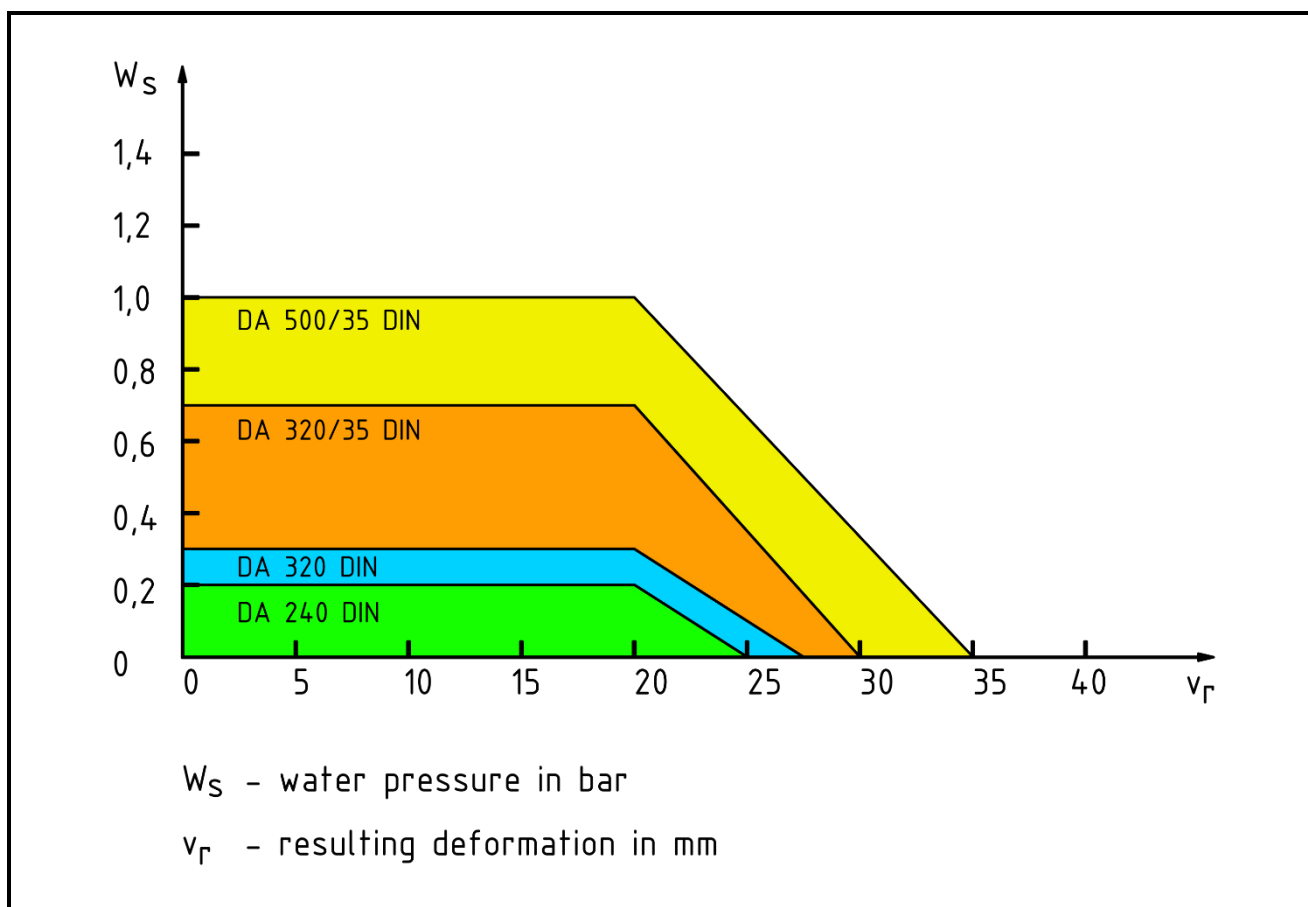
| | |
|---|---|
| Performance after storage in bitumen | Tensile strength $< 20\%$ Elongation at break $< 20\%$ Modulus of elasticity $< 50\%$ |
|---|---|

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Selection diagram

for waterstops acc. to DIN 18541, part 1 and 2

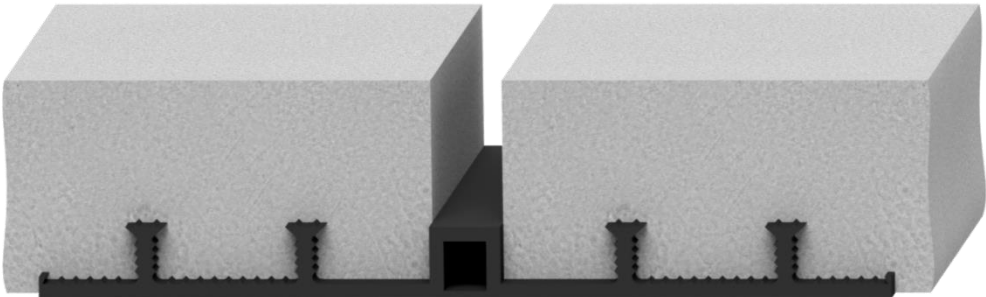
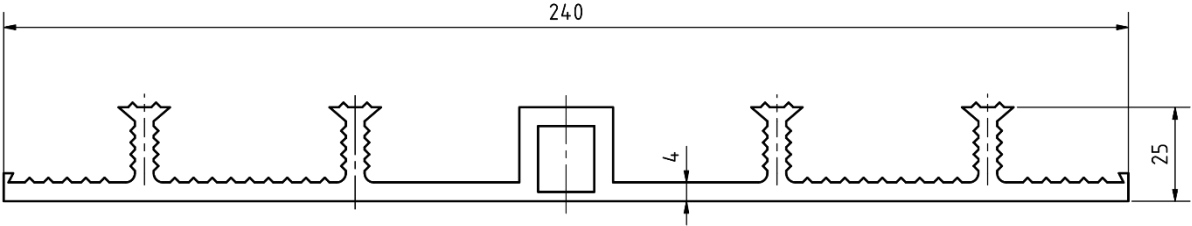


excerpt from DIN 18197:2018-01

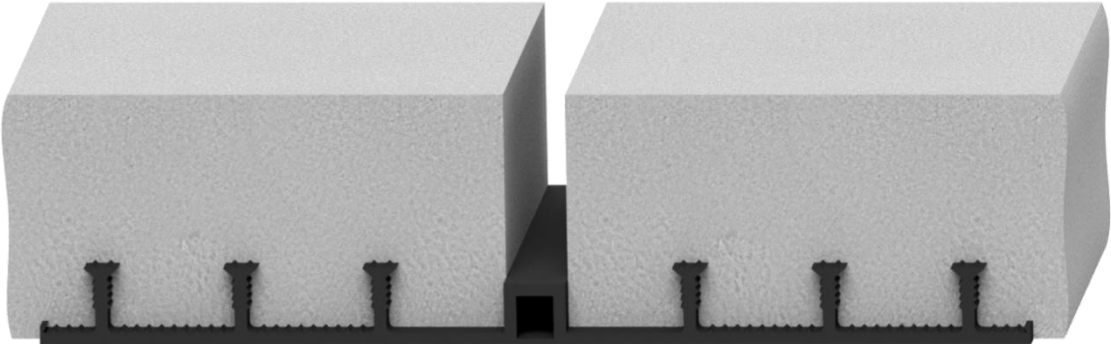
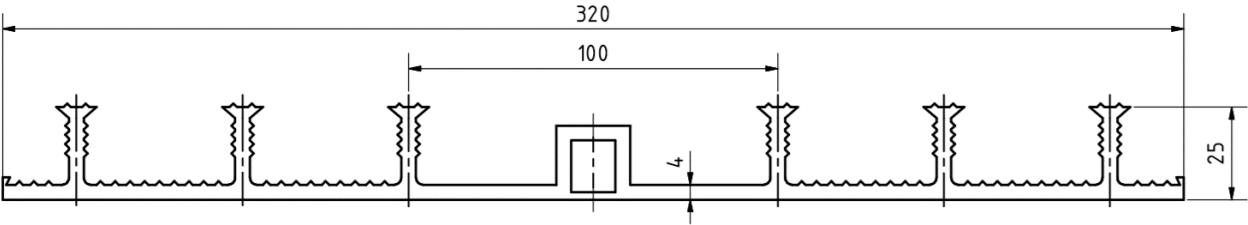
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DA 240 DIN



DA 320 DIN

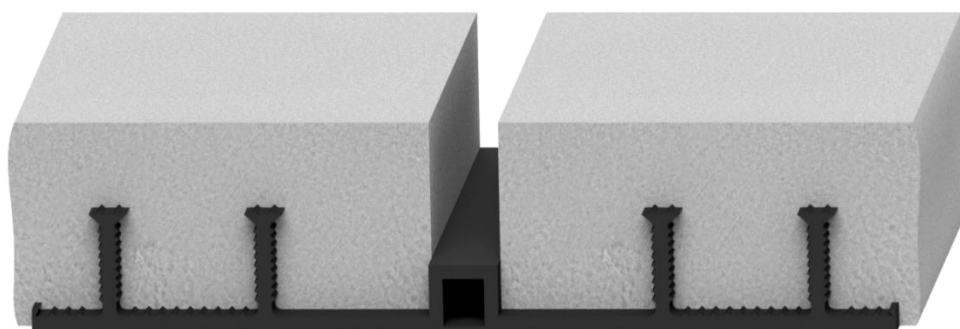
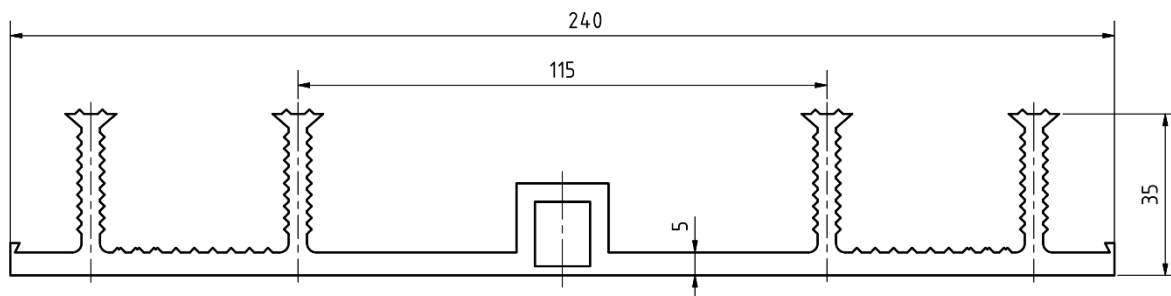


All dimensions in mm

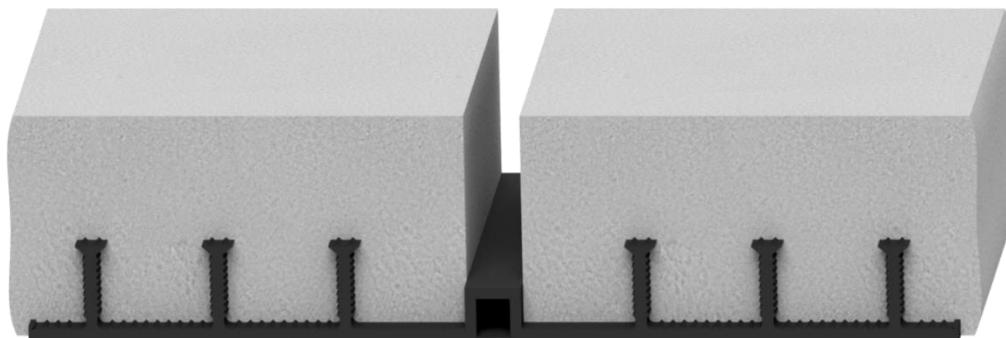
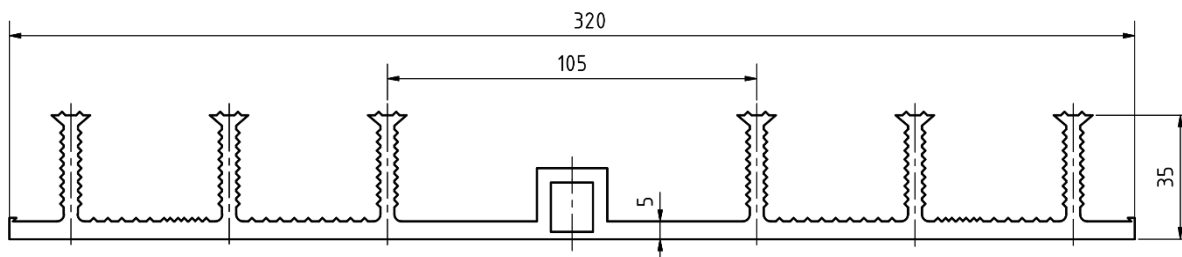
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DA 240/35 DIN



DA 320/35 DIN

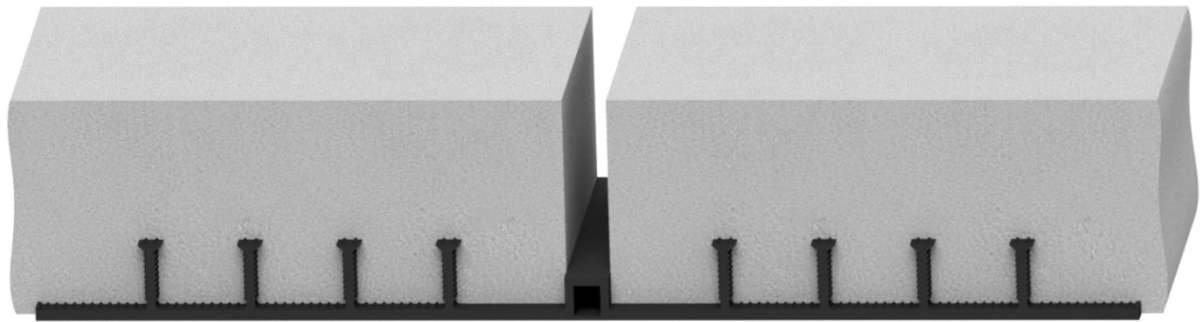
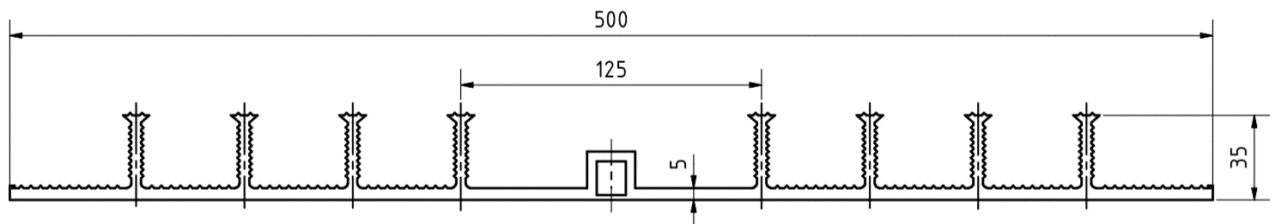


All dimensions in mm

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DA 500/35 DIN



All dimensions in mm