

# Data sheet - series D - WN



## **PRODUCT SPECIFICATION**

SK H2O protec expansion waterstop series D according to factory standard is a permanently flexible sealing profile with middle tube made of thermoplastic polymer, PVC-P, 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 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

# Data sheet - series D - WN



## **Standards / Directives**

- general appraisal certificate
- Works standard
- WU- Directives DAfStb
- Welding instructions

## **Test certificate / Approvals**

- general appraisal certificate
- external monitoring by MPA NRW
- internal monitoring

## **PRODUCT DATA**

### **Material**

- PVC-P (Polyvinyl chloride with plasticizer / P: plasticized)

### **Colour**

- black

### **Packaging**

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

# Data sheet - series D - WN



---

## MECHANICAL PROPERTIES according to factory standard

---

|                         |            |
|-------------------------|------------|
| <b>Shore A hardness</b> | $72 \pm 5$ |
|-------------------------|------------|

---

|                         |                       |
|-------------------------|-----------------------|
| <b>Tensile strength</b> | $\geq 10 \text{ MPa}$ |
|-------------------------|-----------------------|

---

|                            |               |
|----------------------------|---------------|
| <b>Elongation at break</b> | $\geq 275 \%$ |
|----------------------------|---------------|

---

|                                    |                        |
|------------------------------------|------------------------|
| <b>Tear propagation resistance</b> | $\geq 12 \text{ kN/m}$ |
|------------------------------------|------------------------|

---

|                                    |   |
|------------------------------------|---|
| <b>Low temperature performance</b> | Elongation at break at $-20^\circ\text{C} \geq 200\%$ |
|------------------------------------|---|

---

|                                     |  |
|-------------------------------------|--|
| <b>Performance after weathering</b> | Tensile strength $\leq 20\%$<br>Elongation at break $\leq 20\%$<br>Modulus of elasticity $\leq 50\%$ |
|-------------------------------------|--|

valid change of average values relative to the initial value

---

|   |                                  |
|---|----------------------------------|
| <b>Performance of the weld at shear test<br/>short-term joining factor <math>f_z</math></b> | break outside of weld $\geq 0,6$ |
|---|----------------------------------|

---

|                       |          |
|-----------------------|----------|
| <b>Fire behaviour</b> | class B2 |
|-----------------------|----------|

---

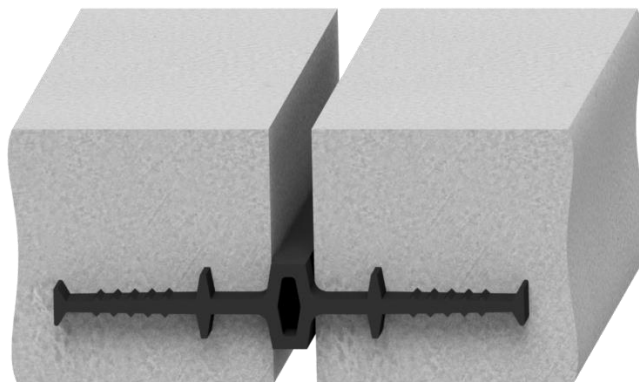
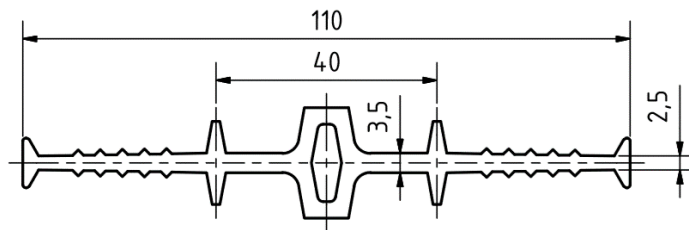
values differing for bitumen compatibility

---

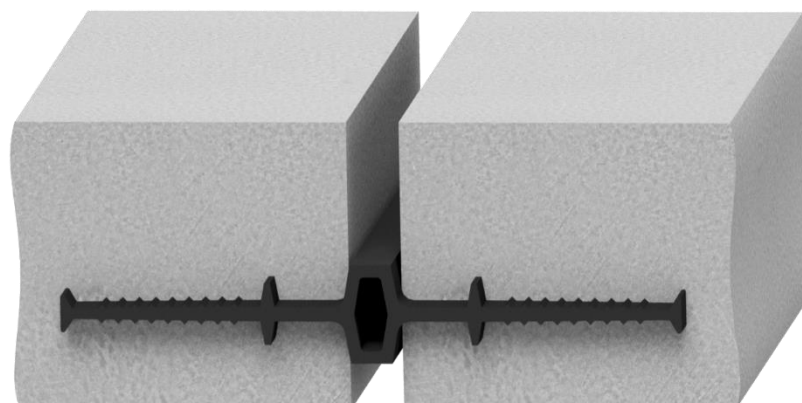
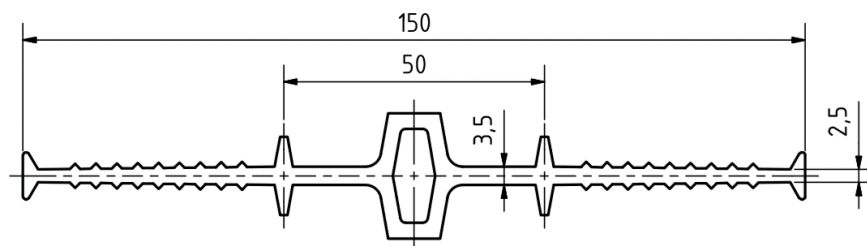
# Data sheet - series D - WN



D 11



D 15

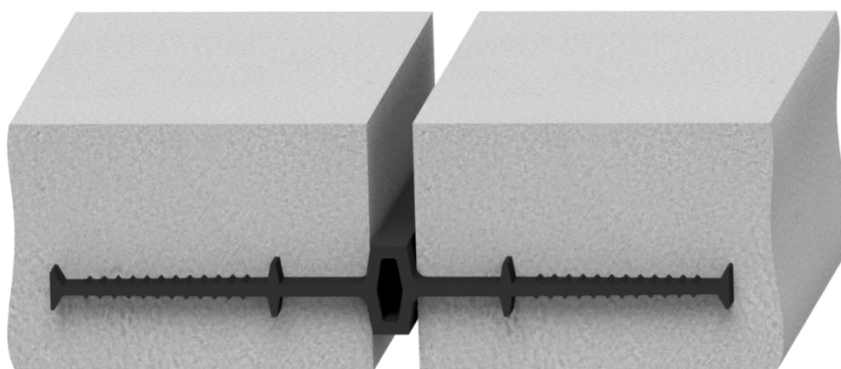
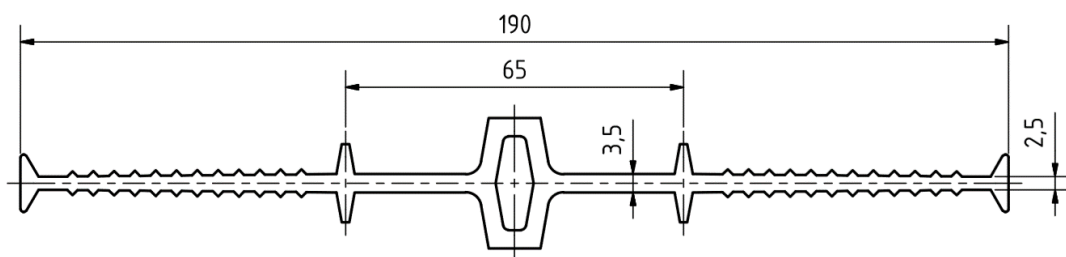


All dimensions in mm

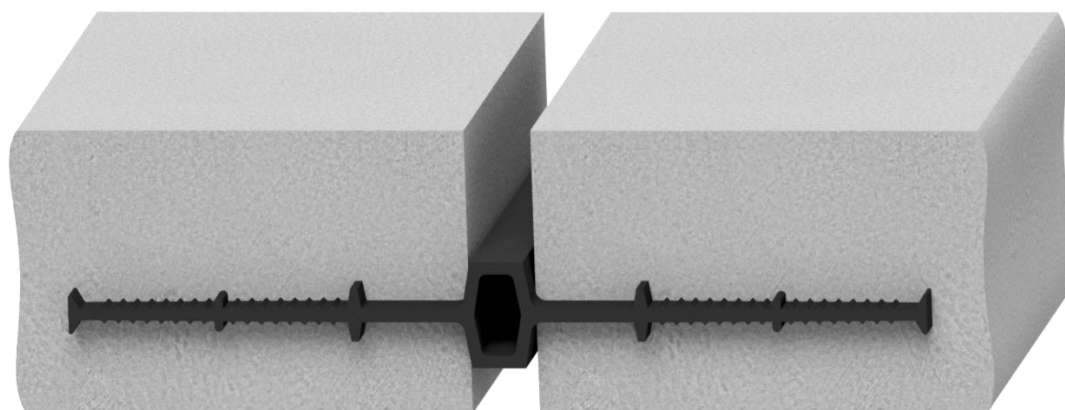
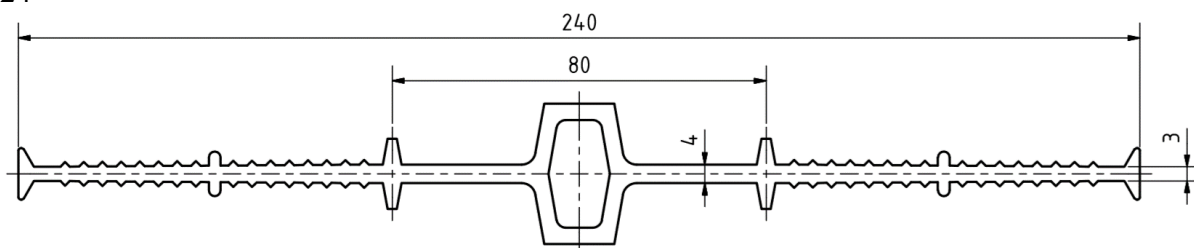
# Data sheet - series D - WN



D 19



D 24

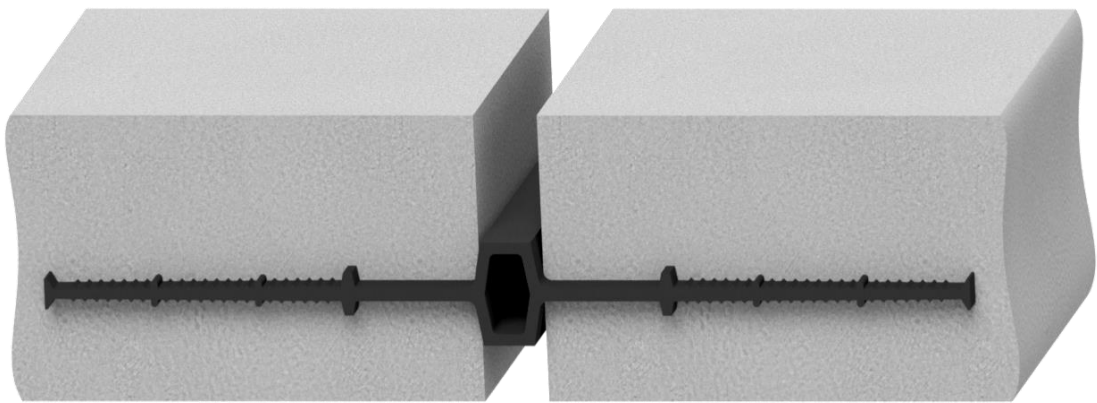
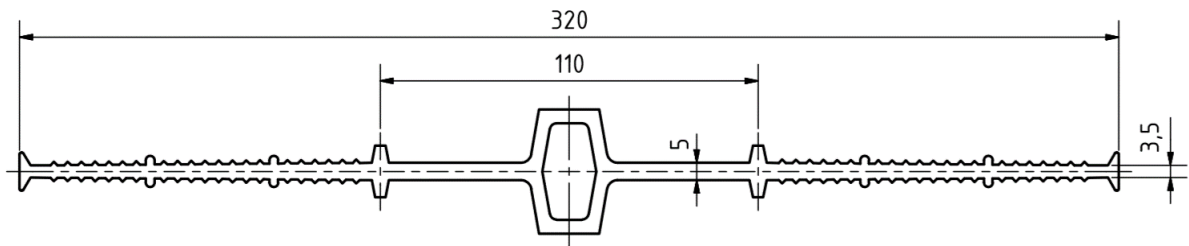


All dimensions in mm

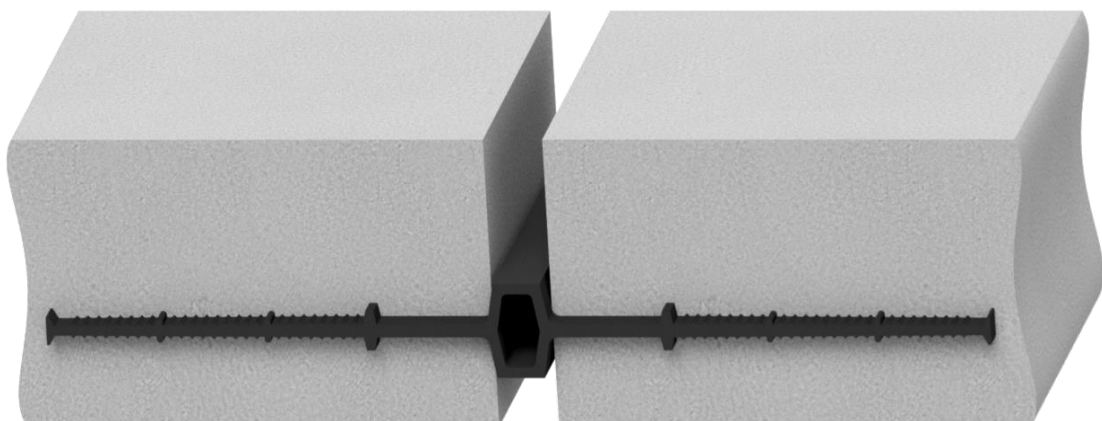
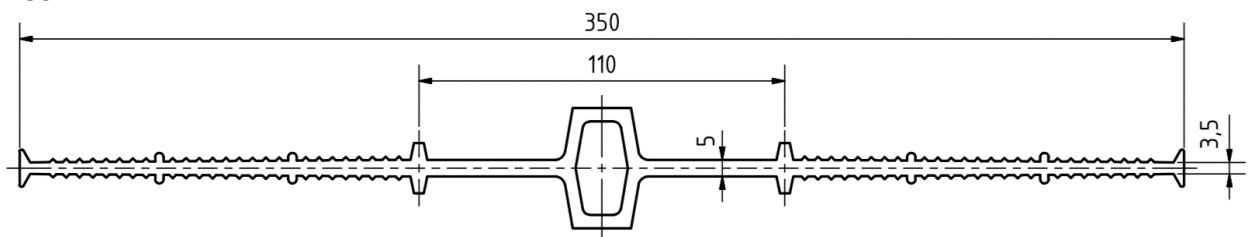
# Data sheet - series D - WN



D 32



D 35

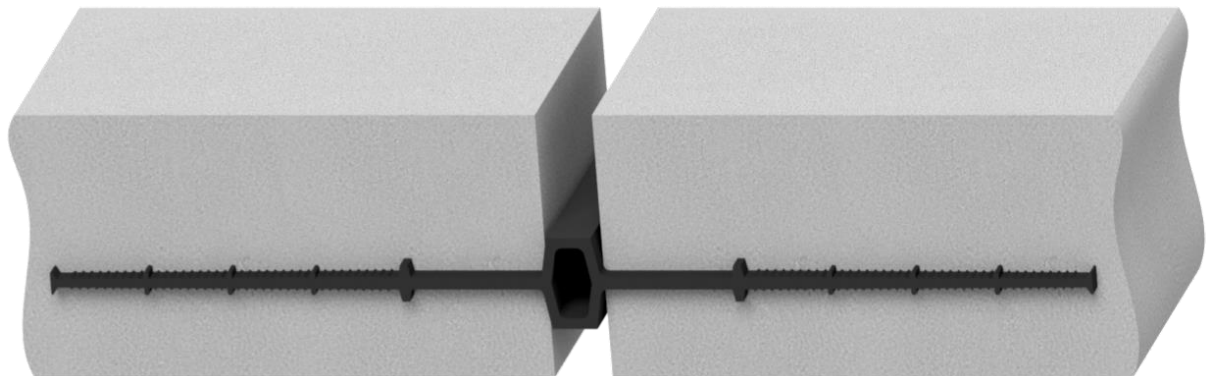
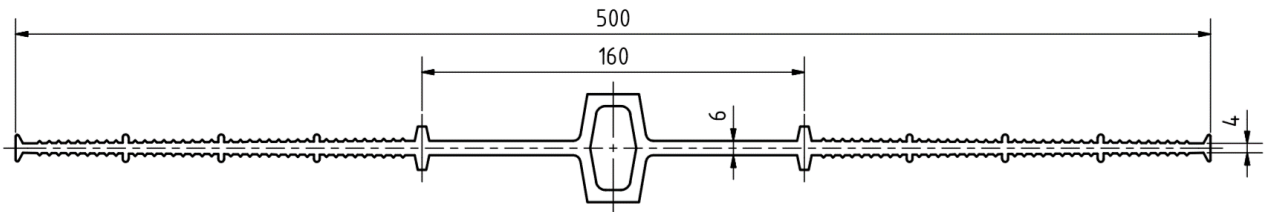


All dimensions in mm

# Data sheet - series D - WN



D 50



All dimensions in mm