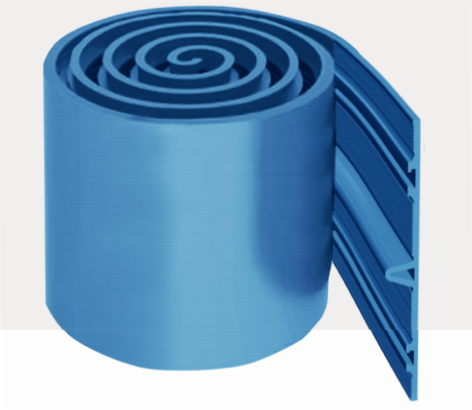
# JOINTBELT CI

PVC Waterstops with V-Shaped bulb for Programmed Cracks



## PRODUCT DESCRIPTION

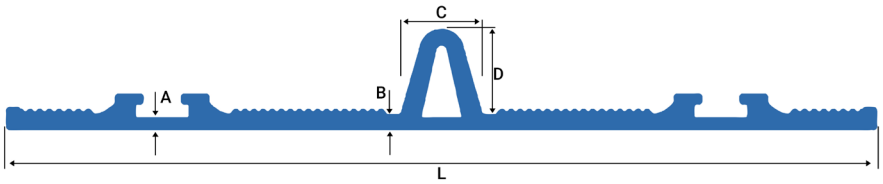
The SUPERSHIELD JOINTBELT CI is a polyvinyl chloride (PVC) waterstop with a v-shaped central bulb and two lanes for hydro-expansive cord insertion. The design caters to expansion joints, structural movement joints, construction resumption joints, and programmed cracks in concrete. It is resistant to harsh environments, aging, degradation, saltwater intrusion, UV radiation, and ozone exposure, as well as a wide array of chemicals and atmospheric agents commonly present in groundwater and air. SUPERSHIELD JOINTBELT CI possesses flexibility, resilience, toughness, chemical inertness, resistance to weathering, low temperatures, and continuous water immersion.

## AREA OF APPLICATION

- Foundation Works
- Sewage Treatment Plants
- Tunnels
- Power Stations
- Bridges
- Water Treatment Plants
- Lock and Dam Systems
- Reservoirs and Aqueducts
- Flood Walls
- Potable Water Reservoirs
- Retaining Walls
- Containment Structures and Tanks
- Floor Slabs
- Parking Areas
- Industrial Buildings

## TECHNICAL DATA

| General Characteristics | | |
|---|---|---|
| **PROPERTY** | **VALUE** | |
| Colour | Black / Blue | |
| Density - ISO 1183 | 1.36 ± 0.03 g/cc | |
| Width | 250mm | |
| **Performance Characteristics** | | |
| **TEST NAME** | **TEST METHOD** | **PERFORMANCE** |
| Shore A Hardness | ISO 868 | 72 ± 5 |
| Tensile Strength | ISO 527 | ≥ 10 N/mm² |
| Elongation at break | ISO 527 | ≥ 300 % |
| Stiffening Temperature | ISO 458/2 | -30 ° C |
| Inflammability | UL 94 | Class V0 |




| Product Variation | A [mm] | B [mm] | C [mm] | D [mm] | L [mm] |
|---|---|---|---|---|---|
| JOINTBELT CI 250 | 2.5 | 4.0 | 25 | 30 | 250 |

## APPLICATION GUIDELINES

### Application

When using SUPERSHIELD JOINTBELT CI to create programmed crack joints, position its bulb outside of the two concrete pours or within a continuous pour. Steel fastening clips secure the SUPERSHIELD JOINTBELT CI to the concrete reinforcement, ensuring that it remains in place during pouring and vibration. Alternatively, secure it with wire to prevent displacement during pouring or vibration-induced consolidation. For longer joint spans, you can connect SUPERSHIELD JOINTBELT CI profiles with hot welding or specialized accessories.

### Cutting and welding instructions:

For a successful weld, use either an electrical blade or a welding device with the correct cross-section. Begin by cutting the sections at a precise angle and meticulously removing any impurities or irregularities from the surfaces. Ensure the welding tool is clean and positioned securely before heating.
Position the welding components on a stable, level surface. Apply slight pressure to the cut surfaces against the heated welding tool until a liquid mass appears on both sides. Then, release the pressure carefully to remove the welding tool and press the seam together until it cools down, typically within 30–60 seconds.

It's best to have two people involved in this process for optimal results. While one person handles the welding tool, the other should assist by pressing the seams together. Move swiftly during welding, ensuring the heated points don't cool before they fully fuse. Excessive heating can cause PVC to char or result in inadequate bonding.

PVC melts between 120 and 140°C and burns between 160 and 180°C, so adjust the welding device's temperature accordingly.

## HEALTH AND SAFETY

No special measures required. For further instructions on a safe use of the product please refer to safety datasheets.

## STORAGE

Store in dry conditions, protected from heat, frost and direct sunlight.

## PACKAGING

SUPERSHIELD JOINTBELT CI 250 - 25m Rolls.

## WARRANTY

Supershield warrants that its products will be free from material defects and will comply with the specifications provided in their respective technical data sheets. If any product is proven to be defective, Supershield's liability will be limited to the replacement of the product. Supershield will not be liable for any incidental or consequential damages. No other warranties, express or implied, shall apply, including warranties of merchantability or fitness for a particular purpose. It is the user's responsibility to determine the suitability of the product for their intended use and to assume all risks and liabilities associated with its application. Supershield reserves the right to alter the properties of its products without prior notice.