

PREBAR PVC WATERSTOP.



Technical Data Sheet

PVC WATERSTOP FOR STRUCTURAL SEALING

24/04/2024

Prebar PVC Waterstop is a high-performance thermoplastic PVC profile designed for watertight sealing in cast-in-situ concrete joints. Compliant with **BS 2782**, it suits both construction and expansion joints in horizontal and vertical applications. Heat-weldable for seamless on-site joining, it comes in various profiles with prefabricated intersections to simplify installation. Durable and resistant to water, chemicals, and environmental factors, it ensures long-lasting waterproofing in critical structures.

Recommended For

Water Retaining Structures:

- Basement Slabs
- Lift Pits
- Retaining Walls
- Suspended Slabs
- Swimming Pools
- Reservoirs
- Water Towers
- Sewage Tanks
- Dams, Culverts, Canals, and Spillways
- Bunded Areas Around Liquid Retaining Tanks

Water Excluding Structures:

- Basements and Underground Car Parks
- Tunnels and Subways
- Abutments and Retaining Walls
- Roof Decks and Podium Areas

Advantages

- **Reliable Waterproofing:** Prevents water ingress in critical joints.
- **Durable:** Resistant to water, chemicals, and environmental factors.
- **Versatile:** Suitable for various applications like basements, tunnels, and swimming pools.
- **Heat Weldable:** Enables easy, secure on-site welding for seamless joints.
- **Time-Saving:** Prefabricated intersections reduce installation time.
- **Flexible:** Adapts to joint movement and hydrostatic pressure.
- **Cost-Effective:** Long-lasting, reducing maintenance and repair costs.

Application Method

Surface Preparation:

- Ensure that the surfaces where the waterstop will be installed are clean, dry, and free from debris or contaminants to guarantee proper adhesion.

Cutting and Sizing:

- Cut the Prebar PVC Waterstop to the required lengths, allowing for adequate overlap at joints and intersections. Ensure the correct profile is chosen for the specific application.

Positioning:

- Position the waterstop within the construction joint, ensuring it is centered and aligned correctly. For vertical joints, secure the waterstop with appropriate anchors or fixing methods.

Heat Welding (if applicable):

- For continuous, leak-proof joints, use a heat welding method to join sections of the waterstop. Ensure the seams are fully welded to form a secure bond.

Installation of Prefabricated Intersections (if applicable):

- Use prefabricated intersection pieces where required to minimize on-site fabrication. Ensure all connections are properly aligned and welded as needed.

Concrete Pouring:

- Once the waterstop is securely positioned, proceed with pouring the concrete as per the project's specifications. Ensure the waterstop remains in place during the pour and is fully encased in the concrete.

Packaging

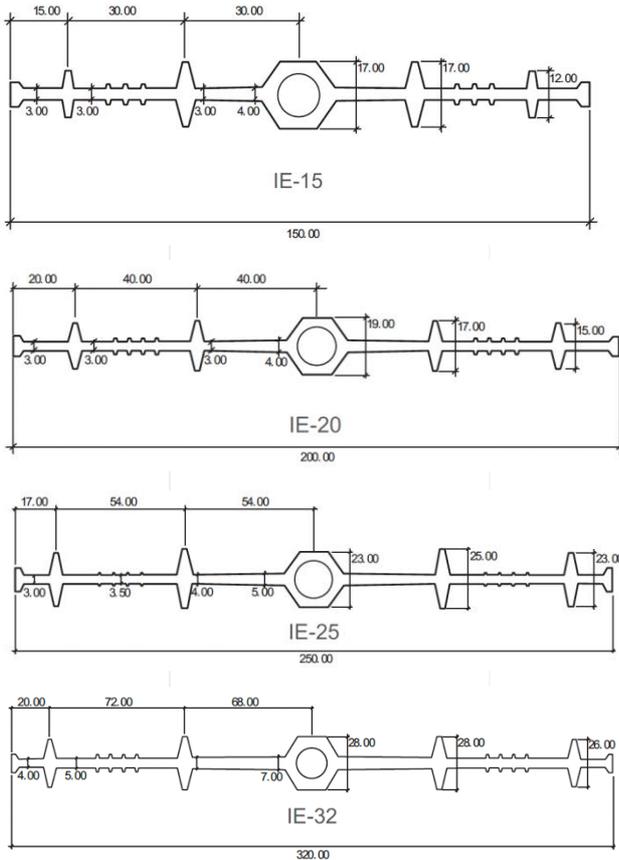
Prebar PVC Waterstop for construction and expansion joints is available in the following sizes:

- **150mm to 200mm:** 20-meter roll
- **250mm:** 15-meter roll
- **320mm:** 12-meter roll

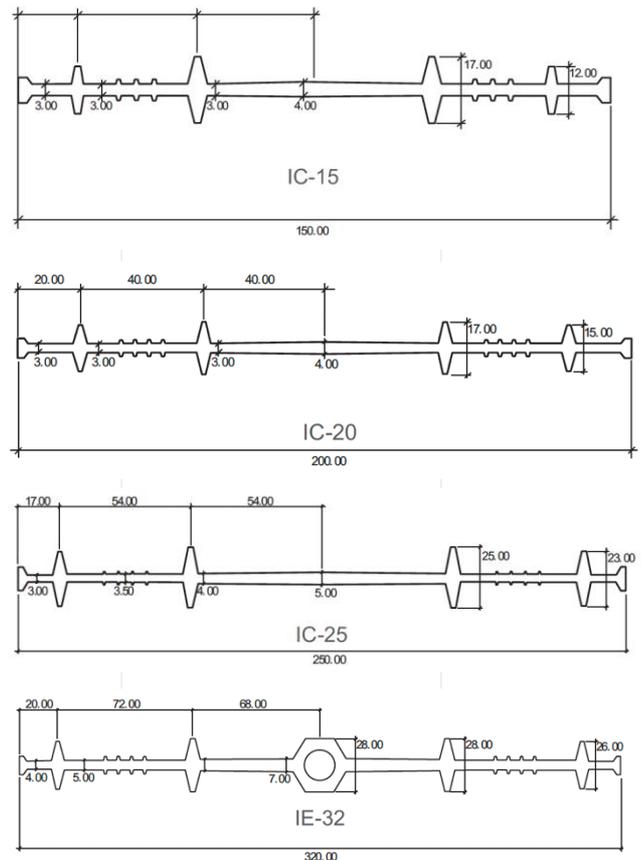
Each roll is securely packed to ensure safe transportation and easy handling during installation.

Internal Profiles

For Expansion Joints

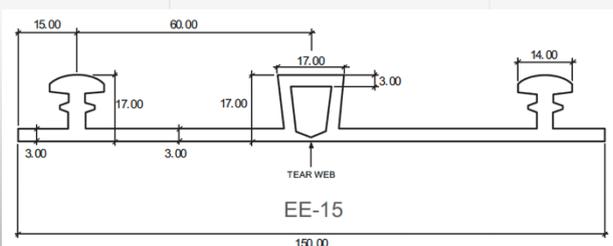


For Construction Joints

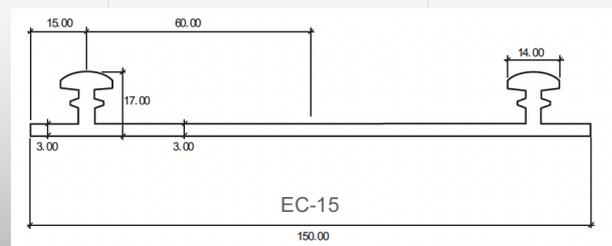


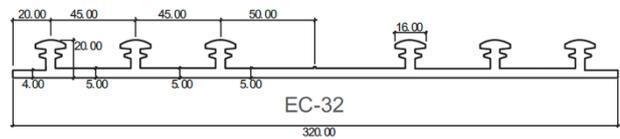
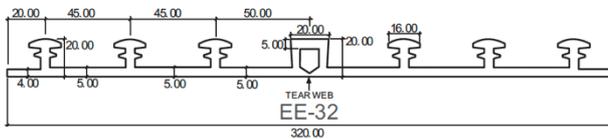
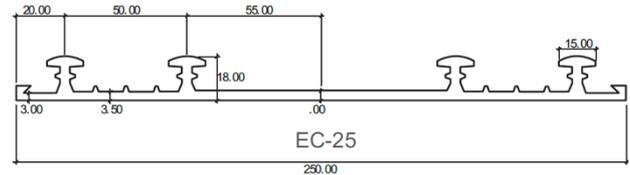
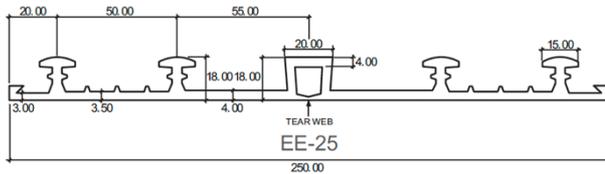
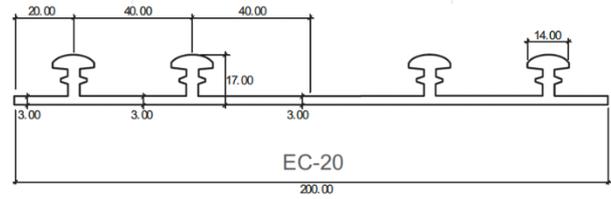
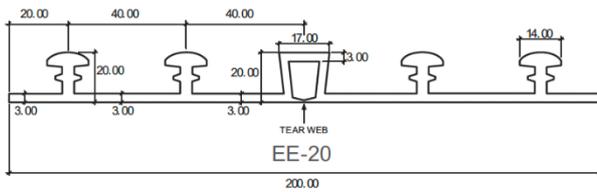
External Profiles

For Expansion Joints



For Construction Joints



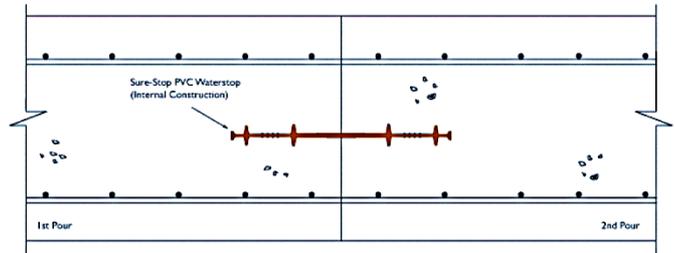
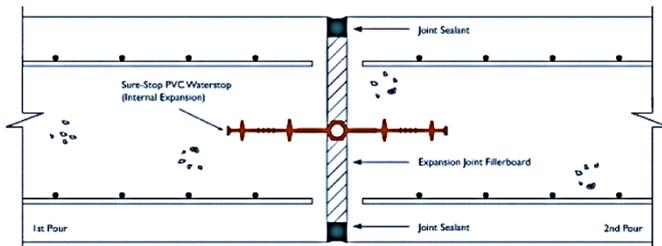


Typical Applications

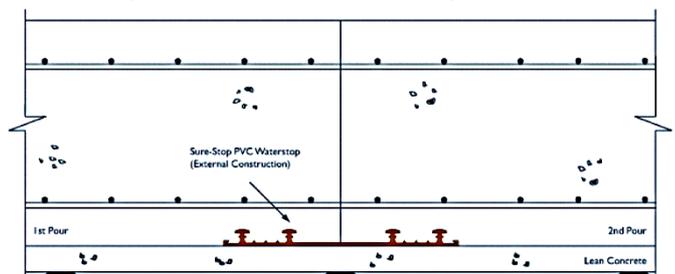
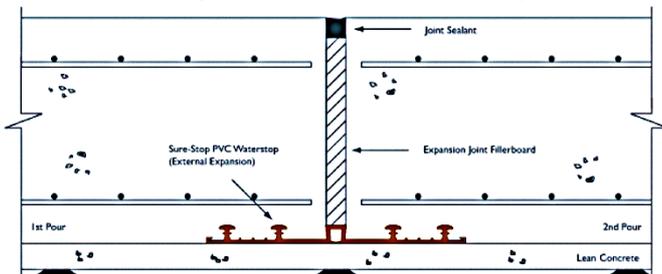
For Expansion Joints

For Construction Joints

Standard Detail of Wall Applications



Standard Detail of Wall Applications



Technical Features

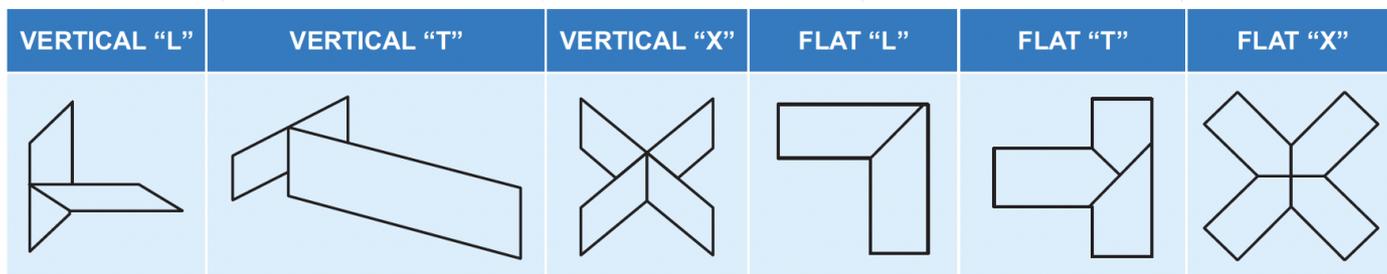
Colour	Blue
Packaging	150mm – 20m = 20mm roll, 250mm – 15m roll, 320mm – 12m roll
Roll Weight	Dependent upon profile type
Storage Conditions & Shelf Life	5 years from the date of production if stored properly in original, unopened and undamaged sealed packaging, in dry conditions out of direct sunlight at temperatures between +10°C and +40°C
Material Type	Polyvinyl Chloride (PVC)
Welding Temperatures	Approximately 190°C - 200°C
Service Temperature Range	-25°C to +70°C

Physical Properties

No.	Item	Requirement	Test Result	Test Method
1	Tensile Strength (N/mm ²)	Min. 12.00	15.49	BS 2782.320A
2	Elongation at Break (%)	Min. 3.00	330	BS 2782.320A
3	Loss of Mass Test (g/cm ³)	N/A	1.65	BS EN 608 11-3-2:1995
4	Water Absorption at 23°C (%)	N/A	0.19	ISO 62
5	Specific Gravity (g/cm ³)	1.38 ± 0.03	1.41	BS 2782:620B
6	Thermal Stability Congo Red Test at 180°C, Min.	N/A	50	BS 2782:130A
7	Hardness, Shore A	75 ± 5	75	BS 2782:365B

Note: CKS's in house Certificate of Analysis (COA) are conducted on every batch of raw material that is used in the production of AQUASTOP PVC waterstops. Independent laboratory test results are also available upon request.

Intersection Drawing



Safety - When handling DO NOT eat, drink or smoke

Store Prebar PVC Waterstop in a cool, dry location away from direct sunlight and extreme temperatures. Handle the material with care to avoid damage, and always wear appropriate PPE, such as gloves and safety boots, during handling. Use sharp cutting tools to ensure clean, straight cuts when sizing the waterstop, and avoid excessive bending or twisting during installation. Ensure surfaces are clean and dry before installation to prevent contamination. Follow proper disposal procedures for any offcuts or damaged material, recycling where possible. When heat welding, adhere to manufacturer guidelines and ensure proper ventilation to avoid injury. In emergency, contact any Poisons Information Centre (phone 13 11 26 within Australia) or 0800 764 766 (NZ), or a doctor for advice. IN TRANSPORT EMERGENCY DIAL 000 – POLICE-FIRE BRIGADE. Local regulations as well as health and safety advice on packaging labels must be observed. For more information, please download a copy of the SDS from www.forspec.com.au.

KEEP OUT OF REACH OF CHILDREN.

DO NOT allow wash water from cleaning or process equipment to enter drains.

DO NOT discharge into sewer or waterways.

DO NOT seal or stopper drums being decontaminated as CO₂ gas is generated and may pressurize containers.

Data Sheet

This Technical Data Sheet and the Material Safety Data Sheet (SDS) may be revised at any time to comply with relevant changes to the Australian Standards or to include changes to current technology. Always read the current SDS and TDS carefully prior to use, as application and performance data may change from

time to time. It is always best to request a copy of the latest technical data from Forspec Protective Coatings by calling 02 8021 3517 or emailing info@forspec.com.au. Data provided is typical but does not constitute a full specification. This should be sighted from the company for specific projects.

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