

# FIXO-SEAL

## STOPPERS & PROFILES

PRECISION SEALING FOR STRONGER FOUNDATIONS



### TECHNICAL DATA SHEET

#### PRODUCT DESCRIPTION

Fixo Seal PVC Waterstops are manufactured from a high-quality virgin PVC compound, which has been formulated to give excellent flexibility and durability. They are extruded in a range of profiles.

#### ADVANTAGES

- Proven design
- 4 'Diamond' bulbs act in compression and extension
- Deep rib tortuous path provides a better bond to concrete and watertightness
- Wide expansion bulb enables joint fillers to be fully supported
- Flexible to accommodate movement
- Reinforced eyelet edge flanges for positive fixing
- Simple job site splicing
- Full range of intersection pieces
- Suitable for use in potable water structures

#### USES

- Reservoirs, water towers, and sewage tanks
- Dams, culverts, canals, and spillways
- Bunded areas surrounding liquid retaining tanks
- Basements and underground car parks
- Tunnels and subways
- Abutments and retaining walls
- Roof decks and podium areas

#### SPECIFICATION COMPLIANCE

Meets the US Corps of Engineers specification CRD-C572-74.

Meets the requirements of BS 6920 for use in contact with potable water.

#### LABORATORY TEST DATA

Property	Typical Results
Tensile strength (BS 2782)	>15 MPa
Elongation at break (BS 2782)	>300%
Shore A hardness (ASTM D2240)	80 to 90

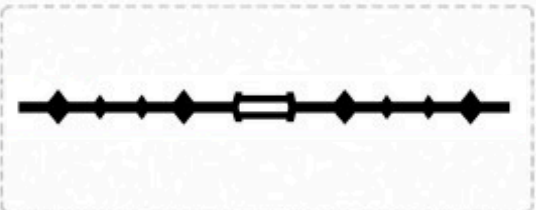
#### PROFILES

The profiles listed can also be supplied in 150, 200, and 320 mm widths. Heavy-duty 10mm thick profiles are available for situations where the hydrostatic head will exceed 50m. Factory-made junctions and fabrications are available in all sizes and configurations to suit site requirements.

01

##### Fixo Seal - PVC CF250X

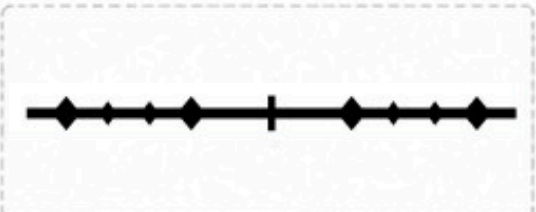
Thick web, expansion joint, center fix, 250mm wide. For use in expansion joints at the center of the section, such as walls.



02

##### Fixo Seal - PVC CF250C

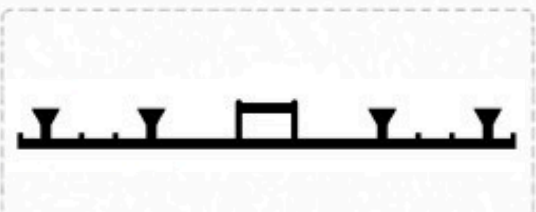
Thick web, construction joint, center fix, 250mm wide. For use in construction and contraction joints at the center of the section, such as kickers and day work joints.



03

##### Fixo Seal - PVC RF250X

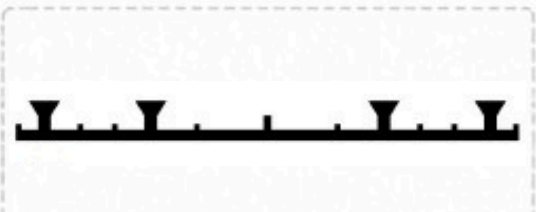
Thick web, expansion joints, rear fix, 250mm wide. For use in expansion joints at the rear of the section in slabs and walls.



04

##### Fixo Seal - PVC RF250C

Thick web, construction joint, rear fix, 250mm wide. For use in construction and contraction joints at the rear of the section, such as slabs and walls.



WATERTIGHT PERFORMANCE



EXCELLENT FLEXIBILITY



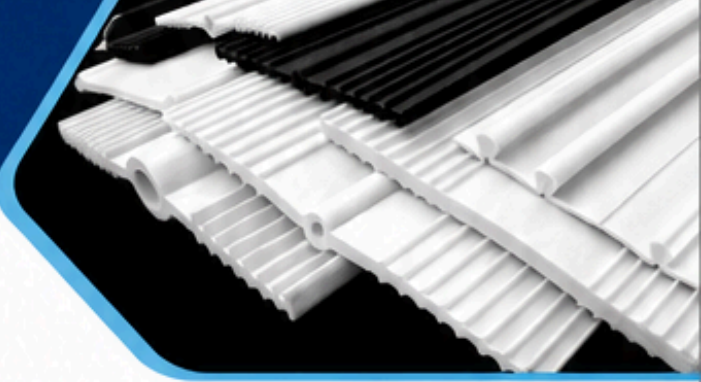
STRONG BOND TO CONCRETE



SUITABLE FOR POTABLE WATER

SEALING TODAY  
PROTECTING TOMORROW





## A. FIXO SEAL - PVC WATERSTOPS FOR EXPANSION JOINTS

1. The PVC waterstop shall be extruded from an elastomeric plastic material of which the basic resin shall be prime virgin polyvinyl chloride. The PVC compound shall not contain any scrapped or reclaimed material or pigment whatsoever.
2. Performance Requirements shall be as follows:

Property	Test Method	Required Limits
Water absorption	ASTM D 570	0.15% max
Tear Resistance	ASTM D 624	200 lb/in (35 kN/m) min.
Ultimate Elongation	ASTM D 638	350% min.
Tensile Strength	ASTM D 638	2000 psi (13.78 MPa) min.
Low Temperature Brittleness	ASTM D 746	Shall comply
Stiffness in Flexure	ASTM D 747	600 psi (4.13 MPa) min.

Property	Test Method	Required Limits
Specific Gravity	ASTM D 792	1.45 max.
Hardness, Shore A	ASTM D 2240	79 ±3
Tensile Strength after accelerated extraction	CRD-C 572	1850 psi (11.03 MPa) min.
Elongation after accelerated extraction	CRD-C 572	300% min.
Effect of Alkalies after 7 days: Weight Change / Hardness Change	CRD-C 572	between -0.10% / +0.25% +/- 5 points



**WATERTIGHT  
PERFORMANCE**



**STRONG BOND  
TO CONCRETE**



**EXCELLENT  
FLEXIBILITY**



**SUITABLE FOR  
POTABLE WATER**

## B. HYDROPHILIC WATERSTOP FOR NON-MOVING CONTRACTION & CONSTRUCTION JOINT

1. The waterstop shall be a combination of chloroprene rubber and chloroprene rubber modified to impart hydrophilic properties.
2. The waterstop shall have a delay coating to inhibit initial expansion due to moisture present in fresh concrete.
3. Performance Requirements shall be as follows:

Property	Test Method	Required Limits
Tensile Strength	ASTM D 412	350 PSI min.
Ultimate Elongation	ASTM D 412	400% min.
Hardness (Shore A)	ASTM D 2240	50 +/- 5
Tear Resistance	ASTM D 624	50 lb/inch
Expansion Ratio Volumetric Change - Distilled Water @ 70°F	—	3 to 1 min.



**HYDROPHILIC  
TECHNOLOGY**

**Designed to expand  
upon contact with  
water, forming a  
watertight seal that  
protects concrete  
structures.**