

# **Serviseal®**

External PVC waterstop system for passive protection of movement joints and construction joints in reinforced concrete structures

## **Applications**

Serviseal® is a passive external PVC waterstop system manufactured in a range of sizes for protecting joints in concrete basements and sub-structures.

Serviseal external flexible waterstop systems have a proven design using four T shaped ribs for solid embedment in in-situ concrete which create a valve action to seal the water path, and are suitable for horizontal and vertical applications. Being cast into the outside water face prevents the ingress of moisture and protects the outer layer of reinforcement from corrosion. Location on the outside face of a concrete member also promotes better compaction of the concrete around the ribs of the Serviseal since it is free from reinforcement congestion and the weight of wet concrete makes consolidation easier.

Serviseal can be used for non-suspended slabs in water retaining structures such as reservoirs, swimming pools and sewage treatment tanks.

#### Limitations

Serviseal is not suitable for walls of water retaining structures which should always have Servitite® waterstops cast centrally in the concrete wall to resist the internal water pressure.

## **Advantages**

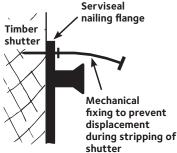
- Proven design the original external waterstop used extensively in water excluding and water retaining structures
- Flexible will accommodate movement during construction and service life
- External seal protects reinforcement from water ingress
- Pliable remains flexible at low temperatures
- Four ribs provide extended and tortuous water path
- Stabilising/Nailing flange allows fastening without damaging waterstop and prevents displacement or folding of ribs during concreting
- Pre formed junction pieces factory made range of standard junction pieces.



#### Installation

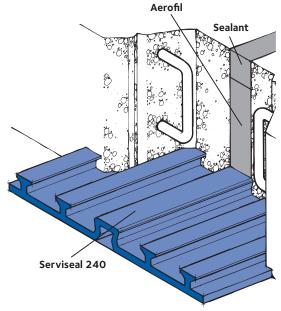
A continuous waterstop network should be used at all joints to prevent the ingress of moisture using only factory produced fabrications for changes of direction or profile with site jointing limited to simple butted welds. Before concreting, waterstops must be clean and free from concrete laitance, oil, grease or any other contamination that might prevent a good waterstop to concrete bond

The waterstop network should be loose laid direct on to the blinding concrete with timber stop-ends or securely fixed into the vertical shutters using mechanical fixings staggered at 500 mm cross centres.



### **Health and Safety**

There is no legal requirement for a Safety Data Sheet (SDS) for Aerofil. For health and safety questions on these products please contact GCP Applied Technologies. For Serviseal and GCP Sealants read the product label and SDS's before use. Users must comply with all risk and safety phrases. SDS's can be obtained from GCP Applied Technologies or from our web site at gcpat.com. Irritating fumes (Hydrogen Chloride) will be liberated when the product is heat welded. Ensure adequate ventilation.

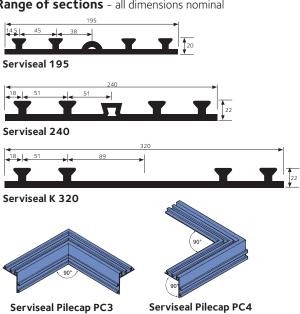


Details shown are typical illustrations only and not working drawings. For assistance with working drawings and additional technical advice please contact GCP Technical Services.

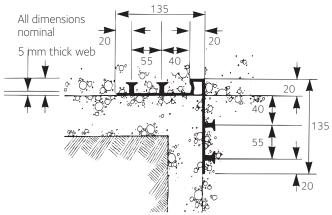
Supply		
Construction/expansion/movement joints		
Serviseal 195	10 m coil wt 19 kg	
Serviseal 240	7.5 m coil wt 20 kg	
Serviseal K 320	7.5 m coil wt 23 kg	
Pilecap and angled joints		
Serviseal Pilecap	7.5 m coil wt 21 kg	
Ancillary Products		
Aerofil, GCP Sealants		
Equipment by GCP		
Jointing Jigs	Welding Knives	
Jig Serviseal (all sizes)	Electric Knife 110v & 220v	

**Equipment by Others:** Fine tooth saw, wire brush, Stanley knife, 110v or 220v power source, blow lamp or gas torch if nonelectrical mild steel

#### Range of sections - all dimensions nominal



# Section through Serviseal Pilecap



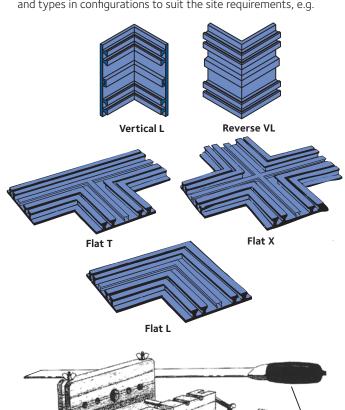
Performance		
Property	Typical Values	
Tensile Strength	≥ 14 N/mm²	
Elongation at break	> 250%	
Shore A Hardness	80 ± 4	
Specific Gravity	1.4	

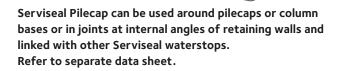
All declared values shown in this data sheet are based on test results determined under laboratory conditions and with the product sample taken directly from stock in its original packing without any alteration or modification of its component parts.

## **NBS Specification Clause**

Refer to Clause E40 310.

Factory made junctions and fabrications: Available in all sizes and types in configurations to suit the site requirements, e.g.





Jointing Jig

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110V **Electric** 

welding knife