

Serviseal®

External PVC waterstop system for passive protection of expansion, construction and contraction joints in reinforced concrete structures.

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.
- **UK WRAS listed** - for potable water 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

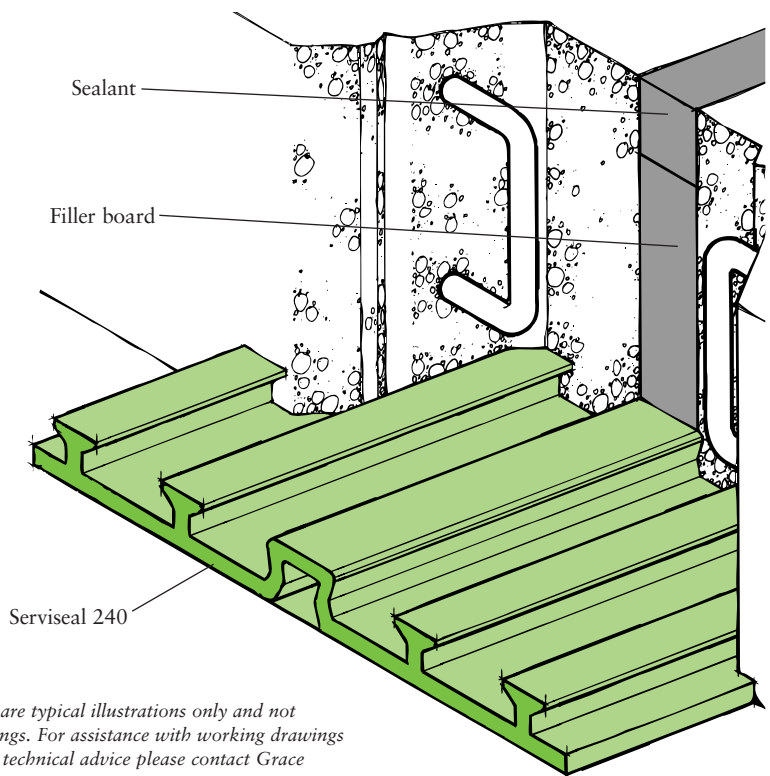
reinforcement from corrosion. Location on the outside face of a concrete member also promotes better compaction of the concrete around the ribs of the Serviseal since it is free from reinforcement congestion and the weight of wet concrete makes consolidation easier.

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

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 butt welds.

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.



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

Supply

Construction/expansion/movement joints

Serviseal® 195	10 m coil	wt 19.7 kg
Serviseal® 240	7.5 m coil	wt 21.5 kg
Serviseal® K 320	7.5 m coil	wt 23.8 kg

Pilecap and angled joints

Serviseal® Pilecap	7.5m coil	wt 24.0kg
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Ancillary products

Korkpak®, Aeroofil®, Grace sealants

Equipment by Grace

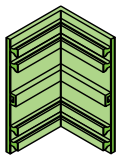
Jointing Jigs	Welding Knives
Jig Serviseal® (all sizes)	Electric Knife 110v

Equipment by Others

Fine tooth saw, wire brush, Stanley knife, 110v or 220v power source, blow lamp or gas torch if non-electrical mild steel knife is used.

Factory made junctions and fabrications

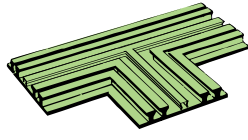
Available in all sizes and types in configurations to suit the site requirements, eg.



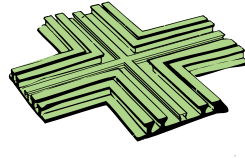
Vertical L



Reverse VL

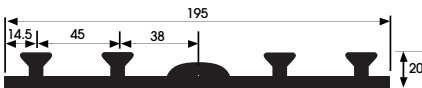


Flat T

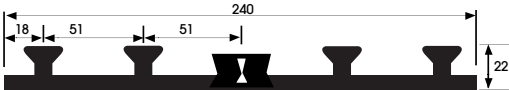


Flat X

Range of Sections - all dimensions nominal



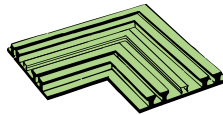
Serviseal® 195



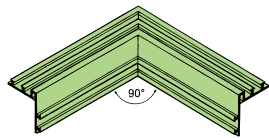
Serviseal® 240



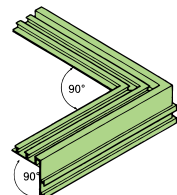
Serviseal® K 320



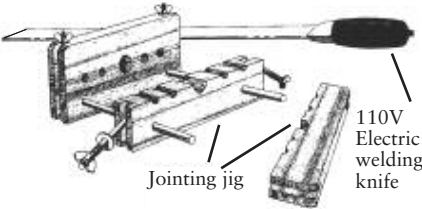
Flat L



Serviseal Pilecap PC3



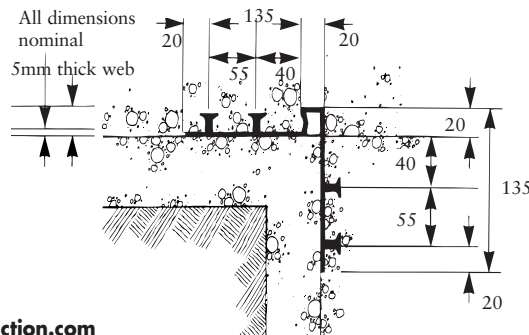
Serviseal Pilecap PC4



Jointing jig

110V Electric welding knife

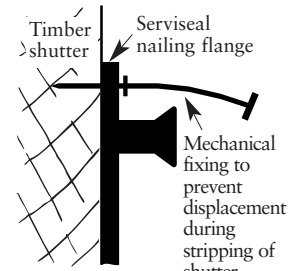
Section through Serviseal Pilecap



Serviseal® Pilecap can be used around pilecaps or column bases or in joints at internal angles of retaining walls and linked with other Serviseal® waterstops. Refer to separate data sheet.

Installation

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 500mm cross centres. A fully continuous waterstop network must be formed using only factory made junctions with site joints limited to simple butt welds of similar section.



Physical Properties

Tensile strength	15 N/mm ²
Elongation at break	310%
BS Softness	42
Specific Gravity	1.42

Compound tested in accordance with BS 2571 and are typical values.

Health And Safety

There is no legal requirement for a Material Safety Data Sheet for Serviseal, Korkpak or Aeroofil. For health and safety questions on these products please contact Grace Construction Products Limited.

Irritating fumes (Hydrogen Chloride) will be liberated when the product is heat welded. Ensure adequate ventilation.

For Grace Sealants read the product label and Material Safety Data Sheets (MSDS's) before use. Users must comply with all risk and safety phrases. MSDS's can be obtained from Grace Construction Products or from our web site at www.graceconstruction.com.

NBS Specification Clause

Refer to Clause E40 310.

Visit our web site at www.graceconstruction.com

Grace Construction Products Ltd, Ajax Avenue, Slough, Berkshire SL1 4BH United Kingdom Tel +44 (0)1753 692929 Fax +44 (0)1753 691623

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