

Groundwork & Civil Engineering



Welcome to the latest edition of our Construction Accessories Catalogue

Offering you a vast range of top quality, leading brand, Construction Accessories and supported by our nationwide branch network.

We're part of the SIG group, which has recently linked together its Insulation, Technical Insulation, Fixings, Interiors and Construction Accessories businesses, meaning that you can now source a huge range of products, all from your local SIG Construction Accessories branch, which means a true "One Stop Shop" for specialists.

At SIG Construction Accessories we pride ourselves on the service we offer to customers. You can trust us to provide a friendly, professional service and fast, responsive deliveries, locally or nationally. Our dedicated team are available with expert product and application support, including our specialist teams: Waterproofing, Masonry Components, Concrete Repair Centre and Geotechnical Centre, ensuring you get the right products for the right job, on time and within budget.



CONCRETE REPAIR CENTRE

The Concrete Repair Centre offers specialist support with expert product advice and guidance from one point of contact and access to the full range of your preferred brands, nationwide.



WATERPROOFING

We have a full range of Waterproofing products featuring the major brands within our national network of branches.

Our Technical Business Development team can assist you with the correct specification to ensure all your requirements are fully "watertight".



MASONRY COMPONENTS

Our Masonry components teams can offer technical advice for various design systems including a project management, take off and design service. We have vast experience in supplying a comprehensive range of products from Wall Ties and Brickwork Reinforcement to Masonry Support and Windpost Systems, we can offer advice on the best solution for your building requirements.



GEOTECHNICAL CENTRE

Providing the complete geotechnical solution, SIG Geotechnical Centre go beyond system design and product supply. With a mobile technical sales department to hand, providing free on-site support and advice, our dedicated in-house team are trained to offer the most cost effective and high performance systems, combined with the option for free PI cover on eligible designs.





GROUNDWORK ENGINEERING	4-39
GROUTS & ANCHORS	40-61
REINFORCEMENT & FORMWORK	62-167
WATERPROOFING	168-237
PROTECTION MATERIALS	238-249
ACCESSORIES, TOOLS & SAFETY	250-264
CONVERSION CHARTS & TABLES	265-267

4 Groundwork Engineering

Our range of civil engineering products has been used in the industry for many years, providing products for separation, reinforcement, drainage and erosion control used in major civil engineering projects including road, rail and bridges.

Gas barrier systems are designed to provide complete protection against the ingress of harmful methane, radon and CO₂ gases. Used in conjunction with gas resistant DPC, gas barrier jointing system and gas resistant self adhesive membrane, these systems offer superior protection and are all supplied from leading manufacturers.



PRODUCTS	PAGE
Insulation	5
Void Formers	7
Gas Barrier Systems	8
Protection Materials	18
Polythene DPM	19
Geotextiles	20
Geogrids	22
Gabions	24
Erosion Control	25
Plastic Paving System	27
Cellular Confinement	28
Turfguard	30
Root & Weed Barriers	31
Geocomposite Drainage Layers	33
Liners & Membranes	35
Channel Drainage	36
Screed Isolation	38



Insulation

Insulslab SFRC



Insulslab SFRC (Steel Fibre Reinforced Concrete) is an innovative high quality, patented foundation system that is suitable for use on a wide range of soil types. Insulslab SFRC is a complete system, based on a type of raft foundation which comprises a series of interlocking expanded polystyrene pods, forming a rigid 'waffle' shaped slab. Steel fibre reinforced concrete is poured over the top to form the finished foundation.

The Insulslab SFRC system is quicker to install, offers excellent thermal performance and significant cost savings when compared to traditional methods of foundation production. The foundation system facilitates easy compliance to Part L/Section 6 of the Building Regulations, without the need for an additional layer of insulation and screed



The steel fibre reinforced concrete provides many benefits:

- Excellent impact strength
- Maximum edge protection
- Improved fatigue endurance
- A higher level of shrinkage and crack control
- Greater bearing capacity
- Steel fibres do not damage power floats or concrete pumps

Simple to Design and Construct

General arrangement drawings, i.e. layout for the foundations, are designed by Insulslab structural engineers. Our consultants provide a plot specific engineering solution in order to minimise risk, whilst maximising any potential savings.

A Full Service Solution

A complete specification and installation support service is available from Insulslab SFRC's specialist technical team, including engineering, U value calculations and on-site technical support. Information provided includes: General arrangement drawings, structural calculations, U value calculations, Bill of Quantities and Schedule of Materials. Warranties can also be provided if required.

6 Groundwork Engineering



Cost Savings

This simple foundation solution provides:

- Typical savings of around 25% over a cap on piles foundation or raft replacement
- Savings vary depending on depth of trench for beam and block or suspended slabs
- No trenches required
- Minimal excavation, less disruption, reduced waste disposal
- Increased speed of construction/quicker completion times
- Reduction in labour costs

Thermal Performance and Sustainability

Insulslab SFRC complies with Part L (Section 6 Scotland) Building Regulations when correctly specified and constructed, providing:

- Typical U values of around 0.10-0.13W/m²K, depending on P/A ratio.
- Approved constructive detail.
- Significant contribution to Code for Sustainable Homes and BREEAM credit scores.
- Greater flexibility within the overall design of the thermal envelope.
- 'Future-proof' - low U values facilitates further code level upgrades.
- Reduced waste disposal and minimal site traffic.
- Less intrusive system; perfect for brownfield sites
- Less volume of concrete and steel required.

Health And Safety

The system contributes positively to Health & Safety requirements:

- Insulslab SFRC is safer to install as no trenches are required, eliminating associated risks.
- Manual handling is minimised throughout construction.
- Fewer components helps minimise site traffic.
- Less risk of injury due to minimal reinforcing requirements.
- No heavy blocks to lift.

Certification

Insulslab SFRC, using ArcelorMittal Steel Fibres, is BBA certified (visit www.insuslab.com for full details) and is accepted by the NHBC/LABC and Premier.

ArcelorMittal

For a copy of the Best Practice Guide or for a list of Insulslab contacts refer to our website at www.insuslab.com.

Void Formers

PVC Void Formers

Re-usable PVC void formers for forming grooves in concrete or nailing to formwork. All supplied in 3m lengths

Size
20 x 10
20 x 20
25 x 12
25 x 25



Polystyrene Void Formers

Polystyrene Void Formers utilise the low weight/high strength characteristics of expanded polystyrene to provide the designer and contractor with a cost effective method of reducing the deadweight of a variety of structures:

- Motorway Bridges
- Basement Slabs
- Precast beams
- Water Treatment works

The void formers are either cylindrical, generally moulded or profiled and cut from expanded polystyrene block. The moulded cylinders are available in diameters ranging from 250 to 1050mm and the standard length is 2.4m. By glueing and cutting the profiles can be manufactured to suit engineers' requirements.

8 Groundwork Engineering

Gas Barrier Systems



Proofex Total Membrane

Reinforced gas membrane designed to protect buildings and their occupants from the effects of methane, radon, carbon dioxide and other harmful gases. Like conventional ground membranes, Proofex Total also acts as a damp-proof membrane to help protect the building against the ingress of moisture from the ground.

Proofex 3000MR

A high performance self adhesive membrane for resisting methane, radon and CO₂, and preventing water entering buildings. Proofex 3000MR also provides a vapour and waterproof membrane to water excluding structures and protects concrete from attack by aggressive ground salts.

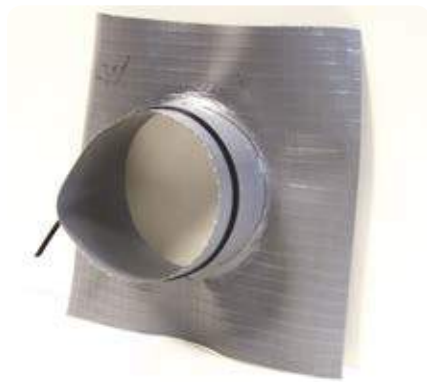
Ancillaries

Proofex Total Tape

Double-sided butyl tape for sealing of side and end laps and for use in detailing work.

Proofex Total Top Hats

MDPE sheathing, which encapsulates an aluminium foil layer.



Gas Barrier Systems

Type	Size
Proofex Total Membrane	2 x 25m, 2 x 50m
Proofex 3000MR	1 x 20m
Proofex Total Tape	50mm x 30m

Proofex Total Top Hats



Bituthene® 8000

A superior performing externally applied waterproofing membrane for basements and substructures. 70m hydrostatic pressure resistance with ultra low moisture transmission rate. Methane, CO₂ and radon gas protection. Suitable for application to damp surfaces and green concrete.



Type	Roll Size	Primer	Application Temp Range
Bituthene 8000	1 x 20m (20m ²)	B2	+5 to +35°C



Bituthene® MRX

Bituthene MRX is a methane, CO₂ and radon gas resistant grade of Bituthene specifically designed to resist the passage of methane, gas in addition to acting as a waterproof membrane protecting building foundations.

Type	Roll Size	Primer	Application Temp Range
Bituthene MRX	1 x 20m (20m ²)	B1	+10 to +35°C



Visqueen Radon Protection System

Independently Accredited by BRE Certification Ltd (Certificate Number 083/01) Visqueen Radon Membrane is an unreinforced polyethylene membrane, suitable for use in the protection of buildings from the ingress of Radon gas. Visqueen Radon Membrane will act as an effective passive radon membrane in most typical applications when installed in accordance with instructions and will also act as a damp proof membrane. For ease of identification on site, the membrane is coloured red.

Size: 25 x 4m



10 Groundwork Engineering



Visqueen Low Permeability Gas Membrane

Visqueen Low Permeability Gas Membrane offers a safe solution for the protection of buildings against radon, carbon dioxide and low levels of methane gas when installed in accordance with the relevant codes of practice.

Visqueen Low Permeability Gas Membrane is a robust co-polymer thermoplastic membrane; for ease of identification on site the membrane is coloured yellow. The membrane is supplied in 4m x 12.5m roll and has a centre fold. It is flexible and is easy to install, and is also suitable for use as a damp proof membrane.

Size: 4 x 12.5m

- Low permeability to carbon dioxide, radon and low levels of methane
- High quality robust Co-Polymer Thermoplastic Membrane

- Supplied in centre folded sheeting which reduces the risk of cracks in screed
- Complies with relevant codes of practice such as current BRE and CIRIA documentation
- Also acts as a damp proof membrane
- CE Mark to EN 13967



Visqueen GX Flexi Hydrocarbon Barrier

Visqueen GX Flexi Hydrocarbon Barrier is an enhanced polymer modified flexible membrane designed to comply with current guidance on Hydrocarbons.

Manufactured using the latest extrusion technology and drawing on our extensive knowledge and expertise in gas protection, Visqueen has developed a new flexible barrier membrane suitable in brownfield applications that are affected by Hydrocarbons.

The product is available in SWS roll format, 1.4m x 50m, and in 2 colours; white to reduce linear expansion in hot weather or grey.

Size: 1.4 x 50m

- Independently tested against various hydrocarbons
- High puncture, flexibility and tear resistance
- Minimal linear expansion
- Complies with current codes of practice
- Manufactured in the UK
- CE Mark to EN 13967





Visqueen Liquid Gas Membrane

Visqueen Liquid Gas Membrane is a grey, one-part elastomeric polymer modified liquid that dries to form a black, flexible membrane.

Size: 5.25 Litres

- Low permeability to methane, carbon dioxide and radon gases
- Ideal for complex detailing applications
- Quick installation times due to rapid drying properties
- Waterproofing membrane for below ground applications
- Vertical and horizontal damp proof membrane
- Non-toxic water based liquid
- Compatible with Visqueen sheet membrane systems

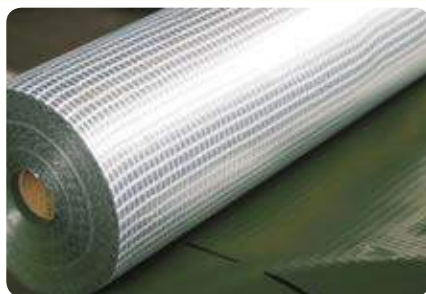


Visqueen Gas Barrier Membrane

Visqueen Gas Barrier offers a safe solution for the protection of buildings against methane, radon and carbon dioxide, when installed in accordance with the relevant codes of practice. Visqueen Gas barrier is a multi-layer reinforced polyethylene membrane with an integral aluminum foil. For ease of identification on site Visqueen Gas Barrier is coloured blue on one side and silver on the reverse. The barrier combines strength and performance with flexibility and easy installation.

Size: 2 x 25m

- Low permeability to methane, radon and carbon dioxide
- High quality multi-layer reinforced LDPE membrane with aluminum core with high levels of tear and impact resistance
- High resistance to puncture
- Complies with relevant codes of practice such as BRE and CIRIA
- Also acts as a damp proof membrane
- CE Mark to EN 13967



12 Groundwork Engineering



Visqueen GX Geomembrane

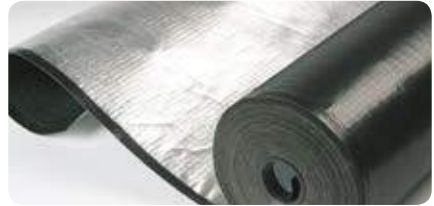
A high quality single layer HDPE membrane and is suitable for use as a barrier membrane on brownfield sites that require protection from dangerous contaminants such as hydrocarbons and methane, together with excellent damp proofing characteristics.

Size: 1mm x 2.95m x 30m
1.5mm x 2.95m x 25m



Visqueen Gas Resistant (GR) DPC

A flexible polyethylene DPC with an aluminium foil designed to prevent the transmission of carbon dioxide, radon and methane gases. This is in addition to the products usage as a damp proof course. Resistance to carbon dioxide, radon and methane is achieved by an integral aluminium film.



Visqueen Gas Resistant Self Adhesive Membrane

A self adhesive membrane designed to prevent the transmission of radon and methane gases.

Size: 1m x 20m, 2m x 50m



Visqueen Gas Membranes

Type	Radon	CO2	Methane	Hydrocarbons	Size
Radon Protection System	•				25 x 4m
Low Permeability Gas Membrane	•	•	•*		4 x 12.5m
GX Flexi Hydrocarbon Barrier	•	•	•	•	1.4 x 50m
Liquid Gas Membrane	•	•	•		20 Litre
Gas Barrier Membrane	•	•	•		2 x 25m
	•	•	•		2 x 50m
GX Geomembrane	•	•	•	•	1mm x 2.95m x 30m
	•	•	•	•	1.5mm x 2.95m x 25m
Gas resistant self adhesive membrane	•	•	•		1m x 20m

*low levels



Visqueen Zedex CPT High Performance DPC

A new generation of damp proof course, made from Co-Polymer Thermoplastic (CPT), it possesses the characteristics necessary for it to perform effectively under harsh conditions.



Visqueen Foil Backed & Standard Girth Jointing Tape

A single sided jointing tape suitable for securing laps and joints.

Size: 75mm x 50m



Visqueen Gas Barrier Jointing Tape

A double sided butyl based jointing tape. The use of a single release paper assists ease of application on site. Visqueen Gas Barrier Jointing Tape is suitable for use in the lapping and sealing of Visqueen Gas Barrier.

Size: 50mm x 10m



14 Groundwork Engineering



Visqueen Radon Sump

Where sub-floor depressurisation is required a Radon Sump should be used. This is a prefabricated plastic sump, to which pipe work is connected.

Size: 220 x 430 x 430mm



Visqueen Top Hat Units

Used to provide an effective seal around service pipe penetrations. They are available in a range of sizes, the typical size being 110mm diameter.



Ancillaries

Type	Size
Zedex CPT High Performance DPC	100-1500mm x 20m
Foil Backed & Standard Girth Jointing Tape	75mm x 50m
Radon Sump	220 x 430 x 430mm
Gas Barrier Jointing Tape	50mm x 10m
Top Hat Units	To suit pipe diameter to order



Protect GDB10 Universal Gas and Damp Barrier

Z-Led Protect GDB10 is a universal barrier membrane used to protect new buildings against harmful ground gases (Methane, Carbon Dioxide and Radon) and rising damp. When used with Z-Led slap edge protection and cavity barrier, Protect GDB10 provides complete protection when installed in accordance with BR414 2001

Z-Led Protect GDB10 is a multi-layer polyethylene/polypropylene membrane with an integral continuous solid aluminum foil, it is lightweight (17.5kg/100m² roll), incredibly strong and is clean to work with. A full range of factory fabricated accessories, tapes and subfloor depressurisation products complete the Z-Led total protection solution.



Performance and test method	MD (Along roll)	CD (Across roll)
Nail tear strength (N) to BS EN 12310-1 modified	420	380
Tensile strength (N/50mm) BS EN 12311-1 modified	760	650
Elongation (%) to BS EN 12311-1 modified	25	15
Water vapour resistance (MNs/g) to BS EN 1931	>1000	
Methane permeability based on BS EN 374-3: 2003	<1.5ml/m ² /day	
Radon permeability	4.2 x 10 ⁻¹² /m/s	
Radon transmittance	21 x 10 ⁻⁹ /m/s	
Carbon Dioxide (CO ₂) permeability to BS EN 374-3: 2003	<0.005µg/cm ² /min	
Water penetration resistance to BS EN 1928: 2001. Method A modified	Pass Class W1	



Sheetseal GR

RIW Sheetsteel GR is a cold applied, high density polyethylene film bonded to aluminium foil and coated with a bitumen/rubber self adhesive layer with a removable reinforced silicone release paper.

When designing Type A structures (as classified in BS8102:1990), the product applied correctly, is capable of providing the levels of protection required for grades 1, 2, 3 & 4 basements.

Size: 1 x 20m



16 Groundwork Engineering

RIW

Sheetseal Primer

Sheetseal primer is a bitumen solution. Min Temp +5°C.

Sheetseal			
Type	Size	Weight	Coverage
Sheetseal GR	1.05 x 19.05m	1.7kg/m ²	
Sheetseal Primers	5.25 litres		7m ² /l

IJKO
BUILDING CARE

Hyload Tanking Membrane Gastite SA

A self adhesive damp-proof and tanking membrane for protecting structures against the ingress of moisture and methane, carbon dioxide and radon gases. It can also be used as a gas resistant DPM.

Size: 1m x 20m



IJKO
BUILDING CARE

Hyload Gastite LL DPM

A loose laid damp proof membrane for the protection against damp and common ground gas. Hyload Gastite LL DPM offers a safe solution for the protection of buildings against methane, radon and carbon dioxide.

Size: 1.6 x 30m

Type	Size
Hyload Tanking Membrane Gastite SA	1m x 20m
Hyload Gastite LL DPM	1.6m x 30m
Hyload Gastite Double Sided Jointing Tape	50mm x 10m
Hyload Gastite Foil Backed Girth Jointing Tape	75mm x 50m
Hyload Pre-formed Pipe Collars (Top Hats)	Various to order



Bitusheet Gas Barrier Membrane



Bitusheet Gas Barrier Membrane

A high density polyethylene sheeting laminated to aluminium foil and coated with a self adhesive bitumen/polymer compound. Bitusheet Gas Barrier Membrane is designed for use as a cold applied flexible membrane to provide a barrier to Methane and Radon gases. Incorporating a 50mm selvedge on one edge to form homogenous overlap joints. Bitusheet Gas Barrier Membrane may be laid onto concrete blinding or directly onto compacted sand blinding with the longitudinal and end overlaps sealed.

Ancillaries

Bitusheet Primer

A one-part bituminous solution for brush or spray application. To provide the sealing of porous surfaces to promote adhesion of Bitusheet and self bonding flashings.

Bitusheet Reinforcing Tape

Self adhesive reinforcing tape comprises of a cross-laminated high density polyethylene sheet coated with a Bitumen Polymer Adhesive, faced with a release sheet.

Bitusheet Reinforcing Strip

Used to reinforce corners and changes in direction.

Bitusheet Mastic

Bitusheet Mastic Filler is a bituminous mastic of trowelling consistency.

Bitusheet HD Protection Board

A tough durable Polymeric protection board to prevent damage to the membrane during backfill.

Bitusheet

Type	Size	Coverage
Bitusheet Gas Barrier Membrane	1050mm x 28.57m	30m ²
Bitusheet Primer	5 litre can, 25 litre drum	10 - 12m ² /litre
Bitusheet Reinforcing Tape	100, 150, 300mm x 20m	N/A
Bitusheet Reinforcing Strip	300m	N/A
Bitusheet Mastic	25kg	N/A
Bitusheet HD Protection Board	3mm x 1m x 2m	2m ²

18 Groundwork Engineering

Protection Materials

OCKWELLS

Twinshield

Manufactured from twin wall polypropylene board that is tough, durable, impact and chemical resistant, non-toxic and waterproof. TwinShield does not stain and is suitable for all round protection.

- Available in LPS 1207 flame retardant because of the increased concern about the role of combustible materials fuelling major fires.
- Twinshield meets the very stringent quality control standards of the LPCB.
- Simply and quickly cut, curved or creased, lightweight and easy to position.

Twinshield

Type	Dimension	Thickness	Colour
Twinshield Standard	1.22 x 2.44m	2mm	Black/Translucent
Twinshield Standard	1.22 x 2.44m	3mm, 4mm	Translucent
Twinshield Standard	1.22 x 2.44m	5mm	Black
Twinshield Standard	1.22 door size	2mm	Black
Twinshield FR	1.22 x 2.44m	3mm, 4mm	Translucent
Twinshield FR	1.22 door size	2mm	Translucent

OCKWELLS

Polypropylene Protection Board

Polypropylene protection board of corrugated structure easily cut, curved or creased on corrugations. Tough and durable. 2.0mm and 8.0mm thick.

Polypropylene Protection Board

Type	Thickness	Sheet Size
BD2POL	2mm	1.22 x 2.44m
BD8POL	8mm	1.225 x 2.5m
BD2/CLEAR	2mm	1.0 x 2.0m



Temporary Protection Polythene

Temporary Protection Polythene for covering up materials and work on site.

Temporary Protection Polythene

Code	Thickness	Roll Size
TPS	50mu	4 x 25m
500G	125mu	4 x 40m



Polythene DPM

Polythene DPM

Manufactured from high quality reprocessed Low Density PolyEthylene (LDPE) Damp Proof Membranes have successfully prevented moisture penetration from floors for many years.

- BBA Approved
- High puncture resistance
- Withstands rough site handling
- Comprehensive range to satisfy most site conditions



Polythene DPM

Type	Size	Weight
250mu (1000 gauge)	4 x 25m	23kg
300mu (1200 gauge)	4 x 25m	27.6kg
500mu (2000 gauge)	4 x 12.5m	23kg
Double sided jointing tape	10mm x 50m	N/A
Girth jointing tape	100mm x 33m	N/A
Temporary Protection (TPS)	4 x 25m	N/A

Geotextiles

SIG Geotechnical Centre provide an extensive range of both woven and non-woven geotextiles from basic separation textiles to high strength reinforcement and protection fabrics.

SIG Geotechnical Centre can offer complete technical support ensuring the right product for your application with an experienced team available to give support on site or over the telephone. With government targets in place to reduce the amount of aggregate used in developments, as well as the associated expense of using stone for ground reinforcement, it is important to retain any stone that is laid.

Applications

- Separation layer
- Reinforcement
- Filtration
- Protection
- Drainage
- Indicator layer

Benefits

- Extensive range both woven and non-woven
- Cost effective solutions
- Quick and easy installation
- Full technical support and advice



Geotec TB

SIG Geotechnical Centre offer a comprehensive range of non-woven thermally bonded filtration, separation and reinforcement geotextiles, which provide a high level of engineering performance. With high water flow and excellent filter properties, combined with superb strength and elongation, Geotec TB offers outstanding performance.

Geotec NP

Geotec NP is a range of high performance needle punched fabrics providing high puncture resistance, making it ideal for use in landfill and membrane protection applications.

Geotec W

Geotec W is a range of woven polypropylene geotextiles which act as an excellent separator and reinforcement membrane preventing the loss of expensive stone to the soil below, no matter what ground conditions or what stone is used. High strength wovens are available for reinforcement applications.

Geotec 90

Geotec 90 is a woven geotextile used as a separator in all types of civil engineering, building and landfill projects. Its woven construction delivers high tensile and puncture strengths, making it particularly suitable in separation applications. Geotec 90 is manufactured from extruded polypropylene tapes that are resistant to all naturally occurring soil acids and alkalis and are unaffected by bacteria and fungi. Geotec 90 can be used below access roads (both temporary and permanent) to create a barrier on which to place the crushed stone foundation layer.

Indicator Layer

Geo-Signal provides a cost effective warning barrier to alert of contaminated land or buried services. This bright orange woven textile combines excellent separation performance with a highly visible appearance to make it an ideal indicator layer.

Mini Packs

SIG Geotechnical Centre mini packs are available in woven and non-woven options suitable for horticultural, landscaping and domestic applications uses. They are designed to separate materials and suppress weeds while allowing the passage of water, air and nutrients through. The rolls come in sizes of 1m x 14m, 4.5m x 11.1m, 2m x 25m and 2m x 50m making them easy to install.

Geogrids

SIG Geotechnical Centre offer a comprehensive range of Geogrids, both biaxial and uniaxial, available in polypropylene or polyester. Geogrids can be used in most buildings and civil engineering applications.

Design Service

A PI covered design service is available free of charge, enabling SIG Geotechnical Centre to offer you a cost effective and technically competent solution for any application you may have.

Applications

- Windfarm access roads
- Highways
- Piling platforms
- Reinforced soil walls
- Retaining walls
- Basal reinforcement
- Load transfers

Benefits

- High strength at low strains
- Immediate interlocking
- Reduction in aggregate thickness
- Low creep (polyester)
- High angles of friction
- Excellent resistance to installation damage
- An extensive range of strengths from 20 to 400KN
- Quick and easy installation
- BBA Certified to reinforce slopes up to 70°
- CE marked
- Design service available



Secugrid

SIG Geotechnical Centre offer a comprehensive range of Geogrids, both Uniaxial and Biaxial, available in polypropylene and polyester. With a range of strengths from 20 to 400kN, Secugrid can be used in most building and civil engineering applications including piling mats, basal and embankment reinforcement. Secugrids are the next generation of Geogrids produced with state-of-the-art manufacturing technology. The reinforcement element is highly orientated polypropylene or polyester bar that is uniformly extruded and drawn to achieve high modulus and strength at low elongation, which provides a structurally sound stable Geogrid.

Secugrid absorbs tensile forces induced into the soil and distributes the stresses through the high tensile strength bars. The transfer of force takes place by two distinct modes - Interlocking of the granular soil into the grid apertures which physically restrains lateral movement of the granular base course material and friction force transfer between the soil and the wide flat bars of Secugrid. The Secugrid apertures allow for strike through of the cover soil material which then interlock with the bars, providing confinement of the overlaying granular/soil material due to the strength and stiffness of the ribs. This interlocking of the soil combined with the very high product modulus, minimises soil deformation and ensures the integrity of the application. Large aperture grids are available where the fill has a partial size of over 75mm.

Combigrid

Combigrid is a biaxial Geogrid incorporating a non-woven geotextile. With Combigrid, the geotextile layer is heat-bonded between the lateral and longitudinal grid elements, forming a completely integrated finished product. Combigrids are mainly used in conjunction with soft and low CBR (California Bearing Ratio) soils where soil reinforcement in conjunction with separation and filtration is required. The main advantages over using separate products are that Combigrid reduces handling, storage and installation time and costs.

Gabions

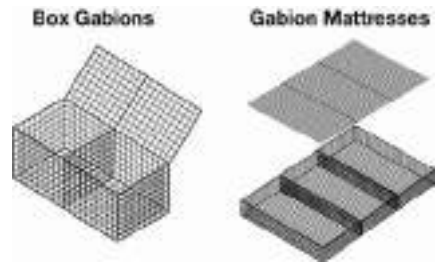
Gabions and Mattresses offer a fast effective solution for many earth stabilisation problems. Gabion systems are widely used in many applications including retaining walls, erosion control, scour prevention, landscaping and for coastal protection, in applications such as river and sea control. The strength and flexibility of the welded mesh helps withstand and absorb the forces generated by retained earth or water flow.

Applications

- Retaining walls
- Gabion reinforced walls
- Revetments
- Waterway walling
- Coastal protection
- Erosion control
- Landscaping

Benefits

- Quick and easy to install
- Attractive finish
- Low maintenance
- Bespoke products made to order
- Design advice service available



Welded Gabions and Mattresses are often more environmentally acceptable than mass concrete structures, and offer a fast build application. Using Gabions as an alternative to the more traditional concrete structures allows you to fill them with local stone or vegetation, giving the product a more attractive natural appearance. Manufactured from welded wire with a square mesh of 76.2mm x 76.2mm or 50.8mm x 50.8mm they are available in PVC-Zinc coated, triple life corrosion protection (95% Zinc 5% Aluminium) or stainless steel and come in standard sizes as well as bespoke sizes manufactured to order. SIG Geotechnical Centre can offer a design service on request.

Erosion Control

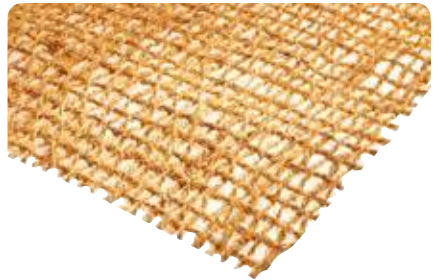
SIG Geotechnical Centre offers a full range of both biodegradable and non-biodegradable erosion control matting. The comprehensive range on offer from SIG Geotechnical Centre ensures a cost effective solution to any erosion application you may have.

Applications

- Highway/railway embankments
- Waterways
- Lagoons and ponds
- Newly cut embankments
- Reservoirs and lakes
- Landfill capping
- Reinforced earth wall facing

Benefits

- Quick and easy to install
- Strong, robust and flexible
- Immediate protection
- Prevent run off and the loss of soil
- Gives protection to seeded areas whilst the vegetation establishes
- Provides an ideal micro climate for newly seeded areas
- Full technical and on-site support
- A competitive and cost effective solution



26 Groundwork Engineering

Slope Guard Biodegradable

The Slope Guard Biodegradable range includes matting made from Hessian, Jute and Coir which are environmentally friendly solutions for even the most severe erosion applications. Biodegradable matting acts as a protection to the slope preventing erosion and the loss of expensive soil and giving slope stability as well as providing an ideal micro climate for seeds to germinate. The materials have a lifespan of between 1 and 5 years with weights ranging from 150-1500grams.

We can also offer a wide range of pre-seeded blankets with all types of seed mixes to go with them;

- Slope Guard Type 1- Jute soil saver 500 grams
- Slope Guard Type 2- Hessian blanket
- Slope Guard Type 3- Coir matting
- Slope Guard Type 5- Pre-seeded Coir matting

Slope Guard Type 4

Slope Guard Type 4 is non-biodegradable soil retention matting manufactured from Polypropylene. Formed in a 3 dimensional structure allowing soil filling over its entire structure, providing reinforcement to the slope whilst giving root support, lessening the effect of rain bombardment and preventing seed and soil loss.

Envirotrak

Envirotrak is a lightweight high load paving reinforcement system manufactured from recycled plastics with a cellular construction. Envirotrak's unique interlocking design coupled with high loading strength provides a strong and robust surface. Envirotrak can take loads of up to 350 tonnes per square metre. It is extremely versatile and may be used in a wide range of applications. The interlocking design not only means it is easy to piece together but also stays securely in place when being installed.

Applications

- Car parks
- Pathways
- Caravan parks
- Temporary access routes
- Cycle ways
- Emergency access routes
- Ground stabilisation
- Can be used as part of a SUDS system

Benefits

- Quick and easy to install
- Durable but lightweight
- Unique interlocking system
- Permeable
- 100% recycled
- Prevents the loss of expensive gravel
- Zero maintenance
- Suitable for grass or gravel
- 25 tonne axle loading
- Non-slip
- UV stable
- Unaffected by climate
- Designed and manufactured in the UK



Envirotrak can be filled with grass or gravel. When used with top soil and seed a 95% grass covering is provided, giving an aesthetically pleasing natural finish. Alternatively gravel can be used giving a robust and stable base with fast water dispersion, whilst reducing the loss of expensive gravel and preventing rutting and movement. The cell design also allows excellent water dispersion making it an ideal product for areas prone to flooding, and can also be used as part of a SUDS system (sustainable urban drainage system). Demarcation blocks are also available as infills on the Envirotrak. Perfect for directing traffic or marking out areas such as car parking spaces.

Cellular Confinement System

Geotechnical Centre web is a multi-purpose strong and robust cellular confinement system. It has a 3-dimensional honeycomb structure made from strips of extruded polypropylene forming a lightweight expandable structure.

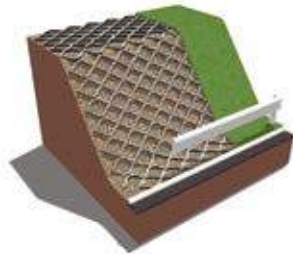
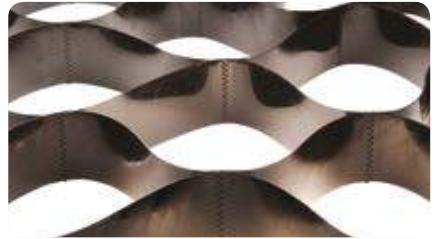
Its ultrasonically welded joints deliver extremely high tensile strengths, improving soil bearing capacity up to 17 times.

Applications

- Erosion control
- Tree root protection
- Slope stabilisation
- Car parks
- Roadways
- Ground stabilisation

Benefits

- Prevents run off and soil erosion
- Permeable
- Supports soil up to 17 times load bearing capacity
- Strong and flexible
- Quick and easy to install
- Bespoke sizes available
- Manufactured in the UK



Load Bearing

As a surface reinforcement system SIG Geotechnical Centre Web provides a strong and stable load bearing surface giving the soil up to 17 times its normal load bearing capacity. Supporting and isolating the load bearing surface from the weaker sub grades below, SIG Web solves the load bearing issue whilst giving an aesthetically pleasing finish.



Erosion Control And Slope Stabilisation

When used on embankments SIG Geotechnical Centre Web increases the soil's natural resistance to erosion whilst also providing protection to the root zone. The confinement system of SIG Web allows the soil to be held in place preventing movement that would normally take place due to hydrodynamic and gravitational forces, preventing soil erosion and providing a stable embankment.



Tree Root Protection

SIG Geotechnical Centre Web is an ideal solution for tree root protection. The Web provides a stable and firm surface for roads and paths in areas where there are trees and Geotechnical Centre offers long term performance by evenly spreading the load reducing sub soil compaction above the roots. The permeable structure of the Web allows the migration of water and nutrients to the tree root to encourage healthy growth.



Turfguard

While grassed areas provide a naturally aesthetic environment, when they have been trafficked on by either vehicles or pedestrians there is a risk of the grass being damaged or worn away. SIG Geotechnical Centre offer a wide choice of grass reinforcement meshes that provide a range of performance levels from light caravan park usage through to heavy duty reinforcement mesh used for access roads and car parks.

Applications

- Overspill car parks
- Pathways
- Golf courses
- Lightweight runways
- Wheelchair access routes
- Grass verges
- Light aircraft Taxiways

Benefits

- Easy and quick to install
- No need for excavation
- Extensive levels of reinforcement and protection
- Suitable for permanent or temporary applications
- Rot resistant and UV stabilised for longer life
- Available in black or green



Turfguard is manufactured from HDPE which makes the product tough and durable whilst also being flexible and lightweight for ease of installation. Turfguard can be used to either temporarily or permanently reinforce grassed areas, preventing rutting and other damage caused by vehicle and pedestrian traffic.

Root And Weed Barriers

SIG Geotechnical offers an extensive range of geocomposite drainage and gas venting layers. Replacing the traditional method of granular stone drainage the Geoflow system offers real cost savings in both material and installation costs.

Applications

- Lining tree pits
- Landfill
- Pavements
- Brownfield sites
- Foundation protection
- Pipe barriers
- Landscaping

Benefits

- Weed suppressant and containment
- Strong and flexible
- Chemically Inert
- High strength
- Long lasting
- Permeable and impermeable options



Root Barriers

SIG Geotechnical Centre offer a range of permeable and impermeable root barriers. Tough and durable, these liners prevent damage by invasive root growth giving protection to structures such as roadways, pipelines and housing.

Weed Control Fabrics

SIG Geotechnical Centre weed barrier fabrics have high filtration properties coupled with excellent puncture resistance making them ideal weed suppressants by massively reducing root penetration into the soil but allowing water and nutrients to enter the soil. These control weeds without the need for the use of chemicals. Available in mini packs for domestic use in garden or patio applications through to large 450 square metres rolls for large landscaping projects.

Japanese Knotweed Barrier-DGW and Rootex

DGW

DGW is a specially coated impermeable polypropylene geomembrane specifically used for the containment and encapsulation of Japanese Knotweed. Available in prefabricated panels to increase speed of installation.

Root X

Root X is a unique permeable root barrier consisting of a layer of copper sandwiched between two layers of geotextile. Root X is predominantly used in the control of Japanese Knotweed. The copper foil releases inert chemical traces which shoots and roots are adverse to. The copper ions are minute and as a result do not create a burden on the eco-system or groundwater. Root X provides significant cost savings as it controls Japanese Knotweed completely on site, removing the need to transport contaminated material from site or the need to construct large plastic boxes to encapsulate the contaminated soil. When installed correctly, Root X enables contaminated areas to be completely sealed off and built over.

Geocomposite/Geoflow Drainage

SIG Geotechnical Centre offers an extensive range of geocomposite drainage and gas venting layers. Replacing the traditional method of granular stone drainage the Geoflow system offers real cost savings in both material and installation costs.

Geoflow is made up of a high strength, high flow cusped HDPE core which forms a void to drain or vent with a filter geotextile on one or both sides. When used as part of a waterproofing system Geoflow acts as both a drainage layer reducing water pressure and as protection to the waterproofing membrane. It is ideal for retaining walls, buried structures, underground reservoirs, roof gardens and tunnels. Geoflow can also be used on landfill sites and highway edge drainage.

Applications

- Retaining wall drainage
- Bridge abutments
- Sports fields
- Edge of highways (Fin drains)
- Buried structures
- Gas venting
- Underground reservoirs
- Green roofs
- Cavity drainage and structural waterproofing
- Block paving drainage

Benefits

- No need for expensive imported fill
- Extremely cost effective against traditional stone drainage methods
- Little excavation needed
- Quick and easy installation
- Acts as a drainage and protection layer
- Full technical and on-site support
- A vast product range to suit any application



34 Groundwork Engineering

Structural

Geoflow can be used horizontally or vertically in applications such as buried structures, bridge abutments, basement walls and behind retaining walls giving high performance flow whilst maintaining its integrity even under extreme loads.

Sports Field and Block Paving Drainage

Geoflow can be produced in strips between 100mm and 300mm deep fully encapsulated in a geotextile filter for drainage under block paving or in sport fields, giving a cost effective alternative to traditional methods. Block paving Geoflow strips can be used to aid drainage and prevent the sand drainage layer from becoming too saturated; liquefying and dispersing through the joints, which when trafficked will potentially cause the surface to become uneven and unstable.

Edge Of Highway Drainage/Fin Drains

Geoflow Fin drains can be produced for edge of highway drainage. These products are cost effective when compared to traditional methods as there is no need to excavate a large trench or import expensive stone.

Landfill Drainage and Venting

SIG Geotechnical Centre provide a range of drainage and venting products for landfill sites, ranging from landfill cap drainage, gas collection and venting and leachate drainage layers.

Clay Liners and Plastic Membranes

We offer an extensive range of Liners for all types of waterproofing, ie. from ponds and lagoons to basements and structures.

Applications

- Basements
- Foundation piles
- Lift pits
- Ponds
- Canals
- Lagoons
- Contaminated land
- Landfill

Benefits

- Quick and easy installation
- Full technical support and design service available
- Roll sizes to suit your project large or small
- Self sealing overlaps for ease of installation
- Prefabricated panels available (Geomembrane only)
- Can reduce construction costs by replacing compacted clay



Bentofix BFG 5000

Bentofix BFG 5000 is a high performance structural waterproofing system which consists of Sodium Bentonite waterproofing compound sandwiched between two layers of Geotextile. The special property of Sodium Bentonite is its ability to swell when it comes into contact with water which causes the dry clay to convert into an impervious gel, making Bentofix an ideal solution safely sealing concrete structures. Bentofix BFG 5000 is ideal for use in irregular shaped applications, such as ponds and canals.

Bentofix NSP 4900

Bentofix NSP 4900 is a geosynthetic clay liner designed for use in large applications such as reservoirs. It has additional Bentonite impregnated into a 50cm overlap so installation simply consists of unrolling and overlapping with no further manual involvement. Bentofix NSP 4900 consists of a layer of Sodium Bentonite held between two layers of geotextiles. The layers are mechanically bonded together using a patented needle punching process.

36 Groundwork Engineering

Geomembranes

Geomembrane liners can be produced from a number of materials such as HDPE, LLDPE and butyl. These products can also be made in several different thicknesses and can have a textured or smooth finish. They provide a complete seal against even the most toxic substances; they can be delivered to site prefabricated to suit your exact project requirements, making installation hassle free without the need for on-site welding. Geomembranes liners are also ideal for use in applications such as ponds, water storage areas and lagoons. Attenuation tank membranes and geotextiles are also available, these can be prefabricated for quick and easy installation.

Channel Drainage

SIG Geotechnical Centre offer a wide range of flexible channel drainage systems, suitable for a variety of applications including driveways, car parks, and loading areas to more specialist applications such as chemical plants and shower rooms. These are all designed to offer cost effective, efficient solutions for the collection and evacuation of surface water.

Applications

- Driveways
- Pedestrian zones
- Highways
- Loading areas
- Food preparation areas
- Chemical plants
- Shower rooms

Benefits

- Choice of grating styles and materials
- Loading class A15-F900
- Unique locking systems
- Choice of channel bases
- Different widths and depths available
- Wide range of accessories



Polymer Concrete Channel

Key Features

- Up to 75% lighter than conventional concrete channels.
- Outstanding hydraulic properties thanks to the proven 'U-shaped cross section' channel shape.
- Extremely resistant to abrasion and chemicals.
- High temperature stability and resistance to ageing provide for an extended service life.
- Capillary free – for the rapid discharge of water and dirt.
- Available in both level and linear fall. For channels with nominal widths above 100mm a stepped fall is available.
- Z/S Channels with Galvanized (Z) or Stainless (S) edge protection for load class A15-C250 available in nominal width 100mm.
- EN Range available with different grating options ranging from D400-F900. Available in nominal widths 100, 150, 200 and 300mm.

GRP Channel

Key Features

- Extremely stable, yet lightweight high-tech material of GRP – proven in aircraft, ship and racing car construction.
- High resistance to breakage and an extraordinarily high load bearing capacity guarantee a wide range of applications.
- Extremely resistant to abrasion and chemicals.
- Maximum discharge rates – even for low water levels – due to an improved cross-section shape.
- High temperature stability and resistance to ageing provide for an extended service life.
- First complete and sealable channel system in GRP to EN 1433 with CE conformity.
- Available with different grating options: i.e. slotted and mesh gratings in galvanised steel, as well as ductile iron slotted gratings.

Screed Isolation



Regupol E48: High Performance Screed Isolation

A recycled tyre crumb product designed to isolate screeds from the main structure of the building, reducing impact energy generated by general footfall. It is used under all types of floor screeds in most new build constructions including apartments, schools, hospitals, hotels, libraries and supermarkets.

It is suitable for use with beam and block and precast concrete plank floors. With airborne sound insulation of 50dB and impact sound insulation of 49dB it outperforms the requirements of Building Regulations Approved Document E (2003).

It has a nominal thickness of 8mm with a dimpled underside.



Code	Roll Size
E48	1.25 x 10m



Regupol 6010BA: Heavy Duty Screed Isolation

A recycled tyre crumb product designed for use where high loads are apparent, yet acoustic performance is critical. It has airborne sound insulation of 65dB and impact sound insulation of 43dB giving performance significantly exceeding that of Approved Document E, 2003.

Its primary use is to isolate floor screeds in new build constructions which require high levels of sound isolation, such as luxury apartments, schools, hospitals, hotels, libraries and retail units. It can also be used beneath wooden based floors and areas of sensitivity such as gymnasium floors.

The product thickness is 17mm nominal (with a dimpled underside) and its load bearing capacity is 5000kg/m² (50kN/m²).



Code	Roll Size
6010BA	1.25 x 10m



Regupol 6010SH: High Load Isolation

A recycled tyre crumb product designed for use where very high loads are apparent, yet acoustic performance is critical. Its acoustic performance (30dB impact sound insulation) exceeds that of the standards quoted in Approved Document E, 2003.

It was developed to greatly enhance the impact and airborne acoustic properties of screeds and timber based floors where loads exceed that of standard constructions in both new build constructions and refurbishments. Typical applications include car parks, penthouses, music studios and gymnasium floors.

It has 15mm nominal thickness and a maximum load bearing capacity of 10000kg/m² (100kN/m²).



Code	Roll Size
6010SH	1.25 x 10m



Regupol 7210C: Screed Isolation

A cost-effective rubber bound product designed to isolate screeds from the main structure of the building, reducing impact energy generated by general footfall.

It is used under all types of floor screeds in new build apartments and is aimed at constructions where Pre-Completion Testing (PCT) is preferred to that of a Robust Detail (RD).

It is supplied in sheets 5mm thick and has airborne sound insulation of 49dB and impact insulation of 46dB.



Code	Roll Size
7210C	1.15 x 2.3m

40 Grouts & Anchors

Precision Grouting

SIG Construction Accessories supply cementitious, polyester or epoxy products for the alignment and levelling and gap filling in the following and many more applications:

- Crane rails
- Capstans
- Landing lights
- Under-rail pads
- Sleeper bearings
- Bridge bearings
- Balustrades
- Crash barriers
- Pump bases
- Sluice Gates
- Machine bedding
- Baseplates

Anchoring & Fixing

We offer products to aid the high strength and corrosion resistant anchoring of bolts and bars in concrete, rock, masonry or brickwork particularly where speed of installation and early application of load is required.

Our range includes cementitious, polyester, epoxy, cartridge systems and capsules for use in:

- Anchoring of bolts
- Anchoring of rebar
- Anchoring of dowels
- Fixing of cavity wall ties
- Fixing to soffits and walls
- Fixing landing lights
- Fixing of threaded studs



PRODUCTS

PRODUCTS	PAGE
Cementitious Grouts	41
Epoxy Based Anchor Grouts	46
Cementitious Anchor Grouts	47
Polyester Anchor Grouts	48
Chemical Fixings	50
Steel Anchors	55
Lightweight Anchors	58



Cementitious Grouts



Five Star Grout

A standard cementitious grout developed for applications where an economical grout with good flow and strength is required. Five Star Grouts are based on specially selected Portland cements, graded aggregates and admixtures including a special form of carbon. This special formulation produces a grout that conforms to ASTM C827 Early Volume Change of Cementitious Mixtures. Does not contain iron, aluminium or other additives which eliminates any subsequent problems of dimensional instability, corrosion or staining. Five Star Grout is designed primarily as a flowing grout but can also be used at a trowellable or dry pack consistency. It can be applied in thicknesses from 10 to 100mm.

Size: 25kg

Uses:

- Under stanchion plates and machinery (static loads only)
- Grouting bearings, precast units, floors etc.
- Fixing anchor bolts, ballustrades, crash barriers, starter bars
- Underpinning
- Void filling



Five Star Grout SP

Five Star Grout SP is a special performance, higher flow version of the standard grout. It can be applied in thicknesses from 10 to 50mm. It has superior properties and complies with HA Spec 2601.4 for use in bridge bearings.

Size: 25kg



42 Grouts & Anchors



weber.cem Construction Grout

weber.cem grout is a premixed non-shrink cementitious grout developed for applications where an effective grout with adequate flow and strength is required. It is designed primarily as a pourable grout but can also be used at a plastic or dry pack consistency.

This grout can be pumped or poured and can be applied in thicknesses ranging from 10mm to 100mm. It can be used for many general purposes.

Size: 25kg



weber.cem Grout HF (High Flow)

weber.cem grout HF is a cementitious, non-shrink grout developed for applications where a cost efficient grout with high fluidity and adequate compressive strength is required. weber.cem grout HF is designed primarily as a fluid grout but can also be used at a pourable or dry pack consistency.

Size: 25kg



Type	Size	Yield / Coverage
Five Star Grout	25kg	14 litres at pourable consistency
Five Star Grout SP	25kg	14 litres at pourable consistency
weber.cem Construction Grout	25kg	13 litres at pourable consistency
weber.cem Grout HF	25kg	13 litres at pourable consistency



Conbextra GP

General purpose, non-shrink cementitious grout for gap thicknesses 10 to 75mm. Recommended applications include stanchion base plates, bolt pockets and void filling. At trowellable consistency it is recommended for bedding load bearing components.

Size: 25kg





Conbextra HF

High flow, non-shrink, cementitious grout for gap thicknesses 10 to 100mm. Recommended applications include:

- Large stanchion baseplates
- Joints between pre-cast concrete panels
- Pumped grouting applications
- Grouting applications where pouring access is restricted

Size: 25kg



Conbextra BB

Non-shrink cementitious bridge bearing grout. Used for grouting beneath bridge bearings, parapet posts, flanged lighting columns.

Size: 25kg



Conbextra TS

Non-shrink cementitious grout for thick section grouting of thicknesses 75-500mm. It is ideally suited to thick section grouting as it contains aggregates that reduce exothermic heat generation and risk of thermal cracking common with gap thicknesses in excess of 100mm.

Size: 25kg



Conbextra UW

Non-shrink cementitious grout for underwater applications.

Size: 25kg

44 Grouts & Anchors



Cebex 100

Expanding and plasticising grout admixture used with either neat cement or sand and cement mixes. It is incompatible with High Alumina Cement.

Size: 227g



Fosroc Cementitious Grouts

Type	Size	Yield
Conbextra GP	25kg	Flowable: 13.25 litres
Conbextra HF	25kg	Flowable: 13.25 litres
Conbextra BB	25kg	Flowable: 13.5 litres
Conbextra TS	25kg	Flowable: 12 litres
Conbextra UW	25kg	Flowable: 14.5 litres
Cebex 100	227g	1-2 units per 50kg of cement



Masterflow 765

A ready to use, non-shrink construction grout for effective contact and support. It can be used from fluid to plastic consistencies for grouting of equipment and machinery, bearing pads, rails and anchoring.

- High early strength for rapid installation and use of plant
- Durable, uniform dense structure
- Good workability for up to 1 hour at 20C
- Can be applied in thicknesses ranging from 10-75mm

Recommended for:

- Grouting bearing pads and plinths
- Grouting under machinery base plates, stanchion bases and crane rails
- Anchoring bolts, reinforcing bars and rods
- Underpinning





Sika Grout 212

A high strength pre-packed non-shrink cementitious grout. For grouting bolts, fittings, anchor bolts, machine beds, chain bolts, columns, bridge bearings, holes, cavities, etc. for gap sizes 10 - 75mm.

Size: 25kg



Sika Armorex Construction Grout

A one-component, flowable, general purpose cementitious construction grout for gap sizes 10-100mm.

Size: 25kg



Sika Armorex L2 High Flow

A one-component, high strength, shrinkage compensated cementitious grout for gap sizes 10-100mm. Available in grey only.

Size: 25kg



Sika Cementitious Grouts

Type	Size	Coverage
Sika Grout 212	25kg	14 litres at pourable consistency
Sika Armorex Construction Grout	25kg	14.2 litres
Sika Armorex L2 High Flow	25kg	13.5 litres

46 Grouts & Anchors

Epoxy Based Anchor Grouts

Epoxy resin grouts for use where extremely high strength and/or chemical resistance is required. Uses include grouting in heavy machinery, crane and transporter rails, high speed turbines, drop forges, refineries, electroplating works and chemical plants.



Conbextra EP10

Conbextra EP10 is for grouting gap thicknesses from 0.25 to 10mm. It is an all-liquid system consisting of a base and hardener.

Size: 3 Litres



Conbextra EPR

Conbextra EPR is for grouting gap thicknesses from 10 to 120mm and is a three-component system consisting of base resin, liquid hardener and specially graded inert fillers.

Size: 8 Litres/ 16 Litres





weber.tec EP Pourable Grout

Specially formulated from epoxy resin and graded aggregates producing materials with exceptional tough characteristics.

- Capable of withstanding high dynamic loads
- High compressive and tensile strength
- Very good chemical resistance
- Cure within the temperature range 5°C to 35°C
- Negligible shrinkage factor allows use for underplate or rail grouting.
- Grout remains in contact with the underside
- Can be placed in much thinner sections than cementitious grouts resulting in cost savings, chemical resistance, good flow characteristics and negligible shrinkage

Size: 25kg



Sikadur 42

Pourable epoxy grout. Cures down to 5°C. Fast setting.

Size: 24kg

6 Litres per 12kg



Cementitious Anchor Grouts



BASF Masterflow 885

A non-shrink, metallic reinforced grout for grouting and precision bearing operations where shrinkage must be eliminated to achieve full bedding and load transfer.

- Turbines, generators and compressors
- Rolling, stamping, drawing and finishing mills
- Paper machine soleplates
- Anchor bolts and rods
- Machinery and equipment requiring high strength maximum bearing

Size: 25kg

Polyester Anchor Grouts

High-strength corrosion-resistant anchoring of bolts and bars into concrete, rock, masonry or brickwork where high speed of installation and early application of load is required. Permanent installation of reinforcement starter bars, MOT bolts, foundation bolts, base plates, balustrading, barriers and safety fences, railway tracks and tie-back anchors.



Lokfix S25

(pourable grade, 25 minute gel at 20°C):

For use where the hole is 8 to 40mm greater in diameter than the bar.



Lokfix P25

(pumpable grade, 25 minute gel at 20°C):

Used in overhead or horizontal holes where the hole is up to 25mm greater in diameter than the bar. The thixotropic nature of Lokfix P25 reduces flow of grout out of the hole.



Fosroc Lokfix usage guide

To determine the quantity of material per 100ml of hole depth

		Bolt Diameter							
		12mm	16mm	20mm	25mm	32mm	38mm	44.5mm	51mm
Hole Diameter	20mm	0.02							
	25mm	0.038	0.029	0.018					
	32mm	0.069	0.06	0.049	0.031				
	38mm		0.093	0.082	0.064	0.033			
	45mm			0.128	0.11	0.079	0.046		
	51mm				0.155	0.124	0.091	0.046	
	57mm				0.206	0.175	0.142	0.1	0.51
	64mm				0.273	0.241	0.208	0.166	0.117
	76mm					0.373	0.34	0.298	0.249

Bar Grout Estimator

Guide for number of bolts with 2.5 litre pack based on hole depth 150mm.

Hole (mm)	Bolt Sizes			
	12mm	16mm	20mm	25mm
16	180	-	-	-
20	80	150	-	-
25	30	40	60	-
32	20	22	26	40



weber.tec Anchor Grout

A two-component polyester resin and special catalysed filler that has been developed for anchoring and fixing. The pourable grout is suited for pouring into holes for anchors in floors and slabs. weber.tec anchor grout rapid is available for cold weather working.

- Fast setting action with rapid strength gain allows loads to be applied within 2 hours
- Easy to mix and place
- Fixing cannot be vibrated out
- Economical fixing compared with mechanical fixings
- Stronger than concrete in one hour
- Part mixing of weber.tec anchor grout allows flexibility of use and no wastage of material
- Versatile material with fixings to concrete, brickwork and stone

Size: 2.5 Litre



50 Grouts & Anchors



weber.tec Grout FG

A two-component polyester grout for anchoring and fixing. Fast setting for rapid installation and can be used down to 0°C. Flowing grout to fill gaps of between 5 mm up to 90 mm dependent upon bulking out with coarse aggregate.

- Fast setting with rapid strength gain, allowing loads to be applied within 2 hours at 20°C
- Economical usage through part mixing by volume
- Available in standard and rapid grades depending upon temperature
- Excellent adhesion to concrete and asphalt substrates
- Can be bulked out for varying gap sizes, 5 mm 90 mm
- Proven technology with reliability

Size: 22.5kg



Chemical Fixings



Sika Anchorfix-1

AnchorFix-1 can be injected into most substrates including concrete, brickwork, blockwork, hollow and solid masonry, solid rock and natural stone and is suitable for practically every type of anchoring and fastening method, such as threaded rods, steel reinforcement, masonry wall ties and anchor sockets. Supplied in a single 300ml cartridge that fits into a standard sealant gun, the two-component styrene free polyester resin Sika AnchorFix-1 is mixed in the nozzle for simplicity and error free operation.

Size: 300ml



Sika AnchorFix-2

A solvent and styrene free, epoxy acrylate based, two-part anchoring adhesive.

Size: 300ml

Type	Size	Coverage
Sika AnchorFix-1	300ml standard cartridge	-
Sika AnchorFix-2	300ml standard cartridge	-



Epcon C8 Extreme

The Epcon C8 Extreme performance epoxy resin has been specifically formulated for extreme rebar and stud applications. With virtually no smell Epcon C8 is easy to inject at low temperatures and is approved for use in wet and diamond drilled holes. This formulation resin has no unpleasant odour making it ideal for indoor applications.

Substrates

Suitable for concrete, plasterboard (with Satelis), hollow brick, stone, solid block, solid brick, hollow floor beams, hollow block wall (with Satelis).



Type	Size	Quantity
Epcon C8 Cartridge + 1 Nozzle	450ml	1
Application nozzle with extension	-	1
Epcon Injection Tool	-	1

Epcon C8 Extreme Performance Epoxy Resin recommended loads in concrete

Type	Anchor Depth	Max Fixture	Base Material	Thread Ø	Drill Depth	Drill Ø	Length	Max Torque
M8	80mm	15mm	120mm	8mm	80mm	10mm	110mm	10Nm
M10	90mm	20mm	130mm	10mm	90mm	12mm	130mm	20Nm
M12	110mm	25mm	160mm	2mm	110mm	14mm	160mm	30Nm
M16	125mm	35mm	175mm	16mm	125mm	18mm	190mm	60Nm
M20	170mm	65mm	220mm	20mm	170mm	25mm	260mm	120Nm
M24	210mm	63mm	270mm	24mm	210mm	28mm	300mm	200Nm
M30	280mm	70mm	340mm	30mm	280mm	35mm	380mm	400Nm

52 Grouts & Anchors



Epcon High Performance Chemical Resin

No shrink chemical anchor works underwater and has been used on major projects all over the world for over 15 years.

Substrates

Suitable for concrete, plasterboard (with Satelis), hollow brick, stone, solid block, solid brick, hollow floor beams, hollow block wall (with Satelis).



Type	Size	Quantity
Epcon Cartridge + 1 Nozzle	530ml	1
Application Nozzle with Extension	-	1
Epcon Cartridge + 1 Nozzle	200ml	1

Epcon High Performance Chemical Resin recommended loads in concrete

Type	Hole Ø	Embed Depth	Max Torque	Anchor Spacing	Edge Distance	C20/25 Tensile Load	C20/25 Shear
M8	10mm	80mm	10mm	160mm	85mm	6.4	5.4
M10	12mm	90mm	20mm	180mm	90mm	8.1	7.9
M12	14mm	110mm	30mm	220mm	110mm	11.4	9.8
M16	18mm	125mm	60mm	250mm	125mm	20.1	18.6
M20	25mm	170mm	120mm	340mm	170mm	30.4	33.1
M24	28mm	210mm	200mm	450mm	210mm	43.7	46.0
M30	35mm	280mm	400mm	560mm	280mm	72.8	69.8



Epomax Vinylester Resin - Styrene Free

Easy to pump, performance resin. Fast curing vinylester resin, saving time and money on site. Now improved for a stronger fix, easier injection and faster curing time.

Substrates

Suitable for concrete, hollow brick, solid brick, solid brick stone, hollow floor beams, hollow block wall.



Type	Size	Quantity
Epomax Cartridge Grey	150ml	1
Epomax Cartridge Grey	380ml	1
Epomax Cartridge Grey Bulk*	380ml	1
Epomax / C Mix Nozzle	-	1
Extension Nozzle	-	1
Injection Tool	-	1

*Must be ordered in quantities of 20.

Spit Epomax Vinylester Resin Technical Data

Thread Ø	Max Anchor Depth	Max Fixture Thickness	Max Thickness Base	Drill Depth	Drill Bit Ø	Total Rod Length	Max Tightening Torque
M8	80mm	15mm	120mm	80mm	10mm	110mm	10Nm
M10	90mm	20mm	130mm	90mm	12mm	130mm	20Nm
M12	110mm	25mm	160mm	110mm	14mm	160mm	30Nm
M16	125mm	35mm	175mm	125mm	18mm	190mm	60Nm
M20	170mm	65mm	220mm	170mm	25mm	260mm	120Nm
M24	210mm	63mm	270mm	210mm	28mm	300mm	200Nm
M30	280mm	70mm	340mm	280mm	35mm	380mm	400Nm

54 Grouts & Anchors



Epobar Vinylester Resin

High performance vinylester resin - Steel reinforcement chemical fixings for reinforced concrete.

Substrates

Suitable for reinforced concrete.

Type	Size	Quantity
Epobar Cartridge	410ml	1
Epobar Nozzle	-	1
Epobar Injection Tool	-	1



C Mix Plus Polyester Resin - Styrene free

Universal styrene free resin, C Mix Plus is a polyester resin dedicated for fixings into hollow materials. This product is styrene free and in an extended range of packaging options.

Substrates

Suitable for concrete, solid brick stone, solid brick, hollow block wall, hollow brick, hollow floor beams.

Type	Size	Quantity
C Mix Plus Grey Cartridge	150ml	1
C Mix Plus Grey Cartridge	300ml	1
C Mix Plus Grey Cartridge	380ml	1
C Mix Plus Grey Cartridge Bulk*	380ml	1
C Mix / Epomax Nozzles	-	1
Extension Nozzle	-	1
Injection Tool	-	1

*Must be ordered in quantities of 20.



Spit C Mix Plus Polyester Resin Indicative Tensile loads in concrete

Thread Ø	Hole Ø Male Stud	Embed Depth	Max Torque	Centre Space	Edge Distance	C20/25 Tensile Load	Solid Brick Tensile	Hollow Block >3.5
M8	10mm	80mm	10Nm	120mm	80mm	3.85	1.3	0.75N/mm ²
M10	12mm	90mm	20Nm	135mm	90mm	6.25	1.3	0.75N/mm ²
M12	14mm	110mm	30Nm	165mm	110mm	9.1	1.3	0.75N/mm ²

Steel Anchors



Fischer High Performance Steel Anchors

- Specification Advisory Service available
- Technical Support
- On Site Testing

The FBN bolt is a flexible anchor for economical performance. Available in Grade 1.4401 (316) stainless steel and zinc plated steel.

For fixing of:

Brick support systems, metal constructions, formwork, brackets, beams, racking, machinery, etc.

Installation instructions:

Before tapping in, place the nut in the best position for installation. (Bolt projects approx. 2-3mm).



Type	Thread Dia x Length	Total Length	Drill Diameter	Effective Anchor Depth	Useable Length	Box Quantity
FBN 6/10 A4	M6 x 25	68mm	6mm	40mm	10mm	100
FBN 6/30 A4	M6 x 30	88mm	6mm	40mm	30mm	100
FBN 8/10 A4 + 23 A4	M8 x 41	76mm	8mm	48/35mm	10/23mm	50
FBN 8/50 + 63 A4	M8 x 81	116mm	8mm	48/35mm	50/63mm	50
FBN 10/15 + 23 A4	M10 x 51	89mm	10mm	50/42mm	15/23mm	50
FBN 10/50 + 58 A4	M10 x 87	125mm	10mm	50/42mm	50/58mm	20
FBN 10/100 + 108 A4	M10 x 134	174mm	10mm	50/42mm	100/108mm	20
FBN 12/15 + 35 A4	M12 x 71	113mm	12mm	70/50mm	15/35mm	20
FBN 12/45 + 65 A4	M12 x 103	143mm	12mm	70/50mm	45/65mm	20
FBN 12/100 + 120 A4	M12 x 157	202mm	12mm	70/50mm	100/120mm	20
FBN 16/10 A4	M16 x M54	109mm	16mm	64mm	10mm	10
FBN 16/25 + 45 A4	M16 x 89	144mm	16mm	84/64mm	25/45mm	10
FBN 16/50 + 70 A4	M16 x 114	169mm	16mm	84/64mm	50/70mm	10

56 Grouts & Anchors

Fischer FBN Bolts Hot Dip Galvanised						
Type	Thread Dia x Length	Total Length	Drill Diameter	Effective Anchor Depth	Useable Length	Box Quantity
FBN 8/10 HDG	M8 x 41	76mm	8mm	48mm	10mm	50
FBN 8/50 HDG	M8 x 81	116mm	8mm	48mm	50mm	50
FBN 10/15 HDG	M10 x 51	89mm	10mm	50mm	15mm	50
FBN 10/50 HDG	M10 x 87	124mm	10mm	50mm	50mm	20
FBN 10/100 HDG	M10 x 134	174mm	10mm	50mm	100mm	20
FBN 12/15 HDG	M12 x 71	113mm	12mm	70mm	15mm	20
FBN 12/45 HDG	M12 x 103	143mm	12mm	70mm	45mm	20
FBN 12/100 HDG	M12 x 137	202mm	12mm	70mm	100mm	20
FBN16/10 HDG	M16 x 54	109mm	16mm	64mm	10mm	10
FBN 16/25 HDG	M16 x 89	144mm	16mm	84mm	25mm	10
FBN 16/50 HDG	M16 x 114	169mm	16mm	84mm	50mm	10



Fischer FSA Sleeve Anchors

FSA-S / FSA-B

Light sleeve anchor for push-through installation. When the hexagon nut or bolt is tightened, the tapered bolt is pulled into the expansion sleeve and expands it against the hole wall.

Sizes: 8/15, 8/40, 8/65, 10/10, 10/35, 10/60, 12/10, 12/25, 12/50 diameter (mm) / usable length (mm).





Fischer FH High Performance Anchors

FH-H / FH-B / FH-S

Heavy-duty sleeve anchor for push-through installation. When the hexagon nut or screw is tightened, the cone is pulled into the expansion sleeve and expands tensioning it against the hole wall. A4 stainless steel version for outdoor use and in damp conditions (not part of the approval).

Sizes: (FH-H) 10/10, 10/25, 10/50, 12/25, 12/50, 15/25, 15/50, 18 x 80/25, 18 x 80/50, 18 x 100/25, 18 x 100/50, 24/25, 24/50 diameter (mm) / usable length (mm).

Sizes: (FH-B) 10/10, 10/25, 10/50, 12/-, 12/10, 12/25, 12/50, 12/100, 15/-, 15/10, 15/25, 15/50, 15/100, 18 x 80/-, 18 x 80/10, 18 x 80/25, 18 x 80/50, 18 x 80/100, 18 x 100/25, 18 x 100/50, 18 x 100/100, 24/-, 24/10, 24/25, 24/50, 24/100, 28/30, 28/60, 32/30, 32/60 diameter (mm) / usable length (mm).

A4

Sizes: (FH-B / FH-S) 10/10, 12/10, 12/25, 15/10, 15/25, 15/50, 18 x 100/25, 18 x 100/50 diameter (mm) / usable length (mm)

Galvanised

Sizes: (FH-B / FH-S) 10/-, 10/10, 10/25, 10/50, 12/-, 12/10, 12/25, 12/50, 15/-, 15/10, 15/25, 15/50, 18 x 80/-, 18 x 80/10, 18 x 80/25, 18 x 80/50, 18 x 100/25, 18 x 100/50, 24/10, 24/25, 24/50 diameter (mm) / usable length (mm).

Sizes: (FH-B / FH-S) 12/ 10, 12/50, 15/10, 15/50 diameter (mm) / usable length (mm)



Fischer FWB Wallbolts

The segmented steel expander shield is assembled ready for use with bolts or threaded rods of appropriate diameter.



Type	Size	Quantity
FWB S Wall bolt - shield only	6, 8, 10, 12, 16, 20mm	10, 25, 50
FWB L Wall bolt - loose bolt type	6, 8, 10, 12, 16, 20mm	10, 25, 50
FWB P Wall bolt - projecting bolt type	6, 8, 10, 12, 16, 20mm	10, 25, 50
FWB H Wall bolt - hook bolt type	12, 14, 16, 20mm	25, 50
FWB E Wall bolt - eye bolt type	6, 8, 10, 12, 16mm	10, 25, 50

58 Grouts & Anchors

Mild Steel Threaded Studding, Washers, Nuts & Connectors

Quality mild steel all-threaded studding for civil engineering construction use. Supplied with full range of nuts, washers and connectors. Suitable for use with SIG Construction Accessories chemical anchoring systems.



Sizes Available				
M6	M8	M10	M12	M16
M6 x 20	M8 x 25	M10 x 20	M12 x 25	M16 x 50
M6 x 25	M8 x 35	M10 x 25	M12 x 30	M16 x 60
M6 x 30	M8 x 45	M10 x 30	M12 x 40	M16 x 70
M6 x 40	M8 x 40	M10 x 40	M12 x 45	
		M10 x 45	M12 x 50	
		M10 x 50		

Lightweight Anchors



Spit Grip Lip & Grip Drop-In Anchors

A broad range of female anchors for threaded rod, Spit drop-in anchors, including lipped anchors for a flush finish, not dependent on hole depth.



Drop-In and Grip L

Internally threaded, hammer set anchors. Flush fix design is pre-set by inserting into the drilled hole and hammering the internal expansion cone inside the body of the anchor using a setting tool.

Body steel 5300 Pb NFA 35 - 561, expansion cone FB10 NFA 35 - 053.





Grip Stainless Steel

Female, internally threaded, hammer set anchor. Flush fix design is pre-set by inserting into the drilled hole and hammering the internal expansion cone inside the body of the anchor using a setting tool.

Body steel stainless steel A4 X5 Cr Ni Mo
17 - 12 - 2, expansion cone stainless steel A4
X5 Cr Ni Mo 17 - 12 - 2.



Lightweight Anchors

Type	Thread Ø	Anchor Length	Thread Length	Drilling Depth	Max Tightening Torque	Box Qty
Spit Grip Lip Anchor	M6	30mm	13mm	32mm	5Nm	100
Spit Grip Lip Anchor	M8	30mm	12mm	33mm	10Nm	100
Spit Grip Lip Anchor	M10	30mm	11mm	33mm	22Nm	100
Spit Grip Lip Anchor	M10	40mm	15mm	43mm	22Nm	100
Spit Grip Lip Anchor	M12	50mm	21mm	54mm	36Nm	50
Spit Grip Lip Anchor	M16	65mm	28mm	70mm	80Nm	20
Spit Drop-In Anchor	M6	30mm	13mm	32mm	5Nm	100
Spit Drop-In Anchor	M8	30mm	13mm	32mm	10Nm	100
Spit Drop-In Anchor	M10	40mm	15mm	42mm	22Nm	100
Spit Drop-In Anchor	M12	50mm	18mm	53mm	36Nm	50
Spit Drop-In Anchor	M16	65mm	23mm	70mm	80Nm	20
Spit Grip Stainless Steel Anchor	M6	30mm	13mm	32mm	32Nm	100
Spit Grip Stainless Steel Anchor	M8	30mm	13mm	32mm	32Nm	100
Spit Grip Stainless Steel Anchor	M10	40mm	15mm	42mm	42Nm	50
Spit Grip Stainless Steel Anchor	M12	50mm	18mm	53mm	53Nm	50
Spit Grip Stainless Steel Anchor	M16	65mm	23mm	70mm	70Nm	25

60 Grouts & Anchors



Tapcon Masonry Anchors

For fastening to concrete and other masonry materials, carbon steel self tapping anchors. Special Hi-Lo form and blue climaseal finish. Can be supplied complete with one 'D' end rotary percussion masonry drill bit.



Countersunk Tapcon								
Type	Thread Ø	Drive Style	Fixture Thickness	Anchor Length	Hole Ø	Min. Hole Depth	Min. Embed	Box Qty
3F32	5mm	P2	0 - 7mm	32mm	4mm	35mm	25	100
3F45	5mm	P2	5 - 20mm	45mm	4mm	35mm	25	100
3F57	5mm	P2	17 - 32mm	57mm	4mm	35mm	25	100
3F70	5mm	P2	30 - 45mm	70mm	4mm	35mm	25	100
3F82	5mm	P2	42 - 57mm	82mm	4mm	35mm	25	100
3F100	5mm	P2	60 - 75mm	100mm	4mm	35mm	25	100
4F32	6mm	P3	0 - 7mm	32mm	5mm	35mm	25	100
4F45	6mm	P3	5 - 20mm	45mm	5mm	35mm	25	100
4F57	6mm	P3	17 - 32mm	57mm	5mm	35mm	25	100
4F70	6mm	P3	30 - 45mm	70mm	5mm	35mm	25	100
4F82	6mm	P3	42 - 57mm	82mm	5mm	35mm	25	100
4F100	6mm	P3	60 - 75mm	100mm	5mm	35mm	25	100
4F125	6mm	P3	85 - 100mm	25mm	5mm	35mm	25	100

Hex Head Tapcon								
Type	Thread Ø	Drive Style	Fixture Thickness	Anchor Length	Hole Ø	Min. Hole Depth	Min. Embed	Box Qty
3H32	5mm	6.5 Hex	0 - 7mm	32mm	4mm	35mm	25mm	100
3H45	5mm	6.5 Hex	5 - 20mm	45mm	4mm	35mm	25mm	100
3H57	5mm	6.5 Hex	17 - 32mm	57mm	4mm	35mm	25mm	100
4H32	6mm	8 Hex	0 - 7mm	32mm	5mm	35mm	25mm	100
4H45	6mm	8 Hex	5 - 20mm	45mm	5mm	35mm	25mm	100
4H57	6mm	8 Hex	17 - 32mm	57mm	5mm	35mm	25mm	100
4H70	6mm	8 Hex	30 - 45mm	70mm	5mm	35mm	25mm	100
4H82	6mm	8 Hex	42 - 57mm	82mm	5mm	35mm	25mm	100
4H100	6mm	8 Hex	60 - 75mm	100mm	5mm	35mm	25mm	100

See overleaf for accessories

Hex Head Tapcon Accessories

Type	Box Qty
Tapcon Condrive Kit 1000	1
Tapcon 6.5mm Drive Tru Socket 5mm Diameter Hex Head	1
Tapcon 8mm Drive Tru Socket for 6mm Diameter Hex Head	1

Countersunk Head Tapcon Accessories

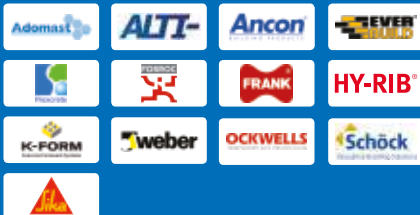
Type	Box Qty
P2 Phillips N° 2 Driver Bit	1
P3 Phillips N° 3 Driver Bit	1

62 Reinforcement & Formwork

Reinforcement and formwork accessories are core product ranges for SIG Construction Accessories. Our Range is all encompassing, including site set-up equipment, spacers, formwork and all the specialist chemicals you need for your project.



PRODUCTS	PAGE
Set Up Equipment	63
Wire Spacers	65
Concrete Spacers	68
Tying Wire	71
Plastic Spacers	73
Dowels	78
Bolt Boxes	85
Tie Bar System	89
Formwork Systems	96
Metal Formwork Hy-Rib®	100
Screed Rails & Accessories	102
Crack Inducers & Void Formers	108
Reinforcement	111
Ancon KSN Anchor Continuity System	119
Reinforcing Bar Couplers	121
Ancon Starter Bar System	126
Ancon Lockable Dowels	128
Balcony Connectors	130
Cast in Channels	135
Floor Decking	136
Formwork Chemicals	139
Concrete Curing, Hardening and Sealing	146
Temporary Protection	154
Accessories	157
Brick and Concrete Cleaning Material	164
Bricklayer Accessories	166



Set Up Equipment

Pointed Steel Pins

Steel pins, pointed one end, plain other, in either 16, 20 or 25mm diameters.

Length	Pack
400mm	Each
600mm	Each
1000mm	Each



Fencing Pins

Fencing pin approximately 1.35m length, pointed one end, lamp iron curve other.

Packed in 10s.



Safety Barrier

Safety barrier 1m x 50m manufactured from heavy duty polythene.

Length	Colour	Pack
1x50m	Orange	Each
1x50m	Blue	Each



64 Reinforcement & Formwork

Cube Moulds

Metal and Polystyrene available.
100mm two piece cube mould.
150mm four piece cube mould.
Square section tamping bar.
Spanners.



Curing Tank for Concrete Cubes

Curing tanks in a range of sizes for 110v and 240v supplies.



Slump Cone

Slump cone, tamping bar and slump baseplate.



Wire Spacers

Hychairs A Type

A welded girder for supporting reinforcement or fabric without damaging the polythene membrane. Hychairs are also ideal for dowel bar support. Supplied in 2m lengths, pack size 50m. Maximum advised spacing 1m. Suggested usage 10m/sheet.

Height	Pack
50mm	50m
60mm	50m
75mm	50m
90mm	50m
105mm	50m
120mm	50m
130mm	50m
150mm	50m
165mm	50m
180mm	50m
200mm	50m
220mm	40m
250mm	40m
300mm	40m



66 Reinforcement & Formwork

Circular Wire Spacers

An economical way of supporting top steel in slabs, the hoops are formed into a 1m diameter circle. 4/5 hoops per standard full size sheet of mesh are normally sufficient.

Height	Pack
50mm	20, 100
60mm	20, 100
75mm	20, 100
90mm	20, 100
105mm	20, 100
120mm	20, 100
135mm	20, 100
150mm	20, 100
165mm	20, 100
180mm	20, 100
200mm	20, 100

Can be manufactured up to 250mm.
Available in 3m lengths.



ALTI-SPACER

Alti-Spacer

Alti-Spacer is a welded snake wire spacer for supporting reinforcement of fabric, which is stronger than normal hychair and circular spacers, making it extremely reliable and safe on site. Alti-Spacer requires no tying so is extremely quick to set up on site.

- Easy to handle
- No tying on site required
- Designed for strength
- Stronger than normal methods
- More economical
- Various sizes available

Pack of 20.



Height	Ø			Weight	Small Pack	Large Pack	Pallet Qty
50mm	3.3mm	3mm	3.3mm	0.247kg/m	25	600	1200
60mm	3.3mm	3mm	3.3mm	0.252kg/m	25	600	1200
70mm	3.3mm	3mm	3.3mm	0.258kg/m	25	450	900
80mm	3.3mm	3mm	3.3mm	0.264kg/m	25	450	900
90mm	3.3mm	3mm	3.3mm	0.27kg/m	25	450	900
100mm	3.3mm	3mm	3.3mm	0.277kg/m	25	450	900
110mm	3.3mm	3mm	3.3mm	0.284kg/m	25	450	900
120mm	3.3mm	3mm	3.3mm	0.291kg/m	25	450	900
130mm	3.3mm	3.3mm	3.3mm	0.328kg/m	25	450	900
140mm	3.3mm	3.3mm	3.3mm	0.337kg/m	25	450	900
150mm	3.3mm	3.3mm	3.3mm	0.347kg/m	25	450	900
160mm	3.3mm	3.3mm	3.3mm	0.356kg/m	25	250	500
170mm	3.3mm	3.3mm	3.3mm	0.366kg/m	25	250	500
180mm	3.3mm	3.3mm	3.3mm	0.376kg/m	25	250	500
190mm	3.3mm	3.3mm	3.3mm	0.385kg/m	25	250	500
200mm	3.3mm	3.3mm	3.3mm	0.395kg/m	25	250	500

68 Reinforcement & Formwork

Concrete Spacers

- Non toxic fibre reinforced spacers.
- Natural bond with concrete.
- Porosity and surface permeability similar to concrete.
- Compressive strength of material generally to 40N/mm².

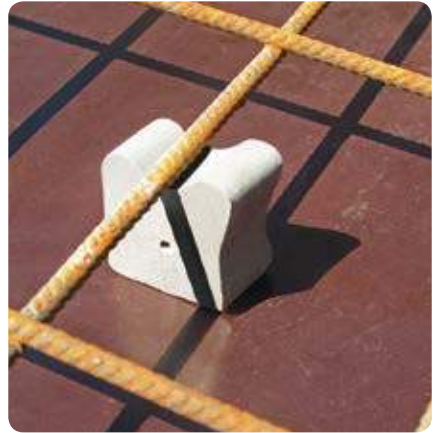


Flat Based (Double Cover)

Flat Based Double Cover Concrete Spacers.
Suitable for heavy duty horizontal applications.

- Conforms to BS 7973:2001

Size	Pack
25, 30mm	500
30, 40mm	250
40, 50mm	200
60, 75mm	50
65, 70mm	50
50, 60mm	50



Arched Based (Triple Cover)

For minimum contact with formwork. Ideal for vertical reinforcement.

- Conforms to BS 7973:2001

Size	Pack
20, 25, 30mm	500
35, 40, 50mm	200



Arched Based (Double Cover)

For minimum contact with formwork. Ideal for vertical reinforcement.

- Conforms to BS 7973:2001

Size	Pack
15, 20mm	1000
25, 30mm	500
30, 35mm	250
30, 40mm	250
40, 50mm	200
65, 70mm	50
75mm*	100

*Single cover arch based

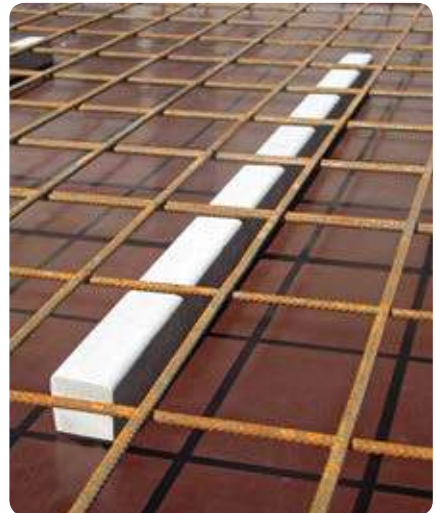


Square Bar

A heavy duty one metre long bar for supporting steel on bridge decking and other areas where high point loads can be expected. Also available rectangular double cover bar.

- Conforms to BS 7973:2001

Size	Pallet Qty
25 x 25mm	800
30 x 30mm	600
40 x 40mm	300
50 x 50mm	250
60 x 60mm	160
75 x 75mm	100
100 x 100mm	60



Steel Kickers (Adjustable)

Removes the need to pour a kicker. Spacer/spreader for wall joints. The crimped anchor without threaded bar is pressed into the wet concrete along the approximate centre axis of the subsequent wall. M16 threaded bar allows exact alignment and ensures high strength. End caps are to be applied firmly to ends of the threaded bar, providing a 50mm cover.



Type

Crimped Anchor

End Cap

Length	Wall thickness
145mm	150mm
170mm	175mm
195mm	200mm
220mm	225mm
245mm	250mm
295mm	300mm
345mm	350mm

Tying Wire

Tying Wire

Coils available in black annealed steel and stainless steel. Black annealed coils are 1.5mm and 16 gauge. Stainless steel coils can differ in weight and are sold per Kg. Approximately one coil of wire to 4 tonnes reinforcement.



Type	Gauge
Black Annealed Steel Coil	1.5mm
Stainless Steel Coil	1.2mm

Double Loop Wire Ties

In lengths of 100, 150, 200 and 250mm and supplied in packs of 1000. Different gauges can be supplied if required. Bag tie puller to suit.

Length	Quantity
100	1000
150	1000
200	1000
250	1000



72 Reinforcement & Formwork

Reelfix Rapid System - Tying Wire and Dispensing System

Reelfix Rapid is a tying wire dispensing reel system used by Steel Fixers when tying reinforcement in concrete structures. The system comprises of a dispensing reel which houses a 2kg spool of tying wire. The reel is attached to a heavy duty leather belt and comfort pad and is worn around the users' waist.

Reelfix System Components:

- 2kg (224m 18 gauge) grade 304 stainless steel refill spool
- 2kg (120m 16 gauge) black annealed refill spool
- Refillable Tying Wire Dispensing Reel
- Reelfix Branded Heavy Duty Leather Belt
- PVC Comfort Pad
- Reelfix Branded Stainless Tape/ Nip Frog

Reelfix 2kg refill spools are packed 5 per carton



Material	Diameter	Metres per 2kg	kg per 1000m	Approx. gauge
Stainless 304/316	1.2mm	224	8.93	18
Black Annealed	1.6mm	120	16.66	16

Plastic Spacers

Wheel Spacers - Standard Duty

A comprehensive range of clip-on plastic wheel spacers suitable for all pre-cast and site applications.

Size	Bar Diameter	Pack
20mm	4 - 12	500
25mm	4 - 12	1000
25mm	12 - 20	250
30mm	4 - 12	250
30mm	12 - 20	125

Size	Bar Diameter	Pack
35mm	4 - 12	200
35mm	12 - 20	125
40mm	4 - 12	125
40mm	8 - 20	250
50mm	12 - 20	250
60mm	12 - 20	250
70mm	12 - 20	250
75mm	12 - 20	125



74 Reinforcement & Formwork

Grade Plate Spacers - Support Fix

Grade Plate Spacers are a double cover spacer that has been designed for use in ground floor slabs, where its large base area prevents puncturing of polyethylene membrane. Often used with ground beam shuttering.



Size	Pack
25/30mm	250
40/50mm	250
55/65mm	200
65/75mm	200
90/100mm	100

Support Clip - Light Duty

Support Clip is a general purpose clip on spacer used in all types of applications found in precast yards and on site. It can be fixed horizontally or vertically on bars from 4mm to 12mm diameter.



Size	Rebar Diameter	Pack
15mm	4 - 12mm	2000
20mm	4 - 12mm	1000
25mm	4 - 12mm	1000
30mm	4 - 12mm	1000
35mm	4 - 12mm	500
40mm	4 - 12mm	500
50mm	4 - 12mm	500

Support Clip - Heavy Duty

Heavy Duty Support clip for both vertical and horizontal application. Suitable for bar size from 8mm to 25mm.

Size	Rebar Diameter	Pack
20mm	8 - 25mm	1000
25mm	8 - 25mm	1000
30mm	8 - 25mm	1000
35mm	8 - 25mm	500
40mm	8 - 25mm	500
45mm	8 - 25mm	500
50mm	8 - 25mm	500
55mm	8 - 25mm	500
65mm	8 - 25mm	500
75mm	8 - 25mm	250



Plastic Tower Spacers

Plastic Tower Spacers are robust and designed for vertical and horizontal applications. Excellent stability and concrete flow with large clamping area and pointed feet to ensure minimum visibility on the struck concrete face.

Code	Rebar Diameter	Pack
20	6 - 20mm	500
25	6 - 20mm	500
30	6 - 20mm	500
35	6 - 20mm	250
40	6 - 20mm	250
50	6 - 20mm	125
60	6 - 20mm	125



76 Reinforcement & Formwork

Bar End Cap Spacers

Bar End Caps provide cover to the formwork and prevent staining to the precast units.

Code	Rebar Diameter	Pack
20	4 - 8mm	1000
20	9 - 16mm	1000
25	4 - 8mm	1000
25	9 - 16mm	1000
30	4 - 8mm	1000
30	9 - 16mm	1000



Plastic Pile Cage Spacers

Specially designed spacers for use in pile cages. Wheel spacers can be threaded onto helicals before cage is inserted. Clip on spacers can be fitted onto helicals or main bars.



Size	Bar Size	Width	Pack
40mm	6 - 12mm	10mm	500
50mm	6 - 12mm	10mm	250
45, 50mm	6 - 12mm	30mm	250
50mm	16 - 20mm	30mm	200
70mm	16 - 20mm	30mm	100
75mm	16 - 20mm	30mm	100

Plastic Wheel Spacer - Heavy Duty

Heavy duty plastic ring spacer with stiffening legs which add stability to the product. Ideal for bottom reinforcement in both on-site and precast applications. Design of the bottom feet ensures minimal contact with the formwork.



Size	Pack
25mm	100
30mm	100

Tric Trac Spacer

A versatile plastic spacer that can be used on both horizontal and vertical surfaces. Supplied in 2m lengths.



Size
25mm - 100/m, 30mm - 100/m, 35mm - 60/m, 40mm - 60/m, 50mm - 60/m

Plastic Shims

Hard plastic shims for non-structural, temporary alignment of precast concrete panels and components. Made from heavy duty plastic 70 x 70mm in a range of thickness from 2 to 10mm.



Size	Pack
2mm	250
3mm	250
5mm	125
7mm	125
9mm	125
10mm	125

Dowels

Dowel Bar Cradles

Dowel Bar Cradles are used to support dowel bars in contraction and expansion joints. When ordering please confirm type, height (which is from base of cage to bottom of dowel bar) and quantity required. Manufactured to customer requirements. Sold per metre.

Contraction Joints

Wire Ties.

De-Bond/Epoxy coated.

Plastic Sleeve.

h = height from base to underside of dowel bar.

Expansion Joints

Dowel Cap.

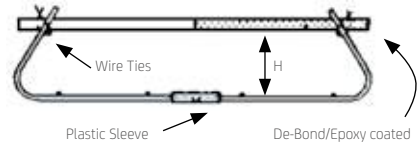
Wire Ties.

De-Bond/Epoxy coated

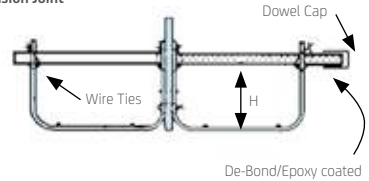
Plastic Sleeve.

h = height from base to underside of dowel bar.

Contraction Joint



Expansion Joint



Mild Steel Dowel Bars

Plain round bars supplied with either cropped or sawn ends.

Diameter	Length
12mm	400mm
12mm	600mm
12mm	900mm
16mm	400mm
16mm	600mm
16mm	900mm
20mm	500mm
20mm	550mm
20mm	600mm
20mm	900mm
25mm	600mm



Stainless Steel Dowel Bars

Supplied sawn cut to order to your specific lengths. All diameters from 8mm to 40mm can be supplied. Grades available are 304 & 316.

Epoxy / Polymeric Coated Dowels

Dowel bars can be supplied with either a partial or full coating to your specific requirements.

All coatings comply with DOT specification.





EpoBAR Resin

The EPOBAR resin used for the fixing of steel reinforcements in concrete is an injectable resin inserted in the drill hole (-50% volume) using an injection tool and its nozzle. Thus, by passing through the nozzle, the 2 constituents of the cartridge (vinylester resin + hardener) are mixed to cause a chemical reaction which is going to allow the EPOBAR resin to progressively harden.

Once the resin is injected, the steel rebar is inserted in the drill hole down to the effective anchoring depth. The resin is thus going to be spread around the steel reinforcements and the fixture is then going to adhere to the concrete walls.

The EPOBAR resin can be used in cracked or hollow concrete and in other solid building materials. The concrete can be dry or wet.



Diamond Dowels

Diamond dowels offer a better performing, more easily installed alternative to traditional dowels. 6mm x 115mm square diamond dowel used at 450mm centres gives equivalent performance to 20mm round dowels at 300mm centres. Simply nail the Diamond Dowel sleeve to formwork prior to first pour, and then push the Diamond Dowels into the sleeve immediately prior to second pour.



Size

6 x 115 x 115mm

Alpha Dowels

A trapezoidal plate dowel developed to provide greater capacity in bending, shear and bearing when compared to the Diamond Dowel at 20mm joint opening (typically 5 times in bending and 3 times in shear and bearing). Installation is identical to Diamond Dowels.



Size

10 x 170 x 250mm (max)

Square Dowel Bar & Sleeve System (Permasleeve)

Permasleeve allows quick and easy installation of square dowels and movement sleeves.



Size

20 x 20 x 600mm

Speed Dowels

A two-component system consisting of a sleeve and an attachment base, designed for use with 610mm x 20mm round dowels. It provides accurate positioning and alignment of dowels at construction and expansion joints, with effective load transfer.



Dowel Bar Sleeves

A flexible PVC sleeve to DOT specification, in diameters 12 - 32mm . Compressible foam plugs available for use in expansion joints.



Bar Diameter	Length
12mm	450mm
16mm	200mm
16mm	300mm
16mm	450mm
20mm	300mm
20mm	400mm
25mm	300mm
32mm	375mm

Expansion Dowel Caps

A rigid tube 100mm length with 25mm of compressible filler, designed as a tight fit over dowel bars in expansion joint. Supplied in 100s. If combining both sleeves and caps, use next size up for the cap.

Diameter

12mm

16mm

20mm

25mm

32mm



Meta Dowel

A superior dowel/sleeve combination that can be used with both Metaform and Metaform Eliminator systems. Alternatively, it can be fixed to timber shuttering as required. Superior in bearing, bending and shear to its competitors, its corrugated design makes it more suitable for the larger joint gaps associated with modern construction techniques.



De-bonding Compound

A bitumen based material for painting on to dowel bars and de-bonding contraction joints in slab construction. Supplied in either 5 litre or 25 litre cans. Brush to suit.



Strip Joint Corners

This provides the benefits of an armoured joint arris for tied or free contraction joints and is designed to be used with traditional timber forms. It is manufactured from 10mm thick x 50mm deep square edged bright mild metal strip which has a very flat top surface (unlike hot rolled strip or angle, which produces a radiused top edge). 10mm diameter long shear studs are stud-welded to the strips to ensure maximum keying into the slab. Angle metal strips are supplied for tied joints with shear studs welded on both sides of the strip to tie into the concrete on either side of the joint. Double Metal Strips are supplied for free contraction joints which have shear studs welded on one side of each strip. The two strips are hollow doweled together and an 8mm nylon bolt passes through the dowel which shears when the joint opens.



ALTI-SHIELD

ALTI-Shield

A unique product designed for protecting the ends of exposed re-bar on site to prevent stab injuries. It is a cost effective and time saving alternative to individual re-bar protection caps. It is extruded from heavy duty self-extinguishing UV stable PVC which is extremely durable and 100% recyclable. It ensures that all re-bars are covered in long runs quickly, tightly and safely to protect workers on site.

ALTI-Shield's unique gripping teeth design makes it suitable for use on both horizontal and vertical reinforcing bars for 8mm to 40mm without any additional fixing.

Benefits

- Hardwearing and reusable
- Suitable for horizontal and vertical protection
- Suitable for 8mm to 40mm re-bar
- Easy to fit in seconds
- No additional fixing required



Technical Details

- Profile length: 1m
- Wall thickness: Approx 2.0mm
- Colour: Yellow
- Recyclable: 100%
- Storage instruction: Store flat
- Application range: 8mm to 40mm bar
Horizontal & Vertical

84 Reinforcement & Formwork

ALTI-SHIELD MAX

Alti-Shield Max

Alti-Shield Max has a 1.5mm thick metal strip running down the spine of the protector to prevent the reinforcing bar piercing the protector should a worker fall from height.



Benefits

- Hardwearing and reusable
- Extra Safety Protection
- Suitable for 8mm to 40mm re-bar
- Easy to fit in seconds
- No additional fixing required

Technical Details

- Profile length: 1m
- Wall thickness: Approx 2.0mm
- Colour: Yellow
- Recyclable: 100%
- Storage instruction: Store flat
- Application range: 8mm to 40mm bar
Horizontal & Vertical

Protection Caps

Protection Caps have been developed to protect workers from the serious injury that starter bars can cause. Large size suitable for scaffold bars.

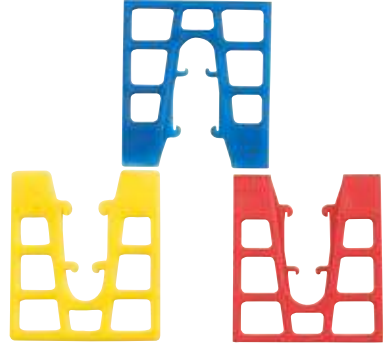
Type	Bar Size	Pack Size
Starter Bar Cap	6 - 18mm	250
Starter Bar Cap	16 - 32mm	250
Scaffold Pole Cap	25 - 50mm	125



Plastic Packing Shims

Economical levelling and packing out of frames and battens.

Size	Thickness	Colour	Pack
40 x 45, 50 x 100mm	1mm	Yellow	1000
40 x 45, 50 x 100mm	1.5mm	White	1000
40 x 45, 50 x 100mm	2mm	Green	1000
40 x 45, 50 x 100mm	3mm	Blue	1000
40 x 45, 50 x 100mm	4mm	Red	1000
40 x 45, 50 x 100mm	5mm	Brown	1000
40 x 45, 50 x 100mm	6mm	Black	1000
40 x 45, 50 x 100mm	10mm	Grey	500



Bolt Boxes

Holding Down Bolts

A full range of holding down bolts are available. Supplied in mild steel or high tensile. Special sizes made to order.

Length x Diameter

20 x 375, 450mm

24 x 375, 450, 600mm



The Bolt Cracker

An innovative product designed to maximize holding down bolt movement. It provides a simple, easy to install, safe and cost effective solution to a very common problem within the construction process. The Bolt Cracker clips on to the head of the bolt and tightens up.

Advantages:

- Guaranteed full movement inside the cone
- No damage to the bolt head or thread during stripping
- No induced stress or failure to bolts
- Better quality reduces time and increases productivity
- Easy to insert into steel frame
- Eliminates manual handling risks, noise, vibration and chemical contact contained within other options



Cardboard Bolt Boxes

A waxed cardboard cone which can be cut away when no longer required.

Length
229mm
305mm
385mm
457mm
534mm
610mm
762mm



Expanded Metal Bolt Boxes

A cylinder manufactured in various lengths from expanded metal, to be left in the bolt pocket for use as a key in the concrete.

Diameter x Length
75 x 150mm
75 x 225mm
75 x 300mm
100 x 375mm
100 x 450mm
100 x 510mm
100 x 600mm



88 Reinforcement & Formwork

Polystyrene Bolt Boxes

An economical and easy method of ensuring bolt location in structural steel stanchions. Polystyrene cones can easily be dissolved when their application is complete.



Length

150, 225, 300, 375, 450, 525, 600mm

Polystyrene Dissolver

Polystyrene dissolver is a specially formulated solvent developed to safely dissolve away and emulsify unwanted polystyrene, bolt boxes or void formers. Available in 5, 25 litre cans.



Denso Tape

For protection of bolt heads prior to concrete pours. 75mm wide x 10m long rolls.



Roll Size	Box Qty	Pack
50mm x 10m	32	Per roll
75mm x 10m	24	Per roll
100mm x 10m	16	Per roll

Tie Bar System

15mm Thru-Tie System

A quick release 15mm tie system. The bar is supplied in 6m lengths. 20 & 26mm tie bar also available as well as bespoke lengths.



Cast-In Anchor

A stainless steel anchor for casting into concrete, complete with nailing plate for fixing to formwork.



Product Code	Size	Length	Fail Load
FCA	15mm	95mm	50 kN

Rock Anchor

For securing single-sided shuttering to rock or concrete walls. Drill hole of 36.5 to 38mm diameter to the following depths:

- min 20cm in concrete
 - min 2.0m in rock more than 200kg/cm²
 - min 2.5m in rock more than 150kg/cm²
 - min 3.0m in rock more than 100kg/cm²
- Conduct tensile tests before applying final load.



Wing Nuts & Waler Plates

A knock-on wing nut used in conjunction with waler plates for securing the bar in formwork applications. Can also be supplied for 20mm and 26mm tie bars. 100 per bag but supplied individually.



Product	Pack
Wing nut	Each
Waler plate	Each

Connection Nuts

Joint nuts are used to join the rods complete with centre stop to ensure equal spacing inside the connector. The shorter hexnut is available for use where access is restricted. A connection nut with a built in water barrier is also available.



Product	Pack
Joint nut	Each
Hex nut	Each
Water barrier nut	Each
Water barrier reducer	Each

Thru Sleeve

Thru sleeve is a rigid PVC tube of 2mm wall thickness, supplied in 2 metre lengths which can easily be cut to the required size. It is used as an expendable sleeve over tie bolts, facilitating their removal and also acting as a spacer to ensure correct width of wall.



Inside Diameter / Outside Diameter

20/24mm

22/26mm

26/30mm

32/38mm

Thru Cones

Thru cones are used at the ends of the thru sleeve and can be easily extracted after removal of the formwork, to form a chamfered recess for subsequent grouting.



Inside Diameter

20mm

22mm

26mm

32mm

Plastic Stoppers

Used with plastic sleeve/tube to form a watertight seal. For tube internal diameters 20-32mm.



Outside Diameter

20mm

22mm

26mm

32mm



Tiefill

For the filling of tie-holes formed by formwork bolts in new construction, particularly where a rapid setting, durable, waterproof mortar is required. Tiefill is a single component, polymer modified, fibre reinforced, Portland cement based repair compound, which exhibits unique hydraulic properties to produce a rapid curing mortar with enhanced polymer properties. It only requires the addition of clean water to give a rapid setting, yet durable high strength mortar and is ideally suited for the filling of voids particularly in new construction which need to be rapidly put into service, such as tie-holes, grout-holes and voids around fixings. For the treatment of tie-holes formed by through-ties, any remaining plastic tube should be cut back and removed to approximately 40-50mm from the concrete face. To eliminate the possibility of water tracking around the plastic tube, it should be plugged with cork or a proprietary stopper. Tiefill is a WRAS approved product confirming suitability for use in contact with potable water and it is CE Marked in compliance with EN 1504-3 Class R4.

She Bolt Type

Tie Rod Cover	She Bolt Size (")	Tie Rod Sizes (")	Number of Holes		
			8kg pack 4 litres	25kg pack 12.9 litres	6:1 Scoop Mix 285cc
38mm	1¼	¾	88	275	6
	1¾	⅝	144	453	10
	¾	½	247	777	17
50mm	1¼	¾	72	226	5
	1¾	⅝	117	368	8
	¾	½	200	629	14

Through Tie Type

Depth of Fill	Diameter of hole	Number of Holes		
		8kg pack 4 litres	25kg pack 12.9 litres	6:1 Scoop Mix 285cc
30mm	26mm	229	738	16

These figures assume holes are filled to concrete wall faces and allow for 10% wastage



Adoplug

Polymer modified, shrinkage compensated and fibre-reinforced plug that provide a water tight seal.

Size: 8kg



Beamform

Beamform is a fast and simple system for constructing in-situ concrete ground beams and pile caps.

- Durable polypropylene sheets supplied in various sizes
- Straight Connectors and Joint Clips.
- Sheet Ties to maintain required beam widths.
- Concrete square bar for base spacers.
- Gripper grade plate for base and side spacers.



Sheet width	Sheet length
475mm	2500mm
525mm	2500mm
625mm	2500mm
775mm	2500mm
925mm	2500mm
1025mm	2500mm
1225mm	2500mm
2400mm	2500mm
2400 Standard Size	4400mm

Straight Connectors	
Length	Pack
600mm	10
750mm	10
900mm	10
1200mm	10

Sheet Ties	
Length	Pack
300mm	10
400mm	10
500mm	10
600mm	10
700mm	10
800mm	10
900mm	10

Accessories	
Type	Pack
Joint Tape	33m roll

ALTI-FORM

Alti-Form

Alti-Form is a compact beamform sheet which maintains the strength of traditional formwork and other proprietary systems but without the bulk. The reduced size means that cutting and wastage on site is minimal. Manufactured from heavy-duty polypropylene, Alti-Form is an economical method of constructing in-situ concrete ground beams and pile caps.

- Offers protection against ground movement
- Reduced size means less cutting and waste on site
- Lighter and easier to handle
- More economical
- Size 2m x 4m length

**Claylite 3.3**

Claylite is a green coloured low density expanded polystyrene compressible fill board which acts to absorb movement between ground and concrete foundations to alleviate pressure on structures caused by clay heave, shrinkage or other soil movement.

Four types are produced:

- Standard for applications with ground beams and in even sided trenches.
- Super for extra strength in uneven sided trenches.
- Castellated for fitting under lightweight ground beams.
- Super Castellated gives added strength and stability over Castellated.

Claylite is supplied in boards 2400mm x 600mm and 2400mm x 1200mm and a range of thicknesses - 50, 75, 100, 125, 175, 200, 225, 250, 275 and 300mm.

Claylite fixing accessories are also available - ask about Safefix and fixing bolts.



Clayshield 3.3

Clayshield is an inexpensive, low density, BBA Certified EPS compressible material which forms a buffer between soil and structure, compressing with the soil movement thus alleviating the pressure on the foundation.

It does not degrade, is resistant to water and unaffected by extremes in temperature, thus will remain effective for the life of the building. It is available in a variety of standard sizes in the form of plain boards for application to the side/underside of ground beams and trench foundations.

It is also available as a castellated design in a range of widths and thicknesses for fitting under reinforced concrete ground beams. Pile collars are also available in a variety of widths and thicknesses to suit trench dimensions.



Standard Clayshield Board

Length	Width	Thickness
2000mm	610, 1000, 1220mm	50, 75mm
2400mm	610, 1000, 1220mm	50, 75mm

Castellated Clayshield Board

Length	Width	Thickness
1200mm	400, 450, 500, 550, 600mm	100, 150, 200, 250, 300mm

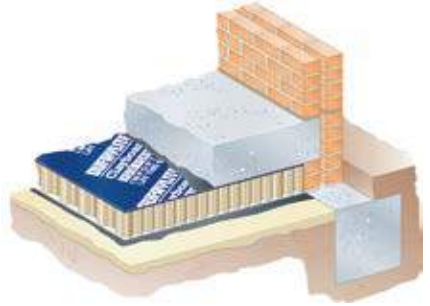
Clayboard®

Clayboard® is a unique, environmentally friendly void former and foundation stabiliser developed by Dufaylite. Clayboard® is a biodegradable honeycomb core set between lightweight polypropylene facings. When dry, Clayboard® is strong enough to support the weight of wet concrete and steel reinforcement.

Water is introduced to the Clayboard® core once the concrete is set, degrading the Clayboard® honeycomb centre which will ultimately lead to the creation of a void. This space will accommodate clay expansion without exerting undue pressure on the structure above. The resulting void continues to accommodate natural soil shrinkage and expansion.

Sizes: Clayboard® is supplied in panels 2440mm long by 1000mm wide, by the specified thickness. Clayboard® is delivered to site on lightweight pads for easy unloading and is polythene wrapped for protection.

Thickness: Thickness depends on the depth of the required void which should be specified by the soil engineers taking into account the plasticity index.



Clayboard Thickness	Void	Compressive Strength
160mm	150mm (high shrinkage)	Standard Strength - KN30 and KN90
110mm	100mm (medium shrinkage)	Nominal Strength - KN30
85mm	75mm (medium shrinkage)	
60mm	50mm (low shrinkage)	

Formwork Systems

Circular Concrete Column Formers

Light-weight, easy to set and strip, even in the wet. Standard sections are available ex-stock at selected branches. Specials can be made to order.

Benefits:

- Lightweight and easy to handle
- Easily cut to correct length on site
- Versatile and can be cut, drilled or scored for numerous construction applications
- Available in a variety of types and sizes to meet different forming needs
- Convenient and cost-effective
- Placing, bracing, pouring, stripping and finishing requires less time and labour
- Skilled labour is not required as with permanent formers
- Recyclable
- Inexpensive way to form square columns

One-piece forms for a multitude of one-time uses:

- Columns for residential, commercial and other structural buildings
- Stub piers for elevated ramps
- Fence post bases
- Footings
- Flag stones and other round steps
- Outdoor sign posts
- Light pole bases
- Theatrical and movie props
- Super-sized shipping/or storage tubes

And, you can set and pour multiple columns at one time.



Diameter	Concrete volume
150mm	0.018m ³ /m
200mm	0.031m ³ /m
250mm	0.049m ³ /m
300mm	0.071m ³ /m
350mm	0.096m ³ /m
400mm	0.126m ³ /m
450mm	0.159m ³ /m
500mm	0.196m ³ /m
550mm	0.238m ³ /m
600mm	0.283m ³ /m
650mm	0.332m ³ /m
700mm	0.385m ³ /m
750mm	0.442m ³ /m
800mm	0.503m ³ /m
900mm	0.636m ³ /m
1000mm	0.785m ³ /m
1200mm	1.131m ³ /m

Forms are available in lengths up to 12m with diameters ranging from 150 to 1200m.

Seamless Circular Concrete Column Formers

This tube has a resin-coated liner, which is completely seam free and provides the ultimate in concrete surface finish and appearance.

The benefits of using seamless are:

- Timed deliveries to meet site pouring schedule
- Reduced costs
- No seam to rub down
- Superior concrete finish

For up to four metres high and/or up to 450mm diameter, normal pouring methods (skip or bucket) can be used. For over 4 metres high and/or 450mm diameter, place concrete by pump and hose. Only vibrate from inside the tube.



Internal Diameter	Max Pour Height	Size
150mm	12.30m	As required
200mm	10.25m	As required
240mm	10.25m	As required
250mm	10.25m	As required
300mm	10.25m	As required
350mm	8.79m	As required
360mm	8.79m	As required
400mm	7.69m	As required
435mm	7.00m	As required
450mm	6.50m	As required
500mm	7.30m	As required
560mm	6.80m	As required
600mm	6.15m	As required
650mm	6.00m	As required
700mm	7.03m	As required
750mm	7.03m	As required
800mm	7.69m	As required
900mm	7.70m	As required
1000mm	7.65m	As required
1200mm	7.50m	As required

Tube Diameter	Metres per hour
100 - 300mm	6
300 - 450mm	5
450 - 600mm	3.5
600 - 1000mm	2.5

*The maximum recommended pour height of concrete in consideration of the internal pour pressure related to tube diameter and wall thickness.

Square or Rectangular Concrete Column Formers

Square or rectangular concrete column formers minimise labour costs and the hassles associated with site-built, plastic and metal forms.

- Can be supplied with (most cost-effective) or without chamfer
- Looks round, but has a square
- Stands strong against the weight and pressure of poured concrete
- Zipper eliminates the need for saws or utility knives to remove form
- Easy to set up and brace

Sizes:

Lengths up to 6m.

Specials & Accessories:

Octagons, ovals & other special shapes, feature indents and mushroom heads are also available upon request.

Square	200 x 200mm
	250 x 250mm
	300 x 300mm
	350 x 350mm
	400 x 400mm
Rectangle	450 x 450mm
	500 x 500mm
	200 x 250mm
	200 x 300mm
	200 x 350mm
	200 x 400mm
	250 x 300mm
250 x 350mm	
300 x 400mm	



Fixing Collars

Fixing collars have become the proven method for supporting circular column formers in position whilst casting. Reusable. Should only be supported in normal use at the base and top (they should not be supported in the middle).

Fixing collars are used to:

- Hold the tubes upright.
- Join tubes together.
- Hold them at the top.

Description/Size	Diameter range
Collar - No 1	200 - 300
Collar - No 1.5	350 - 450
Collar - No 2	500 - 600
Collar - No 3	650 - 900

Metal Formwork Hy-Rib®

HY-RIB® Hy-Rib® Permanent Formwork

Expamet Hy-Rib® is an expanded metal sheet product, specifically developed for use as permanent formwork to concrete.

Hy-Rib is primarily used in construction joint applications but it is also used to form wall, beam & column surfaces and slabs soffits, where the formed surface will not be seen.

Hy-Rib is certified for use as permanent formwork by the British Board of Agreement (BBA). See table below;





Typical Applications

- Construction joint stopends in thin & thick base and suspended slabs.
- Vertical construction joint stopends in thin and thick walls.
- Deep construction joints.
- Capping beams.
- Permanent wall and column formwork.
- Permanent Soffit formwork.
- Industrial floor slabs.
- Water retaining & excluding structures.
- Bolt boxes / Void formers.
- Curved formwork.
- Day work joints.
- Baffles to self compacting concrete.
- Inclined & top formwork.
- Sprayed concrete background.


Type	Length	Width	Thickness	Weight
2811	2, 3, 4, 5m	89, 178, 267, 356, 445mm	0.4mm	3.39kg/m ²
2611	2, 3, 4, 5m	89, 178, 267, 356, 445mm	0.5mm	4.23kg/m ²
2411	2, 3, 4, 5m	89, 178, 267, 356, 445mm	0.75mm	6.34kg/m ²

Stainless Steel Hy- Rib is also available to order in the following lengths; 2, 4, 5m.

HY-RIB® Zinc Coated Hy-Rib

Grade	2811	2611	2411
Type: (BS EN 10327)	DX51D + Z275	DX51D + Z275	DX51D + Z275
Thickness (Steel Gauge)	0.4mm	0.5mm	0.75mm
Weight	3.39kg/m ²	4.23kg/m ²	6.34kg/m ²
Sheet Identification	ID Colour: Red 2811	ID Colour: Green 2611	ID Colour: Yellow 2411
			

HY-RIB® Stainless Steel Hy-Rib

Grade	2811 S 304
Type: (BS EN 10088-1)	1.4301
Thickness (Steel Gauge)	0.4mm
Weight	3.4kg/m ²
Sheet Identification	ID Colour: Blue 2811 S 304
	

Screed Rails & Accessories



K-FORM Screed Rails

K-FORM UPVC Screed Railing provides the construction industry with an economical, efficient and environmentally friendly alternative to steel and timber formwork.

Made from recycled materials, K-FORM is lightweight, durable and does not require removal after placement of concrete. It is easily cut to length on site and has pre-drilled holes in the vertical face for placing steel dowels bars and in the base for anchoring. Furthermore, K-FORM's patented design features a built in expansion joint, endclips for joining and a removable top string for joint sealing.

Intended to be used with all types of screeds including; twin beams, bunyan rollers, vibro strikes, etc. K-FORM's K135, K85 and K35 sacrificial railing replaces steel forms where joints are needed.

Top Strip Angle Joints

Top Strip Angle Joints integrate seamlessly with K-FORM K85 and K135 Screed Rails. They provide a clean and tidy joint detail at intersections and should be used when it is intended to leave the topstrip in place after pouring.



Size	Slab Thickness
K35	50 - 100mm
K85	100 - 140mm
K135	150 - 225mm

Metalscreed Unirail Screed Rail System

A “Leave in place” range of screed rails suitable for screeds and concrete floors from 40mm deep to 225mm. Easy to install and use, will enable surface flatness levels to be achieved up to and including Superflat category. Both the rails accept the top extender strip which assists the use of striker tubes and screeding apparatus, the strip can be left in place or later removed for caulking if required.

Typical applications:

- Sand & cement screeds 40mm and deeper
- Concrete screeds and overlabs
- Ground bearing slabs
- Suspended slabs
- Metal Deck and Composite floors
- Elevated slabs
- External slabs/car parks/yards

Metalscreed Unirail Benefits:

- Lightweight, easy to use
- Strong High Tensile Steel construction
- Galvanised to resist corrosion
- Forms a vertical face - no voids
- Only anchors into one slab
- Level - manufactured to $\pm 1\text{mm}$ per 3 metre length



Unirail 40/60

A 40mm high screed rail that can be rotated through 90° to increase the height to 60mm. Strong galvanised High Tensile steel construction, with 30mm diameter holes at 50mm centres in both elevations to accept dowels and tie bars, suitable for screeds up to 100mm deep.



Unirail 70/90

Basically the 40/60, but with multi-positional feet and clamp screws. These feet are designed for use on metal decking systems, they fix by simple Tek screw to the top of the deck profile, increasing the rail height and providing height adjustment by an additional 30 - 60mm.

Height adjustment to compensate for deflection during the pour can be obtained by the use of the clamp screws. 125mm maximum height obtainable on full adjustment of feet.



Unirail 140

140mm high rail with feet fitted, designed for slabs up to 200mm, comes with snap on feet, but can also be fixed with pins. Suitable for internal and external slabs. Fix 20mm compressible foam to the rail to construct a concrete joint which allows concrete to be poured both sides simultaneously, providing a fast track method for external slabs.

For additional arris protection a rail can be fitted to both sides of the foam to create a true expansion joint. All types of dowel can be used in conjunction with this rail, especially the Metadowel which has clips punched into the rail to secure it in place.



Metalscreed Ancillaries

Metalscreeds' range of fixings have been designed to suit a wide variety of applications, whether you want to fix on one side, or both, require adjustment or not, want to fit to falls or just need a speedy installation, there is a fixing that will suit.

Angled Metal Foot

Fixes to Metaform with screws & wingnuts, height adjustable, provides a strong stable mounting, useful for fixing directly to metal decking or a concrete sub-base, can also be anchored with timber props, concrete dabs or roadform pins.



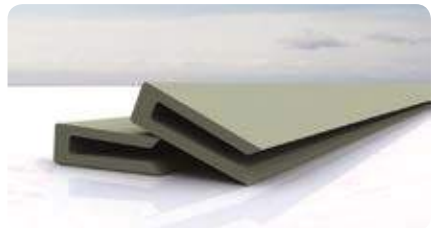
Snap-fit Metal Foot

Quick fitting and ideal for most applications, particularly suitable for larger jobs where a lot of feet are required, can be anchored with timber props, concrete dabs or roadform pins.



Unirail Top Extender Strip

A UV stable plastic strip that clips firmly to the top of the Unirail, giving an additional 15mm in height, strengthens top edge for screeders and striker tubes to run on, can be left in the floor or removed as required.



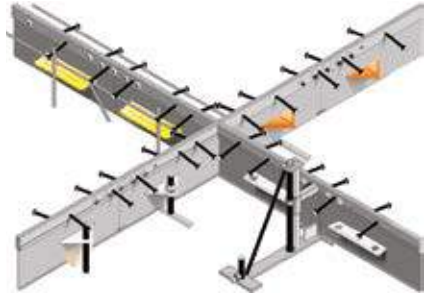
Alphajoint Floor Formwork System

A “leave-in-place” dual joint armouring and load transfer formwork system with 10mm wide by 50mm square edge steel joint edge protection. It is used in conjunction with Alpha or Diamond dowels and provides two-way movement capability. It features a fool-proof levelling system and prefabricated corner, t-junction and cross intersections are available.

Using the AlphaJoint system gives the following benefits:

- Superior joint edge protection, which reduces maintenance.
- Discontinuous dowel load transfer, which provides better “burst-out” performance to continuous systems.
- Better floor flatness tolerances due to threaded adjustment.

Versions are available for ground bearing slabs up to 240mm thick, 10mm maximum joint opening, and for suspended floor slabs up to 240mm thick, 20mm maximum joint opening.



Betajoint Floor Formwork System

A “leave-in-place” formwork system for tied or contraction joints in light to medium duty floor applications. Manufactured from galvanised steel, it is suitable for internal and external use and is available with 2mm and 12mm topstrips for a choice of jointarm protection.

Bolt-on feet are available for easy levelling, for super flat floors, and it can be supplied punched to suit all types of dowel and dowel spacing.



Plastic Screed Chairs

An easily adjustable system for use with a 50mm diameter pole. For calculating amount of tubing required, deduct 25mm from required depth. Minimum slab depth 100mm.

Type	Pack
Base	100
Collar	100
Saddle	100
Shaft	2m



Steel Screed Chairs

A heavy duty steel screed chair system that is designed for slabs up to 405mm deep, comprising a rigid three legged base with threaded shaft into which a saddle is screwed to adjust the height. There are four sizes to accommodate varying slab depths.

Slab Depth	Pack
115 - 150	25
145 - 205	25
195 - 305	25
295 - 405	25



Screed Bars

Used when screeding to provide greater accuracy in concreting levels.

Size
25mm x 50mm x 7.5m

Metal Top Screed Rail

The metal top rail is a combination of concrete and galvanised steel. These rails make it easier to achieve a superflat surface, since the permanent rails provide a more stable base from which to screed.

The unique design with its 1.5mm top profile of galvanised steel provides a very straight and fully controlled hairline crack. The profile of this rail along with the holes in the metal strip tie the rail firmly to the slab.



Height	Length
65, 90, 115, 140, 165mm	3.9m

Crack Inducers & Void Formers

Corner Fillets

A range of rigid PVC strips of 2.5m length for nailing to column shutters or formwork. Supplied as either plain or with a nailing flange. Supplied in 100m bundles.



Corner Fillets - Plain

Size
10 x 10
20 x 20
25 x 25
30 x 30

Corner Fillets - Wide Flange

Size
10 flange
15 flange
20 flange
25 flange
30 flange

Top Crack Inducer Two Part

A two part top crack inducer and joint former. The top section should be removed after concrete has cured, leaving a sealant void of 25mm x 10mm.

Supplied in 5m lengths.

We recommend the use of the aluminium T-bar when using this product.



Code	Depth
CP50/10	50mm
CP75/10	75mm

Base Crack Inducer

A base crack inducer used to induce a crack from the base vertically. Used in conjunction with top crack inducers or saw cutting.

Supplied in 5m lengths.



Depth
40mm
75mm

Aluminium T-Bar

A re-useable rigid aluminium T-bar to form a straight void to accept top crack inducers.

Supplied in 5m lengths.



Code	Depth
50TBAR	Each
75TBAR	Each

PVC Void Former

A re-usable PVC void former for forming grooves in concrete or nailing to formwork.

All supplied in 3m lengths.

Size

20 x 10

20 x 20

25 x 12

25 x 25



Polystyrene Void Formers

Polystyrene Void Formers utilise the low weight/high strength characteristics of expanded polystyrene to provide the designer and contractor with a cost effective method of reducing the deadweight of a variety of structures:

- Motorway bridges
- Pre-cast beams
- Basement slabs
- Water treatment works

The void formers are either cylindrical, generally moulded or profiled and cut from expanded polystyrene block. The moulded cylinders are available in diameters ranging from 250 to 1050mm and the standard length is 2.4m. By glueing and cutting the profiles can be manufactured to suit engineers' requirements.

Side Slab Seal

A 40mm deep by 5mm wide expanded polyethylene foam joint filler used as a permanent seal in longitudinal and warping joints in pavement construction. It is either ploughed into the slab being cast, or glued to the edge of the formed concrete using contact adhesive, prior to casting the adjacent slab. A self-adhesive version is also available.

Type

30m x 5mm coil

30m x 5mm self-adhesive coil

1 litre contact adhesive

5 litre contact adhesive



Reinforcement

Standard Fabric

Manufactured to BS 4483:2005 from cold reduced wire conforming to BS 4482. Each wire intersection is resistance welded using electronically controlled techniques. When ordering non-standard sheets, the main wire length should be the first dimension stated.



Standard Sizes (4.8 x 2.4m)

BS References	Mesh size nominal pitch of wires		Wire Sizes		Cross sectional area per metre width		Nominal weight per m ²	Sheets per tonne (approx)	Sheet weight	Sheets per bundle	Sq metres per tonne
	Main	Cross	Main	Cross	Main	Cross					
A393	200mm	200mm	10mm	10mm	393mm	393mm	6.16kg	15	70.96kg	20	162.34
A252	200mm	200mm	8mm	8mm	252mm	252mm	3.95kg	22	45.50kg	30	253.16
A193	200mm	200mm	7mm	7mm	193mm	193mm	3.02kg	29	34.79kg	40	331.13
A142	200mm	200mm	6mm	6mm	142mm	142mm	2.22kg	40	25.57kg	50	450.45
A98	200mm	200mm	5mm	5mm	98mm	98mm	1.54kg	57	17.74kg	60	649.35
B1131	100mm	200mm	12mm	8mm	1131mm	252mm	10.90kg	8	125.57kg	10	91.74
B785	100mm	200mm	10mm	8mm	785mm	252mm	8.14kg	11	93.57kg	14	122.85
B503	100mm	200mm	8mm	8mm	503mm	252mm	5.93kg	15	68.31kg	20	168.63
B385	100mm	200mm	7mm	7mm	385mm	193mm	4.53kg	20	52.19kg	30	220.75
B283	100mm	200mm	6mm	7mm	283mm	193mm	3.73kg	24	42.97kg	40	268.1
B196	100mm	200mm	5mm	7mm	196mm	193mm	3.05kg	29	35.14kg	50	327.87
C785	100mm	400mm	10mm	6mm	785mm	70.8mm	6.72kg	13	77.41kg	20	148.81
C636	100mm	400mm	9mm	6mm	636mm	70.8mm	5.55kg	16	63.94kg	20	180.18
C503	100mm	400mm	8mm	5mm	503mm	49.0mm	4.34kg	20	50.00kg	30	230.41
C385	100mm	400mm	7mm	5mm	385mm	49.0mm	3.41kg	26	39.28kg	40	293.26
C283	100mm	400mm	6mm	6mm	283mm	49.0mm	2.61kg	34	30.07kg	50	383.14
D49	100mm	100mm	2.5mm	2.5mm	49.1mm	49.1mm	0.77kg	113	8.87kg	50	1298.7

112 Reinforcement & Formwork

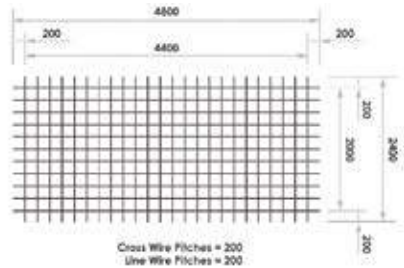
Merchant Sizes (3.6 x 2.0m)											
BS References	Mesh size nominal pitch of wires		Wire Sizes		Cross sectional area per metre width		Nominal weight per m ²	Sheets per tonne (approx)	Sheet weight	Sheets per bundle	Sq metres per tonne
	Main	Cross	Main	Cross	Main	Cross					
A393	200mm	200mm	10mm	10mm	393mm	393mm	6.16kg	23	44.35kg	20	162.34
A252	200mm	200mm	8mm	8mm	252mm	252mm	3.95kg	35	28.44kg	30	253.16
A193	200mm	200mm	7mm	7mm	193mm	193mm	3.02kg	46	21.74kg	40	331.13
A142	200mm	200mm	6mm	6mm	142mm	142mm	2.22kg	63	15.98kg	50	450.45



Alti-Mesh

Alti-Mesh is economical and lighter to handle when compared to standard fabric. It maintains the specific weight per m² in the sheet, excluding the lap zone.

- Alti-Mesh has 200mm edge overhang, as opposed to Standard A fabrics with a 100mm edge overhang,
- Alti-Mesh has 1 less longitudinal wire and 1 less crosswire
- Reduced weight and price per sheet compared to Standard Fabric
- Less prone to damage compared to flying end fabric



Tailor Made & Flying End Fabric

Benefits of Flying End Fabric

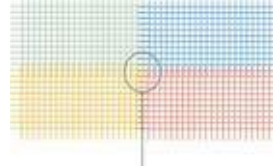
Four overlapping sheets of fabric - shown coloured for clarity.

- Sheets manufactured to suit bay size.
- Minimum wastage.
- Less cutting on site.
- Faster fixing time.
- Eliminates build-up of reinforcement to maintain correct cover.
- Manufactured to BS 4483

Sheets can be manufactured up to 6m in length and 2.45m in width.

Our Service:

- Detail drawings and laying instructions.
- Schedule of all accessories, polythene and floor topping.
- Complete support.



Close up of area where all four sheets overlap



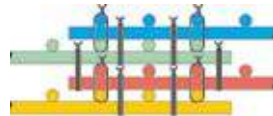
Flying End Fabric

Fabric nesting at laps utilising flying ends.



Standard Fabric







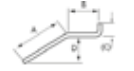


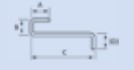




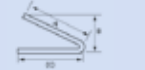















Fabric layer congestion at laps



Cut and Bent Reinforcement

Bending Dimensions - Preferred Shapes

Reinforcing bar to BS 4449:2005, produced to Engineer's schedules. Delivery usually within a few days of receipt of an order, or to site call-off requirements.

Shape/Code	Shape/Code	Shape/Code
00  A	A + B + (C) - 0.5r - d	27 
01  A'	A + B + (C) - 0.5r - d	47 
A + B - 0.5 - d	A + B + (C) - 0.5r - d	51 
11 	A + B + (C) - r - 2d	29 
A + (B) - 0.43R - 1.2d	A + B + C + (D) - 1.5r - 3d	31 
12 	A + B + C + (D) - 1.5r - 3d	32 
A + 0.57B + (C) - 1.6d	A + B + C + (D) - 1.5r - 3d	33 
13 	A + B + C + (D) - 1.5r - 3d	34 
A + (C) - 4d	A + B + C + (E) - 0.5r - d	35 
14 	A + B + C + (E) - 0.5r - d	36 
A + (C)	A + B + C + (E) - 2r - 4d	41 
15 	A + B + C + (E) - 2r - 4d	44 
A + B + (C) - r - 2d	A + B + C + (E)	46 
21 	A + B + C + (E) - 2r - 4d	
A + B + C + (D) - 1.5r - 3d		
22 		
A + B + (C) - r - 2d		
23 		
A + B + (C)		
24 		
A + B + (E)		
25 		
A + B + (C)		
26 		
		67 
		75 
		77 
		98 

Cx (A-d)
Where B is greater than A / 5
this equation no longer applies
in which case the following
formula may be used:
 $L = C((\pi(A-d))^2 + B^2)^{0.5}$

All other shapes where standard shapes cannot be used.
No other shape code number, form of designation or abbreviation shall be used in scheduling.

A dimensioned sketch shall be drawn over the dimension columns A to E. Every dimension shall be specified and the dimension that is to allow for permissible deviations shall be indicated in parenthesis, otherwise the fabricator is free to choose which dimension shall allow for tolerance

* Stock bars are supplied in 12 metre notional lengths in diameters of 12mm and above in original manufacturers bundles. Tolerances for stock lengths shall be subject to BS4449:2005

Bar Dimensions/Weights								
Nominal Size	40mm	32mm	25mm	20mm	16mm	12mm	10mm	8mm
Cross-sectional Area	1256.6mm	804.2mm	490.0mm	314.2mm	201.1mm	113.1mm	78.5mm	50.3mm
Mass	9.864kg/m	6.313kg/m	3.854kg/m	2.466kg/m	1.579kg/m	0.888kg/m	0.616kg/m	0.395kg/m

Cut and Bend Service

In our Tyneside branch we have our own cut and bend machines and processor. We aim for a very fast turn around of small jobs. A same day service is often available locally and depending on the specifics of the bar schedule, it is sometimes possible to palletise the cut and bent bar and send on a next day service throughout the country.

Generally schedules totalling 2 tonne or less will be considered for in-house processing. Above 2 tonne is usually outsourced.

Please send through your schedule/drawings to the Tyneside branch for delivery and pricing information.

Tel: 0191 487 4983
Fax: 0191 491 5790

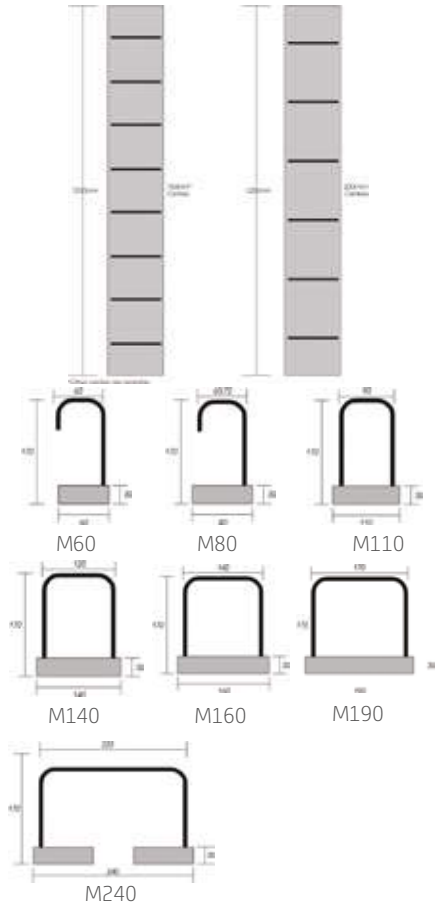
Reinforcement Continuity Systems

These are manufactured in a robust, all steel, galvanised case developed to withstand the rigours of site handling and conditions. The case is designed to remain embedded in the concrete and its indented profile provides an excellent initial bond and subsequent key where structural joints are made. The profile's efficiency is in the bonding of two concrete surfaces and eliminates any need for manual preparation at the joint. The ultimate configuration of case, bar, shape & dimensions is almost infinite - so for simplicity, the tables (right) contain ONLY the most regularly requested combinations. If your requirement is not catered for in the tables, please contact our sales staff.

Applications:

- Walls
- Floor slabs
- Stairwells
- Slip forms
- Gutters
- Balcony
- Parapets
- Pile caps
- Strip foundations
- Brick support
- Ledges
- Corbels
- Haunches
- Troughs

Standard Unit Stirrup Types:





Eazistrip Continuity System

Eazistrip Reinforcement Continuity Systems are designed to maintain continuity of reinforcement at construction joints in concrete. Formwork design is simplified and there is no need to drill shuttering. Each unit consists of a galvanised steel casing which is dimpled to provide an effective concrete bond. Pre-bent bars are housed within the box and are secured by a protective cover. When the cover is removed the bars can be straightened ready for lapping onto the main reinforcement. Bars must be straightened only once, using an Eazistrip re-bending tool. When the potential for water ingress through the construction joint is a major concern, Eazistrip can be supplied with a Pentaflex hydrostatic seal which provides protection against moisture permeation along the joint face.

Eazistrip Reinforcement Continuity systems are manufactured from CARES approved bar. The grade of reinforcing bar complies with the tensile requirements of BS4449:2005 Grade B500C. The bars are bent in accordance with BS8666.

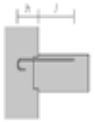
Ancon is phasing out the use of steel covers on Eazistrip systems, replacing them with a heavy duty plasticised cardboard alternative. User feedback suggests these covers are quicker and safer to remove.

Currently all 10mm and 12mm systems are supplied with the cardboard cover. The 16mm system will be supplied with steel covers in the short term, however should you require this system with a cardboard cover please advise SIG at the time of ordering.



Standard Range Specifications

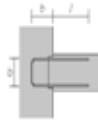
The following tables give details of the Eazistrip standard ranges. Many customers require purpose-made units to suit their particular application. In order to meet this requirement Ancon will manufacture according to your specific bar arrangement. The most common shapes are shown overleaf. We can provide custom-built shapes to meet your configuration. For further details please contact your local branch.



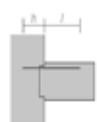
Type H Hook
(Standard in 80mm box)



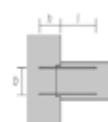
Type RU U Bar
(Not available in 80mm box)



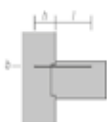
Type U U Bar/ DH
Double Hook (Not available in 80mm box)



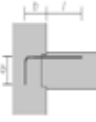
Type S
Straight Bar



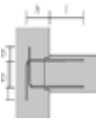
Type S2
Double Straight Bar



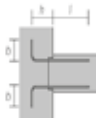
Type SH Angle
with leg in horizontal plane



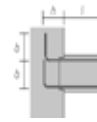
Type RA
Angle



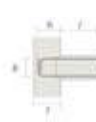
Type RA1
Double Angle



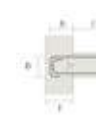
Type RA2
Double Angle



Type RA3
Double Angle



Type CS
Closed Stirrup



Type 2H
Two Single Hooks used for boxes wider than 240mm

Notes

1. Dimensions shown are nominal. Heights and lengths may typically vary by one bar diameter.
2. On 16mm diameter Type U boxes, the stirrup may be achieved by using two shape code 21 bars. These are referenced DH.
3. Boxes containing 16mm bars are nominally 50mm deep.
4. Maximum box length is 3m dependent upon weight.

Eazistrip Reinforcement Continuity Systems Enquiry Form

Please photocopy this page and use it to detail your enquiry/order, please fax to your local branch.

Company:

Address:

Town:

Post Code:

Contact:

Tel:

Fax:

Delivery date:

Delivery address

Town:

Postcode:

Contact:

Tel:

Fax:

Project:

Item	Quantity	1. Box width (mm)	Bar dia 10, 12, 16 mm	2. Stirrup spacing (mm)	Stirrup type (see illus)	3. Box length (mm)	4. Stirrup width <i>b</i> (mm)	Stirrup height <i>h</i> (mm)	Anchoring length <i>l</i> (mm)	5. Stirrup width (mm) <i>c</i>
------	----------	----------------------	--------------------------	-------------------------------	-----------------------------	-----------------------	--------------------------------------	------------------------------------	--------------------------------------	--------------------------------------

1. Standard box widths 60, 80, 110, 140, 160, 190 and 240mm.
2. Variable stirrup spacing available. Standard spacing 150 and 200mm.
3. Box lengths up to 3000mm available in certain sizes dependent upon weight. Standard length 1200mm.

4. Stirrup width *b* is 20mm less than box width as standard. Special spacing for all types available on request.
5. For types RA1, RA2 and RA3, please state dimension *c*.

Note: Bars must be straightened using an Eazistrip re-bending tool. Do not straighten bars more than once.

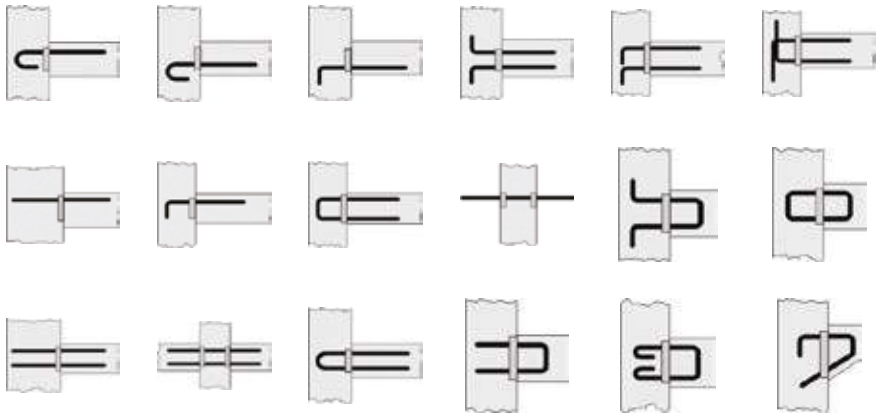
Standard Unit Systems				
10mm Rebar Diameter				
Box Width	Centres	Stirrup Height	Stirrup Width	Leg Length
80mm	150mm	170mm	60mm	410mm
80mm	200mm	170mm	60mm	410mm
110mm	150mm	170mm	90mm	410mm
110mm	200mm	170mm	90mm	410mm
140mm	150mm	170mm	120mm	410mm
140mm	200mm	170mm	120mm	410mm
160mm	150mm	170mm	140mm	410mm
160mm	200mm	170mm	140mm	410mm
190mm	150mm	170mm	170mm	410mm
190mm	200mm	170mm	170mm	410mm
240mm	150mm	170mm	220mm	410mm
240mm	200mm	170mm	220mm	410mm
12mm Rebar Diameter				
Box Width	Centres	Stirrup Height	Stirrup Width	Leg Length
80mm	150mm	170mm	80mm	500mm
80mm	200mm	170mm	80mm	500mm
110mm	200mm	170mm	90mm	500mm
140mm	150mm	170mm	120mm	500mm
140mm	200mm	170mm	120mm	500mm
160mm	150mm	170mm	140mm	500mm
160mm	200mm	170mm	140mm	500mm
190mm	150mm	170mm	170mm	500mm
190mm	200mm	170mm	170mm	500mm
240mm	150mm	170mm	220mm	500mm
240mm	200mm	170mm	220mm	500mm

16mm Rebar Diameter

Box Width	Centres	Stirrup Height	Stirrup Width	Leg Length
160mm	150mm	170mm	140mm	640mm
160mm	200mm	170mm	140mm	640mm
190mm	150mm	170mm	170mm	650mm
190mm	200mm	170mm	170mm	650mm
240mm	150mm	170mm	220mm	650mm
240mm	200mm	170mm	220mm	650mm

Custom Built Units

Below are examples of some of the many configurations available, custom built to your specification.



Ancon KSN Anchor continuity system

Ancon KSN Anchors, in combination with Bartec parallel-threaded reinforcing bars, simplify concrete construction joints. They provide continuity of reinforcement at slab-to-wall joints without the restrictions on bar length and bar diameter of re-bend continuity systems.



120 Reinforcement & Formwork



KSN Anchors

There are eight standard anchors in the range.

Anchor Ref.	Metric Thread	Anchor Length
KSN12S	M16	115mm
KSN12M	M16	150mm
KSN16S	M20	130mm
KSN16M	M20	160mm
KSN16L	M20	190mm
KSN20S	M24	150mm
KSN20M	M24	190mm
KSN20L	M24	230mm



KSN Tapered Thread Timber Anchor Carrier

KSN Anchors are supplied fixed to a timber carrier at the designed spacing. The timber simplifies installation, creates a shear key when removed and increases anchor embedment.



Bartec Continuation Bars

Ancon KSN Anchors are designed for use with 12, 16 and 20mm diameter reinforcing bar, threaded with an Ancon Bartec thread.

Bar Dia.	Thread Size
12mm	M16
16mm	M20
20mm	M24



Reinforcing Bar Couplers

Bar Couplers

In addition to the straight bar couplers listed below, we are also able to supply a range of special bar couplers. These include bent bar couplers, double male and double female couplers as well as custom length couplers.

Bar Diameter	Thread Metric	Female Coupler	Male Coupler
		Length	Length
10mm	12	400mm	400mm
12mm	16	400mm	375mm
12mm	16	600mm	575mm
12mm	16	800mm	800mm
12mm	16	1000mm	1000mm
12mm	16	1500mm	1500mm
16mm	20	550mm	520mm
16mm	20	800mm	770mm
16mm	20	1020mm	1020mm
16mm	20	1440mm	1440mm
16mm	20	2200mm	2200mm
20mm	24	700mm	665mm
20mm	24	1000mm	965mm
20mm	24	1280mm	1280mm
20mm	24	1800mm	1800mm
20mm	24	2200mm	2200mm
25mm	30	1000mm	1000mm
25mm	30	1500mm	1500mm
25mm	30	2260mm	2260mm
28mm	36	400mm	400mm
28mm	36	1790mm	1790mm
28mm	36	2530mm	2530mm
32mm	42	1440mm	1400mm
32mm	42	2000mm	2000mm
32mm	42	2300mm	2300mm
40mm	48	1600mm	2000mm
40mm	48	2600mm	2600mm

*Items shown in bold italic show preferred sizes.

Position Couplers

The position coupler is assembled from a threaded bar with a nut and an internally threaded coupler sleeve with a lock nut. The position couplers are suitable for a bent or straight reinforcement bar, of which neither can be rotated, and where the space for the connected bar is limited. Please refer to data sheet for correct installation instructions.



Bar Diameter	Thread
10	12mm
12	16mm
16	20mm
20	24mm
25	30mm
28	36mm
32	42mm
40	48mm

Lenton Couplers

Lenton Couplers utilise a tapered thread that is cut into the reinforcement bars which, when tightened to the required torque setting, will develop the strength requirements of BS8110 as verified by the British Board of Agreement (BBA).

Two general types of coupler are available:

- The A12 type requires that one of the two bars being joined is free to rotate and lock into position
- The P14 type is used where both bars being joined are fixed and unable to rotate. Both types available in sizes to suit 12-50mm diameter bars





MBT Couplers

The MBT range of couplers provides a cost-effective method of joining reinforcing bars, particularly when the fixed bar is already in place and there is insufficient space for a hydraulic swaging press. They are easy to install and achieve failure loads higher than 115% of the characteristic yield strength of grade 500 reinforcing bar. Neither bar end preparation to form threads, nor bar rotation are required. MBT couplers can also be used to join imperial, plain round or deformed reinforcing bars.

When the pre-determined tightening torque for the bolts is reached, the heads shear off leaving the top of the installed bolt slightly proud of the coupler. This provides an instant visual check of correct installation.



MBT ET Series

ET series couplers are used to connect reinforcing bars of the same size. They can be used when neither bar can be rotated and are available in sizes 10mm to 40mm.

MBT ET Series	Bar Diameter
ET10	10mm
ET12	12mm
ET14	14mm
ET16	16mm
ET20	20mm
ET25	25mm
ET28	28mm
ET32	32mm
ET34	34mm
ET40	40mm

Other sizes available





MBT Transition Series

MBT Transition couplers connect reinforcing bars of different diameters and are suitable for applications when neither bar can be rotated. They are available to suit bar sizes 12mm to 40mm.

MBT Transition Series	Bar Diameter
ET16/12	16/12mm
ET16/14	16/14mm
ET20/12	20/12mm
ET20/16	20/16mm
ET25/16	25/16mm
ET25/20	25/20mm
ET32/20	32/20mm
ET32/25	32/25mm
ET40/32	40/32mm

Other sizes are available



MBT Continuity Series

The MBT Continuity coupler allows reinforcement to be extended at construction joints in concrete without the need to drill or otherwise damage the formwork at the construction joint locations. They are available to suit bar sizes 12mm to 40mm.

Continuity Series	Bar Diameter
C12	12mm
C16	16mm
C20	20mm
C25	25mm
C32	32mm
C40	40mm





MBT Headed Anchors

MBT Headed Anchors are designed to provide dead end embedment for bars in concrete. This helps to reduce congestion and simplify the placement of rebars by removing the need for hooked ends. The anchor comprises half an MBT coupler with a plate welded to one end which carries the full tension load of the bar when it is bearing against the concrete. The MBT Headed Anchor also has the added advantage of requiring no special bar end preparation.

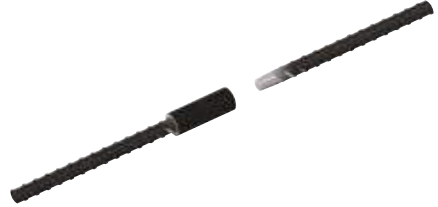


MBT Headed Anchors	Bar Diameter
ETHA10	10mm
ETHA12	12mm
ETHA14	14mm
ETHA16	16mm
ETHA20	20mm
ETHA25	25mm
ETHA28	28mm
ETHA32	32mm
ETHA34	34mm
ETHA40	40mm

Other sizes are available

Ancon Ancon Starter Bar System

The tapered thread starter bar system provides continuity of reinforcement at construction joints.



Ancon Starter Bar

The female component comprises a bar, normally threaded at one end only, supplied fixed to an Ancon tapered thread coupler. Various bar shapes are available.



Bar Dia.	Standard Length	Max. Bar Length
12mm	660mm	6000mm
16mm	870mm	6000mm
20mm	1075mm	6000mm
25mm	1340mm	6000mm
32mm	1715mm	3000mm

Ancon Continuation Bar

The male section comprises a straight bar, threaded at one end to allow connection to an Ancon tapered thread coupler.



Bar Dia.	Standard Length	Max. Bar Length
12mm	625mm	6000mm
16mm	830mm	6000mm
20mm	1035mm	6000mm
25mm	1290mm	6000mm
32mm	1655mm	3000mm

Nailing plates and torque wrenches are also available.



Shear Load Connectors

Ancon shear connectors offer significant advantages over conventional single dowels. The two-part construction means that the sleeve component can be simply nailed to the formwork, drilling or either formwork or concrete is not required. The dowel unit can then be inserted into the sleeve. The engineered nature of the two components ensures alignment, vital where movement is required.



DSD

The DSD is the original two-part, double dowel, shear load connector. The dowel component can move longitudinally within the sleeve to accommodate movement.



DSDQ

The DSDQ shear load connector uses the same dowel component as the DSD, but the cylindrical sleeve is contained within a rectangular box section to allow lateral movement in addition to the longitudinal movement.



ESD

This single dowel shear connector is available in four sizes with each size available in two lengths. ESD shear connectors are used where the slab or wall is too thin for DSD, and where loads are small.



ESDQ

The ESDQ shear load connector uses the same dowel as the ESD, but the cylindrical sleeve is contained within a rectangular box section to allow lateral movement in addition to longitudinal movement.



Ancon Ancon Lockable Dowels

Lockable dowels allow an initial phase of movement in a concrete frame and are then locked in position by a mechanical plate and resin. The locked dowel continues to transfer shear load.

They are used at temporary movement joints, most commonly found in post-tensioned concrete. These dowels eliminate the need for pour strips which removes a trip hazard from site and significantly reduces slab propping times, making construction safer and faster.



Ancon Ancon ESDQ-L20

The original lockable dowel for slab-to-slab joints. It allows for initial movement to take place and then, after a predetermined period (generally 60-120 days) is locked with a two part epoxy resin poured into the L-shaped grout box.



**Ancon HLDQ-L30**

A heavy duty lockable dowel for slab-to-slab joints. It has a design capacity of up to 136kN.

**Ancon ESDQ-L20W**

A lockable dowel for slab-to-wall joints. The dowel compartment is manufactured from 30mm diameter Duplex stainless steel. One end of the dowel is designed to fix into the stainless steel Ancon SKS24 Threaded Anchor cast into the face of the concrete, and the other end features a series of grooves to accept the locking plate.



Insulated & Reinforced Balcony Connectors

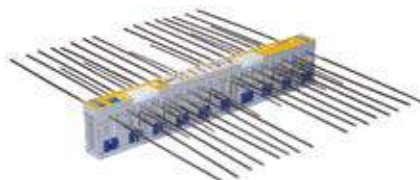


Isokorb thermal break modules

The Isokorb range of thermal break modules from Schöck is a highly effective countermeasure against the heat and energy loss, moisture formation and resultant mould growth and structural damage caused by thermal bridges – a problem particularly associated with cantilever components such as balconies. The range allows connections to be made between concrete-to-concrete, concrete-to-steel and steel-to-steel. The many different unit types available, combined with their ability to enable the transmission of shear, bending movement, tension and compression forces, also means that the options available effectively run into hundreds when the different combinations are taken into account. All units are very simple to install, due to the thermal break reinforcement being integral to the module; and Schöck provides setting out drawings as standard for the concrete-to-concrete range.

All products are BBA Certificated and LABC Registered and the range meets compliance with the Government Standard Assessment Procedure, SAP 2009, concerning CO₂ emissions from buildings and respectively heat losses through non-repeating thermal bridges. Here, the lambda values of the Schöck Isokorb enable energy loss in various connective situations to be reduced by as much as 84% to 91%. It also comfortably exceeds the requirements of the UK regulation (BRE IP1/06) which stipulates that the temperature factor used to indicate condensation risk (fRSI) must be greater than, or equal to, 0.75 for dwellings, residential buildings and public buildings.

The proven outstanding technical performance values of the Isokorb range have been the main driver in helping establish and maintain the current market position for Schöck in the UK, along with the high level of design and technical support provided for specifiers, structural engineers and contractors.



The type K for concrete-to-concrete



The type KS for concrete-to-steel



The type K thermally separates external reinforced concrete components from the main building structure



The type KS thermally separates external steel construction from the internal slab



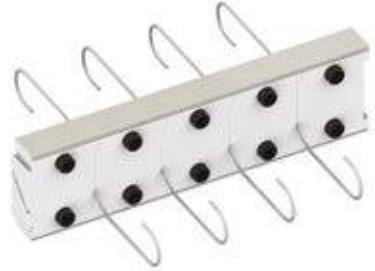


Ancon Isolan

The Ancon Isolan system joins external concrete balconies to internal concrete floor slabs. It provides continuity to both the reinforcement and the thermal insulation of the wall protecting the building against the effects of cold bridging. Standard systems, comprising rigid CFC-free polystyrene insulation and stainless steel shear reinforcement, are available in five heights to suit different slab depths. Conventional reinforcing bars provide the tension and compression reinforcement.

System Benefits

Ancon Isolan connectors use conventional reinforcing bars (grade 500B to BS4449: 2005) to provide the tension and compression reinforcement. When compared to systems where this reinforcement is an integral component, the Ancon Isolan solution can provide substantial cost savings and simplify specification, scheduling, transportation, handling and installation.



MV System

The Ancon Isolan MV system is used for the transfer of moment and shear forces in cantilevered balconies.





V System

The Ancon Isolan V system is used for the transfer of shear forces in simply supported balconies.



Product Code	Available Height	Shear Bars Supplied	Length of Shear Bars	Other Reinforcement Requirement
2MV6	Height : 160, 180, 200, 220 or 240mm	2 x 6mm diameter	530mm	
4MV6		4 x 6mm diameter	530mm	5 x Tension Bars
4MV8		4 x 8mm diameter	670mm	5 x Compression Bars
4MV10		4 x 10mm diameter	810mm	
2V6		2 x 6mm diameter	530mm	4 x Compression Bars
4V6		4 x 6mm diameter	530mm	
4V8		4 x 8mm diameter	670mm	5 x Compression Bars
4V10		4 x 10mm diameter	810mm	

All Isolan units are supplied in modules 750mm long

Design Information

Design graphs are used to select the most appropriate Isolan element, and the diameters of the shear, tension and compression reinforcement.

Example Isolan Reference :

4MV8 - 200 - 5Ø12T / 5Ø16C

↑
Number of shear bars.
System type.
Diameter of shear bars

↑
System height

↑
Number and diameter of tension bars to be supplied by others

↑
Number and diameter of compression bars to be supplied by others

Steel-to-Steel Balcony Connectors



Ancon STS Connectors

STS Connectors are used to fix steel balconies to structural steel frames. Two thermoset plates provide a thermal break at each steel interface to minimise cold bridging. Vertical fixing centres vary to accommodate steel section heights.



Steel-to-Concrete Balcony Connectors



Ancon STC Connectors

STC Connectors are used to anchor steel balconies into structural concrete slabs. They feature an integral thermoset plate at the interface between the bracket and slab to minimise cold bridging. Two-part construction allows phased installation to suit site schedule. The bracket component can be designed to suit the application, to avoid conflict with the external wall cladding.



Steel-to-Concrete Balcony Connectors



Ancon Shearfix

Ancon Shearfix is used within a slab to provide additional reinforcement around a column head or base. The system comprises double-headed studs welded to flat rails. Studs are manufactured from CARES approved B500C reinforcing bar in five diameters and in lengths to suit the depth of slab. Shearfix rails are manufactured from strips of steel, 16mm wide.

The quantity of studs and rails, their dimensions and spacings, and the layout pattern around the column is determined by calculation.

Type	Stud Diameter
AS10	10mm
AS12	12mm
AS16	16mm
AS20	20mm
AS25	25mm

Product Reference

Quantity of Rails. Shearfix Code, Stud Diameter -
 Number of Studs - Stud Length - Rail Length e.g. 5 No.
 AS12 - 3 - 230 - 600



Cast-in Channels

Cast-in Channels range from simple self anchoring slots for accepting restraint fixings to large capacity channels with integral anchors. They provide the necessary adjustment required when fixing to concrete and can eliminate site drilling. Nail holes aid the fixing of channels to timber formwork and infill prevents the ingress of concrete during casting.



Channel profiles available for casting in are: 21/18, 28/15, 38/17, 30/20, 41/27, 40/25, 49/30, 54/33, and 72/49.



Ancon 30/20

Ancon 30/20 is a high performance channel. The unique shape allows the applied load to be fed directly from the channel lips to the anchors and the more compact section size improves its fit between reinforcement. Specially designed T-head bolts ride up the sloping sides of the channel and securely lock behind the front lips.

30/20 is filled with continuously extruded closed-cell PE-LD foam. This material is removed easily in long sections and is 100% recyclable.

Ancon 30/20 should be used in preference to 38/17 channel and its lower material content offers considerable cost benefits.



Floor Decking



Ancon CombiDeck

Ancon CombiDeck has been developed for use with the permanent metal deck shuttering of steel framed structures. CombiDeck edge support is supplied with an integral channel section that accepts standard Ancon 'T' Head Bolts.

CombiDeck is manufactured in zinc coated mild steel with a stainless steel or galvanised steel channel. Alternatively the complete assembly can be manufactured in stainless steel.

It is supplied in standard three metre lengths in a variety of heights to suit the floor thickness. Corner assemblies and special units are available to suit particular applications.

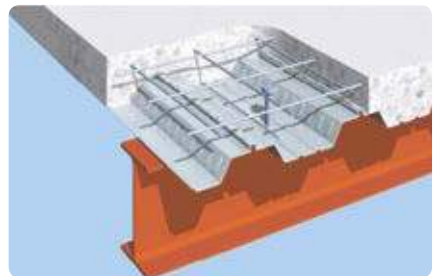
The stainless steel channel welded into the edge support will usually be Ancon 30/20, positioned 55mm below the top.



ComFlor 70

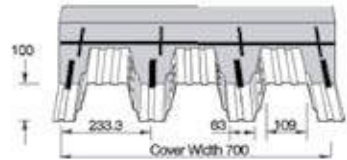
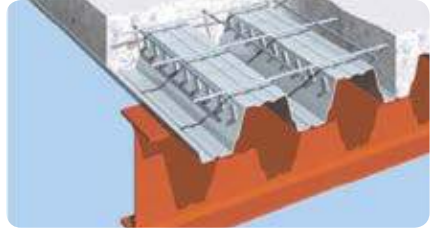
ComFlor 70 is designed for optimum performance in span capacity, economy, composite performance and concrete usage. The economy and spanning capacity of a trapezoidal profile is combined with the interlocking shear performance of a re-entrant to give major performance advantages.

Code	Size
CF70	900mm



ComFlor 100

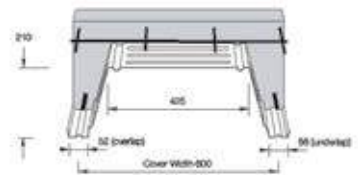
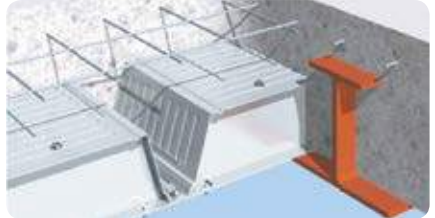
ComFlor 100, has a very strong profile shape and offers the capability to span up to 4.5 metres without props. Designed particularly for Continental European application, the ComFlor 100 also brings considerable benefits to the British designer looking for longer unpropped spans. The profile is not suitable for use with shear stud connectors.



Code	Size
CF100	700mm

ComFlor 210

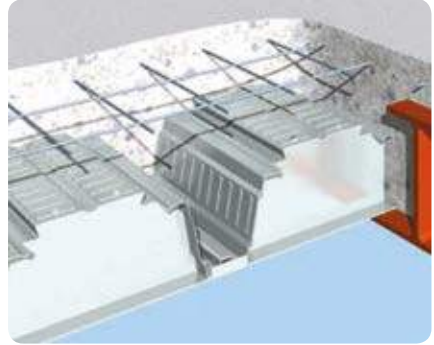
The original SlimFlor long span steel deck, ComFlor 210 has the capability to span up to 6 metres in unpropped construction. Suitable for use in Corus Slimdek construction, which offers minimal structural depth, fast construction and many other benefits.



Code	Size
CF210	600mm

SD225

SD225 is the latest addition to PMF's flooring range. Developed specifically for Corus Slimdek system, SD225 offers up to 6.5 metres unpropped span . Corus Slimdek engineered flooring solution is a unique structural floor system which uses Asymmetric SlimFlor Beams, where the bottom flange is wider than the top flange. The SD225 steel deck bears on the lower flange of the beam which results in a minimal overall floor depth, the concrete that surrounds the beam provides composite action without the need for shear studs, and fire protection to the beam. The Slimdek system is fast, eliminates temporary props, is structurally optimised and saves on cladding costs. The system also reduces building height or enables extra floors to be built.



Code	Size
SD225	800mm

Formwork Chemicals



Adofill

Formwork Patch Repair Compound

A rapid curing, stainable, two-part unsaturated polyester resin based wood filler designed to give superior performance and longevity. This non-sag, repair filler is ideal for larger repairs to damaged or rot affected timber and is particularly suitable for structural overhead repairs when suitable plastic shuttering is used. It is easy to model and shape upon initial setting. Specifically developed to enable repairs to be carried out within one hour

Characteristics / Advantages

- Ideal for large overhead repairs
- Excellent longevity
- Excellent modelling properties
- Excellent adhesion
- Can be used for structural repairs
- High strength and super tough
- Fast Curing
- Easy sanding and accepts most spirit based wood stains
- Suitable for internal and external applications

Sizes: 1.4kg, 6kg (other sizes available on request)

Colours: White, Dark Oak, Black (other colours available on request)



Adostrip

A high quality non-staining release mould oil for use on all types of shuttering and formwork.

(BCA Category 2)

It incorporates active ingredients which allows forms to remain in place longer than traditional Mould Oils. Gives a lighter and more uniform colour of struck concrete.

High coverage per litre.

Usage rate: Approximately 15-30m² per litre.

Available in 5, 25 and 210 litre sizes.





Adostrike

Concrete Mould Oil (BCA Category 5)

ADOSTRIKE is high quality mould oil for general site and precast yard use that achieves a top quality concrete finish in most situations. Release is achieved by the oil forming a physical barrier between the formwork surface and the concrete. Surfactants help to eliminate blowholes and provide a clean, uniformed and non-stained surface.

Facilitates easy formwork release

- Provides uniform stain-free, high quality concrete surfaces
- Minimises incidence of surface air voids
- Reduces form cleaning to a minimum
- Highly resistant to removal by rain showers or foot traffic
- High coverage rate provides economic usage
- Suitable for use on all types of formwork in all climatic conditions
- Easy application by spray, brush or swab
- Suitable for use on sealed or unsealed timber formwork
- Forms may be stripped early as other factors permit
- Ideal for achieving release from multi-planed features e.g. trapezoidal ribs, cone shaped column heads, etc
- Suitable for use with white or standard OPC concrete finishes
- Fully compatible with the subsequent application of silicone or similar surface treatments when used as recommended.
- Low odour and Low Hazard
- Colour free

Sizes: 5, 20, 25, 205 Litres

Usage Rate: 30-40m² per litre





Safetard Liquid

Water Based Surface Retarder for Application to Concrete Top Face

SAFETARD LIQUID is a light brown aqueous solution of penetrating and retarding agents.

Advantages

- Easily applied by brush to all formwork types
- Weather resistant
- Single coat application
- Concrete can be applied immediately or later
- Non staining
- Water based with no flammable or toxic constituents
- Any residue on formwork is easily removed
- Can be used on vertical surfaces
- No VOC

Sizes: 5, 20, 25, 205 Litres

Usage Rate: 30-40m² per litre





Safetard Gel

Water Based Surface Retarder for Application to Formwork

A transparent, gel type composition, colour tinted to assist application. SAFETARD GEL has been formulated to retard the set of fresh concrete that comes into contact with it. It is ideally suited to the production of exposed aggregate finishes or 'keyed' surfaces for construction joints or for subsequent application of plasters or renders. It is coloured to give a visual indication of where it has been applied.

Advantages

- Easily applied by brush to all formwork types
- Weather resistant
- Single coat application
- Concrete can be applied immediately or later
- Non staining
- Water based with no flammable or toxic constituents
- Any residue on formwork is easily removed
- No VOC
- Bio-gradable

Sizes: 5, 25 Litres

Usage rate: 3-4m² per litre



**Adoseal****Plastic Formwork Coating**

Adoseal is low viscosity, high solids, single pack moisture curing polyurethane which, being of lower vapour pressure than most similar materials, is an easier material for operatives to use.

Adoseal also includes wetting agents which enable it to achieve excellent penetrating properties without a reduction in solids content, in order to bind-in and toughen timber fibres and to give anchorage in depth to the surface coating to provide maximum adhesion. As well as being for use with all types of timber formwork and also ideal for use on many other porous and semi-porous types of materials used for concrete forming.

Advantages

- Tough penetrating flexible sealing coat increases formwork life considerably.
- Improves concrete appearance by eliminating moisture absorption of timber and preventing migration of wood sugars into concrete.
- Improves formwork release, particularly where difficult features are involved.
- Reduces formwork cleaning and maintenance time.
- Suitable for use with all types of concrete release agents.

Sizes: 1, 5, 25 Litres

Coverage: 7-9m² per litre





Adolease

Chemical release agent (BCA Category 2)

ADOLEASE is a release agent designed for general site use to achieve easy formwork release. It is a blend of reactive oils in a partially evaporative rapid drying hydrocarbon carrier. The carrier dries to form a positive barrier coating on the form face. This leaves the reactive materials that subsequently combine with alkalis in the concrete to form soaps at the interface of the formwork barrier coating and the concrete. This double action not only facilitates easy formwork release and first class concrete finish but also maintains a degree of formwork cleanliness beyond that generally obtained by other release agents.

Advantages

- Double action provides physical barrier and chemical release properties
- Facilitates maximum re-usage of all types of formwork
- Provides uniform stain-free concrete surfaces
- Minimises incidence of surface air voids
- Will not impair the bond of any subsequent treatments to concrete
- Concrete deposits on forms virtually eliminated
- Dries rapidly on forms to provide cleaner and safer working surfaces
- Will not be removed by rain showers or foot traffic
- Inhibits rust formation on steel forms
- Light spray mist coat application provides extremely economic usage
- Suitable for use on all types of formwork in all climatic conditions
- Minimises discolouration of concrete surface

Sizes: 5, 20, 25, 205 Litres

Coverage: 30-40m² per litre





Safelease

Environmentally Friendly Formwork Release Agent

SAFELEASE has been developed using the latest water soluble polymer technology to produce an environmentally friendly and highly efficient release material for concrete formwork on site. SAFELEASE is ready to use and particularly suited to outdoor use on faced sealed plywood, steel moulds and other impervious formwork materials.

Advantages

- Recommended for high quality finishes
- Low to no odour
- Safe, environmentally friendly product
- NO VOC content
- Low viscosity for easy application
- Readily biodegradable
- After water evaporation, film is resistant to water wash off
- Forms may be stripped early when other factors permit
- Suitable for use with white, coloured or standard OPC concrete finishes.
- Non staining
- Fully compatible with the subsequent application of silicone or similar surface treatments when used as recommended

Sizes: 5, 20, 25, 205 Litres

Coverage: 30-50m² per litre



Adofoam

Formwork joint sealing strip

Size	Roll size
12 x 6mm	12m
12 x 25mm	12m



Concrete Curing, Hardening and Sealing**Safecure Standard****Water Based, Medium Efficiency Concrete Curing Compound**

SAFECURE STANDARD is a spray-on temporary membrane to retain moisture in freshly placed concrete. It is formulated to prevent evaporation of the gauging water and provides an economical and efficient method for curing concrete.

SAFECURE STANDARD is a clear, low viscosity liquid which has an alkali reactive emulsion breaking system. This system ensures that the emulsion breaks down to form a penetrating continuous film immediately upon contact with a cementitious surface. This impervious film prevents excessive water evaporation which in turn permits more efficient cement hydration, reducing shrinkage and increasing durability. The membrane once formed is degraded over a period of time depending on the conditions of exposure.

Benefits

- Reduces surface shrinkage and cracking by controlling moisture loss from exposed surfaces
- Increases water resistance
- Enables cement to hydrate more efficiently
- Prevents dusting
- Non-toxic and non-flammable
- Eliminates need for damp hessian, sand or polythene
- No VOC

Sizes: 5, 20, 25, 205 Litres

Coverage: 4-6m² per litre





Safecure Super

Water Based, High Efficiency Concrete Curing Compound

SAFECURE SUPER is a spray-on temporary membrane to retain moisture in freshly placed concrete. It is formulated to prevent evaporation of the gauging water and provides an economical and efficient method for curing concrete.

Advantages

- Reduces surface shrinkage and cracking by controlling moisture loss from surfaces
- Increases water resistance
- Enables cement to hydrate more efficiently
- Prevents dusting
- Non-toxic and non-flammable
- Eliminates need for damp hessian, sand or polythene
- No VOC

Sizes: 5, 20, 25, 205 Litres

Coverage: 4-6m² per litre



Adotuf Concrete Surface Hardener and Dustproof

The application of Adotuf to an existing cement-bound floor will significantly improve the properties of the floor to render dustproof, oil and grease proof, case hardened, resistant to dilute acids, more durable, longer lasting and easier to clean.

Surface preparation:

Cement bound floors must be sound, clean, dry and free from oils, greases, fats, etc. New floors require at least 10 days to thoroughly dry out before treatment.

Sizes: 5, 20, 25, 210 litres

Covering capacity:

Depends upon floor but average guide is 8m² per litre of Adotuf per coat and generally two coats are required for best results.





Adocure Sealer

A clear acrylic polymer resin solution primarily for application to surfaces of freshly laid concrete where it has a double function. The first is to form a highly effective curing membrane that conforms to ASTM. C309, and the second is to act as an in-depth sealer for the hardened concrete, rendering its surface dustproof and extremely hard wearing. Its secondary function and benefits are also applicable when the material is applied to existing concrete surfaces.

Benefits

- Cures and seals in one operation saving time and labour
- Ideal for use in fast track construction
- Curing efficiency 75% in accordance with ASTM. C390
- Results in an abrasive resistant hard wearing easy-clean surface
- Effective anti-carbonation coating
- Permits bond of most subsequent coatings intended for concrete

Adocure Sealer PF

Available in PF grade for Power Floated floors.



Type	Size	Coverage
Adocure Sealer	5, 20, 25, 210 litres	6m ² /litre
Adocure Sealer PF	5, 20, 25, 210 litres	6m ² /litre



Adocure WW

A white, aqueous silicate solution, designed to deposit a layer of firmly bonded, high cohesive strength, minute crystals within the top surface of the concrete to form an integral membrane. This in turn, will fill all surface pores and capillaries to reduce moisture evaporation.

Coverage: 5.5m² per litre.

Sizes: 5, 20, 25, 210 Litres

Water retention tests on Adocure WW treated cubes and control cubes stored for 24 hours at 30°C showed the following results.

	Treated	Control
Water retention	80.4%	54.2%
Water retention	78.3%	54.8%
Water retention	78.9%	54.4%
Avg. water retention	79.2%	54.5%

The moisture retaining properties of the Adocure WW will reduce over the first few weeks after application so that the subsequent application of penetrating treatments will be unaffected.



Adocure WWT

Fugitive dye is added to Adocure WW to aid visual identification of areas of application.

Sizes: 5, 20, 25, 210 Litres



150 Reinforcement & Formwork



Adocure Standard

Resin based curing compound of 75% efficiency. This is a solution of inert resins in evaporative solvents for use in general construction projects.

Sizes: 5, 20, 25, 210 Litres



Adocure Super

Resin based curing compound of 90% efficiency. Complies with Clause 1027 of the Department of Transport's specification for Highway Works, similar to Adocure Standard but with a higher curing efficiency. WBS listed for drinking water projects.

Sizes: 5, 20, 25, 210 Litres



Adocure Super AL

Aluminised for use in strong sunlight conditions and where DTp stipulate aluminised for highways, bridges, runways, etc.

Sizes: 5, 20, 25, 210 Litres





RonaFloor Concrete Dustproofer

RonaFloor Concrete Dustproofer is a liquid surface hardener and dustproofer for the treatment of new and old concrete floors. It reduces dusting and wear and enhances the performance of the floor surface.

Coverage: 30m²/Litre

Sizes: 16.5, 205 Litres



Fosroc Concure WB

Concure WB is a water based concrete curing compound based on a low viscosity wax emulsion. It is supplied as a white emulsion which forms a clear film on drying.

Sizes: 20 Litres, 200 Litres

Usage: 3.5-5m²/litres



Fosroc Nitoflor Lithurin

Nitoflor Lithurin is a white, soluble, crystalline powder based on metallic fluorosilicates and wetting agents.

When Nitoflor Lithurin is mixed with water and applied to the floor, the solution penetrates the concrete reacting with lime and other soluble particles to form granite hard crystals, leaving a permanent, hard wearing and dust free surface.

Size: 15kg



Sika Dustproofer

An economical ready to use dustproofer and hardener for concrete paths and slabs.

Size: 5 Litres

Usage: 3-6m²/litre



SikaFloor CureHard 24

One-component silicate based hardener, dustproofer and curing liquid.

Sizes: 25 Litres, 200 Litres

152 Reinforcement & Formwork



Sikafloor CureHard WW

Sikafloor Curehard WW is a one part, sodium silicate based clear liquid for curing fresh concrete.

Sizes: 25 Litres, 200 Litres



Sikafloor ProSeal Pro

One-component economical curing and hardening liquid with low odour.

Sizes: 25 Litres, 200 Litres



Sikafloor ProSeal

One-component high performance curing, sealing and hardening liquid the original and best.

Sizes: 25 Litres, 200 Litres





Sikafloor ProSeal 90

One-component higher efficiency curing, sealing and hardening liquid.

Sizes: 25 Litres, 200 Litres



Sikafloor ProSeal W

One-component high efficiency curing, sealing and hardening liquid water based.

Sizes: 25 Litres, 200 Litres



Sika Hardeners

Type	Size	Coverage	Cleaner
Sikafloor CureHard 24	25, 200 litres	10m ² /litre	Water
Sikafloor Curehard WW	25, 200 litres	10m ² /litre	Water
Sikafloor ProSeal Pro	25, 200 litres	10m ² /litre	Thinner C
Sikafloor ProSeal	25, 200 litres	10m ² /litre	Thinner C
Sikafloor ProSeal 90	25, 200 litres	10m ² /litre	Thinner C
Sikafloor ProSeal W	25, 200 litres	10m ² /litre	Water



weber.tec acrylic sealer

A weber.tec acrylic sealer is a low-viscosity, colourless, penetrating sealer. The product is based on a pure acrylic resin in aromatic solvents. The concept is to achieve an in-surface seal with no material build-up. For severely exposed surfaces, one coat of weber.tec aquapel WR prior to two coats of weber.tec acrylic sealer is recommended.

Sizes: 5 litres, 25 litres, 200 litres

Coverage: 16m²/litre/coat



Temporary Protection

Polythene Rolls

On the roll polythene is the ideal general protection product. We can supply centre folded, for example a four metre wide sheet of plastic would be folded onto a one metre roll for ease of storage and transportation. This product eliminates the multi-fold creases that act as crack inducers.

Rolls can also be supplied in larger sizes where mechanical handling facilities are available on site. The use of a larger roll reduces laying time and the quantities of tape used for joints.



Type	Gauge	Colour	Size
FR Polythene	500	White	4 x 50m
Polythene	500	Clear	4 x 50m
		Black	4 x 50m
Polythene	1000	Super Clear	4 x 25m
		Blue	4 x 25m
		Black	4 x 25m
Polythene	1200	Clear	4 x 25m
		Blue	4 x 25m
		Black	4 x 25m
Polythene	2000	Blue	4 x 12.5m
		Black	4 x 12.5m
Pallet Wrap			0.4 x 300m
TPS Polythene			4 x 25m

Extra Wide Polythene

We are able to supply 1000, 1200 and 2000g polythene sheeting in widths up to 8m and lengths up to 200m, offering considerable savings in manpower and jointing tape when working on large floor areas.



OCKWELLS

Temporary Rainwater Downpipe (layflat)

Ideal solution to rainwater staining of brickwork, natural stone & render finishes etc, used prior to the installation of rainwater pipes.

- Supplied on a roll for diverting rainwater away from brickwork and masonry.
- 254mm is generally suitable for all outlets up to 150mm diameter.
- Larger diameters available to order.
- A range of large diameter hose clips and zip ties for fixing to gutter outlets are available.



Size	Roll Length
390mm	100m approx
240mm	100m approx
203mm	100m approx
156mm	100m approx

Frost Blankets

Application: Laying concrete at temperatures below 5°C generally requires special precautions (such as special concrete additives, heating devices, hot vapour equipment, etc.). An easy and inexpensive solution is the use of frost blankets. The thermal insulation effect of the frost blanket significantly reduces the loss of natural concrete hydration heat and thereby keeps the concrete warm long enough for a safe curing.

Benefits: Concrete laying in summer and winter season. The combination of their excellent thermal insulation performance, their negligible water absorption and their flexibility make frost blankets ideal for improved concrete curing.

- Negligible water absorption
- Excellent thermal insulation
- Excellent chemical resistance
- Fast laying from the roll
- Lightweight, easy to handle and cut
- Good mechanical resistance
- Flexible at very low temperatures

Size: 75m x 1.5m x 6mm

+/- 5 % tolerance on width and length

Frost blankets can be directly rolled onto the wet concrete. Wind conditions might necessitate the mats being held in place by suitable loading at the contractor's discretion. Beware not to walk on the mats during installation and before hardening of the concrete.

Available in roll size 1.5m x 75m

Colour: White/Black

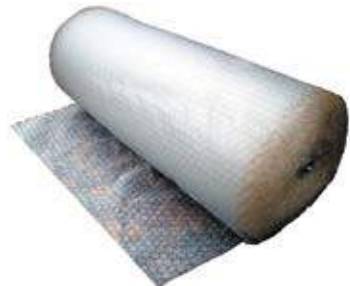


Bubble Wrap

A versatile bubble film sheeting on a roll. Used for a low cost concrete curing blanket/frost blanket and protection membrane.

Size

1, 1.5 x 100m



Accessories

PVC Groutcheck Tape

A special developed matt finish waterproof pressure-adhesive PVC tape, for use on all types of concrete formwork in climate conditions ranging from cold to tropical. It has excellent adhesion even where residual release agent is present on form face, retains flexibility at low temperatures and thinner so as to not mark concrete.



Roll Size	Pack
50mm x 33m	Roll
75mm x 33m	Roll
100mm x 33m	Roll

Groutcheck Foam Tape

A foam groutcheck tape which provides a tight seal to butt joints in formwork that are unable to be sealed with PVC Groutcheck Tape.

Other sizes available upon request.



Size	Box qty	Pack
6 x 12 x 1200mm	40 rolls	Per Box



Expanding Foam (Handyfoam)

Handyfoam Plus is a one component aerosol-packed foam which expands on release to form a semi-rigid sealer and filler with adhesive and insulation properties. Supplied in a cannister.

Available in 500ml and 750ml.





Silicone Sealant

Silicon sealant supplied in 310ml cartridges is a high modulus silicone sealer.



Formwork Magnets

Heavy duty ring magnets for removing wire and nails from shutters prior to concrete placement.

OD size

45mm

60mm

Thermometers

Maximum-Minimum Thermometer with Quick set press button.

- Digital Dial Thermometer.
- -40/+ 150 x 0.1°C,
- Integral probe
- protective sleeve with pocket clip.



Concrete Scoop

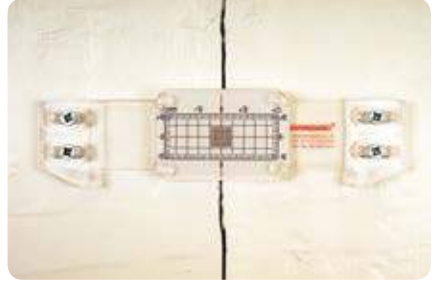
Aluminium hand scoop for use with cube moulds and testing equipment.

Wire Brush

Construction duty wire brush with scraper back edge.

Tell-Tale

Produced in durable acrylic plastic. Monitors horizontal and vertical movements across cracks.

**Turks Head Brush**

A fine haired brush for the easy application of formwork chemicals and brush applied waterproof membranes.

**Blue Glider ("Big-D") Blue Steel**

Large bladed Blue Steel finishing trowel reduces working time and eliminates power trowelling. Used with variable pitch bracket makes work easier. Snap-lock aluminium handles.

**Type**

1200 x 300

1500 x 300

Pitch Bracket

Handle

Spare Handle Clips

Blue Glider with Brush Finish Attachment

Its purpose is to use the Blue Glider as a vehicle to extend a broom effortlessly across wide slabs of uncured concrete without lifting or reaching.

The trowel supports the weight of the broom, while the variable pitch bracket allows the broom to be lifted clear of the surface during extension by turning the handle to lift the leading edge of the trowel. Simply turning the handle the opposite direction engages the broom and controls downward pressure during retrieval.

The broom itself is mounted on an adjustable pivoting arm, which allows the user to determine the working angle of the broom from 45° to perpendicular.



Type

Big-D

Pitch Bracket

Broom

Adaptor Bar

Handle

Spare Handle Clips

Construction Duty Magnesium Round Ended Bull Float

Heavy duty ribbed magnesium float with rounded ends to prevent gouging.

Type

1200 x 200

1500 x 200

Pitch Bracket Adjustable Bracket Handle

Spare Handle Clips



Straight Edge

A robust aluminium construction straight edge with grips for tamping and levelling concrete. Lengths from 2-6 metres.

Handles are also available to give comfort and firm control. Supplied in pairs.



Concrete Placer and Rakes

For rapid placing and raking of freshly poured concrete. Supplied with handle. Replacement handles available.

Description	Size
Toothed one side, plain other side	560mm
Plain blade with hook	495mm
Handles	1370mm



Edging Tools

For finishing of concrete edges, adding strength and improves weather resistance.

Material	Finish	Size
Stainless Steel	Turned up ends	150 x 75mm
Blue Steel	10mm radius	150 x 100mm
Blue Steel	10mm radius	150 x 150mm
Blue Steel	13mm radius	150 x 100mm



Concrete Finishing Brush

Steel bristle concrete finishing brushes to the latest DOT specifications.



Hand Floats

Magnesium Hand Floats for initial concrete floating, strong and light, yet hard wearing. Plastic economy floating tool.

Type	Size
Plain	400 x 85mm
Plain	600 x 85mm
Double Round Ended	400 x 85mm
Plastic	140 x 280mm

Plastering Trowel

Banana shaped handle with 280mm hardened and tempered blade. 8 rivet fixing.

Size
120 x 280mm

Steel Hand Trowel

Carbon steel. Strong and light.

Type	Size
Plain	275 x 114mm
Flat Back Round Nose	350 x 100mm
CFlat Back Round Nose	400 x 100mm
Flat Back Round Nose	450 x 100mm
Double Round Ended	450 x 100mm
Blue Steel - Plain	300 x 100mm
Blue Steel - Plain	400 x 100mm
Blue Steel - Plain	450 x 125mm
Blue Steel - Double Round Ended	500 x 125mm

Groover

Durable bronze groover, for 38mm deep groove.

Size
187 x 112mm

Carborundum Rub-Block

Carborundum rub-block complex with plastic handle for greater comfort.

Size
150 x 75mm

Brick & Concrete Cleaning Material



Adoclean

A specially selected blend of inorganic acids for the removal of cementitious contaminations and efflorescence from brickwork. Also for removal of rust staining from concrete.

The cleaner can be further diluted depending upon application. In all cases of staining the cause should be identified.

Sizes: 5 Litres, 25 Litres

Application Instructions:

To remove stains or mortar, thoroughly saturate the area with water. Apply by brush a 50/50 solution of Adoclean and water, scrub lightly with a hard brush followed by rinsing off with water. Heavy mortar deposits may require repeated applications of Adoclean whilst lightly wire brushing and rinsing with water.



Concrete Remover

Cure Chemicals Concrete Remover is designed exclusively to clean concrete construction equipment and does not contain any Muriatic, Phosphoric or Citric acids and is therefore non-corrosive. It is safe to use on painted surfaces, aluminium, glass and rubber. It is safe for both human handling and for the environment. Cure Chemicals Concrete Remover is biologically degradable and can be discarded in the normal sewage system (EAK 17 09 04).

How it works:

Cure Chemicals Concrete Remover contains active substances that break down the molecules that bind the cement together with sand and water.

Cure Chemicals Concrete Remover is mixed with water to the desired strength and applied as a foam to the item concerned, using for example, a handheld foamer. The foam should be left to act on the concrete for 20-45 minutes. Then clean off the item thoroughly with a high-pressure cleaner or with water and a stiff brush. In cases where there is heavy buildup, the treatment can be repeated. Since the product is not harmful to the environment, it can be drained directly into the public sewer system (EWC 17 09 04).

Collectively these extra benefits make for optimum utilisation of time and equipment. It is financially sound, saving you money as well as preserving your equipment and extending its life. You can use Cure Chemicals Concrete Remover on hand tools, mixers, scaffolding and aluminium sections.

Sizes: 5 Litres, 20 Litres

Bricklayer Accessories

Min/Max Thermometers

Quick set press button. Moulded in cream case with white scale. No magnet needed to reset.



Tell Tale

An enhanced Tell-Tale crack monitoring gauge that monitors horizontal and vertical movement across a crack on a flat surface to an accuracy of +/- 1.0mm and by interpolation to +/-0.5mm.



Builder Bucket

Plastic bucket with easy pouring lip and comfortable grip handle.



Drill bits

In addition to power tools, we can supply a massive range of drill bits and power tool accessories in various sizes and to different specifications.



Brick Cleaner

Removes heavy deposits of rust, scale, cement, concrete and mineral deposits from most hard surfaces. Contains Hydrochloric acid and can be used neat up to 1:20 dilution depending on application.

Sizes: 5 Litres, 25 Litres.

Janitol Plus

A non-caustic, high performance degreaser for the effective removal of heavy deposits of oils, greases and other stubborn stains. An effective alternative to hazardous solvent and caustic cleaners. Dilution rate 1:10 to 1:40 depending on application.

Sizes: 5 Litres, 25 Litres.

Jizer

Water rinsable degreaser. Solvent action removes oil, grease, tar, bitumen and waxes when used neat.

Sizes: 5 Litres, 25 Litres.

There are many forms of sheet membranes used to protect structures from water ingress. We pride ourselves on stocking a full range from the important manufacturers in this sector. We have been stocking these products for many years and are well placed to give advice on all the systems.

Our range includes:

- Pre-applied membranes
- Post-applied membranes
- Bentonite carpets
- Bentonite / HDPE combinations
- Geotextile / HDPE combinations
- Cavity forming membranes

Plus all the ancillaries to go with the systems including protection boards, sealing tapes, detailing accessories and where required primers.



PRODUCTS	PAGE
Waterproofing Membranes	169
Bentonite Geotextiles	196
Liquid Waterproofing Membranes	200
Waterstops & Waterplugs	206
Cementitious Waterproofing	225
Liquid Additive Waterproofing	234



Waterproofing Membranes

Proofex Waterproof Membranes



Proofex 3000

Proofex 3000 is a high performance self-adhesive membrane for a range of waterproofing applications including basements and substructures. Proofex 3000 provides a vapour and waterproof membrane to water excluding structures and protects concrete from attack by aggressive ground salts.



Proofex 3000MR

A high performance self adhesive membrane for resisting methane, radon and CO₂, and preventing water entering buildings. Proofex 3000MR also provides a vapour and waterproof membrane to water excluding structures and protects concrete from attack by aggressive ground salts.



Type	Size	Roll Area	Edge Laps (mm)	End Laps (mm)
Proofex 3000	1m x 20m	20m ²	50 min	150 min
Proofex 3000MR	1m x 20m	20m ²	50 min	150 min
Proofex Primer	5 Litres, 25 Litres			
Proofex Angle Fillet				
Proofex Top Hat	110mm, 160mm			
Proofex Total Tape	50mm x 30m			
Proofex Engage Detail Strip	1.5mm x 200mm x 10m			

170 Waterproofing



Proofex Engage

Proofex Engage is a pre-applied waterproofing membrane which mechanically bonds to poured concrete, remaining in place if settlement of substrate occurs.



Type	Thickness	Width	Length	Edge Laps	End Lengths	Weight
Proofex Engage	4-5mm	1.27m	30m	68mm	Butt jointed	58kg
Proofex Engage Detail Strip	1.5mm	0.2m	10m			
Proofex LM	3.3-6.7mm					28kg
Proofex LM Mesh		Nominal 100	50m			



Proofex Cavity Drain

This provides a continuous water and damp proof drainage former to connect with drainage channels or outlets cast into floor slabs. These drainage channels or outlets connect with the site drainage system to provide a high level of waterproofing security.

Type	Size
Proofex Cavity Drain 80	2m x 3m
Proofex Cavity Drain 200	2m x 20m
Proofex Cavity fixings	100 Pack
Proofex Detail strip	200mm x 10m





Proofex Sheetdrain

A geocomposite HDPE drainage sheet with thermobonded polypropylene filter.

Thickness	Roll Width	Roll Length
8mm	2m	20m
10mm	2m	12.5m



Proofex Hydromat

Proofex Hydromat is a bentonite waterproofing membrane with unique surface bentonite impregnation for impermeable lap joints.

Roll Size	Roll Weight	Thickness
1.2 x 2.42m	18kg	7mm dry
2.42 x 15m	210kg	7mm dry



Hydromat Powder

To ensure watertight continuity during detailing work and for sealing around awkward geometrical shapes, it may be necessary to cover an area with loose natural sodium bentonite powder.

Size: 25kg

172 Waterproofing



Famguard GS100

Famguard GS100 is a bridge deck waterproofing membrane. It is a hot-applied pour and roll sheet system for use on podia, hard standings and local authority bridges.



Type	Size	Thickness	Weight	Laps
Famguard GS100*	1 x 8m	3mm	38kg	Side lap: 100mm End lap: 150mm

Proofex Waterproofing Ancillaries



Proofex Primer

A bitumen solution for priming concrete and masonry surfaces prior to the application of Proofex 3000MR membrane.

Sizes: 5 Litres, 25 Litres



Proofex Angle Fillet

An angled foam polyethylene fillet for use at floor and wall joints.

Size: 50mm x 50mm x 1m. Packs of 20.

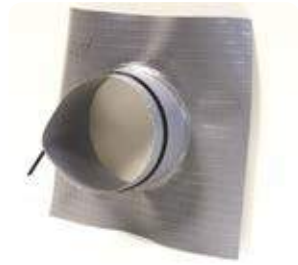




Proofex Top Hat

Waterproof pipe entry consisting of polyethylene/polypropylene membrane, which includes an aluminum foil paper.

Sizes: 110mm, 160mm



Proofex Total Tape

Used to adhere Proofex Top Hats to Proofex Engage and as a closure strip to Proofex "L" section.

Size: 50mm x 30m



Proofex Engage Detail Strip

A reinforced, double sided waterproof adhesive tape for sealing and jointing roll ends, cut edges and corner pieces. It consists of a strong synthetic fibre fabric impregnated and coated both sides with a butyl adhesive which is protected by a removable siliconised paper.

Size: 200mm x 10m.



Proofex Waterproofing Ancillaries

Type	Size
Proofex Primer	5 Litres, 25 Litres
Proofex Angle Fillet	
Proofex Top Hat	110mm, 160mm
Proofex Total Tape	50mm x 30m
Proofex Engage Detail Strip	1.5mm x 200mm x 10m



Proofex Protection Board

Type	Size	Thickness
Proofex Protection Board	2 x 1 m	3mm



Proofex LM

Two-component bituminous liquid membrane for waterproofing of underground structures and intricate details in conjunction with Proofex waterproofing systems.

Size (kg)	Thickness	Coverage
28kg	3.3mm	4kg/m ²
	4.0mm	5kg/m ²
	6.7mm	8kg/m ²



Proofex LM Mesh

A reinforcing mesh used in conjunction with Proofex LM for areas of extreme loading (cavings, edges and pipe penetrations).



Bituthene® Waterproofing Membranes

Bituthene®

Basement/substructure waterproofing and vapour proofing. Bituthene® is a range of flexible preformed post-applied basement waterproofing and vapour proofing membranes. Bituthene membranes are available in all grades to suit all climates, damp surface or green concrete application. Chemically resistant to provide effective external protection against aggressive soils, contaminated water, dilute acids and alkalis.



Bituthene® MRX

Methane, CO₂, and Radon resistant grade of Bituthene. Suitable for dry surface applications only.
Size: 1 x 20m



Bituthene® 2000

For use below screeds as a vapour barrier. Suitable for dry surface applications only.
Size: 1 x 25m



Bituthene® GP

For basements and substructures. Externally applied waterproofing membrane for CO₂, and radon gas protection. Suitable for dry surface applications only.
Size: 1 x 25m



176 Waterproofing



Bituthene® 4000

For basements and substructures. Externally applied waterproofing membrane for CO₂ and radon gas protection. Suitable for application to damp surfaces and green concrete.

Size: 1 x 20m



Bituthene® 8000

A superior performance externally applied waterproofing membrane for basements and substructures. 70m hydrostatic pressure resistance with ultra low moisture transmission rate. Methane, CO₂ and radon gas protection. Suitable for application to damp surfaces and green concrete.

Size: 1 x 20m



Type	Roll Size	Primer	Temp Range
Bithulthene MRX	1 x 20m (20m ²)	B1	+5 to +35°C
Bithulthene 2000	1 x 25m (25m ²)	B1	+4 to +35°C
Bithulthene GP	1 x 25m (25m ²)	B1	+4 to +35°C
Bithulthene 4000	1 x 20m (20m ²)	S2	-10 to +35°C
Bithulthene 8000	1 x 20m (20m ²)	S2	-10 to +35°C

Bituthene Waterproofing Ancillaries



Bituthene® Primers

Specially formulated one-part primers for sealing concrete and masonry surfaces to promote adhesion of Bituthene membranes.



Type	Size
Primer B1 - dry surface application only	5, 25 litres (Approx 10m ² /litre)
Primer S2 - dry/damp surface and green concrete	5, 20 litres (Approx 10m ² /litre)



Bituthene® Protection Boards and Tapes

Robust, non-degradable bitumen boards to provide protection to Bituthene membranes against backfill.



Type	Size
Bituthene Protection Board	3mm x 0.9 x 2.03m
Servipak Protection Board	3, 6, 12mm x 1m x 1.5m
Bitustik™ 4000 (adhere board to Bituthene)	150mm x 12m rolls
Bitutape™ 4000 (tape for over laps)	70mm x 20m rolls

178 Waterproofing



Bituthene® LM

Two-component elastomeric, cold applied liquid detailing compound. For use with Grace waterproofing membranes where liquid applied waterproofing is necessary to ensure watertight continuity, such as pile terminations, pipe penetrations, internal corners and membrane continuity through masonry walls. Bituthene LM cures to form a tough seamless rubber-like waterproof layer.

Size: 5.7 Litres



Preprufe® Waterproofing Membranes



Preprufe®

Pre-applied external waterproof membranes for basements and substructures. Preprufe develops a continuous mechanical bond to poured concrete preventing water migration between the structure and the membrane, substantially reducing the risk of leaks. Preprufe 300R & 160R also provide protection against methane, CO₂ and radon gas. For use below slabs and on reinforced concrete basement walls. Preprufe membranes are composite sheets comprising a robust HPDE backing, a pressure sensitive adhesive and a trafficable weather resistant coating.

Preprufe 300R - under slabs greater than 350mm thick.

Preprufe 160R - under slabs less than 350mm thick and vertical applications.



Type	Thickness	Roll Size	Roll Area	Roll Weights
160R	0.8mm	1.2 x 35m	42m ²	42kg
300R	1.2mm	1.2 x 30m	36m ²	50kg



Preprufe® 160 Flex

Pre-applied flexible waterproof membrane that develops an adhesive bond to poured concrete. It composes of a robust flexible backing, a pressure sensitive adhesive and a trafficable weather resistant coating.

Type	Size	Roll Area	Weight
Preprufe 160 flex	1.2 x 35m Roll	42m ²	42kg

Preprufe® 160 Flex Ancillary Products

Type	Size
Preprufe Tape LT	100mm x 15m
Adcor 550MI	8 x 5m rolls
Adcor 500S	6 x 5m rolls
Bituthene LM	5.7 litre packs



Preprufe® 800PA

Self-adhesive Preprufe membrane for basement walls in open excavations.

Preprufe 800PA is a cold-applied, self-adhesive waterproofing membrane, composed of a reinforced cross-laminated HDPE film, and a synthetic non-bituminous adhesive. Preprufe 800PA incorporates the Preprufe Advanced Bond Technology™.



Type	Size	Weight	Minimum overlap
Preprufe® 800PA	1.2m x 35mm roll	35kg/roll	50mm

Store upright in dry conditions below +30°C



Preprufe® Plus

Preprufe® Plus waterproof membranes are composite sheets comprising a robust HPDE backing, a pressure sensitive adhesive and a trafficable weather resistant coating with dual adhesive dual laps for added security.

Grace has combined its proven Advanced Bond Technology™ together with more than 20 years of major project experience to produce its highest performing waterproofing membrane with even more practical and economic benefits.

- Excellent waste management - No release Liner - expedites installation and reduces construction site waste (99% recyclable)
- Dual laps - Dual adhesive watertight laps - easy to execute year round even in harsh conditions
- Faster installation – liner free, kick out roll reduces installation time, labour and cost



Type	Thickness	Roll Size	Roll Area	Roll Weights
160R	0.8mm	1.2 x 35m	42m ²	42kg
300R	1.2mm	1.2 x 30m	36m ²	50kg

Preprufe® Waterproofing Ancillaries



Preprufe® SC1

All surfaces should be primed with one coat of Preprufe SC1 primer.

Type	Size	Coverage (m ² /Litre)
Preprufe SC1	20 litre can	10 - 12*

* Depending upon method of application, surface porosity and ambient temperature.

Preprufe® SC1 Ancillary Products

Type	Size
Bituthene LM	5.7 litre packs
Grace Protection Board	3mm x 0.9mm x 2.03(±6%)
Adcor 500S	6 x 5m rolls
Hydroduct	1.25m x 32m



Preprufe® Tape LT

For sealing overlaps at Preprufe roll ends and cut ends.



Type	Thickness	Roll Size	Roll Weight
LT	0.7mm	100mm x 15m	2kg

Hydroduct® Waterproofing Membranes



Hydroduct® Vertical Drainage Sheets

Creep resistant drainage sheets are prefabricated geocomposites comprising studded polystyrene drainage cores covered with polypropylene filter fabric. They provide cost effective alternatives to traditional aggregate drainage. To be used in conjunction with Grace waterproofing membranes.



Hydroduct® 200

Polypropylene spun bonded filter fabric on one face of a 11mm studded drainage core. Applied to walls of basements that have been waterproofed with Bituthene membranes and protected with Bituthene Protection Boards.

Size: 1.25 x 32m



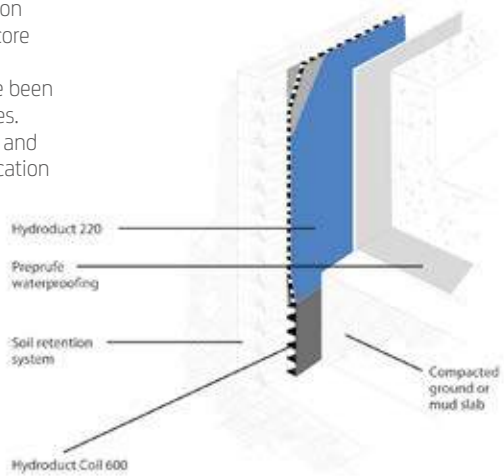
182 Waterproofing



Hydroduct® 220

Polypropylene spun bonded filter fabric on one face of a 11mm studded drainage core with a bonded plastic film on the other. Applied to walls of basements that have been waterproofed with Bituthene membranes. Also applied to existing basement walls and permanent shuttering prior to the application of Preprufe membranes.

Size: 1.25 x 32m



Drawings are for illustration purposes only. Please refer to www.graceconstruction.com for specific application details.



Hydroduct® Coil 150

Polypropylene non-woven filter fabric encapsulating a 25mm studded drainage core. Installed at the bottom of basement walls and linked to the Hydroduct drainage sheet.

Size: 1.5 x 30.5m

Type	Thickness	Roll Size	Roll Area	Roll Weight
Hydroduct 200	11mm	1.25 x 32m	40m ²	40kg
Hydroduct 220	11mm	1.25 x 32m	40m ²	40kg
Hydroduct Coil 150	25mm	1.5 x 30.5m		



Hydroduct CF

A highly efficient, cost effective drained cavity former. When installed against the internal face of concrete floors and walls Hydroduct CF will provide a continuous drainage path that must link with the site internal drainage system.



Hydroduct CF20

Forming drained cavities horizontally and vertically.

Size: 2 x 20m



Hydroduct CF08

Used for drained cavities vertically in lower risk applications.

Size: 2 x 20m

Type	Description	Size
HYD-CF20	Hydroduct CF 20	2 x 20m
HYD-CF08	Hydroduct CF 08	2 x 20m
SERV-TAPE	Servitape 4000	50mm x 12m
HYD-STRIP	Hydroduct Strip 4000	150mm x 20m



Hydroduct® Waterproofing Ancillaries

Type	Roll Size
Cut fasteners (jointing)	Strip 8 x 4 dimples, 5 supplied per roll
Bitustick™ 4000 (jointing)	150mm x 12m long
Bitustick™ 4000 (jointing)	70mm x 20m long
Hydroduct Tape	150mm x 20m
Coil End Outlet	150mm
Coil Straight Connector	150mm
Coil Tee Connector	150mm

Sheetseal Waterproofing Membranes

RIW

Sheetseal

Sheetseal is a cold applied, self adhesive bitumen sheet waterproofing membrane. It is typically used as an external basement tanking system or ground floor DPM, particularly where large unobstructed areas are to be waterproofed.



Type	Thickness	Size	Weight
226	1.6mm	1050mm x 19.05	1.7kg/m ²
226	1.6mm	300mm x 20m	1.7kg/m ²
226	1.6mm	150mm x 20m	1.7kg/m ²

Sheetseal Waterproofing Ancillaries

RIW

Sheetseal Primers

Sheetseal Primer is used on all vertical or inclined surfaces to aid adhesion of the RIW Sheetseal 226.

Type	Size	Coverage
Sheetseal Primer	5, 25 Litres	6m ² /litre

RIW

Membrane Protection Boards

Bitumen Protection Board is a tough, flexible bitumen impregnated board used for the protection of waterproof membranes against mechanical damage, pedestrian or vehicular traffic and abrasion caused by backfilling.

Size: 2020 x 900mm



RIW

Adhesive Tape

Adhesive Tape is a double-sided tape, designed to be used in conjunction with the Bitumen Protection Board to adhere it to dry surfaces of bituminous type membranes. It may be used in 'pads' 150mm square, or in strips of suitable length. It can also be used to adhere to other materials, such as polyethylene sheets or similar, to most 'dried' RIW membranes.

Type	Size	Thickness	Weight
Bitumen Protection Board	0.9 x 2.02m	3mm	3kg/m ²
Adhesive Tape	0.15 x 15m	2mm	4kg/roll

Double Drain Waterproofing Membranes

RIW

Double Drain

Double Drain is an impermeable high density polyethylene profiled sheet incorporating a permeable geotextile filter fabric designed to prevent ground water reaching a structure and to protect and enhance the performance of the waterproof membranes.



Type	Size	Weight
Double Drain	8mm x 2m x 15m	0.58kg/m ²
Top Edging Strip	2m Strips	
X Cramps	60/Bag	

Double Drain Waterproofing Ancillaries

RIW

RIW Top Edging Strip

A high-density profiled polyethylene sheet which protects the top edge of the RIW Double Drain and prevents clogging.

Size: 2 metre strips

RIW

RIW X Cramps

A fixing aid for locating and mechanically securing the system to the substrate.

Size: Bags of 60

Plaster Drain Waterproofing Membranes

RIW

Plaster Drain

Plaster Drain is an internal drainage system manufactured from clear high density polyethylene with 5mm undercut studs in a dovetail shape which forms the key for plaster and render finishes in above and below ground situations.



Type	Size	Weight	Overall Thickness
Plaster Drain	0.5m x 2m x 20m	0.48kg/m ²	5mm
Plaster Drain Overtape	2.5m Roll		
Plaster Drain Plugs	500/Box		

Plaster Drain Waterproofing Ancillaries

RIW

RIW Plaster Drain Overtape

Butyl rubber tape, with a non-woven polypropylene surface, for sealing over joints in the membrane.

Size: 25 metre rolls



RIW**RIW Plaster Drain Plugs**

A plastic plug for fixing membrane to structure.
Size: Boxes of 500

**Cavity Drain Waterproofing Membranes****RIW****RIW Cavity Drain**

Cavity Drain is an internal tanking drainage system used to collect water entering the basements and sub-structures and channel it to a sump or collection point for disposal. P20 is used mainly on floors but can also be used for walls. P5 is used only for walls.



Type	Roll Size	Weight	Overall Thickness
Cavity Drain P5	2.07 x 20m	0.48kg/m ²	5mm
Cavity Drain P20	2 x 20m	0.95kg/m ²	20mm

RIW Waterproofing Ancillaries

RIW

RIW Sealing Tape

A self-adhesive tape to seal joints between the RIW Wall / Floor Junction and membrane.

Size: 20 metre rolls



RIW

RIW Sealing Rope

A self-adhesive rope for sealing between individual sheets and around services, fixings, etc.

Size: 5 metres



RIW

RIW Brick Plugs

A fixing plug for vertical fixing of the Cavity Drain.

Size: Boxes of 100



RIW**RIW Wall/Floor Junction**

A pre-formed corner piece for assisting in sealing around corners and services.

Size: 20 metre rolls.

**RIW****RIW Adhesive Tape**

A double-sided tape for adhering the RIW Wall/Floor Junction.

Size: 15 metre rolls

Aqua Channel Drainage

RIW**RIW Aqua Channel Range**

The internal peripheral drainage channel known as 'The Aqua Channel' is a PVC drainage conduct that has been specifically designed for the control of water ingress in below ground situations. The channel which is pre-formed in a pentagonal shape with pre-drilled 19mm drainage holes set 70mm apart along its length, is fitted around the periphery of an internal floor at the vulnerable wall/floor junction and can be used in most waterproofing situations.

RIW**Channel Outlet**

The channel outlet consists of a 90° PVC bend and a PVC male coupling which is fitted to the base of the 'Aqua channel' to allow water to be taken from the channel to the water collection point, i.e. sump and pump.

RIW

Channel End Outlet

Where gravity fed drainage is to be used, the channel end outlet has been designed to convert the pentagonal shape of the Aqua channel into a round aperture.



RIW

Cleaning Ports

Cleaning ports (jetting eyes) should be incorporated into the Aqua Channel and can be inserted at any point along its length, to allow for periodic cleaning of the drainage system.



IKO Waterproofing Membranes



Hyload Tanking Membranes

A range of SBS polymer modified bitumen waterproofing systems for use in cast concrete, brick and blockwork constructions, both internally and externally, to protect buildings against water from the ground. All Hyload Tanking Membranes have BBA certification.



Hyload Tanking Membrane - 1000SA

A multi-purpose, self-adhesive damp proof and tanking membrane.

Size: 1 x 20m





Hyload Tanking Membrane - 2000SA

A tougher, more durable self-adhesive damp proof and tanking membrane.

Size: 1 x 15m



Hyload Tanking Membrane - 3100

A high performance, torch applied tanking membrane, ideally suited for tanking in cold and damp conditions. Excellent lap adhesion and security is achieved by torch application.

Size: 1 x 10m



Hyload Tanking Membrane - 3100HD

A high performance, torch applied tanking membrane, ideally suited for tanking in cold and damp conditions. It has a tough, non-woven polyester fibre facing, which eliminates the need for a separate protection board when externally tanking. Excellent lap adhesion and security is achieved by torch application.

Size: 1 x 10m



Type	Size	Thickness
1000SA	1 x 20m	1.5mm
2000SA	1 x 15m	2mm
3100	1 x 10m	3mm
3100HD	1 x 10m	3.7mm

IKO Waterproofing Ancillaries



IKOpro SA Bitumen Primer

A rubber-modified bituminous priming solution designed to seal and prepare surfaces for the application of self adhesive damp proofing or tanking membranes. It is fast drying and is ideal for ensuring a long-term bond between the surface and subsequent membranes being applied. It may be applied to many substrates including concrete, wood, brickwork, blockwork and metal.

Size: 5, 25 Litres



IKOpro Quick Dry Primer

A quick-drying and deep-penetrating priming solution designed to seal and prepare surfaces for the application of torch applied tanking membranes. IKOpro Quick Dry Primer dries in approximately 30 minutes at 20°C, depending on the substrate, and leaves no residual tack. Suitable for use on dry or slightly damp surfaces. It may be applied to many substrates including concrete, wood, brickwork, blockwork and metal.

Size: 5, 25 Litres



Hyload Protection Board

A tough, flexible polymeric board for protecting tanking membranes against mechanical damage, pedestrian or vehicular traffic and abrasion caused by backfilling. Hyload Protection Board also protects against ground salts and most corrosive chemicals.

Size: 1 x 2m



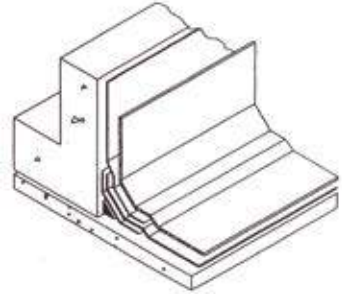
Product	Size	Thickness	Coverage
IKOpro SA Bitumen Primer	5, 25 Litres		Concrete 3-4, metal 10-15m ² /litre
IKOpro Quick Dry Primer	5, 25 Litres		Concrete 3-4, metal 10-15m ² /litre
Hyload Protection Board	1 x 2m	1.53mm	

Bitusheet Waterproofing Membranes



Bitusheet XL

Bitusheet waterproofing membranes consists of a self bonding, polymer modified bitumen which is covered on one side by a tough two-ply cross-laminated polythene film and protected on the other side by a release sheet which is removed prior to the bonding of the material on to a suitably prepared substrate. Once the release sheet has been removed the membrane can be easily applied by roller pressure.



Type	Size	Roll Width	Coverage
Bitusheet XL	1.05m x 19.05m		
Bitusheet Primer	5 litre, 25 litre		12m ² /litre

Bitusheet Waterproofing Ancillaries



SBS Protection Board

Used in conjunction with sheet membrane and liquid membrane tanking systems.
Size: 2 x 1 metre bituminous board



Reinforcing (XL) Tape

Bitusheet Self Adhesive Reinforcing Tape comprises of a cross-laminated high-density polyethylene sheet coated with a Bitumen Polymer Adhesive faced with a release sheet.
Size: 20 metre roll



Double Sided Tape

Self Adhesive Double Sided Tape comprises of a Polymer Modified Bitumen 1.5mm thick face on both sides with a release sheet.
Size: 15 metre roll



Bitusheet XL Tape

Used as an overband tape for the sealing of membranes to membranes.
Size: 100mm x 20m

**Fixing Strip**

3 metre long (galvanised), holes punched every 300mm.

Bitusheet Waterproofing Ancillaries

Type	Size	Roll Width	Coverage
SBS Protection Board	2m x 1m		
Reinforcing (XL) Tape	20m Roll	100, 150, 200, 300mm	
Double Sided Tape	15m Roll	50, 75, 100, 150mm	
Bitusheet XL Tape	20m Roll	100mm	
Fixing Strip	3m		

Walldrain & Slabdrain Waterproofing Membranes**Walldrain**

Walldrain consists of a cusped lightweight plastic core bonded to a geotextile fibre filter. The fibre will permit free entry of water, but not soil, and so prevent soil particles from clogging drainage systems. Walldrain is designed to be placed with the geotextile filter layer facing the direction of the water seepage or backfill.

Size: 0.9m x 50m, 1 x 50m

**Slabdrain**

Slabdrain is a cavity drain former manufactured from a dimpled HDPE, designed to provide a drainage channel beneath the concrete in floor and wall construction. The former is provided with self adhesive edges to enable joints to be sealed to give a water and gas tight membrane.

Size: 1 x 50m

Type	Size	Thickness	Quantity
Walldrain	1m x 50m	12mm	
	0.9m x 50m	25mm	
Slabdrain HDPE (1.00mm)	1m x 50m	20mm	
Nail 37 Washer 36			150 Box
Anchor Plug	8mm x 75mm		100 Box
Washed Nails	25, 30, 40mm		500 Box
Membrane Washers	19, 32mm		100 Box

Walldrain and Slabdrain Waterproofing Ancillaries

Soft Washer Fixing

Fast, reliable fixing for membranes, mesh or insulation.

Anchor Plug

Drill 8mm hole and set with hammer. Use mastic tape to form a washer seal under head.

Membrane Washers

For use with washered nails.

Walldrain and Slabdrain Waterproofing Ancillaries

Type	Size	Quantity
Soft Washer Fixing	Nail 37mm, Washer 36mm	150
Anchor Plug	8 x 75mm	100
Washed Nails	25, 30, 40mm	500
Membrane Washers	19, 32mm	100

Bentonite Geotextile Waterproofing

Bentonite has been used by the construction industry in waterproofing systems for more than 30 years. Naturally occurring sodium bentonite has exceptional waterproofing qualities, with its ability to swell when in contact with water and convert from dry clay to impervious gel. Manufacturers have harnessed this waterproofing power by containing sodium bentonite between two layers of geotextile, creating the ideal system for sealing reinforced concrete structures. Can be installed in virtually any weather condition.

Bentonite membrane forms a continuous mechanical bond to concrete. This bond is created when the strong geotextile fibres are encapsulated by poured concrete as shown in the illustration.



Voltex

Applications:

- Under structural slabs
- Sheet piling
- Tunnels
- Concrete walls

Soft-washer Fastener

Allows direct shot-fired application to steel piling, sheets, concrete etc.



Type	Size	Pack
Voltex	1.1m x 5m	Per roll
Voltex DS	1.1m x 5m	Per roll
Soft Fixing Washer		Box of 150
Fixing Stapler		Each
Staples		Box of 2500



Bentoseal®

Patented trowel grade sodium bentonite compound used to detail around penetrations, corner transitions and terminations.

Volclay® granules

Pure granular Volclay® bentonite used dry, or as paste by adding water at detail areas requiring additional protection.

Type	Pack
Bentoseal Pail	14.25 litres
Bentoseal Cartridge	0.95 litre
Volclay Granules	20kg



Proofex Hydromat

Proofex Hydromat is a bentonite waterproofing membrane with unique surface bentonite impregnation for impermeable lap joints.



Roll Size	Roll Weight	Thickness
1.2 x 2.42m	18kg	7mm dry
2.42 x 15m	210kg	7mm dry



Hydromat Powder

To ensure watertight continuity during detailing work and for sealing around awkward geometrical shapes, it may be necessary to cover an area with loose natural sodium bentonite powder.

Size: 25kg



Nitoseal MS60

Suitable for sealing joints in concrete, brickwork, blockwork, perimeter sealing around doors and windows and non trafficked floor joints. A one part low modulus sealant based on hybrid modified polyether ("MS") technology.



Structureseal Waterproofing Membranes

RIW

Structureseal Waterproofing Membranes

Structureseal is waterproofing composite of high swelling Sodium Bentonite encapsulated between a non-woven and woven geotextile. When confined under pressure within a structure the swelling is controlled, forming a dense, monolithic, impervious waterproofing membrane.



Structureseal Waterproofing Ancillaries

RIW

Waterstop

Waterstop is an active bentonite based waterstop that is designed to replace passive PVC/Rubber type waterbars thereby eliminating the requirement of special pieces and seam welding. Waterstop is not designed for, or intended to function as an expansion joint sealant.

Size: 25mm x 19mm x 5m


RIW

Sealing Compound

Sealing Compound is a trowel-grade, sodium bentonite/butyl-rubber based sealant, designed for a variety of surface preparation and waterproofing detail work, for use with the RIW Structureseal system. Being a bentonite based material, Sealing Compound swells upon contact with water to seal against water intrusion. With the consistency of thick grease, Sealing Compound is easy to apply and bonds to most materials.

Size: 14.25 Litres



RIW

Granules

Granules are chemically treated sodium bentonite granules, which are used as a detailing accessory product, with the RIW Structureseal system. When hydrated and in containment, the Granules form into a dense, impermeable material, that combines with the sodium bentonite in Structureseal to form a seamless waterproof membrane.

Size: 20kg tub

RIW

Washers

40mm hardened nail with 30mm premounted washer for securing the RIW Structureseal to concrete by hand nailing or shot firing.

Size: Box of 500

RIW

Staple Gun

A manual stapler and staples (box of 2500) for fixing sheets of Structureseal together at laps, etc.

Structureseal Waterproofing Ancillaries

Type	Size	Weight	Supplied as
Waterstop	25mm x 19mm	35-40kg per roll	6 x 5m long coils per box
Sealing Compound	14.25 litres		18kg
Granules	20kg tub		20kg
Washers	500 box		
Staple Gun	Each		
Staples	2500 box		

Dual Seal Waterproofing Membranes



Dual Seal

Dual Seal is a high-performance self-swelling, self healing waterproofing membrane comprising of a thick, tough, high density polyethylene sheet laminated to 4kg/m² of quality Bentonite granules. The Bentonite used in the manufacture of Dual Seal is capable of repeated cycles of wetting and drying without deterioration of its sealing properties and has a life expectancy measured in thousands of years. It has WRAS approval for use with potable water and is BBA Certified.



Type	Size	HDPE Thickness	Membrane Thickness	Coverage Per Roll
Dual Seal HDPE	1.22m x 7.32m	0.5mm	4.0mm	8.93m ²
Dual Seal Mastic	19 Litres			
Dual Seal Granules	23kg Bags			

Dual Seal Waterproofing Ancillaries



Dual Seal Mastic

A trowelable mastic comprising of a special formulation of expandable minerals and elastomeric compound which expands and stiffens in the presence of water to form an impervious barrier to water penetration.

Size: 19 Litres



Dual Seal Granules

A high swelling sodium bentonite in granular form which reacts when in contact with water and forms an impervious gel.

Size: 23kg bags

Type	Size	HDPE Thickness	Membrane Thickness	Coverage Per Roll
Dual Seal HDPE	1.22m x 7.32m	0.5mm	4.0mm	8.93m ²
Dual Seal Mastic	19 Litres			
Dual Seal Granules	23kg Bags			

Liquid Waterproofing Membranes



Mulseal DP

Mulseal DP is a bitumen rubber/latex compound designed for use in waterproofing applications. Mulseal is suitable for uses such as waterproof membrane to retaining walls, as a vapour barrier to panels and repairing fine cracks in asphalt surfaces.



Type	Size	Coverage
Mulseal DP	5, 25, 200 litre	1.1-1.4m ² /litre*

*Depending on surface texture.



Fosroc Primer 3

Metal and timber surfaces must be primed with a coat of Primer 3 before applying Mulseal DP.

Type	Size
Fosroc Primer 3	5, 25 litres



Proofex LM

Two-component bituminous liquid membrane for waterproofing of underground structures and intricate details in conjunction with Proofex waterproofing systems. Yield: 7m² at 4mm thick.

Size	Yield
28kg	7m ² at 4mm thick



Bituthene[®] LM

Two-component elastomeric cold-applied liquid detailing compound. For use with Grace waterproofing membranes where liquid applied waterproofing is necessary to ensure watertight continuity, such as pile terminations, pipe penetrations, internal corners and membrane continuity through masonry walls. Bituthene LM cures to form a tough seamless rubber-like waterproof layer.

Size: 5.7 Litres

Type	Size
Bituthene LM	5.7 litres



202 Waterproofing



Visqueen Liquid Gas Membrane

A grey, one-part elastomeric polymer-modified emulsion that dries to form a black, flexible membrane.

Visqueen Liquid Gas Membrane is used for providing damp proofing, gas proofing or waterproofing for a range of applications, including:

- Gas and damp proofing of solid concrete floors
- Vertical gas and damp proofing of flush pointed brickwork or rendered blockwork masonry walls
- Gas and damp proofing of junctions with steel stanchions
- Complex gas and damp proofing of detailing applications
- Gas and waterproofing of basement structures and lift pits

Size: 5, 25 Litres



Size	Coverage
5, 25 Litres	approx 6.5m ² /litre

RIW

Flexiseal

Flexiseal is a two colour, seamless and fully bonded liquid applied waterproof coating based on polyurethane technology. RIW Flexiseal cures by drawing moisture from the air to form a highly flexible but durable barrier to water and water vapour and is typically used where a high performance tanking system is required. Available in black or grey.



Type	Size	Coverage
RIW Flexiseal	6, 25kg	2m ² /kg/coat
RIW Flexiseal Primer	5, 20 litres	8m ² /litre

RIW

Flexiseal Ancillaries

Type	Size
RIW Protection Board	3mm x 0.9 x 2.02m
RIW Sheetseal 9000 DPC	Available in standard sizes

RIW

Heviseal

Heviseal is typically used to provide a protective coating to concrete or steel superstructures or other structures such as retaining walls, plinths, etc. RIW Heviseal is suitable as a waterproof membrane, for periodic maintenance onto an existing flat roof area. The membrane can also be used on parapet walls, gutters, planters, ponds and water storage tanks. Heviseal has excellent UV. resistance.



Type	Size	Coverage
Heviseal	5, 20 litre	1.5m ² per litre/coat

RIW

Hydrocoat

Hydrocoat is an easily applied, high-build black bitumen paint, which dries to a water and water vapour proof finish. It may be easily applied to most building substrates.

Type	Size	Coverage
RIW Hydrocoat	5, 25, 205 litre	3m ² /litre In 2 coats

RIW

LAC

Liquid Asphaltic Composition is typically used as a damp proof membrane to ground floors, as a vapour barrier behind cladding and for tanking of basements. It is also suitable for waterproofing foundation walls, ducts, lintels, columns, beams and similar structures at, above and below ground level and as a radon barrier.



Type	Sizes	Coverage For Two Coats
RIW Liquid Asphaltic Composition	5, 25, 205 litre	1m ² /litre (typical 2 coats), 1.25m ² /litre (steelwork 2 coats)

RIW

Toughseal

Toughseal is typically used to provide a water and water vapour proof barrier, or to give protection against abrasion, fresh and salt water, carbon dioxide, alkalis and dilute mineral acids. It is resistant to UV light and atmospheric attack. Suitable uses for Toughseal include raised access floors, ground floor slabs, swimming pool wet areas and shower areas, plant rooms, sewage plants and marine applications. When dressed with a suitable aggregate it will provide a slip retardant wearing surface or a waterproof key for tile bedding or renders. Toughseal is a two-part mix and always requires two coats. It is normal to do first coat in a different colour to the second and for this purpose it is available in grey and black.



Type	Size	Coverage
Toughseal	5, 20 litres (two part)	4m ² /litre/coat

Toughseal Ancillaries

Type	Size
Aggregate, Grade 1	25kg
Aggregate, Grade 2	25kg
Cleaning Solvent	5 litres
Flexiseal	6, 25kg
Reinforcement tape	7.5m

Synthaprufe



Synthaprufe Original

IKOpro Synthaprufe Original is a high performance, brush applied damp proofing emulsion containing synthetic rubber latex which provides a waterproof and vapour resistant, black elastomeric membrane.

IKOpro Synthaprufe Original exhibits low odour, with exceptional flexibility and crack resistance, even at low temperatures and offers excellent resistance to sulphates and other soil salts. When suitably protected, Synthaprufe will be effective through the life of the building. Synthaprufe bonds with great strength to a range of building materials.

For use as damp proofing of concrete, brick, blockwork and masonry, with vertical surfaces being finished with a gypsum-based plaster system. Adhesive for unsealed wood block flooring (min 10mm thick). Suitable for tanking of basements.

Size: 5, 25 Litres



Synthaprufe LAC High performance liquid damp proof membrane

IKOpro Synthaprufe LAC is a high performance waterproofing liquid used as a damp proof membrane and water-repellent coating, prior to the erection of masonry. It forms a flexible membrane when cured and provides an effective barrier to water and water vapour.

IKOpro Synthaprufe LAC is easy to apply and is suitable for use in the most demanding site locations. For use in waterproofing of foundations, retaining walls, abutments, steel columns, beams, lintels and structures where cladding is to form the outer leaf.

Size: 5, 25 Litres



Type	Sizes	Coverage for two coats
IKOpro Synthaprufe Original	5, 25 litre cans	Floors: 1st coat 1m ² /litre; 2nd coat 1.5m ² /litre Walls: 3 coats each 2m ² /litre
IKOpro Synthaprufe LAC	5, 25 litre cans	Metal surfaces: 1st coat 2.5m ² /litre; 2nd coat 2.5m ² /litre All other surfaces: 1st coat 1.5m ² /litre; 2nd coat 2.5m ² /litre

Waterstops & Waterplugs



Supercast PVC Waterstops

Rearguard PVC waterstops are designed for use in vertical and horizontal joints in both water retaining and water excluding structures.

A range of prefabricated junctions and intersections is available, also see generic profiles and accessories on page 128.



Supercast Hydrofoil

Supercast Hydrofoil PVC waterstops are suitable for use in water retaining structures. When positioned centrally within the thickness of the concrete components they prevent the loss of water from within the structure and the ingress of ground water.



Type	Section Width	Roll Weight	Roll Length
Supercast Hydrofoil	150mm	21.3kg	15m
Supercast Hydrofoil	200mm	27.3kg	15m
Supercast Hydrofoil	250mm	27.1kg	12m
Supercast Rearguard S	200mm	24kg	12m
Supercast Rearguard S	250mm	33.4kg	12m
Supercast XHD Hydrofoil	250mm	42.9kg	10m
Other sizes available on request			



Supercast Twinstop

Supercast Twinstop is a PVC waterstop incorporating two hydrophilic elements for use in water excluding and water retaining structures. The hydrophilic elements provide extra security over standard PVC profiles.

A range of prefabricated junctions and intersections is available, also see generic profiles and accessories on page 128.

Type	Size	Roll Length
Supercast Rearguard TS	250mm	12m
Supercast Hydrofoil TS	250mm	12m



Supercast SW10 and SW20

Supercast SW10 and SW20 are hydrophilic waterstops for use in water retaining and water excluding structures. The SW10/20 waterstops are fixed into place using either Supercast SW adhesive or SWX hydrophilic adhesive. Supercast SWX can also be used as a problem solving hydrophilic waterstop in difficult access areas and detailing.



Supercast - SW Adhesive

Supercast SW

Supercast SW is a swellable waterstop for integral sealing of construction joints in concrete cast in-situ.

Supercast SW Adhesive is used to fix Supercast SW10 and SW20 to substrate.

Size: 380ml



Supercast - SWX

Supercast SWX is a grey, elastomeric water-swellaible paste which is applied like a sealant. The hydrophilic properties of Supercast SWX display good consistency in swell rate during repeated wet/dry cycling. Expansion of the product on contact with water creates a positive pressure against the faces of the concrete joint, thus preventing the passage of water.



Size: 380ml

Type	Size	Coverage
Supercast SW10	5mm x 20mm x 15m rolls	Usually single run of strip per joint
Supercast SW20	10mm x 20mm x 5m rolls	Usually single run of strip per joint
Supercast SW Adhesive	380ml cartridge	Approx 13m @ 5mm bead per cartridge
Supercast SWX	310ml cartridge	1.5m @ 16mm bead per cartridge



Supercast Butyl-Nek

Supercast Butyl-Nek is a rubber/bitumen pre-formed flexible sealing strip specifically used to provide a permanent watertight joint for pre-cast units which are jointed together on site. Applications include joints in manholes, inspection chambers, box culverts and concrete pipes. This easily compressible product is designed to completely seal and fill the annular space between pre-cast units regardless of shape or size. Supercast Butyl-Nek associated products have a 50-year proven track record in the most extreme situations and are specified and used by precasters and contractors worldwide.



Type	Size
Supercast Butyl-Nek	12mm x 60mm x 6m
Supercast Butyl-Nek	25mm x 40mm x 4m
Supercast Butyl-Nek Primer	5 litres



Supercast Synkoflex

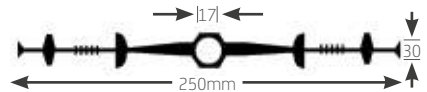
Supercast Synkoflex is a unique non-swelling, pre-formed plastic adhesive waterstop that bonds fast to cured concrete surfaces and fuses with fresh concrete. Supercast Synkoflex offers a host of practical advantages in application. It provides watertight integrity for construction joints in concrete structures in places where swellable waterstops are not best suited, such as bund walls and thin section walls and slabs. It has exceptional adhesion and malleability, making it an excellent choice for steel sheet piling/floor slab joints. Supercast Synkoflex comes with an extensive track record of more than 30 years proven reliability on major projects in the USA - now extending to Scandinavia, the UK and other major European countries.



Type	Size	Coverage
Supercast Synkoflex	25 x 25mm	Box of 25mm x 1m strips
Supercast Synkoflex FR	12 x 30mm	Box of 6mm x 5m roll
Supercast Synkoflex Primer	3.79 litres	50-60mm per can @ 50mm wide
Supastik E10 Adhesive		10-13m per pack @ 75mm wide

XHD Hydrofoil

Increased web thickness gives a much stiffer section. The stiffened profile is used where large volumes of concrete are being placed. They are used where concrete is being placed from a great height such as deep wall shutters.



Supercast	Section width	Wt/roll	Minimum Radii		Roll Length
			on flat	on edge	
XHD Hydrofoil	250mm	42.9kg	15m	0.23m	10m



Fosroc Waterstop Ancillaries

Factory Welded Intersections

A range of factory welded intersections for

- Hydrofoil
- XHD Hydrofoil
- Rearguard S

Jointing Jigs

Use to produce accurate square cuts in Fosroc waterstops and to hold ends to be welded in precise alignment.

Heater Blades

Used to weld PVC waterstops and intersections. 110v and 220v x 350w blades are available. Non-electric blades are also available.



Adcor® 500S

A conformable, swellable polymer/butyl rubber waterstop strip for construction joints that expands in contact with water. When fully encapsulated by poured concrete, the expansive forces form a seal against concrete faces. The seal resists hydrostatic pressure, stopping water from entering sub-structures. Adcor® is a unique product that has been specifically developed to provide better performance than conventional swellable rubber waterstops.

Type	Size
Adcor 500S	5m rolls, 6 rolls/carton, 30 cartons/pallet
Adcor Mastic	310ml cartridge
Adcor Adhesive MS	310ml cartridge
Adcor 500S Mesh Profile	1m strips, 30 strips/bundle
Large Secura Clips	Each





Serviseal

Serviseal is an externally cast passive PVC waterstop system manufactured in a range of sizes for the protection of expansion, construction and contraction joints in reinforced concrete basements and substructures.

Description	Size
195mm Serviseal	10m
240mm Serviseal	7.5m
K320 Serviseal	7.5m
Serviseal Pilecap	7.5m



Servitite

Servitite is a specially formulated PVC, internally cast, heavy duty waterstop system manufactured in a range of sizes and grades for use in reinforced concrete structures. Servitite is cast into the centre of the concrete member where it provides resistance against high hydrostatic pressure from both faces.

Description	Size
150mm Servitite	7.5m
230mm Servitite	5m
305mm Servitite	5m



PVC Edgetie

PVC Edgetie is an internally cast passive waterstop system manufactured in a range of sizes for sealing joints in concrete structures subject to water pressure. Centrally placed.

Description	Size
210mm PVC - Edgetie	10m
260mm PVC - Edgetie	7.5m



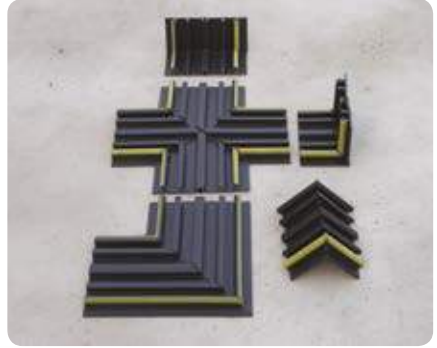
212 Waterproofing



AT System

AT System waterstops have been specially developed for water excluding and retaining structures such as basements, reservoirs or sewage treatment works. The AT System is an important advance in concrete joint protection that combines 'active technology' with the conventional mechanical properties of internally or externally placed PVC waterstops.

Description	Size
Servitite AT 200	7.5m
Serviseal AT 240	7.5m



Factory Welded Intersections

A range of factory welded intersections, a full range of Grace Waterstops are available to order.

Type
Flat L
Vertical L
Reverse Vertical L
Flat T
Flat X
Vertical T

Ancillaries	
Type	Pack
Jointing Jigs	Each
110V knife	Each
220V knife	Each

*Junctions to suit all types of PVC Waterstop





PVC Waterstop Profiles

SCP PVC Waterstops are available in various profiles for different concrete joint situations. Flat Dumbbell and Centrebulb types are used for internal waterstop details and have been independently tested to prevent the ingress of water, up to 27m head in construction and expansion joints in water retaining and excluding structures.

Extaseal external PVC Waterstop is a high performance heavy duty profile specifically developed to seal joints in concrete structures at the outside surface.

Pilecap waterstop has been specifically developed to provide a watertight seal between the pilecap and floor slab in concrete structures.

Type	Size
Construction Joint	200mm x 15m, 250mm x 10m
Expansion Joint	200mm x 15m, 250mm x 10m, 320mm x 10m
Kicker Joint	320mm x 10m

Pilecap		
Type	Width	Roll Size
Construction Joint	125 x 125mm	25m
Expansion Joint	125 x 125mm	25m

Dumbbell and Centrebulb		
Type	Width x 5mm web (Eyeletted)	Width x 10mm web (Heavy Duty)
Flat Dumbbell Construction Joint	150, 200, 260mm	150, 250mm
Centrebulb Expansion Joint	150, 200, 260mm	150, 250, 305mm
Roll Size	15mm	10m



Dual Stop Bentonite Waterstop

Dual Stop Waterstop is a Bentonite based waterstop which reacts in contact with water by swelling to form a watertight seal in concrete structures. It has been independently tested up to 30 metre head of water. It has full WRAS approval for use with potable water. Dual Stop Waterstop has been specifically designed to seal construction joints against the ingress or outgress of liquids in water retaining or excluding structures. It is fixed by nailing to the face of the existing pour prior to placing the next pour. It is installed directly onto scabbled surfaces and will swell into voids up to 12mm deep. Changes of direction and end joints are simply achieved by butting together, no welding or adhesives are required.

Type	Size	Roll size
Dual Stop Waterstop	7 x 25mm	8m



Dualtite Hydrophilic Expansion Joint Waterstop

Dualtite Waterstop consists of a PVC profile manufactured from weldable waterstop grade material incorporating Dual Seal Hydrophilic Bentonite Waterstops, which swell in contact with water, to form a totally watertight seal. The lug on either side of the central section, ensures that Dualtite is fully embedded into the adjacent concrete surface, and its unique central core design allows the joint to open up to 50%. When Dual Seal Bentonite Waterstop is installed in Kicker or Construction Joints, it is simply butt joined to the integral Dual Seal Waterstop, in the Dualtite, to create a totally watertight system.

Type	Roll Length
Dualtite Hydrophilic Expansion Joint Waterstop	8m



Superstop Self Swelling Waterstop

SCP Superstop has been developed to provide a watertight seal in construction joints, and is particularly effective when used in 'box out' applications. When water comes into contact with Superstop the bentonite expands to form a pressure seal which has been successfully tested to withstand a 33 metre head of water without leakage.

Type	Size	Roll Length
Superstop	12 x 25mm	6m
	19 x 25mm	3.9m



Uraswell Hydrophilic Sealant Waterstop

SCP Uraswell is a polyurethane based sealant which swells in contact with water and forms a permanent waterproof seal. Uraswell is solvent free and non-toxic and is easily applied with a barrel gun, it provides excellent adhesion on many materials including uPVC.

Description	Size
Uraswell Hydrophilic Sealant	600ml sausages
Barrel Gun	600ml



Swelltite Hydrophilic Self Swelling Waterstop

SCP Swelltite Hydrophilic Waterstop is manufactured from a neoprene polymer based hydrophilic compound and high water absorbent resins. Swelltite has been specifically designed for use in sealing construction joints between pre-cast concrete units, steel and in situ concrete. Unlike traditional waterstops Swelltite is centrally placed and bonded flat in the joint prior to making the second pour, activated by water Swelltite will swell up to five times its volume and seal the passage of water by exerting pressure across the joint. Swelltite rolls are self adhesive. Porous Surfaces should be sealed with Primer P.

Type	Size	Roll Size
Swelltite Hydrophilic	20mm x 5mm	15m
Primer P	1 litre cans	



Bentorub+

Bentorub+ is a green flexible hydrophilic strip made of natural bentonite clay and synthetic rubber. It is designed for the sealing of concrete joints, cold joints and working joints in concrete, around pipe penetrations, in sewer joints, against slurry walls and sheet piling.

Type	Size	Roll Size
Bentorub+	20 x 25mm	5m



Bentorub Salt

A red flexible hydrophilic strip made of natural bentonite clay and synthetic rubber. It has the same applications as Bentorub+ except Bentorub Salt may only be used in contact with salt and Brackish water.

Type	Size	Roll Size
Bentorub Salt	20 x 25mm	5m

Waterstop

Waterstop is a sodium bentonite based material, designed to stop water infiltration through in-situ concrete construction joints. Sodium bentonite swells when in contact with water, forming an impermeable barrier. This swelling property allows the Waterstop to form a permanent pressure seal within the concrete joint, thus eliminating water migration over or along the waterstop. The key to the product's effectiveness is its 75% sodium bentonite content, which provides superior expansion, to seal and fill voids and cracks within the concrete. Waterstop is an active bentonite based waterstop, that is designed to replace passive PVC/rubber type waterbars, thereby eliminating the requirement of special pieces and seam welding. Waterstop is manufactured in light-weight, flexible coils that are easily installed in hot or cold weather conditions, by a single worker.



Type	Size
RIW Waterstop	25m x 19mm, supplied in 5m long coils
RIW Mesh	A box of 50, 600mm lengths including fixing nails 30 linear metres per box

PVC Internal and External Profiles

PVC Waterstop profiles are designed for the use in basement, foundation and floor slab construction in both horizontal and vertical joints.

External Expansion

Incorporates a flat top centre box.

External Construction

Plain web section for use in contraction and construction joints.

Centrebulb

For use in expansion or contraction joints. Reinforced eyeleted outer flanges.

Dumbbell

Plain web sections for use in construction and contraction joints, also incorporating eyeleted outer flanges.

H.D. Centrebulb Range

10mm thick plain web sections for use in construction and contraction joints, also incorporating eyeleted outer flanges.

Joining Pieces

A full range of junction pieces are available.

Vert L

Flat L

Vert T Flat T

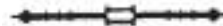
Flat X Mixed Flat X

Tools

Jig and Knife

Joining Jig

110V Hot Knife



Vert L



Flat L



Vert T



Flat T



Flat X



Mixed Flat X

218 Waterproofing



Swellseal Joint

Swellseal Joint is a flexible co-extruded vulcanised strip made out of a combination of chloroprene rubber and a hydrophilic resin.

The orange part has a swelling capacity of up to 600% in contact with water.

The black part (= compression zone) has a swelling capacity of 150%.

The ridged finish assures a better adhesion to concrete.

Advantages:

- Swellseal Joint has a proven track record in concrete structures subject to high water pressure.
- Reversible vulcanised rubber swelling strip in contact with water.
- Will not sag when correctly placed.
- Can be easily installed by nailing or glueing with Swellseal Mastic.
- Has a good all-round chemical resistance and can resist to petroleum, mineral and vegetable oils and greases.
- Swellseal Joint can also be installed between smaller pre-cast elements and/or joints where one expects smaller settlements

Type	Size
Swellseal Joint	7mm x 25mm x 10m
Contact Adhesive	1ltr



Swellseal 3V

Swellseal 3V is an elastic strip made out of a combination of rubber and a hydrophilic resin. Enclosed between prefabricated concrete elements, it will expand in contact with water and in this way seal the joint. Swellseal 3V has a swelling capacity of up to 300 times when in contact with water.

Type F

For sealing construction joints between precast elements.

Type S

For sealing joints between precast tunnel segments.

Swellseal 3V

Can only function properly in a confined space.

The expansion of Swellseal 3V will create a certain pressure. Installation in the middle of the joint is preferred.

Description	Size
Swellseal 3V Type F	20mm x 5mm x 15m
Swellseal 3V Type F	20mm x 10mm x 10m
Swellseal 3V Type F	20mm x 20mm x 5m
Swellseal 3V Type F	27mm x 27mm x 5m
Swellseal 3V Type S	20mm x 5mm x 15m
Swellseal 3V Type S	20mm x 10mm x 5m
Swellseal Adhesive	5 litres
Swellseal Adhesive P	25 litres
Swellseal Adhesive S*	25 litres

*For installation of Type S 3V/8V Strips



Swellseal 8V

Swellseal 8V is an elastic strip made out of a combination of rubber and a hydrophilic resin. Enclosed between prefabricated concrete elements, it will expand in contact with water and in this way seal the joint. Swellseal 8V has a swelling capacity of up to 800 times when in contact with water.

Thanks to its high swelling capacity Swellseal 8V is extremely appropriate for applications with polluted water, in case of higher water pressure in zones with changing water table (wet/dry cycles).

- Type F: For sealing construction joints between precast elements
- Type S: For sealing joints between precast tunnel segments
- Swellseal 8V can only function properly in a confined space

The expansion of Swellseal 8V will create a certain pressure. Installation in the middle of the joint is preferred.

Description	Size
Swellseal 8V Type F	20mm x 5mm x 15m
Swellseal 8V Type F	20mm x 10mm x 10m
Swellseal 8V Type F	20mm x 20mm x 5m
Swellseal 8V Type F	27mm x 27mm x 5m
Swellseal 8V Type S	20mm x 5mm x 15m
Swellseal Adhesive	5 litres
Swellseal Adhesive P	25 litres
Swellseal Adhesive S*	25 litres

*For installation of Type S 3V/8V Strips



Swellseal Mastic

Swellseal Mastic is a one-component, polyurethane based, solvent free, hydros swelling mastic, supplied in cartridges and aluminium sausages, for the sealing of construction joints and around pipe penetrations.

Swellseal Mastic cures and swells in the presence of moisture. Curing time depends on temperature and humidity conditions, i.e. curing time will reduce if RH and °C are higher. Swellseal Mastic will become firm in 24-36 hours. Performance is not affected by the curing time.

Size
310ml Cartridges
600ml Sausages



Bentogel

Bentogel is the combination of a hydrophilic bentonite strip and a post-injectable injection tube into one system for the sealing of construction joints in concrete.

Bentogel is manufactured out of three layers:

- A reinforced spiral of steel wire
- A filtrating membrane
- Bentonite rubber outer skin

Description	Size
Bentogel	40m kit inc. accessories



Waterstop RX[®] 101/Revofix

Waterstop RX[®]

Waterstop RX[®] is a specially formulated mixture of natural sodium bentonite and butyl rubber. On contact with water penetrating the joint, the material swells to form a tight compression seal.

Revofix RX[®]

Revofix[®] is an overlay mesh strip, used to hold Waterstop RX[®] in place centrally, supplied complete with fixing nails.

The Waterstop RX[®] is held in place by the use of Revofix, or by using RXWB Adhesive.

Description	Size
Waterstop RX [®]	20mm x 25mm x 5m
Revofix	30m Box
RXWB Adhesive	3.8 litres

222 Waterproofing



Hydrotite

Hydrotite is the original expanding rubber used in a variety of applications for sealing joints against water penetration. Initially developed for sealing segmental concrete tunnel linings, Hydrotite is a compound of polychloroprene (Neoprene) and hydrophilic resin, which expands when in contact with water, providing a self-sealing and easy to use alternative to traditional methods. Ideal for water retaining structures to achieve watertight insitu concrete joints.



Description	Size
Hydrotite CJ	7mm x 25mm x 10m
Contact Adhesive	1 litre
Super Glue	20g
Leakmaster Cartridge	310ml



Leakmaster

Leakmaster is a one-component, water-swelling elastic sealant, with excellent adherence. Supplied in 310ml cartridges for use with standard applicator gun.



SikaSwell

Three joint sealing profiles that swell in contact with water. They are permanently water resistant, highly elastic and pretreated to prevent premature swelling on site.

Type	Width	Thickness	Box
2003	20mm	3mm	140m
2010H	20mm	10mm	50m
SikaSwell 2005	20mm	5mm	140m
SikaSwell Sealant	600ml sausage		20m



Sika Injectoflex

Sika Injectoflex System (type HP) is an expanding, reinjectable hose for producing waterproof construction joints.

Size: 40m

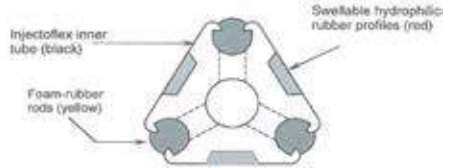
Providing watertight joints for: Grade 2, 3 and 4 basements. Underground car parks.

Water retaining structures.

Inner tube of non expanding black neoprene.

3 red external hydrophilic swelling strips.

3 yellow compressible sealing cords of foam rubber



Thoro Waterplug

Thora Waterplug is a blend of hydraulic cements, well graded sands and chemical additives supplied in a dry powder form. It requires only the addition of clean water to produce a ready to use, ultra-rapid setting plugging mortar.



Type	Coverage
Thoro Waterplug	0.585 litres per 1kg



Fastfill WP

Fastfill WP is a safe and simple to use ultra-rapid setting mortar for arresting water seepage and infiltration under pressure through cracks, joints and voids in concrete and masonry prior to the application of cementitious coatings and mortars. It is a single-component, polymer modified, fibre reinforced mortar based on shrinkage compensated Portland Cement, which is non-caustic in use.

Coverage : 1kg powder will yield 0.53 Litres.



Type	Size (kg)	Coverage
Fastfill WP	8	4.2 litres per 8kg

224 Waterproofing



Renderoc Plug

Renderoc Plug is a rapid setting mortar which is easy to apply to horizontal, vertical or overhead surfaces at a wide range of thicknesses. There are two grades available: Renderoc Plug 1 with an initial set time of approximately one minute, and Renderoc Plug 20 with an initial set time of approximately 20 minutes. (Set times are based on ambient/substrate temperatures of 20°C).

Type	Size	Coverage
Renderoc Plug 1	6kg	3 litres
Renderoc Plug 20	25kg	12.5 litres



Vandex Plug

A cementitious ready-mixed and rapid setting compound to plug leaks and stop water. DWI approved for use in contact with drinking water. Size: 15kg Resealable Bucket



FebTank Plug

A rapid setting Water Stop which, when mixed with clean water, provides a ready to use ultra rapid setting durable plugging compound for active water leaks in concrete and masonry. The material expands as it cures to form a watertight seal with similar characteristics to concrete. Use on holes, joints and cracks. Sets both above and below the water level. Size: 5kg



Cementfill WP

Cementfill WP is a single component, polymer modified, fibre reinforced, Portland cement based plugging and sealing compound. When mixed with water it exhibits unique hydraulic properties to produce a rapid setting mortar.

Type	Size	Yield	Coverage
Cementfill WP	8kg bag	4.25 litres	2.15kg/mm ²

Cementitious Waterproofing

RIW

Cementfill FC

Cementfill FC is a single-component, thixotropic, polymer modified, cement based, waterproof fairing coat and repair mortar for concrete and masonry.

Type	Size	Yield	Coverage
Cementfill FC	20kg bag	12 litres	4m ² at 3mm thickness


RIW

Cementfill HB

Cementfill HB is a single-component, thixotropic, polymer modified, cement based, waterproof, rapid hardening, high-build repair mortar for concrete and masonry.

Type	Size	Yield	Coverage
Cementfill HB	20kg bag	13.2 litres	2.64m ² at 5mm thickness


RIW

Cementflex

Cementflex is a two-component, polymer modified, flexible, cement based, waterproof coating for concrete and masonry.

Type	Size	Yield	Coverage
Cementflex	15kg bag (2-part)	9.4 litres	1.6kg/mm/m ² * & 4.7m ² at 2mm thickness*

*On repaired and normal concrete surfaces



226 Waterproofing

RIW

Cementjoint

Cementjoint is an advanced, elastomeric, highly tear resistant, breathable, waterproof composite tape.

Type	Size
Cementjoint	120mm x 10m rolls



RIW

Cementseal

Cementseal is a two-component, polymer modified, cement based, waterproof coating for concrete and masonry.



Type	Size	Yield
Cementseal	15kg (2-part)	7.9 litres of slurry, sufficient to treat 4m ² at 2mm thickness

RIW

Cementseal Primer

Cementseal Primer is a multi-functional, water based primer/curing agent, formulated on an aqueous acrylic copolymer.

Type	Size	Yield
Cementseal Primer	5 litre	5 - 7 m ² /litre



RIW

Aquatek Elastic 2C

Aquatek elastic 2C is a two-component coating containing cement, selected silicas, fibres, modifiers and a water-based acrylic liquid. Aquatek Elastic 2C cures into a flexible, waterproof coating which allows a movement up to 0.6mm and up to 1.2mm if reinforced with Reinforcement Mesh.

Type	Size	Colour
Aquatek Elastic 2C	32kg	Grey
Aquatek Elastic 2C	32kg	White
Aquatek Brush		





Aquatek

Aquatek super XA is a waterproofing powder product composed of Portland cement, selected silicas, chemically reactive ingredients and modifiers. When broadcasted onto the surface, Aquatek Super XA reacts with the moisture in the concrete and forms a waterproofing barrier through reaction of the active chemicals with the free-lime, to form long chained insoluble crystalline complexes which block the capillaries and micro-fissures in the concrete, stopping water penetration even under negative water pressure.

Description	Size	Colour
Aquatek Super XA	25kg	Grey

Application Brush



Omnitek

Omnitek RM Fiber is a cement-based powder containing selected silicas, fibres and modifiers. When mixed with clean water Omnitek RM Fiber provides a rapid setting, polymer modified, waterproof repair mortar.

Omnitek XL Fiber is a cement-based powder containing selected silicas, fibres and modifiers. When mixed with clean water Omnitek XL Fiber provides a fast setting, polymer modified, waterproof repair mortar.

Description	Size	Colour
Omnitek RM	25kg	Grey
Omnitek XL	25kg	Grey



Aquatek Plug

Aquatek Plug & Aquatek Plug XF are powders composed out of cement, selected silicas and modifiers. When mixed with clean water Aquatek Plug & Aquatek Plug XF provide rapid setting plugging mortars.

Aquatek Plug has a final setting time of three minutes, Aquatek Plug XF of thirty seconds. Can be applied even under water.

Description	Size	Colour
Aquatek Plug	10, 25kg	Grey
Aquatek Plug XF	10, 25kg	Grey



Aquatek Mastic P

Aquatek Mastic P is a one-component, polyurethane sealant and adhesive which can be used as a durable, flexible sealant or for bonding applications on most building materials.

Description	Size
Aquatek Mastic	310ml

Application Gun

228 Waterproofing



Thoroseal®

Thoroseal®, when mixed with water or a Thoro Acryl 60/ water blend (one part Thoro Acryl 60 to three parts water) to a lump free consistency, provides a waterproof coating that is easily applied by brush or spray to concrete and masonry above and below ground level.



Type	Size	Coverage
Thoroseal®	25kg	1st coat : 1.5kg/m ² 2nd coat: 1.0kg/m ²



Thoro Acryl 60

Thoro Acryl 60 is an acrylic polymer liquid additive for cement mixes, designed to enhance their physical characteristics, ease application and increase wear and weather resistance.

Size: 5 Litres, 20 Litres



Thoroseal Super

When mixed with clean water Thoroseal Super forms an extremely durable waterproof coating for concrete and masonry. Applied with a brush or spray. Available in white and grey and in bags or pails. Resists both positive and negative pressure.



Type	Size	Coverage
Thoroseal Super	25kg	2.5-3.5kg/m ² for two coats



FebTank Super

- WRAS approved
- LABC registered

Febtank Super, when mixed with clean water, forms an extremely durable waterproof coating for concrete and masonry which is easily applied by a stiff hand brush, broom or spray. Ideal permanent waterproofing system for basements, cellars, pools, reservoirs and below ground level applications. Resists both negative and positive water pressure.

Available in Grey or White
 Sizes: 25kg Bag, 20kg Tub



Flexcrete Cementitious Coating Range

A range of twin component cementitious modified polymer coatings which resist a 100 metre hydrostatic head to waterproof concrete and other mineral substrates against both positive and negative pressure. The products are CE Marked in compliance with EN 1504-2 and have a variety of performance characteristics.



Cementitious Coating 851

A 2mm coating which cures to form a hard, highly alkaline film with a degree of flexibility. This versatile coating produces a complete barrier to chlorides and has a range of uses including potable water (DWI Approved), basements, tunnels and other underground structures. BBA certified.





Cemprotec Elastic

Elastomeric grade of waterproof coating for the treatment of cracked or crazed surfaces.



Cemprotec E-942

Epoxy modified waterproof coating for enhancing the chemical resistance of concrete, blockwork and brickwork. Ideally suited for dirty water applications.



Cemprotec E-Floor

Available as a standard 2mm product or a 3-6mm variable formulation for the waterproofing of floor and deck areas. Overcomes the risk of osmotic blistering on damp substrates.



Type	Size	Yield	Coverage
Cementitious Coating 851	30kg	16.67 litres	8.33m ² /30kg @ 2mm thickness
Cemprotec Elastic	15kg, 30kg	18.8 litres	9.4m ² @ 2mm thickness
Cemprotec E-942	30kg	16.2 litres	8.1m ² @ 2mm thickness
Cemprotec E-Floor	30kg	16.2 litres	8.1m ² @ 2mm thickness
Cemprotec E-Floor HB	30kg	15 litres	5m ² @ 3mm thickness
Cemprotec EF Primer	5 litres & 25 litres	5 litres & 25 litres	3-10m ² per litre



Nitocote CM210

Nitocote CM210 is a flexible cementitious coating, used for waterproofing water retaining structures and water excluding structures. It provides a flexible waterproof coating suitable for use in potable water tanks, reservoirs, canals and culverts. The material can be used on concrete, brick and blockwork substrates.



Type	Size	Coverage
Powder component (grey or white)	18.2kg bag	1mm-12.5m ² per pack wet film thickness: 0.54m ² /kg
Liquid polymer component	5kg plastic container	
Proofex LM mesh	100mm x 50m	



SikaTop Seal 107

SikaTop Seal 107 is a two-component polymer modified cementitious waterproof mortar comprising of a liquid polymer and a special cement based mix incorporating admixtures.

Type	Size	Colour	Average Coverage
SikaTop Seal 107	10, 25kg	Cement	2kg/m ² /mm



SikaTop 121

SikaTop 121 is a two-component thin layer waterproofing, levelling and bonding mortar.

Type	Size	Average Coverage
SikaTop 121	25kg	2kg/m ² /mm



Sika Damp Proofing Slurry

Sika Damp Proofing Slurry is a one-component flexible polymer modified cementitious damp proof product comprising of special cement based components and admixtures. When used with water a slurry or mortar material is produced for direct application to a variety of construction substrates, available in Grey and White.

Type	Size	Average Coverage
Sika Damp Proofing Slurry	12.5, 25kg	6.5-7m ² /25kg bag @ 2mm thick

232 Waterproofing



Sika 1 Pre Batched Mortars

Sika 1 Pre-Batched Mortars are blends of specially graded aggregates, sand and cements manufactured to the correct mixing ratio, given below.

The four graded bags (Spritz, Render, Finish, and Screeding) make up the Sika 1 Pre Bagged Tanking system.

This consists of a three-coat render for the walls and a 35mm thick floor screed. The Sika 1 additive is first diluted with clean water at a 1:10 ratio, and then mixed with each bag. Sika 1 Pre-Batched Mortars can be used in the following uses, structural waterproofing to resist water pressure below ground, moisture and dampness above ground level and internal waterproof tanking. This system has been BBA Certified, Certificate no. 00/3761.

Type	Gauging Liquid	Size	Coverage
Spritz & Bonding Coat Mortar	5.7 litres	25kg	2m ² @ 6mm per bag
Render Mortar	3.3 litres	25kg	2m ² @ 6mm per bag
Finishing Mortar	3.3 litres	25kg	2m ² @ 6mm per bag
Screed Mortar	2.5 litres	25kg	2m ² @ 6mm per bag



Vandex BB 75

Vandex BB 75 is a cementitious, ready-for-use (just add water), efflorescence-free surface waterproofer with hydrophobic properties, resistant to water and moisture.

BBA approved (certificate no. 90/2516) and approved for use in contact with drinking water

Type	Size	Coverage
Vandex BB 75	25kg	6kg/m ² /3mm





Vandex BB 75 E

Vandex BB 75 E is a cementitious two-component polymer modified and efflorescence-free surface waterproofer with hydrophobic properties, resistant to water and moisture. Made of Vandex BB 75 as a dry component and Vandex Elasticizer PK 75 as a liquid component, which provides elasticity and crack bridging properties.

Type	Size	Coverage
Vandex BB 75 (dry component)	25kg	6kg/m ² /3mm
Vandex Elasticizer PK 75	10kg	



Vandex Super / Super White

Vandex Super is a capillary-active cement-based waterproofing slurry specifically designed for concrete waterproofing applications. It is based on grey Portland cement and is applied to concrete to provide in-depth waterproofing protection.

BBA approved (certificate no. 04/4188) and approved for use in contact with drinking water.

Type	Size	Coverage
Vandex Super/ Super White	25kg	1.5kg/m ²



Limelite Plasters

Modern gypsum based plasters should not be used in connection with cementitious waterproofing products. Limelite Renovating plaster and Tarmac High Impact Finishing Plaster have been formulated to compliment cementitious waterproofing systems.



234 Waterproofing

Limelite

Limelite Renovating Plaster

Ideal for plastering on a range of substrates during renovation work and specifically following the installation of a new damp-proof course or system.



Limelite

Limelite High Impact Finishing Plaster

A hard durable finishing plaster specifically designed to complement Limelite Backing Plasters.



Type	Size	Coverage
Limelite Renovating Plaster	25kg	3m ² @ 11mm/bag
High Impact Finishing Plaster	25kg	10m ² @ 3mm/bag

Liquid Additive Waterproofing

NITOBOND

Nitobond SBR

Additive for improving mortars for waterproofing repairs. Also used as a bonding agent for slip bricks, ceramic tiles etc.

For other uses SBR coverage is dependent on mix design.

Type	Size	Coverage
Nitobond SBR	2, 5, 10, 25 litres	As Slurry Primer= 2 to 3m ² /litre





Everbuild

SBR Bond

Bonding and waterproofing admixture to add to screeds, renders and repair mortar mixes.

Size: 5 Litres, 25 Litres



Sika 2, 4 & 4A

Sika 2, 4 & 4A are all purpose waterproofing liquids with various setting times and/or waterproofing properties. Setting time dependent on concentration.

Sika 2

Sika-Plug, is Sika's fastest setting point leak plugging product when used neat, for point leak plugging where high water ingress is present.

Sika 4

Accelerator, waterproofer, also for oil resistant renders and underwater concreting. For point and surface waterproofing against seepage, particularly sea water and sewage.

Sika 4A

Quick setting waterproofer for renders and leak sealing, setting in about 45 seconds. For point and surface waterproofing against general seepage (should be covered with Sika 1 render).

Type	Set Time	Consumption per kg Cement*	Pack Size
Sika 2	10 to 20 seconds	0.7	5
Sika 4	25+ seconds	0.15-0.7	5
Sika 4A	45 seconds	0.18-0.35	525

*Note - all consumption rates vary on set time and required use.



Sika 1

Sika 1 is an integral liquid waterproofing admixture which when diluted with clean water swells and blocks the pores and capillaries within sand & cement renders and screeds, supplied in 5 and 25 litre containers. It is also part of the Sika 1 Pre Batched Mortar System, (please see details on page 120).

Sizes: 5 Litres, 25 Litres

Consumption

As a general waterproofing admixture - approx 0.75 litre/25kg cement.



Ronafix for Waterproofing

Ronafix is a high-performance site batched, water-based polymer, for producing waterproof renders. The cured mortar bonds monolithically to concrete and other surfaces and will resist both positive and negative pressure. Ronafix is used in swimming pools, tanks and basements to contain or exclude water.



Type	Size	Coverage
Ronafix	5, 25, 220, 1000 litres	See Mix Design Table

Ronafix Mix Design

Application	Mix	Thickness/Notes
Floor screeds and screed repairs	A	6mm-50mm
Floor screeds and screed repairs	A1	26mm+
Floor toppings and topping repairs	B	15mm-25mm
Floor toppings and topping repairs	B1	26mm+
Floating floor screeds	F	35mm+
Concrete repair	D	over reinforcing steel
Concrete repair	A	no reinforcing steel
Renders	E	watertight and tanking
Renders	A	waterproof
Bedding brick slips, copings	C	6mm-12mm typical
Fine concretes	G	25mm+ typical
Slurry coats	SC	1mm-3mm typical
Water resistant renders	A	12mm-18mm
Watertight renders	E	12mm-18mm

Mix Designs		Cement Sharp Sand	Medium Granite Chips	6-3mm Pea Shingle	10-5mm Granite Chips	10-5mm	Ronafix (approx)	Water (approx)	Yield m ³ (approx)	Coverage
A	By weight	50kg	125kg	-	-	-	9 litres	9 litres	0.1	10m2 @10mm
	By volume	1	2	-	-	-	1:1 with water	-	-	-
A1	By weight	50kg	150kg	-	-	-	4.5 litres	14 litres	0.1	10m2 @ 10mm
	By volume	1	2.5	-	-	-	1:3 with water	-	-	-
B	By weight	50kg	75kg	75kg	-	-	9 litres	9 litres	0.1	10m2 @ 10mm
	By volume	1	1.25	1.25	-	-	1:1 with water	-	-	-
B1	By weight	50kg	75kg	-	-	75kg	4.5 litres	14 litres	0.1	7m2 @ 15mm
	By volume	1	1.25	-	-	1.25	1:3 with water	-	-	-
C, D & E	By weight	50kg	125kg	-	-	-	14 litres	4 litres	0.1	10m2 @ 10mm
	By volume	1	2	-	-	-	3:1 with water	-	-	-
F	By weight	50kg	150kg	-	-	-	4.5 litres	13.5 litres	0.1	10m2 @ 10mm
	By volume	1	2.5	-	-	-	1:3 with water	-	-	-
G	By weight	50kg	100kg	-	100kg	-	4.5 litres	14 litres	0.14	5.6m ² @ 25mm
	By volume	1	1.5	-	1.5	-	1:3 with water	-	-	-
Slurry Coat	By weight	50kg	50kg	-	-	-	35 litres	-	0.1	105- 122m ²
	By volume	1	1	-	-	-	-	-	-	-

238 Protection Materials

SIG Construction Accessories offers you a full range of ground and site protection materials, including specialist protection for carpets, windows and sanitary ware.



PRODUCTS	PAGE
Polythene	239
Protective Blankets	241
Protection Board	243
Specialist Protection	244
Cill Protection	247
Accessories	249

Polythene

On the roll polythene is the ideal general protection product. All our rolls of polythene are centre folded, for example a four metre wide sheet of plastic would be folded onto a one metre roll for ease of storage and transportation.



Type	Weight	Colour	Size
Polythene	1000g	Blue	4 x 25m
		Black	4 x 25m
Polythene	1200g	Blue	4 x 25m
		Black	4 x 25m
Polythene	2000g	Blue	4 x 12.5m
		Black	4 x 12.5m
TPS	500g	Black	4 x 50m
		Clear	4 x 25m



Temporary Rainwater Downpipe (layflat)

Ideal solution to rainwater staining of brickwork, natural stone & render finishes etc, used prior to the installation of rainwater pipes.

- Supplied on a roll for diverting rainwater away from brickwork and masonry
- 254mm is generally suitable for all outlets up to 150mm diameter
- Larger diameters available to order
- A range of large diameter hose clips and zip ties for fixing to gutter outlets are available



Type	Width	Roll length
Temporary Rainwater Downpipe	156mm	100m
	203mm	100m
	240mm	100m
	300mm	100m

Polythene Jointing Tape

Standard jointing tape for polythene. High tack jointing tape for those tricky, dusty sites. This is a polythene coated cloth tape with natural rubber adhesive.

Double sided jointing tape in two widths.

Type	Size (Roll)
Standard	75mm x 33m
High Tack	75mm x 50m
Double Sided	25mm x 50m
	50mm x 10m



Protective Blankets

Frost Blankets

Application: Laying concrete at temperatures below 5°C generally requires special precautions (such as special concrete additives, heating devices, hot vapour equipment, etc.). An easy and inexpensive solution is the use of frost blankets. The thermal insulation effect of the frost blanket significantly reduces the loss of natural concrete hydration heat and thereby keeps the concrete warm long enough for a safe curing.

Benefits: Concrete laying in summer and winter season. The combination of their excellent thermal insulation performance, their negligible water absorption and their flexibility make frost blankets ideal for improved concrete curing.

- Negligible water absorption
- Excellent thermal insulation
- Excellent chemical resistance
- Fast laying from the roll
- Lightweight, easy to handle and cut
- Good mechanical resistance
- Flexible at very low temperatures

Size: 75m x 1.5m x 6mm

+/- 5 % tolerance on width and length

Frost blankets can be directly rolled onto the wet concrete. Wind conditions might necessitate the mats being held in place by suitable loading at the contractor's discretion. Beware not to walk on the mats during installation and before hardening of the concrete.



242 Protection Materials

Hessian Blankets

Hessian protection mats, 55m²/roll.

For frost protection and the curing of concrete and brickwork.



Pallet Wrap/Cling Film

17 micron pallet wrap/cling film uses include the wrapping of bricks, blocks and other building materials on site.

- Also suitable as a wrapping protection for steel beams and columns to protect from contamination especially in the winter months
- Each roll is supplied on extended cores without the need for applicators

Roll size	Box Quantity
400mm x 250m	6
400mm x 300m	6



Tarpaulins

A range of tarpaulins for temporary and long term protection. Contact us for details.



Bubble Wrap

Bubble wrap is a general purpose bubble protection providing cover and impact protection for both domestic and commercial uses.

- Flame Retardant option available - accredited with the LPCB's standard LPS 1207
- Ideal for Kitchen and Sanitary ware and covering stainless steel stair parts
- Suitable for use with Easi-peel, easy tear tape on finished surfaces

Type	Size
Bubble wrap - LD (10mm bubble)	1.2 x 100m
Bubble wrap - HD (30mm bubble)	1.5 x 50m
Bubble wrap - FR (10mm bubble)	1.2 x 100m



Protection Board

OCKWELLS

TwinShield

Manufactured from twin wall polypropylene board that is tough, durable, impact and chemical resistant, non-toxic and waterproof. TwinShield does not stain and is suitable for all round protection.

- Available in LPS 1207 FLAME RETARDANT because of the increased concern about the role of combustible materials fuelling major fires
- TwinShield meets the very stringent quality control standards of the LPCB
- The LPCB logo and registration number are printed on every sheet of the product
- Simply and quickly cut, curved or creased, lightweight and easy to position



Type	Size	Thickness	Colour
TwinShield Standard	1.22 x 2.44m	2mm	Black/Translucent
TwinShield Standard	1.22 x 2.44m	3, 4mm	Translucent
TwinShield Standard	1.22 x 2.44m	5mm	Black
TwinShield Standard	1 x 2 (door size)	2mm	Black
TwinShield FR	1.22 x 2.44m	2, 3, 4mm	Translucent
TwinShield FR	1 x 2 (door size)	2mm	Translucent

Specialist Protection

OCKWELLS

Seekure FR

Seekure FR is a durable non-slip temporary protection material made from fabric reinforced polythene. It is extremely versatile and suitable for all floor surface finishes, highly slip resistant, waterproof and flame retardant to LPS 1207. It can also be used to erect a temporary screen to conceal construction work from public areas.

Size: 2m x 50m rolls



OCKWELLS

FloorShield Standard

Manufactured from recycled paper and formed into a cardboard type material, FloorShield Standard is a very economical and environmentally friendly product.

Provides a degree of water and slip resistance, easily cut with a knife and suitable for protecting carpeted areas, vinyl, timber, concrete, raised access, screeded floors, worktops and doors. Ideal for protecting against foot traffic and provides a degree of impact resistance whilst maintaining a clean surface below.

Type	Size
Heavy Duty	1m x 50m
	1m x 100m
Light Duty	1m x 100m





FloorShield Flame Retardant (FR)

Currently the only breathable material on the market, manufactured from a spun-bonded Polypropylene material that is fully accredited to LPS 1207 and complies with fire regulations associated with temporary protection materials. Uses include temporary internal protection on building sites, factories, warehousing, showrooms and most domestic situations.

Size: 1m x 100m rolls



MegaShield

A range of flame retardant protection sheets accredited to LPS 1207. Certified by Loss Prevention Certification Board (LPCB) in compliance with Loss Prevention Standard (LPS 1207). Comprehensive range of grades to suit most applications and surfaces.

MegaShield High Performance has improved anti-slip and high impact characteristics over the standard grade.



Type	Size	Area
Light duty E1-FR	167m x 1.5m x 65mu	250m ²
Medium duty E2-FR	134m x 1.5m x 120mu	200m ²
Heavy duty E3-FR	67m x 1.5m x 175mu	100m ²
High performance	55m x 1.82 x 120mu	100m ²
Housing grade	160m x 0.625m x 120mu	100m ²
T400 Jointing tape	100mm x 50m	N/A
T600 Jointing tape	50mm x 50m	N/A
Medium duty tape	50mm x 66m	N/A



Carpet Protection Film

A low tack adhesive, tough polythene film designed to protect carpets without creating a trip hazard. Must be renewed every 4 weeks (not suitable for thick pile carpets).

- Simple and fast installation
- Excellent alternative to dust sheets
- Also available in flame retardant film
- Dispensers are available for applying carpet protection film to large areas

Type	Size
Heavy Duty Carpet Film	600mm x 100m
	900mm x 100m
	1200mm x 100m
Flame Retardant Carpet Film	600mm x 100m
	1200mm x 100m



Sanitary Ware Protection

A full range of pre-formed units are available to protect expensive sanitaryware from the rigors of site.

Also available in flame retardant LPS 1207.



Cill Protection

OCKWELLS

TwinShield Cill Protector

Purpose made strips of impact resistant plastic, which can be wrapped around and fixed simply to most cills to protect from mortar droppings or damage.

Supplied in 3mm x 300mm x 1200mm (25 per pack). Clips available in packs of 100.



OCKWELLS

Card Edge Protector

A rigid 4mm thick fibreboard, which is preformed to a right angle to give exceptional strength and unbeatable impact resistance. It is ideal for protecting exposed edges including cills. Lightweight and manageable Rigid Edge Protector can be easily cut to size and is simple and quick to fix.

Supplied in 50mm x 50mm x 2m (30 per pack).



OCKWELLS

Artstone Protection

A flexible heavy duty cushioned foam tube which can be clipped directly round many shapes of stone cill, being especially suited to bay or bespoke window types.

Supplied in 114mm x 2m lengths (11 per box).

Also available in Flame Retardant LPS 1207 for internal use.



Protection Tapes

We stock a comprehensive range of fixing tapes to suit all applications whether they are to be used for jointing or sticking to finished surfaces. We can also custom print many types of tapes and can source any variation of adhesive to suit your requirements.

Type	Colour	Size
SIG Construction Accessories Tape	-	50mm x 66m
Duo Tape	-	50mm x 33m
Flame Retardant Tape	-	50mm x 33m
Cloth Tape	Black	50mm x 50m
Cloth Tape	Black	75mm x 50m
Cloth Tape	Black	100mm x 50m
Ultra Low Tack Tape	-	50mm x 100m
Low Tack Tape	-	50mm x 33m
Foil Tape	-	75mm x 50m
Tape Applicator	-	50/75/100mm



Accessories

Line Marker - Spray

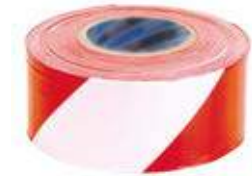
Line marker paint in an aerosol spray. Used for site markings.

Colour	Size	Box qty	Pack
Yellow	750ml	6	Per can
Blue	750ml	6	Per can
Red	750ml	6	Per can



Hazard Tape

Red and white diagonal warning tape.
Complete with dispenser box.
Size: 50mm x 33m. 24 rolls per box.



250 Accessories, Tools & Safety

A selection of site essentials and accessories can be found in this section including applicator guns, sprayers and safety equipment. As with all our products, equipment is sourced from premium manufacturers to ensure reliable usage time after time. Not all products are listed or stocked in every branch, please contact your local branch with specific enquiries.



PRODUCTS	PAGE
General Site Equipment	251
Guns	253
Nailing Systems	254
Tapes	256
Tools for Concrete	256
Work Wear	258
High Visibility Clothing	259
Footwear	260
Gloves	262
Head Protection	264

General Site Equipment

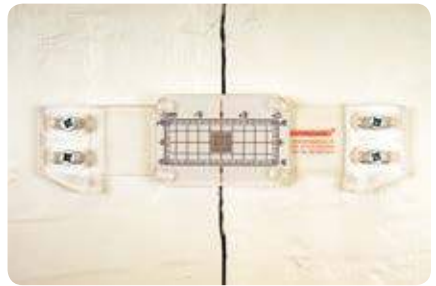
Min/Max Thermometers

Quick set press button. Moulded in cream case with white scale. No magnet needed to reset.



Tell-Tale

An enhanced Tell-Tale crack monitoring gauge that monitors horizontal and vertical movement across a crack on a flat surface to an accuracy of $\pm 1.0\text{mm}$ and by interpolation to $\pm 0.5\text{mm}$.



Builder Bucket

Plastic bucket with easy pouring lip and comfortable grip handle.



Gorilla Bucket

A flexible rubberised bucket that is long lasting and convenient for multiple purposes such as carrying large loads and mixing products.



252 Accessories, Tools & Safety

Floor Scraper

For use in the removal of vinyl and ceramic tiles.

Brushes

A range of specialist and general purpose brushes are available in sizes from 1 to 6", ideal for painting, tar (long & short) and slurry.



Brooms

A range of specialist and general purpose brooms, available for concrete finishing through to cleaning.



Wire Brush

In various sizes with and without scraper back.

Rollers & Trays

Paint roller and tray set.

Black Cable Ties

Tough black plastic cable ties.

Black Cable Ties available in the following size - 4.8mm x 300mm, packed in 1000.

Contact Adhesive

High quality adhesive for bonding filler boards, polystyrene, insulation and protection boards to a wide range of surfaces.

Size: 5 Litres

Guns

Skeleton Gun

High quality gun for use with all 310 to 400cc cartridges.



G Gun

Bulk gun used to apply gun grade sealants, and in particular those supplied in 600cc foil sausages.



Lokfix

Grout dispensing hand gun, to use with injected grouting systems.

Resin Hand Pumps

Resin dispensing gun, to use with resin injection systems.



Foambond Guns

Plastic and metal versions available.



Follower Plate

Used to transfer sealant from can to bulk gun.



Nailing Systems

Powder Actuated Nailing Systems

The professional's choice for cartridge nailing. Fully automatic Spitfire P370 is the easiest tool in the market to disassemble and maintain. We supply a range of collated pins.

Disc cartridges 6.3mm Diameter/10mm length

Code	Colour	Strength	Box Qty
031740	Brown	Very Low	100
031600	Green	Low	100
031700	Yellow	Medium	100
011658	Red	High	100



C9 Collated Concrete Pins

Code	Length	Box Qty
011330	20mm	500
011331	25mm	500
011332	30mm	500
011333	35mm	500
011334	40mm	300
011335	50mm	300
011337	55mm	300
011336	60mm	300



Box also includes x1 spare rubber spring

C9 Concrete Pins

Code	Length	Box Qty
032520	25mm	100
032530	30mm	100
032540	35mm	100
032550	40mm	100
032560	50mm	100
032570	60mm	100
032580	70mm	100
032590	80mm	100
032600	90mm	100

Note: Pins over 70mm require pre-hammering

CR9 Concrete Pins with Ø 14mm Washers

Code	Length	Box Qty
032070	25mm	100
032100	30mm	100
032090	40mm	100
032010	50mm	100
032030	70mm	100

CR9 Concrete Pins with Ø 34mm Washer Fixing System for Drainage and Waterproofing

Code	Length	Box Qty
038090	30mm	200
038100	40mm	200
038110	50mm	200



Tapes

Masking

Suitable for interior masking and very light packaging.

Sizes width: 24, 36, 48, 75, 100mm

Length: 50m

GP Formwork and Shuttering

Polythene DPM joints should be sealed by overlap of 100mm wide, jointing tape.

Sizes width: 50, 75, 100mm

Length: 33m

Gaffa Tape

Laminated polythene/cloth tape coated with an aggressive pressure sensitive adhesive.

Double-sided Tape

Available in High Tack/ High Tack combination or High Tack/ Low Tack.

Size: 50mm x 50m

Tape Guns

Cuts down on the time needed to join materials.

Sizes Stanard Duty: 50mm

Heavy Duty: 50, 75, 100mm

Tools for Concrete

Trowels

Made from finest steel in plain, flat back round nose, double round ended and notched styles.

Bull Float

Hard wearing magnesium alloy tool for smoothing, levelling and finishing large areas of screed and wet concrete.

Concrete Scoop

Concrete handling hand scoop.

Concrete Curing Tank

Complete with heater, temperature controller, wire rack and mains tail lead and plug.

Notched Leveller

Notched blade for levelling floor toppings.

Slump Cone

Slump cone used with tamping rod (sold separately.)

Spiked Roller

The spiked roller for rolling out air bubbles from self levelling floor toppings. The spiked discs are solvent resistant for ease of cleaning.

Spiked Shoes

The spiked shoes are for walking over self levelling floor toppings.

Squeegee

Smooth edge squeegee 1000mm width.

Straight Edges

With grips for tamping and levelling concrete.

Rubble Sacks

These hardwearing and reusable rubble bags are recyclable, strong, tear resistant and durable.

Size	Maximum Weight
405 x 662mm	25kg
405 x 662mm	40kg



Work Wear

SIG Construction Accessories can supply you with essential safety clothing and Personal Protective Equipment (PPE), including high visibility wear, EN approved helmets, goggles, safety boots and a range of protective gloves. Our range is bigger than shown here; just ask your local branch for more details.

Dust Suits

Provides effective clothing protection.



Redhawk Superwork Trousers

- Key fob on waistband
- Button and YKK zip fastening
- Cargo style pocket with button fastening
- Further pockets include two front pockets, two rear pockets with buttoned flap closure
- Hammer loop on right leg
- Rule pocket on left leg
- External knee pad pouches for knee pads
- Triple stitched seam detailing
- All sizes available



Kneepads

To suit our knee pad trousers and other popular styles.



Nylon Rainsuit

PVC coated nylon light and waterproof jackets.
Packed in zipped storage pouches

Colours: Dark blue or yellow.

Trousers sold separately.

Dark blue: M - XXXL.

Yellow: S - XXXL.



High Visibility Clothing

Polo Shirt

Colours: Yellow & orange

Yellow: S - XXXL.

Orange: S - XXL.



High Visibility Jacket

- 2 way nylon zip with studded storm flap
- Concealed drawing hood
- Knitted cuff inner on sleeves
- 2 front pockets with flaps and inner pocket in quilted lining



260 Accessories, Tools & Safety

High Visibility Waistcoat

With adjustable Velcro™ closing.



Footwear

Centurion Super Safety Boot

Leather upper, steel toe-cap to EN345 (200 joules). Steel midsole, padded collar and tongue. Thinsulate lined for cold weather comfort. Goodyear welded construction.

Breathable Cambrelle lining. Woven back puller and front lace protector. Oil resistant, non-marking sole, heat resistant to 300°C with a slip resistant tread.



Super Safety Lined Rigger Boot

Synthetic fur lined leather boot with round top and pull on loops. Steel toe-cap to EN345 (200 Joules). Steel midsole for underfoot protection. Full length inner sock. Lightweight polyurethane sole is heat resistant to 200°C. The sole resists petrol, oil, alkalis and some acids.



Ashley Super Safety Boot

Leather upper. Steel toe-cap to EN345 (200 Joules). Steel midsole for underfoot protection. The double density polyurethane sole is heat resistant to 200°C. Sole resists petrol, oil, alkalis and some acids.



Storm Super Safety Trainer

Suede and mesh upper, cambrelle lining. Steel toe-cap to EN345 (200 Joules). Steel midsole for underfoot protection. Dual density polyurethane sole resists petrol, oil and alkalis.



Legend Safety Trainer

Leather upper, padded collar and tongue. Steel toe-cap to EN345 (200 Joules). Rubber sole heat resistant to 300°C.



Spiked Shoes

The spiked shoes are for walking over self levelling floor toppings.

262 Accessories, Tools & Safety

Gloves

A wide range of gloves are available by request.

Black Poly Gloves

For use with chemical and bitumen



Builders Grip Gloves

With green latex coating. Polycotton liner for comfort and dexterity.



Disposable Latex Gloves

Box of 100.



Rigger (Rigid) Gloves

A high quality glove that provides extra protection for finger-tips and knuckles.



Gauntlet Gloves

Hardwearing gloves that provide extra wrist protection.



PVC Coated Gloves with Knitted Wrists

Tough PVC coating for good abrasion protection with soft cotton liner absorbs perspiration.

Snug knitted wrist for greater comfort and waterproof for use in wet conditions.



Ansell

Sol-Vex ANS37-675

Industry standard for high performance chemical protection, with outstanding combination of mechanical strength and chemical resistance. Sanitized®/Actifresh® to maintain hand hygiene and combat skin irritation. Comfortable, flexible and long-lasting.

Length: 330mm

Thickness: 0.38mm

Sizes: 6 to 11



Hycron ANS27-600

Intermediate design, Nitrile palm coated, stronger and more flexible than PVC. Excellent dry grip with soft double jersey lining and no seams in working area. Curved, pre-fixed fingers and wing thumb. Silicone free and liquid repellent coating.

Sizes: 9 - length 260mm, 10 - length 270mm



Head Protection

Helmet MK2

Manufactured from impact resistant UV Stabilised High Density Polyethylene with integrated rain channel. Harness options: Standard Poly/Slip.

Accepts Cliptite Accessories and conforms to EN397.

Available in yellow, white, green, blue, red, orange.



9172-265 Super G

- CE approved to EN166 IF
- The world's lightest safety specs, just 18 grams
- The Super G unites innovative technologies and high-tech materials
- Extremely thin, aerodynamic lens
- The lightweight frame incorporates XST (x-stream technology) in the side-arms to provide a secure fit
- Optical Class 1 polycarbonate lens
- 100% UV protection
- Excellent field of vision
- Available with crystal frame (9172-110)



Bolle Attack

A quality goggle which fits tightly to the face. Offers anti-scratch and anti-mist properties. Impact and chemical splash protection.



Ear Plugs

Comfortable ear protection to block out excessive noise levels.

Disposable P2 Valved Respirator (EN149:2001 FFP2)

Valved respirator protects against fine low to average toxicity dusts, fibres, solid and liquid aerosols.

Valve reduces the build up of heat/moisture inside the mask and helps user acceptance. Contoured fit, low breathing resistance.



Conversion Charts
Length

To Convert	Multiply By
Inches to Centimetres	2.54
Centimetres to Inches	0.397
Feet to Metres	0.3048
Metres to Feet	3.281
Yards to Metres	0.9144
Metres to Yards	1.094
Miles to Kilometres	1.609
Kilometres to Miles	0.6214

Area

To Convert	Multiply By
Square Inches to Square Centimetres	6.452
Square Centimetres to Square Inches	0.155
Square Metres to Square Feet	10.76
Square Feet to Square Metres	0.0929
Square Yards to Square Metres	0.8361
Square Metres to Square Yards	1.196
Square Miles to Square Kilometres	2.59
Square Kilometres to Square Miles	0.3861
Acres to Hectares	0.4047
Hectares to Acres	2.471

Length Equivalents (Metric to Imperial)

Metric (mm)	Approx Imperial (Feet - Inches)
1225	4 - 0
1375	4 - 6
1525	5 - 0
1600	5 - 3
1675	5 - 6
1750	5 - 9
1825	6 - 0
1875	6 - 2
1975	6 - 6
2025	6 - 9
2125	7 - 0
2175	7 - 2
2275	7 - 6
2350	7 - 9
2425	8 - 0
2600	8 - 6
2750	9 - 0
2825	9 - 3
2900	9 - 6
2975	9 - 9
3050	10 - 0

266 Conversion Charts & Tables

Volume	
To Convert	Multiply By
Cubic Inches to Cubic Centimetres	16.39
Cubic Centimetres to Cubic Inches	0.06102
Cubic Feet to Cubic Metres	0.02832
Cubic Metres to Cubic Feet	35.31
Cubic Yards to Cubic Metres	0.7646
Cubic Metres to Cubic Yards	1.308
Cubic Inches to Litres	0.01639
Litres to Cubic Inches	61.03
Gallons to Litres	4.546
Litres to Gallons	0.22

Weight	
To Convert	Multiply By
Grains to Grams	0.0648
Grams to Grains	15.43
Ounces to Grams	28.35
Grams to Ounces	0.03527
Pounds to Grams	453.6
Grams to Pounds	0.002205
Pounds to Kilograms	0.4536
Kilograms to Pounds	2.205
Tons to Kilograms	1016
Kilograms to Tons	0.000984

Fahrenheit to Celsius, and vice versa	
F°	C°
32	0
40	5
50	10
60	15
70	20
75	25
85	30
105	40
140	60
175	80

Sealant Estimating Guide

To calculate the number of litres required use the following calculation

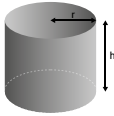
$$\frac{\text{Joint width (mm)} \times \text{joint depth} \times \text{joint length (m)}}{1000} = \text{litres required}$$

Typical Sealant Coverage			
Sizes (ml)	Coverage*		
	Joint size (mm)	Litre/metre run	Metre run per cartridge
380 Cartridges	5 x 5	0.025	15.2
	10 x 10	0.1	3.8
	15 x 10	0.15	2.5
	15 x 15	0.23	1.6
	20 x 15	0.3	1.2
	20 x 20	0.4	0.95

*These are theoretical yields, no allowance has been made for variation in joint dimensions or wastage.

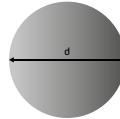
Volumes & Calculations

Cylinder



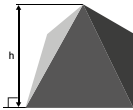
Volume = $\pi r^2 h$
 Total surface area = $2\pi r h + 2\pi r^2$

Circle



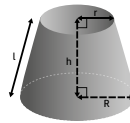
Circumference of a circle = πd
 Area of a circle = $\frac{\pi d^2}{4}$

Pyramid



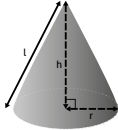
Area of base = A
 Perpendicular height = h
 Volume = $\frac{1}{3} \times A \times h$

Frustum



Volume = $\frac{1}{3} \pi h (R^2 + Rr + r^2)$
 Curved surface area = $\pi l (R + r)$
 Total surface area = $\pi l (R + r) + \pi r^2 + \pi R^2$

Cone



Volume = $\frac{1}{3} \pi r^2 h$
 Curved surface area = $\pi r l$
 Total surface area = $\pi r l + \pi r^2$

A

Accessories, Tools & Safety Equipment

250-264

Adcor 500S	210
Adhesive	252
Adoclean	164
Adocure	148-150
Adofill	139
Adofoam	145
Adolease	144
Adoplug	92
Adoseal	143
Adostrike	140
Adostrip	139
Adotuf	147
Alphajoint Floor Formwork System	106
Alti-Form	93
Alti-Mesh	112
Alti-Shield	83
Alti-Shield Max	84
Alti-Spacer	67
Anchor Grouts	46-50
Anchor Plug	195
Anchors	55-61
Ancon 30/20	135
Ancon Combideck	134
Ancon Isolan	131
Ancon KSN Anchor Continuity Systems	119-120
Ancon Lockable Dowels	128-129
Ancon Starter Bar System	126-127
Aqua Channel Drainage	189-190
Aquatek	226-227
AT System	212

B

Balcony Connectors	133-134
Bar Couplers	121
Bar Grout Estimator	49
Beamform	92
Bentofix	35
Bentobject	221
Bentonite Geotextile Waterproofing	196-197
Bentonite Geotextiles	196
Bentorub+, Salt	215
Bentoseal	197
Betajoint Floor Formwork System	106
Bitusheet Gas Barrier Ancillaries	17
Bitusheet Gas Barrier Membrane	17
Bitusheet Waterproofing Ancillaries	193-194

Bitusheet Waterproofing Membranes	193	Cleaning Ports	190
Bituthene® 2000, GP	175	Column Formers	96-98
Bituthene® 4000	176	Combrigrid	23
Bituthene® 8000, MRX	9,175,176	ComFlor 100,210	137
Bituthene® LM	178	ComFlor 70	136
Bituthene® Primers	201-177	Conbextra EP10, EPR	46
Bituthene® Protection Boards and Tapes	177	Conbextra GP	42
Bituthene® Waterproofing Ancillaries	177-178	Conbextra HF, BB, TS, UW	43
Bituthene® Waterproofing Membranes	175-176	Concrete Curing, Hardening and Sealing	146-154
Blue Glider	159-160	Concrete Pins	254-255
Bolt Boxes	85-88	Concrete Placer and Rakes	161
Bolt Cracker	86	Concrete Remover	165
Boots	260-261	Concrete Scoop	158
Brick & Concrete Cleaning Material	164-165	Concrete Spacers	68-70
Brick Plugs	188	Connection Nuts	90
Bricklayer Accessories	166-167	Connectors	58
Brushes	150,162,252	Conversion Charts & Tables	265-267
Bubble Wrap	156-243	Corner Fillets	108
Buckets	166-251	Crack Inducers	108-110
Bull Float	160,256	Crack Inducers & Void Formers	108-110

C

C Mix Plus Polyester Resin	54
Cable Ties	252
Carpet Protection Film	246
Cast-In Channels	135
Cavity Drain Waterproofing Membranes	187
Cebex 100	44
Cellular Confinement System	28-29
Cementfill FC, HB	225
Cementfill WP	224
Cementflex	225
Cementitious Coating	229
Cementitious Coating 851	229
Cementitious Waterproofing	225-234
Cementjoint	226
Cementseal & Cementseal Primer	226
Cemprotec	230
Channel	37
Channel Drainage	36
Channel End Outlet	190
Cill Protection	247
Clay Liners	35-36
Clayboard®	95
Claylite 3.3	93
Clayshield 3.3	94

D

De-bonding Compound	82
Denso Tape	88
Double Drain Waterproofing Ancillaries	185
Double Drain Waterproofing Membranes	185
Double-sided Tape	256
Dowel Bar Cradles	78
Dowel Protection Caps	84
Dowels	78-85
Drainage	33-34,36-37
Drill Bits	166
Dual Seal Waterproofing Ancillaries	199
Dual Seal Waterproofing Membranes	199
Dual Stop Bentonite Waterstop	214
Dualtite Joint Waterstop	214
Dust Suits	258

E

Eazistrip Continuity Systems	116-119
Edgetie	211
Edging Tools	161
Envirotrak	27
Epcon C8 Extreme	51
Epcon High Performance Chemical Resin	52
Epobar Resin	79
Epobar Vinylester Resin	54
Epomax Vinylester Resin	53
Epoxy Based Anchor Grouts	46-47
Erosion Control	25-26,29
Expanding Foam	157
Extender Strip	105

F

Famguard	172
Fastfill WP	223
FebTank Plug	224
FebTank Super	229
Fencing Pins	63
Fischer FBN Bolts	56
Fischer FH High Performance Anchors	57
Fischer FSA Sleeve Anchors	56
Fischer FWB Wallbolts	57
Fischer High Performance Steel Anchors	55
Five Star Grout, SP	41
Fixing Collars	99
Flexiseal	202
Floor Decking	136
FloorShield	244-245
Flying End Fabric	113
Formwork Systems	96-99
Fosroc Cementitious Grouts	44
Fosroc Concre WB	151
Fosroc Nitoflor Lithurin	151
Fosroc Primer 3	200
Frost Blankets	156-241

G

Gabions	24
Gaffa Tape	256
Gas Barrier Systems	8-17
Geocomposite Drainage	33-34
Geoflow Drainage	33-34
Geogrids	22-23
Geomembranes	36
Geotec TB, NP	20
Geotec W, 90	21
Geotechnical Centre	20-37
Geotextiles	20
Gloves	262, 263
Goggles	264
Groover	163
Groundwork Engineering	4-39
Grouts & Anchors	40-61
Guns	253-254

H

Hand Floats	162
Hard Hat	264
Hazard Tape	249
Head Protection	264
Hessian Blankets	242
Heviseal	203
High Visibility Clothing	259-260
Hychairs	65
Hydrocoat	203
Hydroduct® Waterproofing Ancillaries	183
Hydroduct® Waterproofing Membranes	181-183
Hydromat	171,197
Hydrotite	222
Hyload Gastite	16
Hyload Protection Board	192
Hyload Tanking Membrane	16,190-191
Hy-Rib®	100-101

I

IKO Waterproofing Ancillaries	192
IKO Waterproofing Membranes	190-191
IKOpro	192
Indicator Layer	21
Insulated & Reinforced Balcony Connectors	130-132
Insulslab SFRC	5-6
Intersections	212
Isokurb Thermal Break Modules	130

J

Janitol Plus	167
Japanese Knotweed Barrier	32
Jizer	167
Jointing Tape	240

K

K-Form Screed Rails	102
Kneepads	259
KSN Anchor Continuity Systems	119-120

L

LAC	203
Latex Gloves	262
Leakmaster	222
Lenton Couplers	122
Leveller	257
Lightweight Anchors	58
Limelite Plasters	233-234
Line Marker – Spray	249
Liquid Additive Waterproofing	234-237
Liquid Waterproofing Membranes	200-204
Load Bearing	29
Lockable Dowels	128-129
Lokfix P25, S25	48

M

Magnets	158
Masking Tape	256
Masterflow 765	44
Masterflow 885	47
MBT Couplers	123
MBT ET Series	123
MBT Headed Anchors	125
MBT Transition & Continuity Series	124
MegaShield	245
Membrane Washers	195
Metal Foot	105
Metal Formwork Hy-Rib®	100-101
Metalscreed Ancillaries	105
Mulseal DP	200
MV System	131

N

Nailing System	254-255
Nitocote CM210	231
Nitoflor Lithurin	151
Nitoseal MS60	197
Nuts	58

O

Omnitek	227
---------	-----

P

Packing Shims	85
Pallet Wrap/Cling Film	242
Plaster	233-235
Plaster Drain Waterproofing Ancillaries	186
Plaster Drain Waterproofing Membranes	186
Plastic Membranes	35
Plastic Spacers	73
Plastic Stoppers	91
Polo Shirt	259
Polyester Anchor Grouts	48
Polymer Concrete Channel	37
Polystyrene Dissolver	88
Polythene	19, 154-155, 239
Polythene DPM	19
Position Couplers	122
Preprufe® 160 Flex, 800PA	179
Preprufe® Plus, SC1	180
Preprufe® Tape LT	181

Preprufe® Waterproofing Ancillaries	180-181
Preprufe® Waterproofing Membranes	181-183
Profiles	217
Proofex 3000, 3000MR	169
Proofex Angle Fillet	172
Proofex Cavity Drain	170
Proofex Engage	170
Proofex Engage Detail Strip	173
Proofex Hydromat, Hydromat Powder	171, 197
Proofex LM	174, 201
Proofex LM Mesh	174
Proofex Primer	172
Proofex Protection Board	174
Proofex Sheetdrain	171
Proofex Top Hat	173
Proofex Total Membrane	8
Proofex Total Tape	173
Proofex Waterproofing Ancillaries	172-174
Proofex Waterproofing Membranes	169-172
Protect GDB10 Universal Barrier	15
Protection Board	18, 245
Protection Caps	84
Protection Materials	238-249
Protection Tapes	241, 248

R

Radon Sump	14
Rainsuit	259
Rakes	161
Reelfix Rapid System	72
Regupol	38-39
Reinforcement	111-119
Reinforcement and Formwork	62-167
Reinforcement Continuity Systems	115
Reinforcement Mesh	111
Reinforcing Bar Couplers	121-125
Renderoc Plug	224
Respirator	264
RIW Cavity Drain	187
RIW Waterproofing Ancillaries	188-189
RIW Waterstop	216
Rollers & Trays	252
Ronafix	236
Ronafix Mix Design	238
Ronafloor Concrete Dustproof	151
Root and Weed Barriers	31-32
Rubble Sacks	257

S

Safecure Standard	146
Safecure Super	147
Safelease	145
Safetard Liquid	141
Safetard Gel	142
Safety Barrier	63
Safety Boots	260-261
Safety Goggles	264
Safety Head Protection	264
Safety Trainers	261
Sanitary Ware Protection	246
SBR Bond	235
Screed Chairs	107
Screed Isolation	38
Screed Rails & Accessories	102-108
SD225	138
Sealant	158
Sealing Compound	198
Sealing Tape, Rope	188
Secugrid	23
Seekure FR	244
Serviseal	211
Servitite	211
Set Up Equipment	63
Shear Load Connectors	127
Sheetseal GR	15
Sheetseal Primer	184
Sheetseal Waterproofing Ancillaries	184-185
Sheetseal Waterproofing Membranes	184
Shims	77, 85
Side Slab Seal	110
Sika 1	232, 236
Sika 2, 3, 4 & 4A	235
Sika Anchorfix-1, Anchorfix-2	50
Sika CureHard 24	151
Sika Damp Proofing Slurry	231
Sika Dustproof	151
Sika Grout	45
Sika Injectoflex	223
Sikadur 42	47
Sikafloor	152-153
SikaSwell	222
SikaTop	231
Silicone Sealant	158
Slabdrain Waterproofing Ancillaries	195
Slabdrain Waterproofing Membranes	194
Slope Guard	26

Slump Cone	64,257
Spacers	76-77
Spiked Roller, Shoes	257
Square Dowel Bar & Sleeve System	81
Squeegee	257
Staple Gun	199
Steel Anchors	55-58
Steel Kickers	70
Steel Pins	63
Structureseal Waterproofing Ancillaries	198-199
Structureseal Waterproofing Membranes	198
Studding	58
Supercast	206-209
Support Clip	74-75
Swellseal	218-220
Swelltite	215
Synaprufe	205

T

Tape Guns	256
Tapes	256
Tarmac Plaster	235-236
Tarpaulins	242
T-Bar	109
Tell-Tale	159, 166, 251
Temporary Protection	154-156
Temporary Rainwater Downpipe	155, 240
Thermometer	158, 166, 251
Thoro Acryl 60	228
Thoro Waterplug	223
Thoroseal	228
Threaded Studding, Washers, Nuts & Connectors	58
Thru Sleeve, Cones	90
Tie Bar System	89
Tiefill	91
Tools	256-257
Top Hat Units	14
Toughseal	204
Track Spacer	77
Tree Root Protection	29
Tric Trac Spacer	77
Trousers	258
Trowels	162-163
Turfguard	30
TwinShield	18,245
TwinShield Cill Protector	247
Tying Wire	71-72

U

Unirail	103-104
Uraswell Waterstop	215

V

V System	132
Vandex	232-233
Vandex Plug	224
Visqueen Gas Barrier Ancillaries	13-14
Visqueen Gas Barrier Systems	9-12
Visqueen Liquid Gas Membrane	202
Void Formers	7, 108-110
Voltex	196

W

Water Plates	89
Walldrain Waterproofing Ancillaries	195
Walldrain Waterproofing Membranes	194
Washers	58,201
Waterproofing	168-237
Waterproofing Membranes	169-195
Waterstop	198
Waterstops & Waterplugs	206-224
weber.cem Grout	42
weber.tec acrylic sealer	154
weber.tec Anchor Grout, Grout FG	49-50
weber.tec EP Pourable Grout	47
Wheel Spacers	73
Wing Nuts	89
Wire Brush	158
Wire Spacers	65-67
Work Wear	258

X

X Cramps	185
XHD Hydrofoil	209

Z

Zedex CTP High Performance DPC	13
--------------------------------	----

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We now do business in the Middle East. For full branch details see page 275.

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