



The Specialist Supplier of Construction Solutions



PRODUCT CATALOGUE

QUALITY PRODUCTS AND RELIABLE SERVICE

Steel Reinforcement

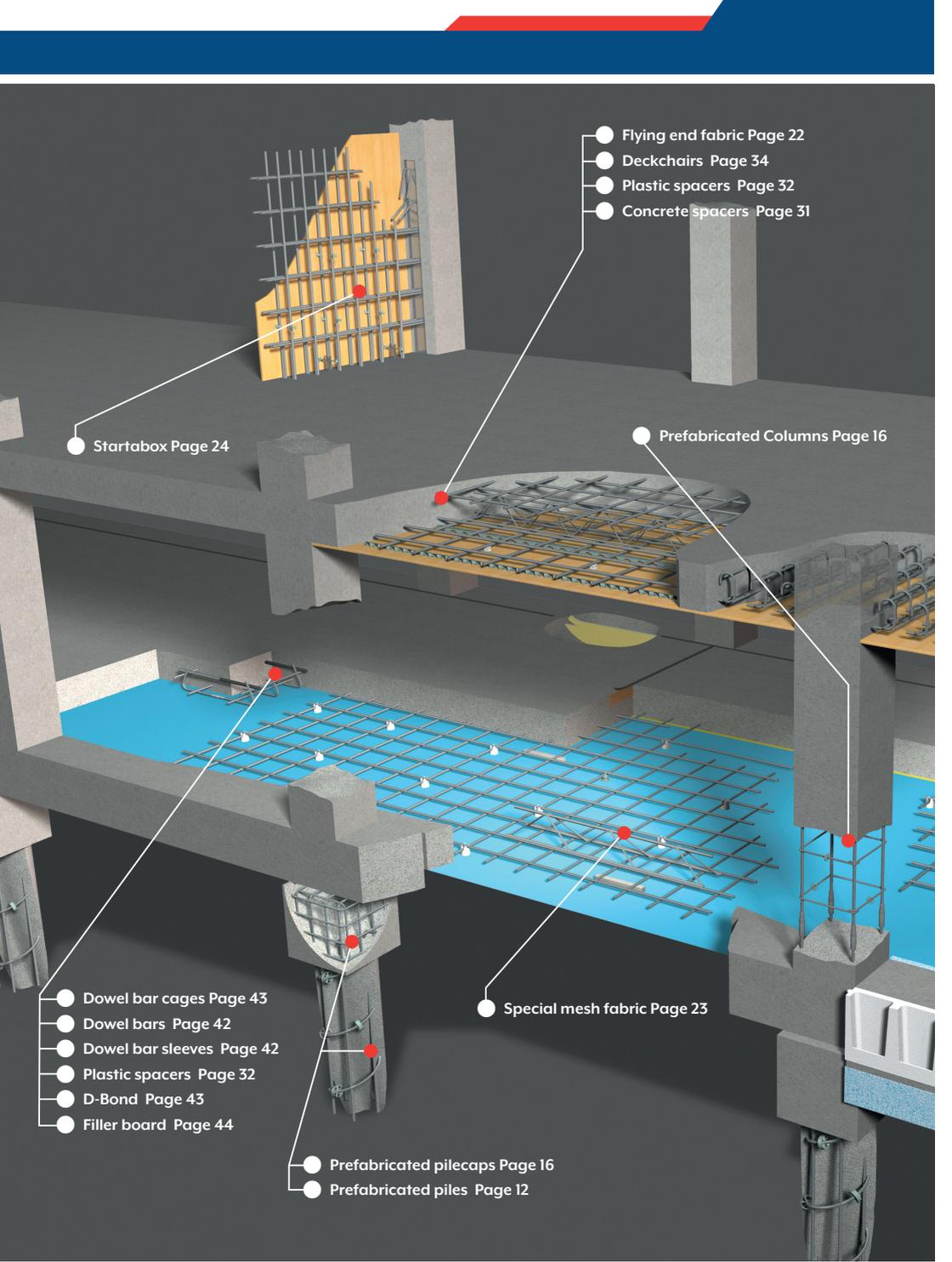
Fabric Mesh

Prefabrication Service

Specialist Piling Division

Engineered Solutions

Construction Accessories



- Flying end fabric Page 22
- Deckchairs Page 34
- Plastic spacers Page 32
- Concrete spacers Page 31

● Startabox Page 24

● Prefabricated Columns Page 16

- Dowel bar cages Page 43
- Dowel bars Page 42
- Dowel bar sleeves Page 42
- Plastic spacers Page 32
- D-Bond Page 43
- Filler board Page 44

● Special mesh fabric Page 23

- Prefabricated pilecaps Page 16
- Prefabricated piles Page 12

Intro and Information

About Us	4
Certification	5
Sustainability	6
BIM	8

Reinforcement Products

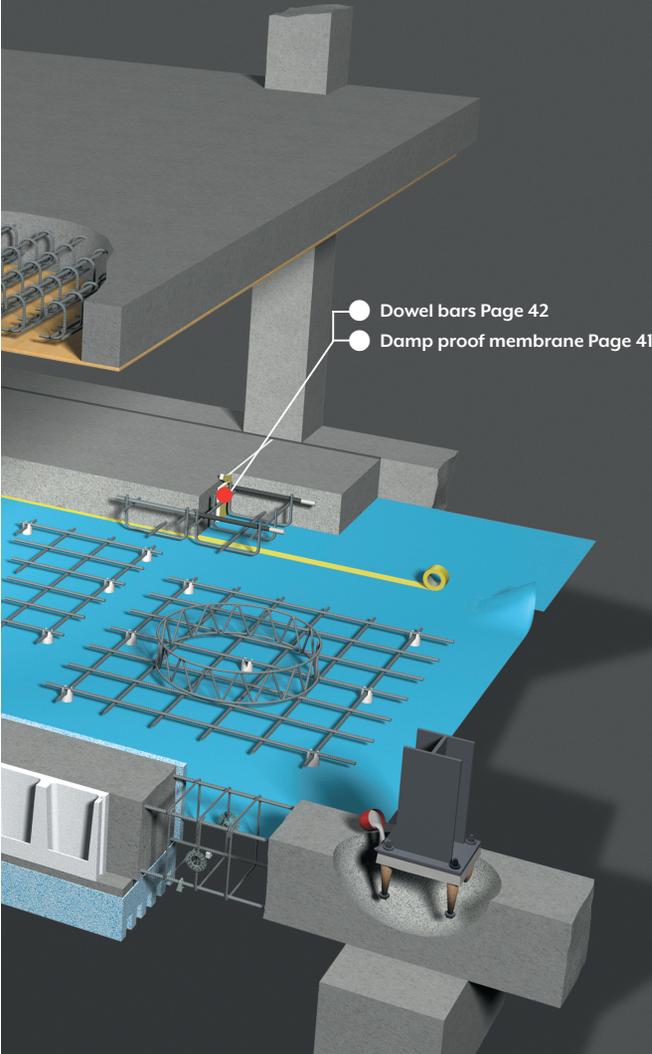
Rebar	9
Piling	12
Prefabrication	16
Carpet Reinforcement	17
Permanent Framework	18
Fabric Mesh	20
Flying End Mesh	22
Special Mesh	23
Startabox	24
Shear Rails	27
Couplers	28
Remedial Couplers	30

Reinforcement Accessories

Spacers	31
Tying Wire	36
Protection Products	38
DPM Polythene & Tapes	41
Dowel Bar Products	42
Joint Products	44
Screed Rail & Chairs	46
Other Groundwork Accessories	48
Formwork Accessories	49
Column Formers	54

Additional Products

Chemicals	55
Waterproofing	58
Ground Gas Protection	62
Grouts, Mortars & Resins	62



About Us

Rom Reinforcement were formed in 1920 and since that time have been a leading force in the design, development and supply of steel reinforcement to the UK Construction Industry. Today the group operates on a national level with 6 sites giving exceptional coverage across all areas of the United Kingdom and Ireland. It offers a wide range of reinforcement products and services and prides itself on focusing on Safety, Quality and Service for our customers.

At ROM Group our aim is to deliver the highest levels of customer service and value across a range of steel reinforcement products and accessories. We focus on continuous improvement in every area to ensure that our staff and processes are always developing.

Safety and sustainability are our top priorities and their principles are embedded into our company culture. We have full CARES product conformity certification as well as Eco-Reinforcement and BES 6001 responsible sourcing certification ensuring that our products will always meet the most stringent specifications for any project or client.



ROM Ltd are a leading supplier of steel reinforcement products and services to the construction industry. With excellent national coverage we proudly supply the civil and building industries throughout the UK. In addition ROM Ltd also proudly supports builders merchants and steel stockists across the country.



ROMTECH, the piling specialists, are a market leader in pre-fabricated pile cages. Our in-house experts oversee the production of all orders from drawing to dispatch, keeping our customers informed every step of the way. We also have a patented Safe Splice system giving confidence in the fixing and safety of assembled cages on site.



We want our customers to think first of ROM and join us in collaboratively promoting best practice in our industry.

ROM have always adopted a systematic approach to the management of quality assurance, health & safety and environmental issues within the business, with a comprehensive suite of documented management systems to support this. ROM has looked to third party accreditation as recognition of this systematic approach, having been approved to ISO 9001 for over 30 years and ISO 14001 and OHSAS 18001 for almost 10 years. In addition where applicable ROM have sought product conformity approval for the products it supplies.



ALL Rom Group facilities are CARES Certified for BS EN ISO 9001 for Quality, BS EN ISO 14001 for Environmental, BS EN ISO 18001 for Safety.



The BRE standard BES 6001 has been published to enable construction product manufacturers to ensure and then prove that their products have been made with constituent materials that have been responsibly sourced. The standard describes a framework for the organisational governance, supply chain management and environmental and social aspects that must be addressed in order to ensure the responsible sourcing of construction products.



Eco-Reinforcement is a third-party certification scheme which assesses and recognises responsibly sourced reinforcing steel products. It has been developed as a sector-specific standard which complies with the requirements of BRE's BES 6001 Framework Standard for the Responsible Sourcing of Construction Products.

The Eco-Reinforcement scheme provides and assesses sustainable impacts throughout the reinforcing steel supply chain i.e. from raw material through to construction site. The certifiable organisations within the supply chain are the steel mill and fabricator. Each receives a rating, and each has responsibilities within the supply chain.



The British Association of Reinforcement (BAR) is a trade association for all UK manufacturers and fabricators of steel reinforcement products including cut, bent bar and mesh.

BAR aims to add value to the reinforcement industry through market development, product innovation, provide technical support, promote good industry and health and safety practice and promote the development of the reinforced concrete industry as a whole.

BAR is a member of CARES and all BAR members are CARES approved firms.

Sustainability

At the Rom Group we understand and believe in the increased focus on Sustainability within the UK Construction Industry.

All of our material is 100% sourced from within the UK. As well as having Eco-Reinforcement & BES6001 certification we ensure we use the most responsibly sourced and sustainable product that can be supplied to you.

ROM supplies cut and bend rebar to BS4449, and fabricated to BS8666 from 98% recycled raw material.

We supply B500C grade as standard, giving the highest quality of material at competitive rates with no compromise.

All our rebar is easily identified as being produced in the UK.



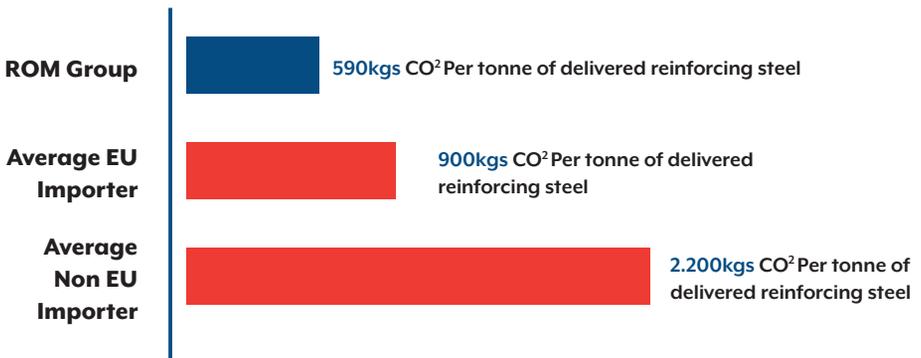


100% UK sourced with a 98% recycled content.



Our reinforcing steel has a carbon footprint that is 4 times less damaging to the environment than some imported reinforcing steel.

Carbon Footprint Performance



For easy on-site identification UK is rolled into the surface of all our reinforcing steel.



BiM - Building Information Modelling

What is BIM? - Building Information Modelling or BIM is set to revolutionise the Construction Industry, by embracing BIM you have the opportunity to put your business ahead of the game and start reaping the rewards from this exciting new era of collaboration and efficiency in construction and building operation, ROM Group are here to assist with your BIM projects.

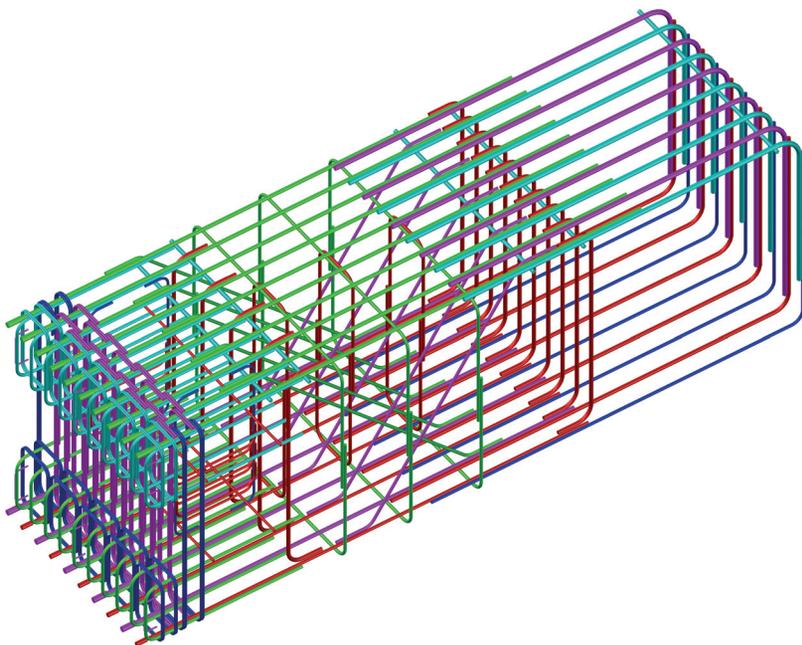
BIM is defined as processes using technology to make cost, efficiency, and carbon savings in the design, construction, handover and operation of buildings and projects. The UK Government defines BIM as a central source of open shareable asset information, ROM Group utilises the latest technologies in design and manufacture to help meet these objectives.

BIM require that all parties engage early in the project and this allows us to develop the most efficient reinforcing steel layouts and pour programs to achieve the most cost benefit for our clients. By utilizing 3D software, ROM Group is able to work with you to develop solutions capable of providing enhanced information for import into any Building Information Model.

ROM Group has a technical department with many years of experience consisting of engineers and 3D detailers that can assist you in your design, provide placement schedules and develop off site prefabrication solutions for your current or next project.

A key element when using 3D detailing software is the ability to identify and prevent clashes of steel and engineer out any Health and Safety issues before they arrive on site.

BIM is now mandatory on all public sector contracts in the UK and this applies to the complete lifecycle of the building. This represents a great opportunity for businesses to increase revenue by embracing and utilising BIM practices to push themselves to the forefront when dealing with public sector contracts, ROM group are compliant with BIM and are currently utilising the concepts of BIM when discussing designs with our clients.



Reinforcing Steel Bar

High Yield Reinforcing bar BS4449:2005 in diameters 10mm to 40mm.

All fabricated rebar conforms to BS8666:2005.

8mm and 50mm are non preferred sizes that may be available on special order.

Reinforcement Bar Technical Data

Properties of high yield bars

Size (mm)	10	12	16	20	25	32	40
Dims (max O/A mm)	12	14	19	23	29	37	46
Mass (kg per m)	0.617	0.888	1.58	2.47	3.85	6.31	9.86
Metres per tonne	1621	1126	633	405	260	158	101

Radius Bending

Reinforcement to be formed to a radius exceeding that specified in the table below shall be supplied straight. The required curvature may be obtained during placing. For shapes with straight and curved lengths (e.g. shape codes 13 and 33) the largest

practical radius for the production of a continuous curve is 200mm, and for larger radii the curve may be produced by a series of short straight sections.

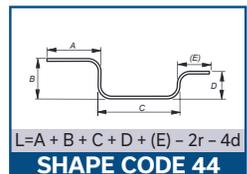
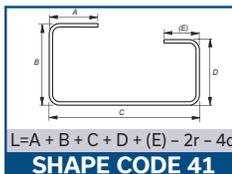
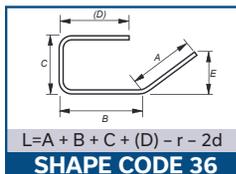
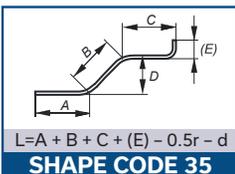
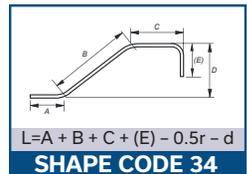
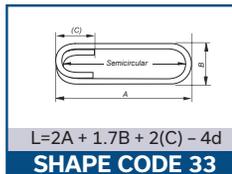
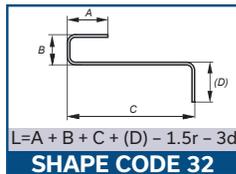
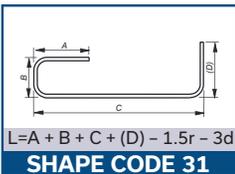
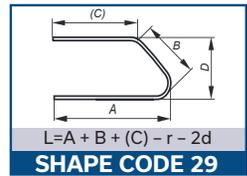
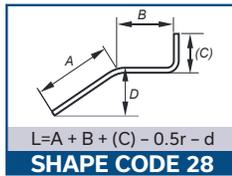
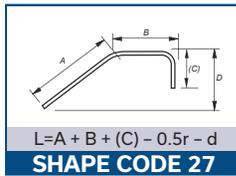
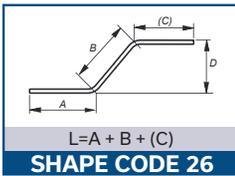
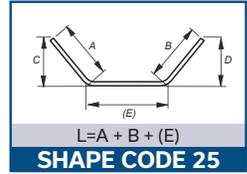
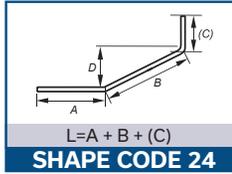
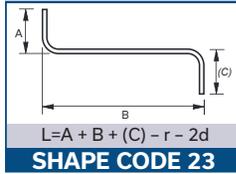
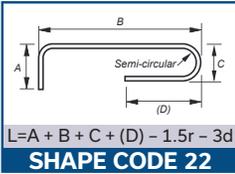
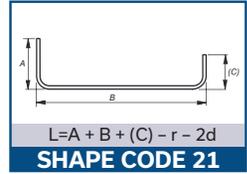
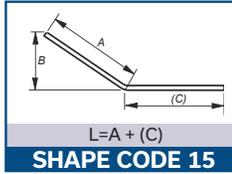
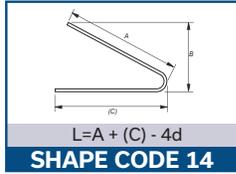
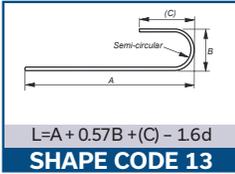
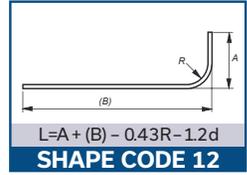
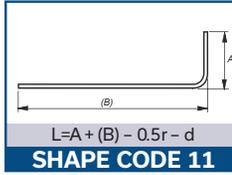
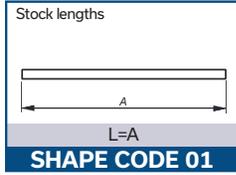
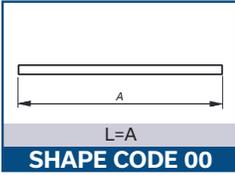
Size (mm)	10	12	16	20	25	32	40
Radius	3.50	4.25	7.50	14.00	30.00	43.00	58.00

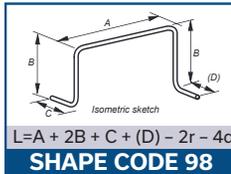
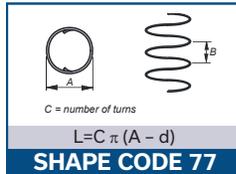
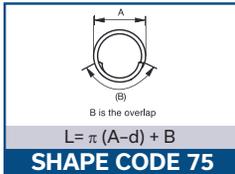
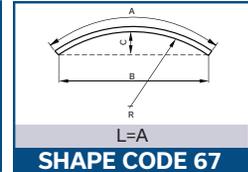
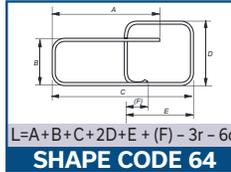
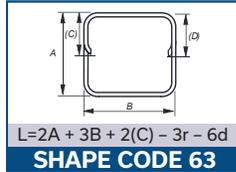
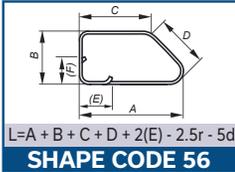
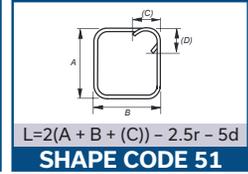
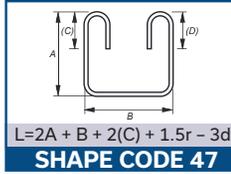
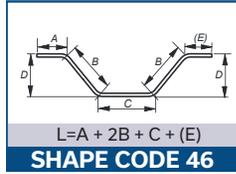
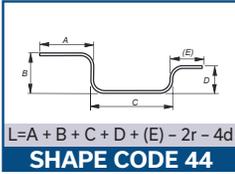
Cutting and Bending Tolerances

The tolerances for cutting and/or bending dimensions shall be in accordance with the table below and shall be taken into account when completing the schedule.

Cutting and Bending Tolerances (mm)		
Straight lengths (including reinforcement for subsequent bending)	+25 -25	
Bending	<1000mm	+5 -5
	>1000mm to <2000mm	+5 -10
	>2000mm	+5 -25

Reinforcement Shape Codes





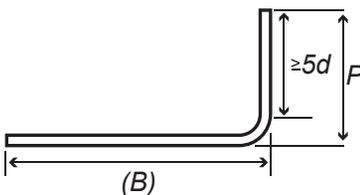
Properties of high yield bars

Size (mm)	10	12	16	20	25	32	40
Dims (max O/A mm)	12	14	19	23	29	37	46
Mass (kg per m)	0.617	0.888	1.58	2.47	3.85	6.31	9.86
Metres per tonne	1621	1126	633	405	260	158	101

All other shapes are Shape Code 99 and require fully dimensioned sketches.



Table of minimum dimensions



Nominal size	Minimum radius for scheduling	Minimum diameter for bending former	Minimum end projection (P)	
			General (min. 5d straight)	Links where bend <150° (min. 10d straight)
6*	12	24	110	110
8*	16	32	115	115
10	20	40	120	130
12	24	48	125	160
16	32	64	130	210
20	70	140	190	290
25	87	175	240	365
32	112	224	305	465
40	140	280	380	580
50*	175	350	475	725

*6mm, 8mm & 50mm are non-preferred sizes available to special order

Ground Engineering Solutions

Formed in 2000, Romtech are the UK's leading specialist in reinforcement products and services to the Piling and Ground Engineering Industries.



Piling

ROMTECH piling understands the needs of piling contractors. The absolute requirement to meet deadlines to avoid standing piling rigs and crews, along with conflicting difficulties in obtaining precise initial design information required for a manufacturing start up.

ROMTECH is well versed and experienced in operating within this demanding environment. It offers one-stop shopping for all your existing piling reinforcement needs along with a unique service to develop new product lines and so meet the challenge of the future.

Products and services include:

- Factory prefabrication pile cages
- Loller compliant lifting gear
- Cage formers
- Technical Support
- Cage site-assembly packages
- Pile cage accessories
- Fabrication drawings



piling@rom-tech.co.uk

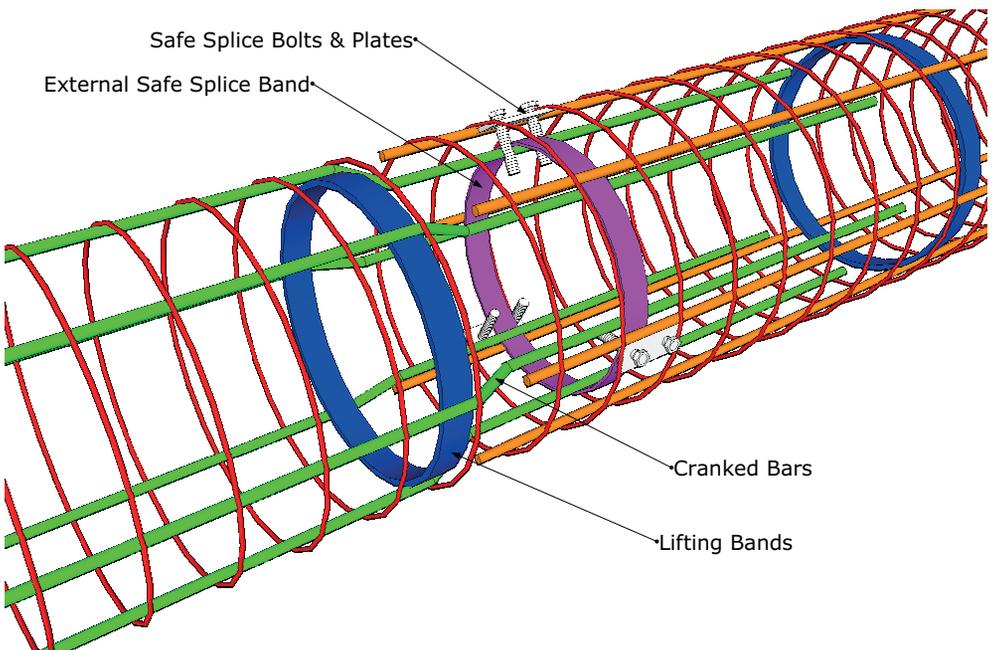
Safety-Oriented Pile-Cage Fastening Systems

- Simple, Rapid installation using mechanical wrench.
- Operators hands kept clear of cage through socket extension.
- ROMTECH design service integral with cage supply.
- Pile cage fittings factory welded to BS 7123 in compliance with UK CARES Certificate no. 871001.
- Bolt Range and corresponding test strength availability is:-



Bolt Size [mm]*	M16	M20	M24	M27	M30
Proof Test Strength per Bolt [kN]	60	80	100	130	170
SWL per Bolt [kN]	20	25	33	43	56

*Based on Grade 8.8 steel



Safe Splice is a patented system to allow the safe connection of pile cages on site.

The traditional method of using U bolts has long been deemed highly dangerous with the operator having to put their hands inside trapping off bars and suspended pile cages.

Since its introduction Safe Splice has now been used on numerous large projects to remove this risk providing our customers a safe and speedy method for this process.

Further Piling Products

Romtech also offer a full range of piling and geotechnical products and solutions.

These include:

- Pile Mats
- Cage Feet
- Threaded Bar
- DCP Anchors
- Bull Dog Clips



Tunnelling and Mining

ROMTECH are the UK's major manufacturer of tunnel lining reinforcement products, supplying major products that include Channel Tunnel, Dublin Port Tunnel, Heathrow Express Tunnels, Copenhagen Metro, Jubilee Line Tunnels etc.

Products and services include:

- Lattice girders.
- Segmented cages.
- Shotcrete mesh.
- Rock Dowels.
- Spiles.
- Self drilling spiles.
- Radius ladder support frames.
- Technical Support.



To accompany our range of products we are able to offer our customers first class levels of service together with an innovative approach to problem solving and product design, always being fully responsive to ever changing requirements.

Quality is essential in an environment as critical and as potentially dangerous as the construction site, we therefore ensure the highest level of quality through third party certification and our in house QA staff. We pride ourselves in driving health and safety issues to the top of our agenda, ensuring continuous improvement whilst providing solutions to improve safe working practices on site.

ROM Prefabrication Service



ROM offers a complete offsite reinforcement prefabrication service that produces finished cage or mat assemblies delivered, ready for placing in position on site.

The prefabricated units are designed by ROM in conjunction with the customer to ensure compatibility on site. Assemblies can be Mig welded or wire tied with additional reinforcement if required to ensure that the integrity of the assembly is maintained during transportation and placing on site.

Quality Assurance

All ROM prefabrication facilities, materials and welders are fully CARES approved. Our facilities, materials and operatives are independently audited on a regular basis to ensure the correct procedures are complied with.

Key Benefits:

- 1/ Removes Steel fixing from the critical path
- 2/ No need for large steel lay down/work area
- 3/ Continuity of manufacture regardless of weather conditions
- 4/ Cost Savings – Less labour required, less time fixing on site, less time for plant
- 5/ All drawings checked prior to production. Any errors or late revisions can be rectified before material gets to site avoiding costly on site delay
- 6/ Improved safety through reduced movement of material
- 7/ Assemblies supplied with labels and location plan for ease of identification and placement



Ideal For:

- Ground beams
- Pile caps
- Diaphragm wall cages
- Columns
- Beams
- Heavy diameter one way / two way mats etc.

Carpet Reinforcement



Onsite efficiency and health and safety benefits.

Carpet reinforcement is a cost-effective way of laying reinforcement in medium- to-large uninterrupted floor expanses. Supplied in roll form, this one-directional carpet is simply rolled out into place and a second layer overlaid at a 90 degree angle.

This method of reinforcement placement can reduce installation time by up to 80%. In addition to this, the use of carpet reinforcement reduces the need for excessive manual handling and steel fixing on site

ROM can supply welded and non welded carpet reinforcement in multiple rebar diameters, mat lengths and widths

Available in 10mm to 40mm rebar in lengths upto 14 metres.

Permanent Formwork

Permanent Formwork

Rom offers a range of formwork solutions for the construction of in situ ground beams, pile caps and pad foundations.

Polyform

Our Polyform System is manufactured from twin wall polypropylene sheet which can be supplied pre-formed to customers dimensions or in standard sheets for fabrication on site. Our Polyform is available in 3 different grades.



For both of these permanent formwork systems, a complete service from initial site

Key Benefits:

- Significant time benefits against traditional shuttering
- Provides exceptional control over concrete volumes against 'pouring to the dig'
- Reinforcement placed prior to Permanent Formwork

Paceform

Our Paceform System comprising a steel mesh fully encapsulated in heat shrunk polythene, which is supplied in a pre-formed sections to suit project requirements.



consultation and material scheduling, through to quotation and delivery is provided

- Lightweight and easily positioned by one man
- No Specialist Equipment required
- Easy to Estimate Quantities
- Available Ex Stock

Fabric Mesh

Fabric Mesh

At the ROM Group we manufacture our own mesh to BS4483:1998 and BS4483:2005
It is fully CARES approved and is available in a number of formats:

- Standard Fabric
- Flying End Fabric
- Econ Mesh
- Special Fabric
- Merchant Size (3.6m x 2.0m)



Mesh Grab

For safe offloading of fabric mesh reinforcement

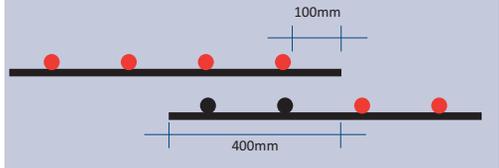
- Eliminates working at height Issues
- No need for access to vehicle bed
- No need for use of ladders to attach chains or sling



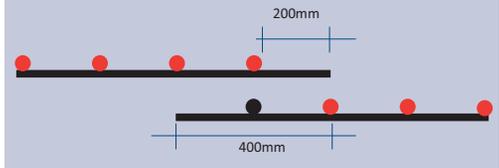
Econ Mesh

Reduces redundant steel at lap area by 50%

Standard Mesh



Econ Mesh



Please give us a call for more details of this product.

Standard Fabric Chart (sheet size 4.8m x 2.4m)

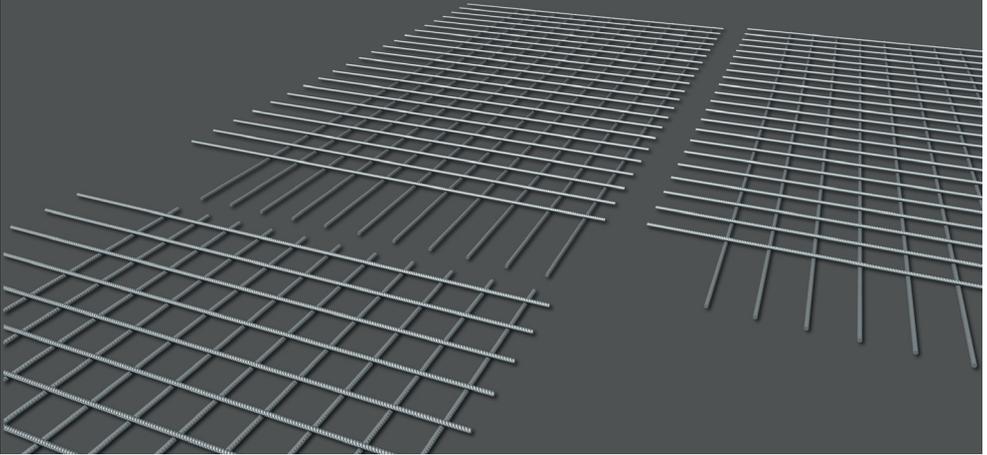
BS Reference	Mesh Size Nominal Pitch of Wires		Wire Sizes		Cross Sectional Area per Metre Width		Nominal Weight per M ² (Kg)	Sheets per Tonne (approx)	Sheet Weight (Kg)	Sheets per Bundle	Square Metres per Tonne
	Main	Cross	Main	Cross	Main	Cross					
SQUARE											
A 393	200mm	200mm	10mm	10mm	393mm ²	393mm ²	6.16	15	70.96	20	162.34
A 252	200mm	200mm	8mm	8mm	252mm ²	252mm ²	3.95	22	45.50	30	253.16
A 193	200mm	200mm	7mm	7mm	193mm ²	193mm ²	3.02	29	34.79	40	331.13
A 142	200mm	200mm	6mm	6mm	142mm ²	142mm ²	2.22	40	25.57	50	450.45
STRUCTURAL											
B 1131	100mm	200mm	12mm	8mm	1131mm ²	252mm ²	10.9	8	125.57	10	91.74
B 785	100mm	200mm	10mm	8mm	785mm ²	252mm ²	8.14	11	93.57	14	122.85
B 503	100mm	200mm	8mm	8mm	503mm ²	252mm ²	5.93	15	68.31	20	168.63
B 385	100mm	200mm	7mm	7mm	385mm ²	193mm ²	4.53	20	52.19	30	220.75
B 283	100mm	200mm	6mm	7mm	283mm ²	193mm ²	3.73	24	42.97	30	268.10
LONG											
C 785	100mm	400mm	10mm	6mm	785mm ²	71mm ²	6.72	13	77.41	20	148.81
C 636	100mm	400mm	9mm	6mm	636mm ²	71mm ²	5.55	16	63.94	20	180.18
C 503	100mm	400mm	8mm	6mm	503mm ²	71mm ²	4.51	20	51.96	30	221.73
C 385	100mm	400mm	7mm	6mm	385mm ²	71mm ²	3.58	25	41.24	40	279.33
C 283	100mm	400mm	6mm	6mm	283mm ²	71mm ²	2.78	32	32.03	50	359.71
WRAPPING											
D 49	100mm	100mm	2.5mm	2.5mm	49mm ²	49mm ²	0.77	129	7.76	50	1298.70

MERCHANT SIZES (3.600 X 2.000)											
A 393M	200mm	200mm	10mm	10mm	393mm ²	393mm ²	6.16	15	70.96	20	162.34
A 252M	200mm	200mm	8mm	8mm	252mm ²	252mm ²	3.95	22	45.50	30	253.16
A 193M	200mm	200mm	7mm	7mm	193mm ²	193mm ²	3.02	29	34.79	40	331.13
A 142M	200mm	200mm	6mm	6mm	142mm ²	142mm ²	2.22	40	25.57	50	450.45
B 785M	100	200	10	8	785	252	8.14	17	58.61	14	122.85



**Don't compromise on cover
Fabric without the overlap congestion.**

To BS4483 Type 2 wire profile
in both A & B Types



Standard Fabric Congestion at Laps



Even when staggering laps, you cannot avoid at least a 3 layer build up.

Flying End Fabric Nested Lap



No congestion, even where 4 sheets meet.

Available in Types:

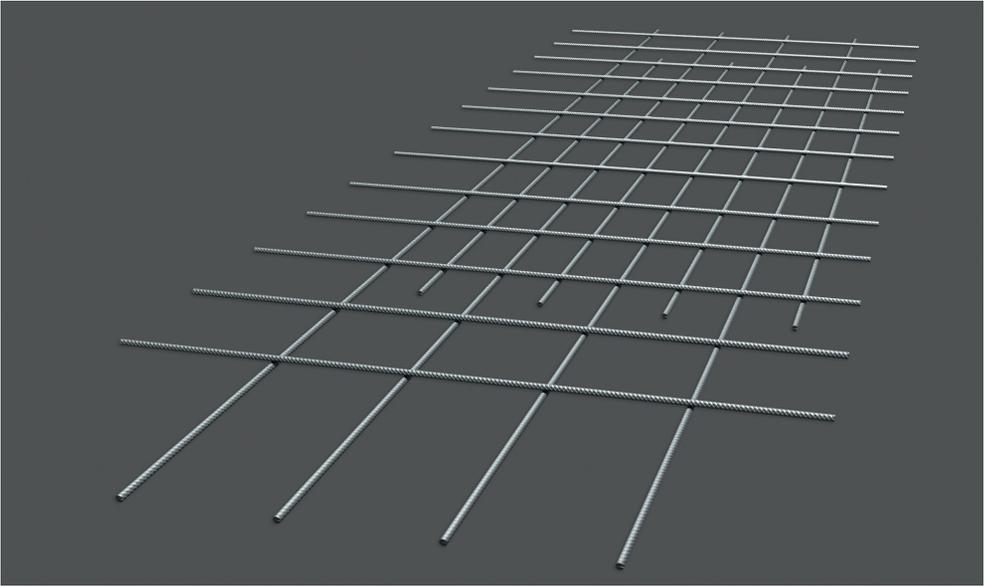
A Range	B Range
A393	B1131
A252	B385
A193	B503
A142	B785

All with splices to enable minimum lapping 40 x bar dia

Particularly beneficial:

- Where standard fabric is specified as a structural reinforcement.
- In thin topping slabs on permanent metal & precast decking





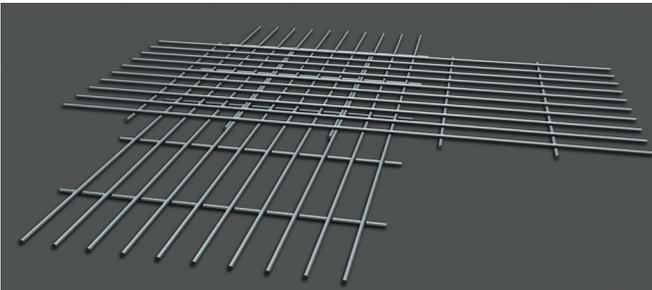
Available as Standard Fabric in Bespoke Sheet Sizes

OR

6mm to 12mm Bar at Non Standard Centres in Bespoke Sheet Sizes

Key Benefits:

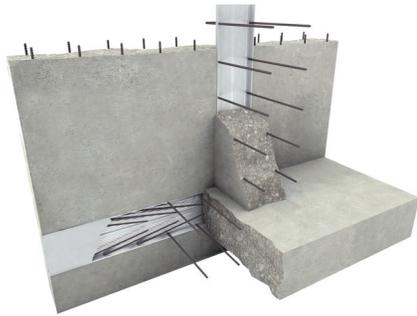
- Full Detailing Service Supplied with lay down Drawings
- Reduction In wastage and labour for sheet cutting
- No Cranage for Placement – Man Handleable Sheet sizes
- Minimal Wire Tying required
- Accurate location of bars
- Avoid steel congestion through design of nesting end laps



Startabox® - Reinforcement Continuity System

The concept and use of reinforcement continuity strip systems or 'pull-out bar' systems has been widespread in Europe and further over the last 30 years, and is a widely accepted means of providing reinforcement continuity across construction joints in concrete. The system utilises the concept of overlapping reinforcement to provide a connection.

ROM has been involved in manufacturing this product type since the inception and has over 30 years of manufacturing experience. The Startabox system provides a safe and cost effective method with time and labour saving factors. The system is designed and custom made utilising the engineer's original reinforcement detail.



The Startabox system consists of specially selected, high yield reinforcing steel, housed in a fully perforated and hot dip galvanised carrier unit. The unit ends are sealed to prevent the ingress of concrete. The reinforcement used is **CARES Approved** and cut and bent to conform to BS8666. The system is assembled in a BS EN ISO 9001 factory environment and the full system carries a **CARES Technical Approval**.

The product design ensures fast and easy fixing by nailing to the formwork or tying to the existing reinforcement. Bars are quickly bent out using the specifically designed re-bend tool.

When compared to traditional methods, the product offers a cost saving by means of a less labour intensive installation process and a simplification of formwork.

The units are used on site by nailing to formwork, prior to a concrete pour. Alternatively, units can be wire tied to the main reinforcement arrangement. After concrete is poured and the formwork then struck, the lid is removed to provide the connection or overlap bars. The bars are bent out of the case to provide an overlap connection to the main reinforcing steel and next concrete pour. The case design offers an efficient key and rebate and requires no further joint preparation. The perforated casing ensures that the product remains embedded in the structure when striking the formwork and concrete and case become a composite material. The case remains in the joint and is filled with concrete on the subsequent concrete pour. The reinforcement used is CARES Approved and cut and bent to conform to BS8666. The system is assembled in a BS EN ISO 9001 factory environment and the full system carries a CARES Technical Approval.

Most joints in concrete, on many different types of construction site, have the potential to be formed using Startabox. Startabox has been supplied to high rise commercial buildings, water treatment plants, hospitals, prisons, energy from waste facilities and many more types of construction site.

Typical Joint Applications

- Walls
- Brick Support Nibs
- Corbels
- Floor Slabs Corbels
- Balconies
- Launder Channels
- Stair Landings
- Precast Slab Interfaces
- Cantilever Slabs
- Stairway Applications

Installation

1. A startabox unit is installed by firstly nailing through the casing to the shutter face. The casing is annealed at points to make this operation easier.
2. With the Startabox unit securely in place, concrete can be poured and the entire unit will become part of the first pour of the concrete structure.
3. With the formwork struck, the Startabox lid and endcaps can now be removed and discarded. The lap bars contained inside the case will now be revealed for rebending.
4. With the Startabox case now opened, the lap bars can be bent out using the correct tool and following the rebending procedure.



Startabox® - Standard Reinforcement Continuity System

Although most Startabox units are made to order using the engineers original rebar details, there are occasions when time pressures do not allow this and a quicker supply is required. Last minute drawing changes or rescheduling of pour sequences can require another solution.

For this reason, a full range of Startabox standard units are kept in stock for rapid dispatch. The range covers a wide variety of wall and slab thicknesses and caters for the most popular bar diameters and bar centres. Standard units can be easily ordered using the relevant stock code below.

- Standard units containing 12mm rebar are supplied with 500mm lap bars.
- Standard units containing 16mm rebar are supplied with 650mm lap bars.

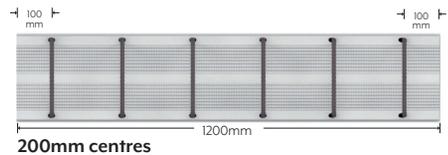
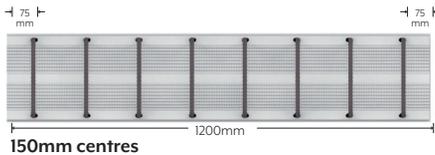


Single Leg Hook Bar



Double Leg 'U' Bar

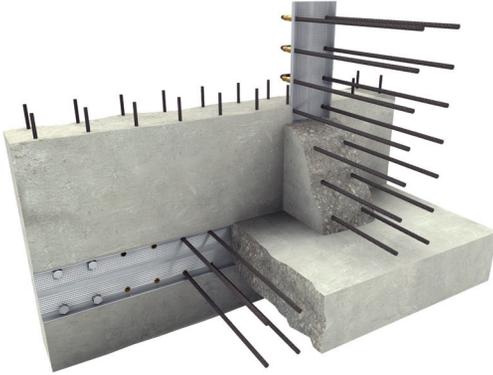
Bar Spacings



Item Code	Box Width (mm)	Bar Dia (mm)	Bar Centres (mm)	Lap Length (mm)	Single Hook Bar	Double 'U' Bar	Box Length (mm)	Pack Size
KH08102S801215	80	12	150	500w	✓		1200	Each
KH08102S801220	80	12	200	500	✓		1200	Each
KH08102S111215	110	12	150	500		✓	1200	Each
KH08102S111220	110	12	200	500		✓	1200	Each
KH08102S111615	110	16	150	650	✓		1200	Each
KH08102S111620	110	16	200	650	✓		1200	Each
KH08102S141215	140	12	150	500		✓	1200	Each
KH08102S141220	140	12	200	500		✓	1200	Each
KH08102S161215	160	12	150	500		✓	1200	Each
KH08102S161220	160	12	200	500		✓	1200	Each
KH08102S191215	190	12	150	500		✓	1200	Each
KH08102S191220	190	12	200	500		✓	1200	Each
KH08102S191615	190	16	150	650		✓	1200	Each
KH08102S191620	190	16	200	650		✓	1200	Each
KH08102S241215	240	12	150	500		✓	1200	Each
KH08102S241220	240	12	200	500		✓	1200	Each
KH08102S241615	240	16	150	650		✓	1200	Each
KH08102S241620	240	16	200	650		✓	1200	Each

Couplerbox® - Reinforcement Continuity System

The Couplerbox is a combination of the Startabox perforated case assembly and rebar coupler system, in a single unit. It has been developed to offer a rebar continuity system for larger bar diameters and where a high concentration of reinforcement or other factors prohibit the use of a rebend system, such as Startabox.



Applications

Couplerbox has the potential to be used in many concrete joints requiring a connection for reinforcement. It is especially suited and useful in applications where there is a requirement to fix many coupled bars and where climbing formwork systems are being used. These include:-

- Energy from Waste Facilities
- Slipform Systems
- Water Treatment Works
- Diaphragm Walls
- High Rise Construction
- Composite Floors

The unit is cast in to a first concrete pour to provide threaded connections to the subsequent, adjoining concrete pour. When in use and once the lid is removed, a very neat and keyed joint is produced, requiring no need for scabbling, retarders or jetwashing of the joint. As the Couplerbox is produced in a factory environment, the coupled bars are at the correct bar centres specified and not subject to errors on site.

The system was initially developed to offer a reinforcement continuity product for the areas where a rebend system was being specified, but in a larger bar diameter than possible to produce. Without the requirement to rebend reinforcing bar, diameters of up to 32mm rebar can be produced in the Couplerbox system.

The Couplerbox system has been further introduced to solve the problem of locating rows of individual coupled bars especially with the use of some types of moving formwork systems such as slipform rigs. Coupled bars can become easily displaced and slip back from the concrete surface making location and preparation for future use a time-consuming and costly process, requiring the use of mechanical equipment in a difficult environment. If coupled bars cannot be located, rectification works can be required.

The introduction of the Eurocode 2 building regulations has now seen a requirement for much longer lap lengths, making the use of couplers more economical and restricting the manufacturing possibilities of rebend continuity systems.



Benefits and Advantages

Quality

- Assembled in a factory environment reducing possible fixing errors on site.
- Threads of female couplers are fully protected until required for use.
- Perforated casing offers improved shear connection.
- Couplerbox can be easily stripped ready for use.

Safety

- A lower unit weight compared to a rebend system.
- Perforated casing negates the need for any further joint preparation.
- Ensures no protruding bars until immediately required.

Cost

- No lost couplers due to movement in concrete pours.
- Aids reduced fixing time when compared to the fitting of individual coupled bars.
- Minimises any potential remedial works on site.

Application

- Allows for shorter production units than possible in a rebend system.
- Provides a solution where larger diameters over 16mm are required.
- Units for circular or radiused structures can be produced in a Couplerbox unit.

Sheartech Rail® - Punching Shear Reinforcement

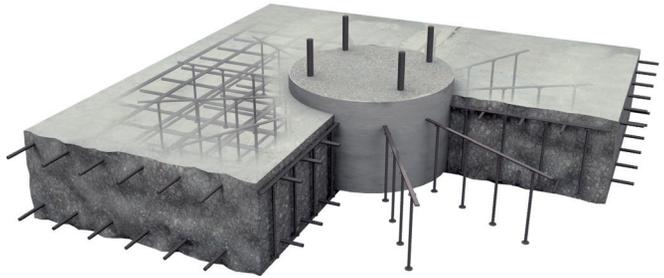
The use of flat slab construction has become increasingly popular in the construction of concrete frame buildings. A flat slab design increases the speed of the construction process by simplifying the formwork system used.

Floor heights can also be reduced offering greater space within the building and leading to more floors for a given building height. Material savings are also seen, as less concrete and associated materials are used.

Flat slab design brings many benefits, however, localised high shear stresses around column heads can be seen in these designs and if additional measures are not taken the weight of the slab can result in the column punching through the slab. In the past punching shear has been relieved by adding further concrete to the building, such as the use of downstand beams or localised thickening around column heads; however these measures require complex formwork and significantly reduce the benefits of the flat slab.

Adding further reinforcement in the form of loose shear links around column heads has been used as a measure to resist punching shear but these links are time consuming and labour-intensive to install and design.

The Sheartech system offers a **CARES Approved** method of providing punching shear reinforcement. The system is fast to install with all component parts prefabricated to allow simple and accurate placement. It has been independently tested, approved and certified by CARES to be fully compliant with the EC2 design code whilst being fully compatible with the outgoing BS8110 design code. The system is manufactured using reinforcing bar; grade B500C to BS4449, with characteristic yield strength of 500 N/mm².

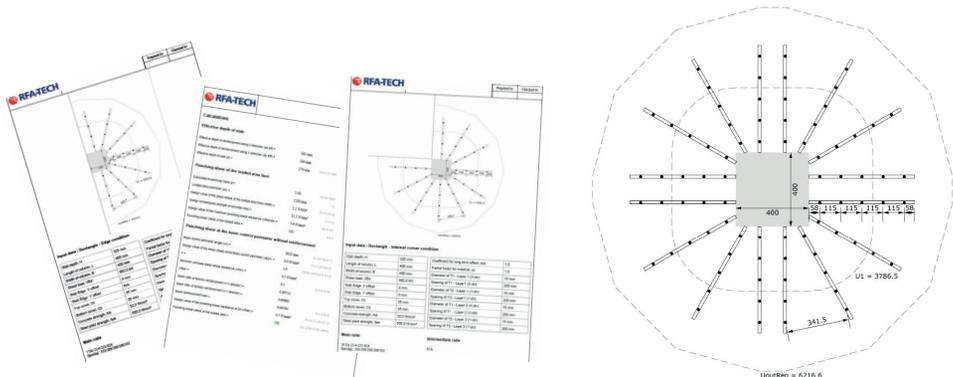


The Sheartech rails are arranged around the column in a calculated and predetermined radial pattern to meet the particular design code specification; the number of studs and rails used being determined by calculations based on the effective depth of the slab.

Sheartech can save ample time on site but can be offset by the calculations and design work an engineer must do to specify the correct design. RFA-Tech Ltd offers **free design software** capable of designing punching shear reinforcement to Eurocode 2 standard in seconds.

Designs can be created for square and circular columns of all sizes and locations. From just the most basic of slab and column details, an easy to read layout drawing and set of calculations can be generated for approval. Full specification codes and dimensions can then be easily integrated into the drawings before work on site starts.

The free design software is available to access at rfa-tech.co.uk; see below for an example of the output provided in PDF format.



LENTON



Taper Threaded Couplers

Most widely used mechanical splicing system in the world.

With experience of over 30 years, LENTON products provide a complete line of full tension and compression mechanical splices.

LENTON couplers are the slimmest couplers on the market for tension and compression.

The unique LENTON self-aligning taper-threaded design provides ease of installation, consistent performance and durability. Couplers also develops higher tensile strength than lap splicing and provides full load transfer with the slimmest and shortest coupler possible.

LENTON couplers are designed for nominal yield values up to 550 MPa and tensile strength values up to 750 MPa.

A completed LENTON splice exceeds the requirements of International Codes including ACI318; AS3600; BS8597; DIN1045; MS146 codes for full tension splices.

LENTON is CARES approved under number TAIC-5003 according BS codes and BNFL for TENSION and COMPRESSION.



Type AI2N - LENTON standard coupler - most widely used to splice bars. Designed to splice the same diameter bars where one bar can be rotated.

LENTON Transition coupler - Equal to AI2N only designed to splice different diameter bars. All combinations available.

Type S13N - LENTON Bolt couplers - provide a full strength joint between a reinforcing bar and a metric 8.8 quality bolt.

Type LENTON Position couplers - Designed to quickly splice two curved, bent or straight bars when neither bar can be rotated. The PI3 is used when the ongoing bar is restricted in its axial direction. Both couplers can be supplied in two pieces for application against formwork. The female thread is corrosion protected and is provided with a plastic screw-in cap.

Also Available....



Ancon[®]
BUILDING PRODUCTS

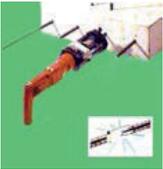
LENTON



LENTON Terminator

Provides an alternative to hooked rebar as the front of the coupler is generously proportioned to carry the full tension load of the rebar when the anchor is bearing against concrete or structural steel.

- Special couplers are available on request like stainless steel couplers or electrolytic galvanized couplers.
- Wide range of accessories are available like: nailing plates, protection caps, bar-end protectors.



ON Site Threading

With the In Situ Threading machine one can cut the LENTON Taper thread on site.

Ideal as problem solver, or at extension of existing structures.



LENTON Interlok

A unique rebar splicing system that utilizes LENTON taper-threads. Together with a grouted sleeve to provide structural integrity for precast applications.



LENTON Speed-Sleeve

Ideal splice for compression only applications.



LENTON Quick-Wedge

A quick and effective system for on-site connection of lighter diameter bars. LENTON Quick Wedge is a 'mechanical lap splice' for connecting rebar on site. An oval shaped steel sleeve is positioned around two overlapping bars and a steel wedge pin is then driven through the steel sleeve (using a small handheld hydraulic pindriver) to create the connection. Available in the sizes 12, 16 and 20 mm only.

Remedial Couplers

Unitec Couplers



The Unitec Coupler is a shear-bolt coupling system for the connection of concrete reinforcement bars Ø12 to 40 mm. Unitec Couplers are **CARES Approved TAI - B5046**.

Benefits

- Site assembly with standard impact wrench.
- No need for bar end preparation.
- Readily available off the shelf.
- Ideal for concrete-embedded bars, repair and retrofit works, bent bars, etc.
- Type 2 splice as per ACI 318 requirements. Complies with BS 8110 and NF A35-020 standards.

Item Code	Bar Dia (mm)	Outside Dia (mm)	Length (mm)	Bolt Size	Bolts Per Coupler	Weight (Kg)	Torque (Nm)	Pack Size
KKI0111UNITEC12	12	48	140	M12	6	1.6	140	Each
KKI0111UNITEC16	16	48	140	M12	6	1.6	140	Each
KKI0111UNITEC20	20	51	200	M12	8	2.5	140	Each
KKI0111UNITEC25	25	62	240	M16	8	3.8	250	Each
KKI0111UNITEC32	32	82	280	M20	8	8.5	680	Each
KKI0111UNITEC40	40	95	425	M20	12	15.4	680	Each

Lenton Lock Couplers



LENTON® LOCK is an in-situ rebar splice from ERICO, requiring no bar-end preparation. It is ideal for new construction, repair or retrofit applications. The Lenton Lock coupler features patented gripping technology that helps provide for the development of full rebar strength and improved overall structural integrity in tension, compression, stress-reversal and dynamic applications.

This innovative mechanical rebar splice is designed for use in column splicing, bridge applications, piling, splicing to protruding dowels cast in concrete, closure pours, beams, chimney construction and other demanding splicing applications.

Item Code	Bar Dia (mm)	Outside Dia (mm)	Length (mm)	Bolt Size	Bolts Per Coupler	Weight (Kg)	Torque (Nm)	Pack Size
KKI7103LL12	12	29	127	M12	6	0.57	205	Each
KKI7103LL16	16	35	159	M12	6	0.92	205	Each
KKI7103LL20	20	44	191	M12	8	1.68	205	Each
KKI7103LL25	25	54	254	M16	8	3.37	475	Each
KKI7103LL32	32	65	323	M20	8	5.92	680	Each
KKI7103LL40	40	80	400	M20	12	10.88	790	Each

MBT ET Couplers



The MBT ET 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. This series of couplers is used to connect reinforcing bars of the same size.

MBT ET Couplers 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. They can also be used to join imperial, plain round or deformed reinforcing bars.

Item Code	Bar Dia (mm)	Outside Dia (mm)	Length (mm)	Bolt Size	Bolts Per Coupler	Weight (Kg)	Torque (Nm)	Pack Size
KKI1103MBT12	12	33.4	140	M12	6	0.72	55	Each
KKI1103MBT16	16	42.2	160	M12	6	1.25	108	Each
KKI1103MBT20	20	48.3	204	M12	8	1.96	108	Each
KKI1103MBT25	25	54.0	258	M16	8	3.00	275	Each
KKI1103MBT32	32	71.0	312	M20	10	6.50	360	Each
KKI1103MBT40	40	81.0	484	M20	14	11.30	525	Each

Double Cover Concrete Spacers

Double Cover Concrete Spacers are manufactured from glass fibre reinforced cement, and are as strong as the surrounding concrete. They are designed for use in both horizontal and vertical applications with the flat base providing additional support and stability where there is a greater weight of reinforcement. They are strong, durable, and the optimum choice for heavy-duty steel fixing applications.



Item Code	Cover (mm)	Pack Size
KA0210ITUF1520D	15-20	500
KA0210ITUF2530D	25-30	500
KA0210ITUF3040D	30-40	250
KA0210ITUF3545D	35-45	200
KA0210ITUF4050D	40-50	200
KA0210ITUF6075D	60-75	50

SINGLE & TRIPLE COVERS ALSO AVAILABLE

Concrete Meshmen

Concrete Meshmen Spacers are manufactured from glass fibre reinforced cement, and are heavy-duty concrete spacers suitable for supporting mesh reinforcement in ground floor slabs. They are ideal for use on polythene membranes and blinding.



Recommended Spacing

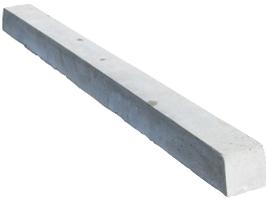
- Maximum spacing 750mm
- Minimum of two spacers per m²

For small diameter mesh fabric more spacers will be required to stop 'sagging'.

Item Code	Cover (mm)	Pack Size
KA02431MS4050	40-50	100

Concrete Square Bar

Concrete Square Bars are manufactured from glass fibre reinforced cement, in one metre lengths in a variety of square sections. Fixing costs are greatly reduced as the bars can simply be laid on the formwork or ground floor sub-base prior to the loading of the reinforcement cage. Other applications include their use as kickers and formwork spacers.



Item Code	Cover (mm)	Length (mtr)	Pallet Qty (mtr)
KA0232ISQB25	25	1	600
KA0232ISQB30	30	1	500
KA0232ISQB35	35	1	500
KA0232ISQB40	40	1	300
KA0232ISQB50	50	1	250
KA0232ISQB60	60	1	150
KA0232ISQB75	75	1	100
KA0232ISQB100	100	1	70

Plastic Line Spacers

U-Fix Plastic Line Spacers are two metre continuous plastic line spacers for supporting bottom reinforcement in suspended slabs. They have good stability and allow excellent concrete flow characteristics. They are particularly suitable for use on metal decking.



Item Code	Cover (mm)	Length (mtr)	Pack Size (mtr)	Pallet Qty (mtr)
KE0510IUF15	15	2	100	8,000
KE0510IUF20	20	2	100	5,600
KE0510IUF25	25	2	100	4,800
KE0510IUF30	30	2	100	4,200
KE0510IUF35	35	2	60	2,880
KE0510IUF40	40	2	60	2,400
KE0510IUF50	50	2	60	1,680
KE0510IUF60	60	2	40	1,600

Standard Gradeplate Spacers

Standard Gradeplate Spacers are double cover spacers that have been designed for use in ground floor slabs, where the large base area prevents puncturing of polythene film and gives a stable support to the reinforcing steel.



Item Code	Cover (mm)	Pack Size
KE05109STY2530	25-30	500
KE05109STY4050	40-50	200
KE05109STY6575	65-75	200
KE05109STY90100	90-100	100

Premium Gradeplate Spacers

Premium Gradeplate Spacers are double cover spacers that have been designed for use in ground floor slabs, where the large base area prevents puncturing of polythene film and gives a stable support to the reinforcing steel.



Item Code	Cover (mm)	Pack Size
KE05109STY2530S	25-30	500
KE05109STY4050S	40-50	200
KE05109STY5060S	50-60	100
KE05109STY6070S	60-70	100
KE05109STY7080S	70-80	100
KE05109STY9010S	90-100	100

Maxifix Spacers

Maxifix Spacers are solid clip-on spacers for medium to heavy loads, common in all areas of the construction industry both in precast yards and on building sites. They offer not only the price advantage to many other spacers for heavy reinforcement, but also allow reinforcement of up to 25mm.



Item Code	Cover (mm)	For Bar Dia (mm)	Pack Size
KE05104MAX015	15	8-25	1,000
KE05104MAX020	20	8-25	1,000
KE05104MAX025	25	8-25	1,000
KE05104MAX030	30	8-25	500
KE05104MAX035	35	8-25	500
KE05104MAX040	40	8-25	500
KE05104MAX050	50	8-25	500
KE05104MAX075	75	8-25	250
KE05104MAX100	100	8-25	250

Plastic Wheel Spacers

Plastic Wheel Spacers are for use with vertical reinforcement. The special design of the bar seat allows the spacer to be used for numerous bar diameters and ensures good concrete flow.



Item Code	Cover (mm)	For Bar Dia (mm)	Pack Size
KE05103WS150412	15	4-12	1,000
KE05103WS20412	20	4-12	500
KE05103WS250412	25	4-12	500
KE05103WS251220	25	12-20	500
KE05103WS300418	30	4-18	500
KE05103WS300516	30	5-16	1,000
KE05103WS350516	35	5-16	1,000
KE05103WS400514	40	5-14	125
KE05103WS401220	40	12-20	500
KE05103WS500516	50	5-16	500
KE05103WS500812	50	8-12	100
KE05103WS501220	50	12-20	500
KE05103WS600614	60	6-14	500
KE05103WS701220	70	12-20	250

A-Clip Spacers

A-Clip Spacers have proved to be the most popular of our range of plastic clip-on spacers. Designed for heavy-duty applications they are robust spacers that accommodate bars of up to 20mm.



Item Code	Cover (mm)	For Bar Dia (mm)	Pack Size
KE05104ACLIP15	15	6-16	2,000
KE05104ACLIP20	20	6-16	1,000
KE05104ACLIP25	25	8-20	1,000
KE05104ACLIP30	30	8-20	1,000
KE05104ACLIP35	35	8-20	1,000
KE05104ACLIP40	40	8-20	500
KE05104ACLIP50	50	8-20	500

Pile Cage Spacers

Pile Cage Spacers are specifically designed for insitu piling and diaphragm wall applications with a clip-on action to simplify fixing.



Item Code	Cover (mm)	Pack Size
KE05211PIL45	45-50	200
KE05211PIL75	70-75	100

Clampfix Spacers

Clampfix Spacers are general purpose clip-on spacers used in all types of applications found in precast yards and on site. They can be fixed horizontally or vertically on bars from 4mm to 20mm diameter.

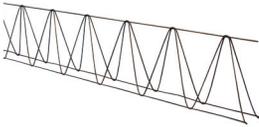


Item Code	Cover (mm)	For Bar Dia (mm)	Pack Size
KE05104CLA15	15	4-12	1,000
KE05104CLA20	20	4-16	1,000
KE05104CLA25	25	4-18	1,000
KE05104CLA30	30	4-18	1,000
KE05104CLA40	40	4-18	1,000
KE05104CLA50	50	4-18	1,000
KE05104CLA60	60	4-18	500
KE05104CLA65	65	4-18	500
KE05104CLA75	75	6-20	500

Wire Spacers

Continuous Hystools

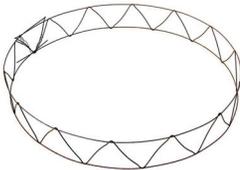
Continuous Hystools are two metres long and are particularly suitable for ground floor slabs as their unique design eliminates any danger of puncturing damp proof membranes. We recommend a minimum of five spacers per standard sheet of mesh.



Item Code	Cover (mm)	Length (mtr)	Pack Size (mtr)
KD0410IHO050B	50	2	50
KD0410IHO075B	75	2	50
KD0410IHO090B	90	2	50
KD0410IHO105B	105	2	50
KD0410IHO120B	120	2	50
KD0410IHO135B	135	2	50
KD0410IHO150B	150	2	50
KD0410IHO165B	165	2	50
KD0410IHO180B	180	2	50
KD0410IHO200B	200	2	40
KD0410IHO220B	220	2	30
KD0410IHO230B	230	2	30
KD0410IHO250B	250	2	30
KD0410IHO280B	280	2	30
KD0410IHO300B	300	2	20

Circular Spacers

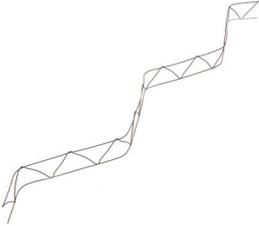
Circular Spacers provide a quick, easy and economical method of supporting reinforcement in concrete slabs. The spacers are delivered in three metre long straight lengths, which can be formed into a circle of one metre diameter. We recommend four circular spacers per sheet of mesh.



Item Code	Cover (mm)	Length (mtr)	Pack Size (mtr)
KD04104CS050B	50	3	75
KD04104CS075B	75	3	75
KD04104CS090B	90	3	75
KD04104CS105B	105	3	75
KD04104CS120B	120	3	75
KD04104CS135B	135	3	75
KD04104CS150B	150	3	75
KD04104CS165B	165	3	75
KD04104CS180B	180	3	75
KD04104CS200B	200	3	75

Wave Spacers

Wave Spacers have an effective length of two metres and offer a quick and easy method of supporting reinforcement. We recommend a minimum of five wave spacers per standard sheet of mesh.



Item Code	Cover (mm)	Length (mtr)	Pack Size (mtr)
KD04104WS050230	50	2	50
KD04104WS075230	75	2	50
KD04104WS090230	90	2	50
KD04104WS105230	105	2	50
KD04104WS120230	120	2	50

Flat Top Spacers

Flat Top Spacers are two metres long and are suitable for supporting either top or bottom reinforcement. We recommend a minimum of five spacers per standard sheet of mesh.



Item Code	Cover (mm)	Length (mtr)	Pack Size (mtr)
KD04105FT050X2M	50	2	50
KD04105FT060X2M	60	2	50
KD04105FT075X2M	75	2	50
KD04105FT090X2M	90	2	50
KD04105FT105X2M	105	2	50
KD04105FT120X2M	120	2	50
KD04105FT135X2M	135	2	50
KD04105FT150X2M	150	2	50
KD04105FT165X2M	165	2	50
KD04105FT170X2M	170	2	50
KD04105FT180X2M	180	2	50
KD04105FT200X2M	200	2	50

Tying Wire Products

Black Annealed Tying Wire

Black Annealed Tying Wire is available in 16 gauge or 17 gauge, and is supplied as a standard coil or in 2kg mini coils (16g only).



Item Code	Gauge	Coil Size (kg)
KC03101BLA1615	16	12
KC03101BLA17	17	12
KC03101BLA162	16	2

Wire Cutters

The Wire Cutters are a premium brand of nips for steel fixers.



Item Code	Pack Size
KOI3204WCS8	Each

Reelfix Reel Pack

The Rapid Reel is a lightweight, refillable wire dispensing unit designed to be worn in conjunction with the Reelfix belt and comfort pad. Refill spools are locked in the reel by a quarter turn knob. Empty spools can be replaced in less than 20 seconds and without the need for the user to remove their belt.



Item Code	Description	Pack Size
KC03202REELPAC	Reelfix Reel Pack - Case, Belt and Pad	Each
KC03202REELREFI	Reelfix Refill Spool	Each

Stainless Steel Tying Wire

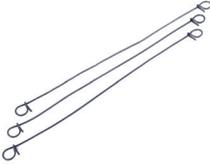
Stainless Steel Tying Wire is 18 gauge wire used where there is a danger of wire off-cuts being left on the formwork and causing staining on the surface of the concrete. It is available in standard 20kg coils or 2kg mini coils.



Item Code	Gauge	Coil Size (kg)
KC03304STK18	18	20
KC03304STA182	18	2

Double Loop Ties

Double Loop Ties are an alternative form of wiring together reinforcement using a tying tool.



Item Code	Length (mm)	Pack Size
KC03305DLT100	100	1,000
KC03305DLT125	125	1,000
KC03305DLT150	150	1,000
KC03305DLT200	200	1,000
KC03305DLT250	250	1,000
KC03305DLT300	300	1,000

Tying Tool

The Tying Tool is for use with the double loop ties.



Item Code	Pack Size
KC03305DLTTOOL2	Each

Bindfix Ties

Bindfix Ties are labour saving easy-to-use binders for quick, firm tying of reinforcement. They require no tools, give no off-cuts, and are particularly suited for use in the precast industry.



Item Code	For Bar Dia (mm)	Pack Size
KC03306BFT06	6	10,000
KC03306BFT08	8	10,000
KC03306BFT10	10	11,200
KC03306BFT12	12	9,600
KC03306BFT16	16	6,000
KC03306BFT20	20	4,000
KC03306BFT24	24	4,000

Bundling Wire

Bundling Wire is available as 8 gauge or 10 gauge in 20kg coils.



Item Code	Gauge	Coil Size (kg)
KC03101BLA3.25	10	20
KC03101BLA4.00	8	20

Anti-Impelement ReACTer Caps and Rail System

As part of our commitment to continually seeking to offer our customers new and innovative products, RFA-Tech has been working exclusively in partnership with its local UK Rebar Safety Cap supplier to find a proven solution for protecting your workforce from the danger of impalement by reinforcement starter bars on construction sites.

It is our belief that there is no other product on the market in the UK that can offer the level of protection given by the ReACTer Cap. At the moment there is no British Standard for a Rebar Safety Cap. However, due to the increase in the number of fall impalement accidents in USA resulting in either serious injury or death, the California Occupational Safety and Health Regulations (CAL/OSHA) have formulated the Code of Regulation 1926.701(b) Reinforcing steel. (Which says) "All protruding reinforcing steel, onto and into which employees could fall, shall be guarded to eliminate the hazard of impalement."

From this, they introduced the testing and specification standards California Regs (OSHA) – 344.90 Impalement protection specifications and testing criteria. This specifies drop test specifications for an anti-impement safety cap which can be approved for working at a height of 2.3 metres. These specifications

are the only ones used throughout the USA and also acknowledged as the only method of testing in Europe, Australia and New Zealand.

The ReACTer Cap has been designed to, and tested to exceed these requirements, with the tests being witnessed by an independent UKAS and ANSI accredited testing laboratory.

As a result, the ReACTer Cap will protect your workforce from impalement injuries on reinforcement starter bars should they be unfortunate enough to fall on them, from a height of up to 5 metres.



How it Works

The ReACTer Cap works in two different, but complimentary ways: Firstly, the inner flutes reduce the speed the cap is pushed down onto the reinforcement.

Secondly, the ribs & ridge underneath the head dissipate the impact force by flexing and directing the force over the sides of the cap.

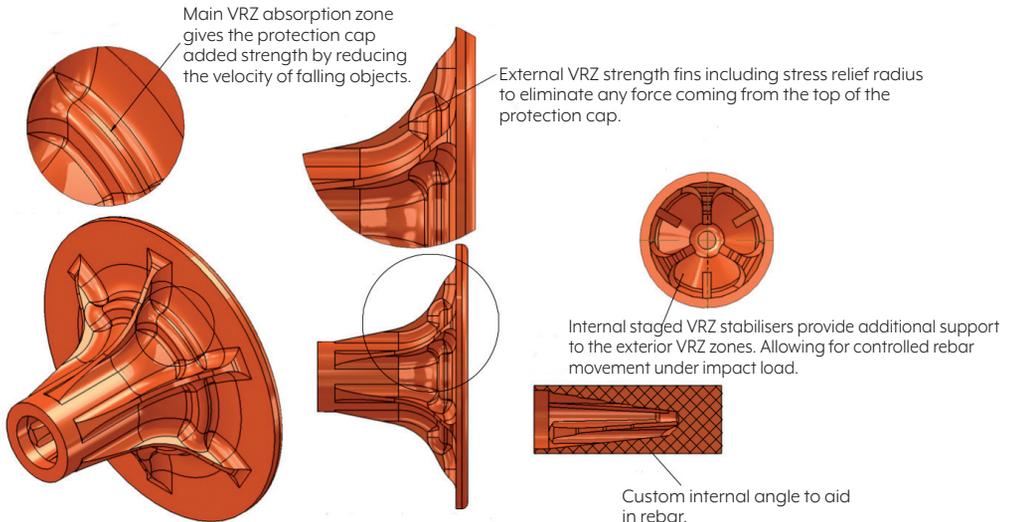
These two features combine to give what is known as the 'VRZ' or 'Velocity Reduction Zone'.

The 'VRZ', in conjunction with the careful selection of a thermoplastic polymer prevents the reinforcement from breaching the cap and therefore prevents impalement.

The ReACTer Cap is visually quite unique. The head is flat and approximately 100cm².

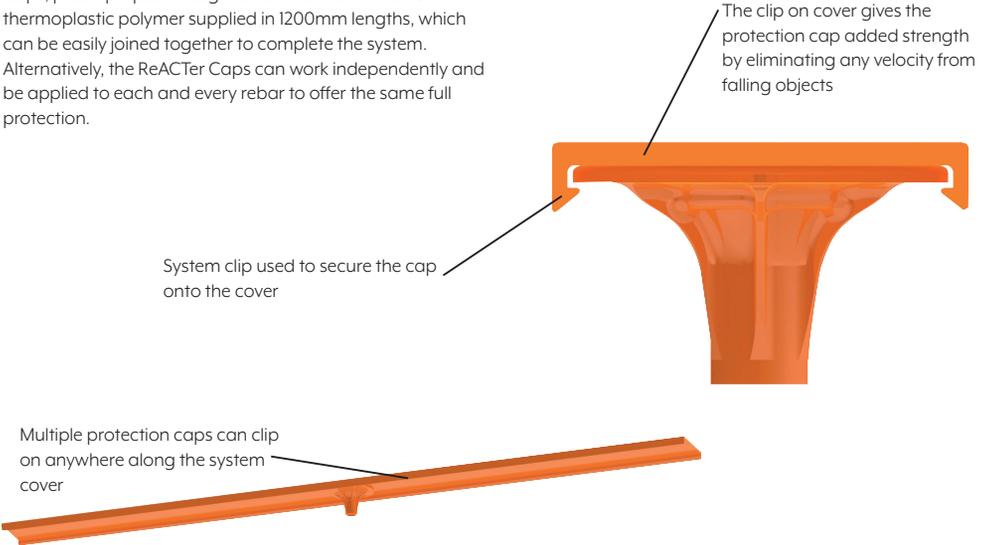
Below the head of the cap there is a set of ribs to support the head and provide the 'VRZ'.

There are two sizes of ReACTer Cap available to fit reinforcement sizes 8-16mm and 16-32mm.



ReACTer Cap Rail System

The second part of the system, known as the ReACTer Cap Rail System, which has also been fully tested, will allow four ReACTer Caps to cover reinforcement up to a distance of 2.25 metres. The system comprises four ReACTer Caps, plus a purpose designed rail manufactured from thermoplastic polymer supplied in 1200mm lengths, which can be easily joined together to complete the system. Alternatively, the ReACTer Caps can work independently and be applied to each and every rebar to offer the same full protection.



ReACTer Cap and Rail System Key Benefits

- Designed to meet and exceed the California Regs. (OSHA) specification.
- Product specification that exceeds this globally used specification by 66% on drop height and 10% on weight.
- Product testing witnessed by an independent UKAS and ANSI accredited testing laboratory.
- Will prevent potentially fatal reinforcement penetration injuries from heights of up to 5 metres.
- Providing not damaged in an accident they are quickly reclaimable and are safe to re-use, saving on-site costs.
- More cost-effective than alternative systems available on the market.
- Both patent (AU2014900306/AU2014900313) & design (AU354641) have been applied for, ensuring you get the same reliable, robust product every time you order.
- Available to provide protection on all standard sizes of reinforcement.
- High visibility orange caps and Rail system.
- Does not require any untested third party components to complete the system.
- Manufactured and distributed in the UK, ensuring rapid technical response and delivery.

Item Code	Description	Pack Size
KOI3307REA0816	8-16mm Reacter Cap Safety End Cap	20
KOI3307REAI632	16-32mm Reacter Cap Safety End Cap	20
KOI3307REARAIL	Reacter Rail 1.2mtr Length	Each
KOI3307REC0816	Reacter Connector Cap (Small) 8-16mm	20
KOI3307REC1632	Reacter Connector Cap (Med) 16-32mm	20

Rebar Safety End Caps

Rebar Safety End Caps are designed for use in the construction industry, and fit over the ends of protruding reinforcement bars reducing the risk of injury. Three sizes are available to suit bars 8mm-16mm, 16mm-32mm and 40mm-50mm.



Item Code	Bar Dia (mm)	Pack Size
KO13307RSC0818	8-16	250
KO13307RSC1632E	16-32	250
KO13307RSC4050	40-50	100

Frost Blankets

Frost Blankets are an 8mm thick polyethylene thermal blanket which provides efficient protection, with proven performance at extremely low temperatures.



Item Code	Width (mtr)	Length (mtr)	Thickness (mm)	Pack Size
KF06114FROBSTND	1.5	75	8	Each
KF06114FROST60M	1.85	60	8	Each

Temporary Protection Sheeting

Temporary Protection Sheeting is available in 132 gauge, 33mu with a coverage of 200m² per roll (4m x 50m).



Item Code	Width (mtr)	Length (mtr)	Pack Size
KF06113PROT50M	4	50	Each

Polythene Damp Proof Membrane

High quality BBA approved Polythene Damp Proof Membrane is available in various grades. All rolls when unfolded are approximately 4m wide.



Item Code	Type	Gauge	Microns	Width (mtr)	Length (mtr)
KF06113DPM0500	Multifold	500	125	4	50
KF06113DPM1000	Multifold	1,000	250	4	25
KF06113DPM1200	Multifold	1,200	300	4	25
KF06113CENT1200	Centrefold	1,200	300	4	25
KF06113DPM2000	Multifold	2,000	500	4	12.5
KF06113CENT2000	Centrefold	2,000	500	4	12.5

Single Sided Jointing Tape

The Single Sided Jointing Tape is waterproof and pressure sensitive. It is ideal for use on polythene sheet or formwork joints. It is available as 50mm width in 27m or 33m rolls, 75mm width in 33m rolls, or 100mm width in 27m rolls.



Item Code	Width (mm)	Roll (mtr)	Pack Size
KG07102NT5027	50	27	Each
KG07102NT5033	50	33	Each
KG07102NT7533	75	33	Each
KG07102NT10027	100	27	Each

Double Sided Jointing Tape

The Double Sided Jointing Tape is waterproof and pressure sensitive. It is ideal for use on polythene sheet or formwork joints. It is 50m long and available in widths of 50mm or 75mm.



Item Code	Width (mm)	Roll (mtr)	Pack Size
KG07102DBST50	50	50	Each
KG07102DBST75	75	50	Each

Mild Steel Dowel Bars

Mild Steel Dowel Bars can be supplied in various diameters with sawn end (12mm diameter cropped) to specific lengths. In addition to the standard lengths shown in the table below, special lengths can be manufactured to order. Polymeric coating can also be ordered on request.



Item Code	Bar Dia (mm)	Length (mm)	Pack Size
KF06103DBI2400	12	400	Each
KF06103DBI2500	12	500	Each
KF06103DBI2600	12	600	Each
KF06103DBI2900	12	900	Each
KF06103DBI21000	12	1000	Each
KF06103DBI6400	16	400	Each
KF06103DBI6600	16	600	Each
KF06103DBI6900	16	900	Each
KF06103DB20400	20	400	Each
KF06103DB20500	20	500	Each
KF06103DB20600	20	600	Each
KF06103DB20900	20	900	Each
KF06103DB25400	25	400	Each
KF06103DB25500	25	500	Each
KF06103DB25600	25	600	Each

Stainless Steel Dowel Bars

Stainless Steel Dowel Bars provide a durable, corrosion resisting solution to connections in concrete or other structural applications. They are supplied in standard 304 grade, although other grades are also available on request. In addition to the standard lengths shown in the table below, special lengths can be manufactured to order.



Item Code	Bar Dia (mm)	Length (mm)	Pack Size
KF06106DBI6400	16	400	Each
KF06106DBI6600	16	600	Each
KF06106DBI6900	16	900	Each
KF06106DB20400	20	400	Each
KF06106DB20600	20	600	Each
KF06106DB20900	20	900	Each
KF06106DB25400	25	400	Each
KF06106DB25600	25	600	Each
KF06106DB25900	25	900	Each
KF06106DB32400	32	400	Each
KF06106DB32600	32	600	Each
KF06106DB32900	32	900	Each

Dowel Bar Sleeves

Dowel Bar Sleeves are manufactured from high grade flexible PVC. They are tough, durable and have an average wall thickness of 1.25mm.



Item Code	Bar Dia (mm)	Length (mm)	Pack Size
KF06104DBSI2450	12	450	100
KF06104DBSI6300	16	300	100
KF06104DBSI6450	16	450	100
KF06104DBS20300	20	300	100
KF06104DBS25300	25	300	100
KF06104DBS32375	32	375	92

Dowel Bar Caps

The Dowel Bar Debonding Caps are manufactured from rigid PVC tube with polyethylene foam fixed into one end to act as a compression filler, which allows for the expansion of dowel bars in construction joints.



Item Code	Bar Dia (mm)	Length (mm)	Pack Size
KF06105DBC12100	12	100	100
KF06105DBC16100	16	100	100
KF06105DBC20100	20	100	100
KF06105DBC25100	25	100	100
KF06105DBC32100	32	100	100
KF06105DBC40100	40	100	50

Contraction Dowel Cages

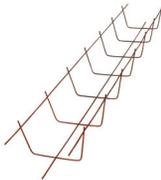
Contraction Dowel Cages are supplied in separate half sections which are placed either side of the joint. They can be used both in road and floor slab construction, and are sold in 1.2 metre lengths and various heights to suit the depth of slab. Other heights to suit deeper slabs are available on request.



Item Code	Description	Height (mm)	Length (mtr)	Pack Size
KF06114DC075CON	Suitable for slab depth 150-180mm	75	1.2	Each
KF06114DC095CON	Suitable for slab depth 190-230mm	95	1.2	Each
KF06114DC115CON	Suitable for slab depth 240-300mm	115	1.2	Each
KF06114DCS75	75mm Connection Sleeve	-	-	100

Expansion Dowel Cages

Expansion Dowel Cages are supplied in separate half sections which are placed either side of the joint. They can be used both in road and floor slab construction, and are sold in 1.2 metre lengths and various heights to suit the depth of the slab. Other heights to suit deeper slabs are available on request.



Item Code	Description	Height (mm)	Length (mtr)	Pack Size
KF06114DC090EXP	Suitable for slab depth 190-230mm	90	1.2	Each
KF06114DC115EXP	Suitable for slab depth 240-300mm	115	1.2	Each

Debonding Compound

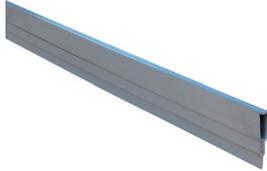
Debonding Compound is a one-part bitumen based coating designed to coat dowel bars in joints where movement is required. It is applied by brush or dipping, and provides a coverage of 1.8-3.6m² per litre.



Item Code	Size (Ltrs)
KJ0943IDBAR05	5
KJ0943IDBAR25	20

Top Crack Inducer

The two part PVC Crack Inducer and groove former induces a controlled crack in continuously laid concrete. Its hollow, braced section makes it strong enough to be vibrated direct into wet concrete. The top section can be removed to form a void approximately 25mm deep into which a floor seal can be applied. To work effectively it is recommended that the total depth of the top, or top and bottom crack inducers should be between 1/4 and 1/3 of the total slab thickness.



Item Code	Depth (mm)	Width (mm)	Length (mtr)	Pack Size (mtr)
KF0610ICII050	50	10	5	50
KF0610ICII075	75	10	5	50

Bottom Y Type Crack Inducer

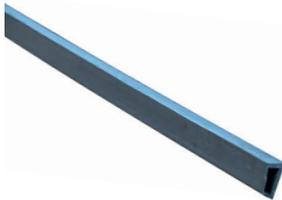
Where slabs exceed 250mm in depth a Bottom Crack Inducer used in conjunction with, and placed immediately below the top crack inducer is recommended. To work effectively it is recommended that the total depth of the top and bottom crack inducers should be between 1/4 and 1/3 of the total slab thickness.



Item Code	Depth (mm)	Length (mtr)	Pack Size (mtr)
KF0610ICIBY40	40	5	50
KF0610ICIBY75	75	5	50

Void Former

PVC Void Formers are available in four sizes designed for forming grooves in concrete or nailing to the formwork.



Item Code	Depth (mm)	Width (mm)	Length (mtr)	Pack Size (mtr)
KF06109FMV2010	20	10	3	60
KF06109FMV2020	20	20	3	30
KF06109FMV2512	25	12	3	60
KF06109FMV2525	25	25	3	30

Woodfibre Fillerboard

Woodfibre Fillerboard is a high performance quality expansion joint for concrete applications. It is manufactured from specially formulated impregnated fibreboard with a minimum 10% bitumen content. It has been specifically engineered to provide the optimum combination of durability and resilience. Typical applications would include concrete paths, foundation slabs, roads and airport runways. It can also be used as a backfill protection board for below ground applications. It is lightweight and can be easily cut on site.



Item Code	Thickness (mm)	Width (mtr)	Length (mtr)	Pack Size
KF06107FBSH12	12	1.2	1.2	Each
KF06107FBSH20	20	1.2	1.2	Each
KF06107FBSH25	25	1.2	1.2	Each

Polyjoint Filler Coil

Polyjoint Filler Coil is a closed cell polyethylene foam joint filler ideal for expansion joints and wall to floor slab isolation joints. It is conveniently supplied to suit your slab depth and available in 10m coil length in various thicknesses. A tear-off strip allows for sealant.



Item Code	Thickness (mm)	Depth (mm)	Length (mtr)	Pack Size
KF06112PJC10100	10	100	10	Each
KF06112PJC10150	10	150	10	Each
KF06112PJC10175	10	175	10	Each
KF06112PJC12100	12	100	10	Each
KF06112PJC12150	12	150	10	Each
KF06112PJC12175	12	175	10	Each
KF06112PJC12200	12	200	10	Each

Polyjoint Filler Strip

Polyjoint Filler Strip is a closed cell polyethylene foam joint filler ideal for expansion joints and wall to floor slab isolation joints. It is conveniently supplied to suit your slab depth and available in 2m length strips in various thicknesses. A tear-off strip allows for sealant. In addition to the standard sizes in the table below, special widths and tear-off strips are available on request.



Item Code	Thickness (mm)	Depth (mm)	Length (mtr)	Pack Size
KF06112PJS10100	10	100	2	Each
KF06112PJS10150	10	150	2	Each
KF06112PJS12150	12	150	2	Each
KF06112PJS12200	12	200	2	Each
KF06112PJS20100	20	100	2	Each
KF06112PJS20150	20	150	2	Each
KF06112PJS20175	20	175	2	Each
KF06112PJS20200	20	200	2	Each
KF06112PJS25100	25	100	2	Each
KF06112PJS25150	25	150	2	Each
KF06112PJS25175	25	175	2	Each
KF06112PJS25200	25	200	2	Each
KF06112PJS25250	25	250	2	Each

Polyjoint Filler Sheet

Polyjoint Filler Sheet is a closed cell polyethylene foam joint filler ideal for expansion joints and wall to floor slab isolation joints. It is supplied in sheets of 1m x 2m for cutting to suit on site.



Item Code	Thickness (mm)	Width (mtr)	Length (mtr)	Pack Size
KF06112PJS10	10	1	2	Each
KF06112PJS12	12	1	2	Each
KF06112PJS15	15	1	2	Each
KF06112PJS20	20	1	2	Each
KF06112PJS25	25	1	2	Each

CombiForm Screed Rails

The CombiForm Screed Rails are made of metal with a plastic strip on the top. They are easy to use, light weight and far more manageable than the traditional concrete rails. The plastic top strip is removable, this allows more flexibility as it can be left in the concrete or stripped off and replaced by different joint material. A top extender can be purchased which will further increase the cover and act as a saw cut. CombiForm can be used to produce super flat floors and its design boasts superior strength, allowing it to be used with all types of vibration bridges where other similar products would simply buckle under the weight. It is easy to adjust to the correct level using the adjusting screws directly on the ground, or by using a ground plate fixed under the screws in softer surface situations. The rails can also be placed on concrete markers.

The concrete efficiently penetrates through CombiForm as it is provided with rows of 25mm diameter holes, which also allows reinforcement to pass through. CombiForm is easy to cut in different lengths with an angle cutting machine.



Item Code	Description	Height (mm)	Length (mtr)	Pack Size
KF06I08CFORM025	Screed Rail	25	2.2	Each
KF06I08CFORM045	Screed Rail	45	2.2	Each
KF06I08CFORM065	Screed Rail	65	2.2	Each
KF06I08CFORM085	Screed Rail	85	2.2	Each
KF06I08CFORM105	Screed Rail	105	2.2	Each
KF06I08CFORM125	Screed Rail	125	2.2	Each
KF06I08CFORM145	Screed Rail	145	2.2	Each
KF06I08CFORMTOP	Top Extender	30	2.2	Each
KF06I08CFORMPLT	Ground Plate	-	-	Each
KF06I08CFTLI300	Adjustment Tool	-	-	Each
KF06I08CFRMS060	Screws - 60mm long	-	-	100
KF06I08CFRMS090	Screws - 90mm long	-	-	100

Concrete Screed Rails

Concrete Screed Rail is manufactured from reinforced concrete with a material strength of 50 N/mm². The need to hire costly roadforms is eliminated by simply screeding off the rails provided which are left permanently in position, bringing further savings in the labour costs normally associated with roadform removal. Adjacent bay construction is also quicker.



Item Code	Height (mm)	Length (mtr)
KF06I08CSR100	100	3
KF06I08CSR150	150	3

K-Form uPVC Screed Rails

K-Form uPVC Screed Rail is a simple to use shuttering system that can be laid by just one person. As it is made from durable uPVC there is no heavy lifting and no associated health and safety issues. The three metre beams can be cut quickly to length with a hand saw and no specialist equipment is needed. Once the concrete has been poured K-Form remains in place, so even more time is saved since there is no removing, no cleaning and no storing.



Item Code	Height (mm)	Length (mtr)
KF06I08KF85MM	85	3
KF06I08KF135MM	135	3
KF06I08KFEXRAIL	50	3

Steel Topped Concrete Screed Rails

Steel Topped Concrete Screed Rails make it easier to achieve a very straight and fully controlled hairline crack compared to traditional roadform construction.



Item Code	Height (mm)	Length (mtr)
KF06108MSR065	65	3.9
KF06108MSR090	90	3.9
KF06108MSR115	115	3.9
KF06108MSR140	140	3.9
KF06108MSR165	165	3.9

Metal Screed Chairs

The Metal Screed Chair is supplied in two parts, the height is simply adjusted by turning the stirrup in the base.

There are five sizes to suit various slab depths

- For slab depth 120 - 150mm order Type 1 Base + Type 1 Saddle
- For slab depth 150 - 200mm order Type 2 Base + Type 2 Saddle
- For slab depth 200 - 300mm order Type 3 Base + Type 3 Saddle
- For slab depth 300 - 380mm order Type 4 Base + Type 3 Saddle
- For slab depth 380 - 460mm order Type 5 Base + Type 3 Saddle

Both the base and the saddle should be ordered to complete the Metal Screed Chair.



Item Code	Description	Slab Depth (mm)	Pack Size
KF06110MSCB1	Base - Type 1	120-150	Each
KF06110MSCB2	Base - Type 2	150-200	Each
KF06110MSCB3	Base - Type 3	200-300	Each
KF06110MSCB4	Base - Type 4	300-380	Each
KF06110MSCB5	Base - Type 5	380-460	Each
KF06110MSCS1	Saddle - Type 1	-	Each
KF06110MSCS2	Saddle - Type 2	-	Each
KF06110MSCS3	Saddle - Type 3	-	Each

Plastic Screed Chairs

Plastic Screed Chairs are ideal for light duty applications. They are fully adjustable and being manufactured in plastic may be left in concrete, either in part or as a complete unit, without fear of corrosion. It is not advisable to use chairs in bays over four metres wide and we would recommend placement of 500mm centres. For heights over 150mm the base of the chair should be placed in a 'blob' of concrete for greater stability.



The plastic screed chairs are supplied in three parts

- Plastic Screed Chair Base
- Plastic Screed Chair Collar
- Plastic Screed Chair Saddle

Item Code	Description	Pack Size
KF06110PSCBAS	Base	100
KF06110PSCCOL	Collar	100
KF06110PSCSAD	Saddle	100

Waxed Card Bolt Boxes

Waxed Card Bolt Boxes enable easy bolt location adjustment with minimum displacement of reinforcement and concrete. For the ease of stripping and re-use 25mm of the box should be left protruding and rotated before the concrete has completely set.



Item Code	Depth (mm)	Pack Size
KOI3719CBB09	229	Each
KOI3719CBB12	305	Each
KOI3719CBB15	380	Each
KOI3719CBB18	457	Each
KOI3719CBB21	534	Each
KOI3719CBB24	610	Each
KOI3719CBB30	782	Each

Voidform Plastic Bolt Box



The Voidform Plastic Bolt Box is used in the same way as conventional bolt boxes and requires no specialist training or preparation. The plastic bolt box has been designed to overcome the numerous inherent difficulties and problems that can occur when using existing systems. It is essentially a polypropylene cone with an integrated chamber to house the base plate and bolt.

The bolt box is available in the 'one size suits all' form to simplify ordering and on-site use. A top cap with central hole is provided as a separate piece to complete the unit. The main body of the cone is marked for easy identification of the required length and the top cap will accommodate all variations of length.

The bolt box offers savings in time and money as well as providing a clean, debris free work area.

Item Code	Depth (mm)	Pack Size
KOI3855PLASBBOX	375	Each



Formwork Threaded Tie Bar

Formwork Threaded Tie Bar is produced from high tensile steel with a screw thread (deformation conforming to ASTM A 618 for reinforcing steel bars). It is available for both 15mm and 20mm systems, and is supplied in standard lengths of 2mtrs, 3mtrs or 6mtrs.



Item Code	Dia (mm)	Length (mtr)
KG07101DIB6000	15	6
KG07101DIB3000	15	3
KG07101DIB2000	15	2
KG07101DIB6M/20	20	6
KG07101DIB20/3M	20	3

Pressed Water Plate

The Pressed Water Plate is used for timber or steel walings in conjunction with a wing nut or a hex nut for load transfer. The embossing of the plate increases its rigidity. It is available for both 15mm and 20mm systems.



Item Code	For System (mm)	Pack Size
KG07101DIWAST	15	Each
KG07101DIWAST20	20	Each

Wing Nut

With different water plates, the Wing Nut can be used as an anchor nut both for timber and steel walings. It can be fixed and loosened using a hexagon wrench or a threadbar, and is available for both 15mm and 20mm systems.



Item Code	For System (mm)	Pack Size
KG07101DIWIN	15	Each
KG07101DIWIN20	20	Each

Hex Nut

Similar to wing nuts, the Hex Nut can be used as an anchor nut in conjunction with a water plate.



Item Code	For System (mm)	Pack Size
KG07102HEXNUT5	15	Each

Tie Bar Connector

The Tie Bar Connector is used for the force-fit connection of two threadbars. A stop pin in the middle of the connector ensures an equal screwing-in length of both bars. It is available for both 15mm and 20mm systems.



Item Code	For System (mm)	Pack Size
KG07101DICON	15	Each
KG07101DC20	20	Each

Water Barrier Connector

The Water Barrier Connector is used for water retaining purposes between concrete walls, to fill any cracks which exist.



Item Code	For System (mm)	Pack Size
KG07101DIWCON	15	Each

Thruty Sleeve

Thruty Sleeve is a rigid PVC tube of 2mm wall thickness, supplied in two metre lengths, which can be easily cut to the required size on site. It is used as a sacrificial sleeve over tie bars, facilitating their removal and also acting as a spacer to ensure the correct width of wall. It is available in either a smooth or rough sleeve, and with sizes for both the 15mm and 20mm tie bar system.



Item Code	For System (mm)	Length (mtr)	Finish	Pack Size (mtr)
KG07101TS2226S	15	2	Smooth	100
KG07101TS2226	15	2	Rough	100
KG07101TS2630	20	2	Rough	50

Thruty Cones

Thruty Cones are used at the ends of the thruty sleeve and can be easily extracted after removal of the formwork to form a chamfered recess for subsequent grouting.



Item Code	For System (mm)	Pack Size
KG07101CON20	15	500
KG07101CON22	15	500
KG07101CON26	20	500

Rubber Stoppers

Rubber Stoppers are made in a variety of sizes from resilient synthetic material which is non-biodegradable. They are widely used in reservoirs and sewage treatment works as a backing where grouting is necessary.



Item Code	For System (mm)	Pack Size
KG07102AQUFIX20	15	1,000
KG07102AQUFIX22	15	1,000
KG07102FLUPP22	15	500
KG07102AQUFIX26	20	1,000
KG07102AQUFIX32	20	500

Flexible PVC Tie Bar Hose

Flexible PVC Tie Bar Hose is supplied in convenient 30 metre coils as a cheap alternative to thru sleeve, and can be extracted after use. It is available for both the 15mm and 20mm tie bar systems.



Item Code	For System (mm)	Pack Size (mtr)
KG0710IHOS1925	15	30
KG0710IHOS2531	20	30

Multi-Purpose Hole Filler

Our Multi-Purpose Hole Filler is applied with a trowel, and is primarily used for the filling of tie-holes formed by formwork bolts in new construction, particularly where a rapid setting, durable, waterproof mortar is required. It can also be used for sealing grout holes and voids around fixings in precast elements. Sold in 8kg tubs, when mixed with 850ml of water, it has a yield of four litres of filler, which will fill approximately 150-200 holes.



Item Code	Size (Kg)
KJ0910ITSEL08	8

Plastic Chamfer Edge Profile - Plain

Plastic Chamfer Edge Profile is an extruded plastic section for forming chamfered corners to columns and beams. The plain profile has no nailing flange.



Item Code	Width (mm)	Length (mtr)	Pack Size (mtr)
KG07102CEPI5PLN	15	2.5	100
KG07102CEP20PLN	20	2.5	100
KG07102CEP25PLN	25	2.5	100
KG07102CEP30PLN	30	2.5	50

Plastic Chamfer Edge Profile - Flanged

Plastic Chamfer Edge Profile is an extruded plastic section for forming chamfered corners to columns and beams. The nailing flange provides easy fixing to corner moulds and safe stripping, thus ensuring maximum re-use.



Item Code	Width (mm)	Length (mtr)	Pack Size (mtr)
KG07102CEPI1FLG	11	2.5	100
KG07102CEPI5FLG	15	2.5	100
KG07102CEP20FLG	20	2.5	100
KG07102CEP25FLG	25	2.5	100
KG07102CEP30FLG	30	2.5	50

Single Sided Jointing Tape

Single Sided Jointing Tape is a specially developed matt finish waterproof pressure-adhesive PVC tape for use on all types of concrete formwork. It offers excellent adhesion even where residual release agent is present on the form face.



Item Code	Width (mm)	Roll (mtr)	Pack Size
KG07102NT5027	50	27	Each
KG07102NT10027	100	27	Each
KG07102NT5033	50	33	Each
KG07102NT7533	75	33	Each

Double Sided Jointing Tape

The Double Sided Jointing Tape is waterproof and pressure sensitive. It is ideal for use on polythene sheet or formwork joints. It is 50m long and available in widths of 50mm or 75mm.



Item Code	Width (mm)	Roll (mtr)	Pack Size
KG07102DBST50	50	50	Each
KG07102DBST75	75	50	Each

Silver Cloth Duct Tape

Silver Cloth Duct Tape is suitable for many site applications. It is 50m long and available in widths of 50mm or 75mm.



Item Code	Width (mm)	Roll (mtr)	Pack Size
KG07102DUCTP50	50	50	Each
KG07102DUCTP75	75	50	Each

Shutter Foam

Shutter Foam is a foam tape with pressure adhesive on one side. It is suitable for sealing joints in formwork which are inaccessible for the application of shutter tape such as butt joints.



Item Code	Width (mm)	Roll (mtr)	Pack Size
KG07102NF031225	3	25	Each
KG07102NF061212	6	12	Each
KG07102NFGREY	6	12	Each

Hy-Rib Stop End

Hy-Rib is an expanded metal sheet product, specifically developed for use as permanent formwork to concrete. The profile of the open mesh, in combination with the Hy-Rib tangs, allow the development of dense concrete nodules and indents on the face of the Hy-Rib, forming an enhanced mechanical key for the second phase pour. In the case of visible elements, the resulting Hy-Rib surface is suitable to receive a rendered or tiled finish.



Item Code	Steel Thickness (mm)	Sheet Length (mtrs)	Pack Size
KG18111HY242000	0.4	2	Each
KG18111HY243000	0.4	3	Each
KG18111HY244000	0.4	4	Each
KG18111HY245000	0.4	5	Each
KG18111HY262000	0.5	2	Each
KG18111HY263000	0.5	3	Each
KG18111HY264000	0.5	4	Each
KG18111HY265000	0.5	5	Each
KG18111HY282000	0.6	2	Each
KG18111HY283000	0.6	3	Each
KG18111HY284000	0.6	4	Each
KG18111HY285000	0.6	5	Each



Column Formers

Circular Lined Column Formers can be purchased in a variety of diameters ranging from 150mm upto 1200mm and are made to order to the lengths required.



Designs

- **Lined** - Column formers have a PVC liner which is fitted the whole length of the inner diameter of the column former, this provides an impeccably smooth finish. They will only leave a hairline seam on the concrete from the point where the liner joint meets.
- **Unlined** - Column formers are also available unlined for applications where surface finish is not critical. This column former will leave a spiral effect on the finished column.
- **Square** - We can offer square or rectangular columns on request, made from our standard column former with an additional polystyrene insert, manufactured to your specific requirements.

Advantages

- Light and easy to handle as opposed to steel shuttering.
- Labour saving.
- Easy to strip, no mould oils required.
- Quality, fair faced finish.
- Can be used for protective cover for the completed columns.
Sizing and Pricing information on request.

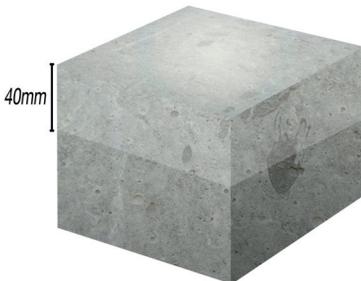
Vetrofluid Total Concrete Protection

Vetrofluid Total Concrete Protection is a clear concrete waterproofing system, which penetrates concrete to a depth of 40mm, ensuring 100% lifetime waterproofing.

By sealing the many pores in the concrete, Vetrofluid creates a permanent barrier from water, rising damp, acids, carbonation, and freeze-thaw cycles.

It's unique formula allows new concrete to cure with an anti-evaporation effect, whilst also reducing the risk of cracking caused by plastic and hygrometric shrinking.

VOC and solvent free, Vetrofluid is completely eco-friendly.



Key characteristics

- Permanent waterproofing
- Penetrates concrete up to 40mm
- Protects from freeze-thaw cycles
- Can triple the life span of concrete
- Spray applied
- 100% eco-friendly
- Odourless and colourless
- Resistant to chemical attacks

Suitable for

- Underground walls
- Bridges and underpasses
- Storage and water tanks
- Immersed concrete structures
- Basements
- Wells
- Tunnels
- And many more

Item Code	Size (Ltrs)
KW21125VETRO05	5
KW21125VETRO20	20

Nuwash Degreasing Agent & Tool Cleaner

Nuwash is an extremely powerful solvent based anti-bacterial cleaner for the removal of grease, oil, wax, bitumen and some types of paint from concrete and a wide range of other surfaces.

Item Code	Size (Ltrs)
KJ09651NUWASH05	5
KJ09651NUWASH25	25

Polysolv Polystyrene Dissolver

Polysolv Polystyrene Dissolver is a powerful solvent blend for the dissolving of expanded polystyrene.

Item Code	Size (Ltrs)
KJ09431POLYSV05	5
KJ09431POLYSOLV	25

Plastic Sprayer



A wide range of spare parts and accessories are available with this sprayer if required.

Key features

- 5 litre working capacity.
- 7 litre full capacity.
- Liquid level indication via transparent hose.
- Ergonomic handle, filter with viton seals and rust proof spring.
- Adjustable conical nozzle and adaptor for accessories.

Item Code	Pack Size
KJ09651SPPLATAN	Each

Metal Sprayer



The Metal Sprayer is a 5 Litre working capacity steel pressure sprayer, complete with a brass lance, adjustable nozzle and pressure gauge.

Key features

- 5 litre working capacity.
- 8 litre full capacity.
- Brass lance and adjustable nozzle.
- Safety release valve.
- Pressure gauge.

Item Code	Pack Size
KJ09651SPMETAL	Each

A range of Curing Agents applied to either fresh or newly stuck concrete to control the rate of water ingress.

Chemcure S Concrete Curing Liquid

Chemcure S is an aqueous solution of metallic silicates which when applied to fresh concrete forms a micro-crystalline seal in the pores, reducing the evaporation of moisture from the mix thus assisting in the efficient curing of the concrete. The aqueous element of Chemcure S will evaporate into the atmosphere and the silicates become an integral part of the concrete, leaving no residues or deleterious material on the concrete surface. Removal is not required; the porosity of the concrete is slightly reduced but the bond with subsequent coatings/ treatments, whether on cast or trowelled surfaces, will be unaffected.

Item Code	Size (Ltrs)
KJ09211CCS020	20
KJ09211CCS210	210

Chemcure R75 & R90 Concrete Curing Membranes

Chemcure R75 and R90 are formulated with inert hydrocarbon resins which give films with excellent water retention efficiency in excess of 75% and 90% respectively, complying with ASTM C309.66 and HA Spec. Clause 1027. Available in clear, white and with aluminium flake pigment, to give maximum solar reflection.

Item Code	Size (Ltrs)	Water Retention Efficiency
KJ09101CCR75025	20	75%
KJ09211CCR75210	210	75%
KJ09211CCR90025	20	90%
KJ09211CCR90210	210	90%

Chemcure R90 W.B. Concrete Curing Membrane

Chemcure R90 WB is a unique, environmentally friendly, water based concrete curing membrane of aqueous resin emulsion containing fine particles of hydrocarbon resin. Held in suspension by carefully selected emulsifiers, when applied to freshly placed concrete act as a curing agent with a water retention efficiency in excess of 90%.

Item Code	Size (Ltrs)
KJ09211CCWB90025	25
KJ09211CCWB9210	210

Curecote Super Acrylic Curing Membrane

Curecote Super is a clear styrene acrylic curing and sealing compound designed for application to freshly cast concrete to provide a highly efficient curing membrane. The applied coating remains on the concrete surface to provide a dust free abrasion resistant surface which readily accepts the application of many subsequent finishes. Curecote Super may also be used as a clear sealer on aged concrete to dustproof and provide a surface which is more easily cleaned.

Item Code	Size (Ltrs)
KJ09211CCSUP020	20
KJ09211CCSUP210	210

Aquatard Concrete Topface Surface Retarder

Aquatard Concrete Topface is an aqueous spray applied top face retarder developed for application onto freshly placed horizontal concrete to produce an exposed aggregate surface, excellent for receiving subsequent concrete or toppings.

Item Code	Size (Ltrs)
KJ09101ATTF005	5
KJ09431ATTF025	25
KJ09431ATTF210	210

Aquatard Formwork Retarder

Aquatard Formwork Retarder is an environmentally friendly, non-flammable pigmented retarder designed to produce an exposed aggregate surface which gives an excellent key for subsequent concreting or surface treatments. It is ideal for construction joints and rendering applications.

Item Code	Size (Ltrs)
KJ09431ATFW005	5
KJ09431ATFW025	25
KJ09101ATFW210	210

Chemclean Acidic Cleaner

Chemclean is a specially selected blend of inhibited inorganic acids, ideal for the removal of all cement based contamination and rust from a wide range of surfaces.

Item Code	Size (Ltrs)
KJ09101BRIKACID	5
KJ09541CHCLE25	25

Formstrike MRO Concrete Release Agent

Formstrike MRO is a versatile neat oil with surfactant which is designed to give optimum release and surface finish for a wide range of formwork materials. Complies with the British Cement Association, Category 2.

Item Code	Size (Ltrs)
KJ09101FORMS020	20
KJ09101FORMS210	210

A range of Formwork Treatments for use on timber, steel and other types of formwork to provide a high quality concrete finish.

Formstrike WB Mould Oil

Formstrike W.B. is a blend of bio-degradable oils emulsified in water and is designed for use in general site operations and precast yards. The oil forms a physical barrier between the form and the concrete, with the surfactant working in conjunction with the alkalinity of the concrete to produce a high standard of finish.

Item Code	Size (Ltrs)
KJ09101FSWB025	20
KJ09101FSWB210	210

Chemlease Chemical Release Agent

Chemlease is an internationally accepted formulation giving an optimum of release and concrete finish for all types of formwork. This is achieved by the chemical formation of complex soaps at the concrete interface, which is a very different concept to conventional mould oils.

Item Code	Size (Ltrs)
KJ09101CHLEA005	5
KJ09101CHLE0025	20
KJ09101CHLE0210	210

Biolease Standard Mould Release Agent

Biolease Standard is a blend of bio-degradable vegetable oils emulsified in water and is designed for use in general site operations and precast yards. The oil forms a physical barrier between the form and the concrete, with the surfactant working in conjunction with the alkalinity of the concrete to produce a high standard of finish.

Item Code	Size (Ltrs)
KJ09101BIOLS025	25
KJ09101BIOLS210	210

Nulease Varnish Formwork Coatings

Nulease is a specifically formulated system designed to give the maximum protection to all types of timber formwork and moulds made of concrete to ensure production of high quality concrete finishes. Nulease Standard is recommended for sealing and protecting general formwork where the criteria is for multiple re-use. Nulease Matt should be used for the production of high quality concrete finishes due to its greater grain filling properties and matt finish which reduces crazing and hydration staining.

Item Code	Type	Size (Ltrs)
KJ09431NULEA001	Standard	1
KJ09431NULEA005	Standard	5
KJ09431NULEA025	Standard	20
KJ09431NULMA05	Matt	5

Nulease WB Waterbased Formwork Coating

Nulease WB is a water based acrylic urethane clear sealer designed for applications onto wood and concrete formwork. This environmentally friendly product is characterised by its rapid drying, hard wearing, non-yellowing properties which gives maximum protection to timber formwork and moulds and helps ensure reproduction of high quality concrete finishes.

Item Code	Size (Ltrs)
KJ09431NULWB05	5
KJ09101NULWB25	25

Formfill Formwork Repair Paste

Formfill is a pre-mixed polyester resin paste to which a small amount of reactive hardener paste is added to produce a fast-setting compound, highly resistant to impact, abrasion, oil, water, and concrete alkalis. Specially formulated for the rectification of surface damage and irregularities on all types of timber and metal formwork, and for the filling of small imperfections and cracks in concrete surfaces.

Item Code	Type	Pack Size
KJ09101FFREPI5	Paste	1.5kg
KJ09101FFREP07	Paste	7kg
KJ09101FFHAR50	Hardener	50g

Multi-Purpose Hole Filler

Multi-Purpose Hole Filler 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 is supplied as a single component system requiring only the addition of clean water to give a rapid setting, yet durable high strength mortar. It 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.

Item Code	Pack Size (kg)
KJ09101TSEL08	8

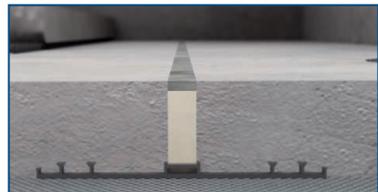
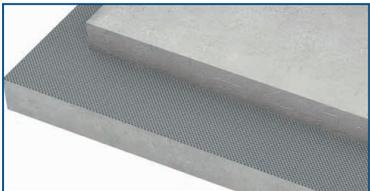
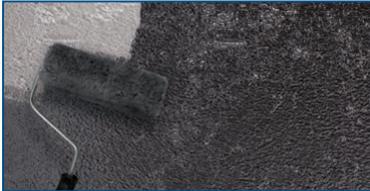
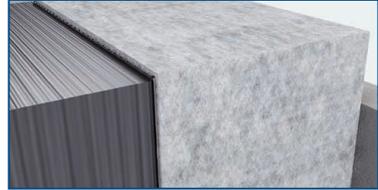
Formwork Foam

Formwork Foam is an adhesive foam strip designed to seal inaccessible joints to prevent grout loss.

Item Code	Width (mm)	Pack Size (mtr)
KJ09431NUFOAM12	25	12

Waterproofing

ROM offers a full Range of waterproofing products supplied by leading manufacturers.



Products Include:

- Self Adhesive Waterproofing Membranes
- Liquid Applied Membranes
- Cementitious Waterproofing Coatings
- Concrete Repair and Protection Products

RFA-Tech PVC Waterstops

The RFA-Tech range of PVC Internal and External Waterstops are designed to provide an integral sealing system for movement and construction joints in concrete cast in-situ.

Internal PVC Waterstops are specifically developed with their unique rib and bulb profiles, to provide a totally effective water barrier when cast centrally within wall and floor joints. They have been tested to withstand ingress of water in construction and expansion joints in water retaining and excluding structures.

External PVC Waterstops are high performance profiles, specifically developed to seal joints in concrete structures at the outside surface, thus preventing the reinforcing steel against corrosion attack, in addition to providing a totally watertight seal. They have been independently tested to withstand ingress of water in construction, expansion and kicker joints in water retaining and excluding structures.



Item Code	Type	Width (mm)	Roll Length (mtr)
KW21115INT20015	Internal	200	15
KW21115INT25012	Internal	250	12
KW21115EXT20015	External	200	15
KW21115EXT25012	External	250	12

Fosroc Supercast PVC Waterstops

The Fosroc Supercast range of PVC Internal and External Waterstops are designed to provide an integral sealing system for movement and construction joints in concrete cast in-situ.

Internal Supercast Hydrofoil centre bulb sections are used in expansion, contraction and construction joints. The centre bulb allows for movements in a structure to be accommodated, whilst its hexagonal design provides a flat surface. This allows shuttering and joint fillers to fit snugly.

External Supercast Rearguard S sections incorporate a flat top centre box which allows movement to be accommodated in expansion joints. The centre box also provides a seating to support joint fillers. They can also be used in both contraction and construction joints.



Item Code	Type	Width (mm)	Roll Length (mtr)
KW21115HYDRO150	Internal	150	15
KW21115HYDRO200	Internal	200	12
KW21115HYDRO250	Internal	250	12
KW21115REARG150	External	150	12
KW21115REARG200	External	200	12
KW21115REARG250	External	250	12

PVC Waterstop Hot Knife

The PVC Waterstop Hot Knife is used to assist the on-site jointing of all of our PVC waterstops. It is used to provide high quality joints, ensuring a watertight continuation of the PVC waterstop network being installed.



Item Code	Pack Size
KW21115HOTKNIFE	Each

PVC Waterstop Jointing Jig

The PVC waterstop jointing Jig is used to assist the on-site jointing of all of our PVC waterstops. It is used to provide high quality joints, ensuring a watertight continuation of the PVC waterstop network being installed.



Item Code	Pack Size
KW21115WSJIG250	Each

Bentorub

Bentorub is a green, flexible hydrophilic bentonite strip used for the sealing of construction joints in concrete. It is made from natural bentonite clay and synthetic rubber. Bentorub is designed for sealing construction joints, cold joints and working joints in concrete, around pipe penetrations, in sewer joints, against slurry walls and sheet piling, etc.

Bentorub has a proven track record in water treatment plants, water purification plants, underground parking lots, water reservoirs, swimming pools, water tanks, metro-works and other concrete structures subject to high water pressure up to 8 bar. The strip can be easily installed by nailing 4 to 5 nails per metre or glued with Contact Adhesive, Swellseal Mastic or Bentoglu. It is recommended to protect the Bentorub strip using the Bentorub fixing cage.



Item Code	Depth (mm)	Width (mm)	Roll Length (mtr)
KW21104BRUB2025	20	25	5

Swellseal joint

Swellseal joint is a co-extruded, vulcanised hydrophilic rubber strip used primarily for sealing joints in precast elements. It can also be used for sealing construction joints, pipe penetrations and joints in underground precast elements and structures. The ridged finish ensures a good adhesion to concrete, and it can be easily installed by nailing 4 to 5 nails per metre, or glued with Swellseal Mastic or Contact Adhesive in horizontal applications.



Item Code	Depth (mm)	Width (mm)	Roll Length (mtr)
KW21110SEALJNT	7	25	10

Swellseal 3V

Swellseal 3V is a tough, hydrophilic waterproofing strip made from a combination of an elastomer and a hydrophilic resin. It can be used for sealing joints between concrete precast elements, horizontal and vertical construction joints, sealing pipe penetrations, sealing concrete to steel joints and tunnel segments. It requires a minimum of 100mm concrete cover on all sides.



Item Code	Depth (mm)	Width (mm)	Roll Length (mtr)
KW21110SEAL3VF	5	20	15

Dual Seal Bentonite Waterstop

Dual Seal Waterstop is a Bentonite/HDPE based waterstop which reacts in contact with water by swelling to form a watertight seal in concrete structures. It can be installed directly onto scabbled surfaces and will swell into voids up to 12mm deep. It has been independently tested up to 30 metre head of water, has full WRAS approval for use with potable water, and can be applied to green concrete and in damp conditions.



Item Code	Depth (mm)	Width (mm)	Roll Length (mtr)
KW21110DSWS	7	25	8

Hydrotite

Hydrotite is the original expanding rubber seal, used in a variety of applications for sealing joints against water penetration. It is a hydrophilic waterstop which exhibits excellent durability and water sealing capacity, it expands as it absorbs water and fills up concrete joint gaps conforming to the gap variation, ensuring excellent sealing.

Hydrotite CJTA is an advanced formulation of Hydrotite CJ that reduces premature expansion before installation, even on contact with moisture. Only in the alkaline conditions found in fresh concrete will Hydrotite CJTA start absorbing water, making it ideal on projects where higher than average rainfall or groundwater levels are expected, or where there may be a delay between application and the second concrete pour.



Item Code	Depth (mm)	Width (mm)	Roll Length (mtr)
KW21110CJ0725	7	25	10
KW21110CJTA20X5	5	20	10

Swellseal Mastic

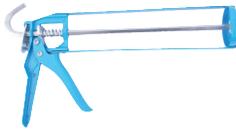
Swellseal Mastic is a one-component, polyurethane based, solvent free, hydro-swelling mastic. It is used for the sealing of construction joints and around pipe penetrations and can also be used as an adhesive to secure other waterstops.



Item Code	Pack Size
KW21110SSEALMAS	310 ml

Skeleton Gun

The Skeleton Gun is for use with all types of 310ml cartridge.



Item Code	Pack Size
KW21120SKELGEN	Each

Contact Adhesive

Contact Adhesive is used for the installation of self-swelling waterstops.



Item Code	Size (Ltrs)
KW21110SEALCON	1

Bentorub Fixing Cage

Bentorub Fixing Cage is a galvanised steel wire mesh used for the secure installation of Bentorub in horizontal and vertical applications.



Item Code	Pack Size (mtr)
KW21110BCAGE	30

Additional Products

Geotextile

ROM Offers a Full Range 'Wrekin' Woven and Non Woven Geotextile Sheeting and Auxilliary Products



Ground Gas Protection

ROM offers a full range of High Quality Gas Protection products and Associated Components

- Range of Gas Barrier Membranes
- Tapes
- Preformed Corners, Cloaks & Top Hats



GRACE



Grouts, Mortars and Resins

ROM offers a full range of non shrink cementitious and resinous grouts for structural repair, bedding and anchoring



Anchor Channel Systems

ROM offer a full range of CE marked Cold Rolled Anchor Channel Systems and T Head Bolts for the safe and secure anchoring of structural components into reinforced concrete



Precast Solutions

We supply an extensive range of precast lifting and fixing products and systems for concrete manufacturers, with CE Approval for all relevant products.



Threaded Systems

Includes:

- Sockets
- Inserts
- Anchors
- Lifting Loops



Spread Anchor Systems

Capstan Anchor Systems
Utility Anchor Systems



Precast Accessories

Includes:

- Fixing Screws
- Nailing Plates
- Leveling Shims



1. INTERPRETATION

In these Conditions (unless the context otherwise requires) the following words shall have the following meanings:

"Buyer" means a person to whom the Seller supplies or is to supply Goods and Services pursuant to a Contract;

"British Standards" means those standards set by the British Standards Institute applicable to the Goods and Services;

"Conditions" means these terms and conditions of sale as amended from time to time; "Contract" means a contract for the sale of Goods or Services made by or on behalf of the Seller with a Buyer in accordance with these conditions; "Goods" means the goods which the Seller supplies pursuant to a Contract;

"Product Guide" means any guide to Goods or Services issued by the Seller from time to time; "Services" means the services which the Seller provides pursuant to a Contract; "Seller" means ROMTECH Limited a company registered in England and Wales under number 3719493, registered office at Building 58, Castle Works, East Moors Road, Cardiff, CF24 5NN. "Working Day" means any day from Monday to Friday (inclusive) which is not Christmas Day, Good Friday or a statutory holiday in England.

2. ADDITIONAL CLAUSES

21 The Order constitutes an offer by the Buyer to purchase Goods in accordance with these Conditions.

22 When the Buyer issues a purchase order this conduct shall be taken as evidence of an unconditional acceptance at which point and on which date the Contract shall come into existence.

23 The Contract constitutes the entire agreement between the parties. The Buyer acknowledges that it has not relied on any statement, promise, representation, assurance or warranty given by or on behalf of the Seller which is not set out in the Contract.

24 These Conditions apply to the Contract to the exclusion of any other terms, that the Buyer seeks to impose or incorporate, or which are implied by trade, custom, practice or course of dealing.

25 Notwithstanding the fact that the Seller does not continue to dispute the purported imposition of the Buyers own terms, the Buyers terms and conditions shall not bind the Seller or prevail over these terms.

3. GENERAL

31 These Conditions are to apply in preference to and supersede any terms and conditions referred to or offered or relied on by the parties whether in negotiation or at any stage in the dealings between the Seller and Buyer with reference to the Goods and Services to which this Contract relates. They represent the entire agreement between the parties. Without prejudice to the generality of the foregoing the Seller will not be bound by any standard or printed terms furnished by the Buyer in any document unless such terms are expressed in writing by a duly authorised executive of the Seller. No oral variation of these Conditions can be agreed in any circumstances.

32 Any representations made prior to the formulation of the Contract, including any literature, descriptions, specifications, or oral or written statements or any combination, the Buyer hereby acknowledges were not relied on by him. The Buyer hereby acknowledges that it has not relied on the Contract on the basis of any representation, made oral or in writing, by the Seller, its employees or agents and that he therefore relied on his judgment alone when entering into the Contract.

33 In the event of delivery being delayed by fire, accident, strikes, lockouts, delay in receipt of materials or bought-in goods or any other Condition beyond the reasonable control of the Seller, a reasonable extension of time for delivery shall be granted and the Buyer shall pay such reasonable extra charges as shall have been occasioned by the delay. However, the Seller shall have the right to suspend or terminate the Contract, on giving written notice. During any period of such suspension the Seller shall have the right to terminate the Contract, subject to further notice in writing. Where the Contract is suspended by the Seller the obligations imposed on either party by the contract shall be held in abeyance for the period of such suspension. Where the Seller elects to terminate the Contract, such termination shall not affect liabilities on the Buyer's part which fell due before termination.

34 Any quotation is without engagement and is subject to written confirmation by the Seller on receipt of order.

35 The Seller's quotation (if any) is made on the understanding that the whole of the quantity of the Goods and/or Services quoted for will be ordered and supplied. Cancellation of all or part will not be void unless accepted by the Seller in writing in which case the Seller will be entitled to resupply the Goods and/or Services at the Seller's discretion.

36 Prices quoted are based upon current conditions, costs of labour, materials and statutory charges and are subject to increase without notice to take account of variations of alterations in the same. The Seller accordingly reserves the right to adjust the invoice in the event of any increase in the cost of materials, transport or of labour and/or to take account of any other costs, which may arise as a result of legislation or by reason of any other event unknown to the Seller at the date of quotation.

37 The following provisions shall apply to all Goods supplied:

371 There will be a minimum charge of £100.00 per invoice.

372 Any orders or call-offs consisting of Rebar under 8 tonnes per delivery or Fabric under 2 tonnes per delivery will attract an additional lump sum charge of not less than £50.00.

373 There will be an additional minimum charge of £60.00 per crane off-load delivery.

374 All other deliveries of a value of less than £400.00 will be subject to a minimum carriage charge of £50.00 per delivery.

375 Where the Buyer requests that the Goods be dispatched by Courier Express, TNT, British Rail, Red Star or similar means, carriage will be charged and payable at an agreed cost.

376 Any charges referred to in Condition 2.72 or 2.73 above shall be in addition to the Seller's standard carriage charges.

377 Rebar schedule amendments notified after receipt of original schedule will be charged at £25.00 per amendment or a lesser figure as may from time to time be agreed.

378 The Seller reserves the right to make a "waiting time" charge for the time during which a lorry making a delivery is held on site in excess of a period of one hour.

4. DELIVERY

41 Contract orders to the delivery or collection of the Goods or performance of the Services are to be accepted by the Buyer as estimates only and no action will lie for failure on the Seller's part, however caused, to meet any such dates.

42 Where the Buyer fails to accept delivery of the Goods or fails to arrange for their collection at the agreed time, then the risk in such Goods is to lie with the Buyer and the Seller may, without prejudice to any other rights it may have, make such of the following provisions as it considers appropriate:

421 Store the Goods at the Buyer's expense.

422 Insure the Goods at the Buyer's expense.

423 Make additional charges for any further transport costs.

424 Proceed to sell the Goods, on giving written notice to the Buyer, and any loss suffered shall be debt owed by the Buyer on the Seller as though it were part of the invoice price.

425 Maintain a lien on any property of the Buyer with a right to sell any such property which is in the Seller's possession, until such time as the Buyer has paid in full the amounts outstanding. Where the Seller exercises its rights to sell, it will continue to maintain a lien on any property of the Buyer for any other amounts outstanding and for any costs and expenses incurred in relation to the Goods. The foregoing provisions are also to apply where delivery or collection of the Goods has been delayed or deferred by the Buyer's request, even though the Seller may have accepted or such request.

43 Where the Goods have been delivered by the Buyer, whether or not such receipt of it is acknowledged in writing, the Buyer hereby agrees that he will be deemed to have examined the Goods and to have accepted that they meet fully the obligations imposed by this Agreement on the Seller.

44 The following shall apply as to the place of delivery:

441 The place of delivery shall be such place as has been previously expressly agreed or implied, or where there is no indication, it shall be the Buyer's usual place of business.

442 Where the place has been previously agreed, the Seller may, at its absolute discretion, agree to a request for alteration, the Buyer being responsible for any additional costs involved.

443 The foregoing provisions are without prejudice to the Seller's right to change any place of delivery previously agreed, and for any costs and expenses incurred in relation to the Goods. The Seller will bear any such costs necessitated by such change by deduction from invoice price or other means, except where such changes arise from circumstances for which the Buyer could reasonably be held responsible.

444 Where a change of place is necessitated for reasons for which the Buyer is properly held responsible, and in the opinion of the Seller no suitable alternative place can be determined, then the contract may be terminated at the discretion of the Seller and in this event an action may be maintainable against the Buyer as a breach of Contract.

46 At the cost of the Buyer the Seller will arrange for the transportation of the Goods as the Buyer's agent to the Buyer by a haulage company. Such transportation costs shall be included on the invoice to the Seller for the Goods.

47 Unless otherwise expressly agreed, the Seller may effect delivery in one or more instalments. If delivery is effected by instalments, each instalment shall be treated as a separate Contract.

48 Section 32(2) of the Sale of Goods Act 1979 does not apply and the Seller is not required to give the Buyer the notices specified in section 32(3) of that Act.

5. WARRANTY AND LIABILITY

51 Liability for short delivery, defective Goods, damage in transit or faulty workmanship will not be considered unless notification in writing is received by the Seller as follows:

511 In the case of Goods delivered by the Seller their servants or agents to site, or to the premises of the Buyer, within seven days of such delivery and on condition that the Goods so delivered shall be retained as delivered and made available for inspection by or on behalf of the Buyer at a reasonable time after such notification.

512 In the case of materials collected from the Seller by or on behalf of the Buyer, within seven days of such collection and on condition that the materials so delivered shall be retained as delivered and made available for inspection by or on behalf of the Seller for a reasonable time after notification.

513 In the case of Services carried out by the Seller on site, within seven days of the execution of such Services and before being concreted and/or permanently incorporated in the structure.

52 For the purposes of this Condition time shall be of the essence and in the absence of such notification as aforesaid the quantity and condition of the Goods delivered or collected as the case may be shall be deemed to be in all respects correct and satisfactory.

53 Except as set out in these Conditions, all conditions, warranties and representations, expressed or implied by statute, common law or otherwise, in relation to the supply, non supply or delay in supplying the Goods and Services are excluded to the extent permitted by law.

54 Steel reinforcement will be supplied in accordance with the relevant British Standard and applicable standards of UKCARES (or its successor body). Goods and Services provided will meet the specifications set out in the Seller's Product Guide. The Seller reserves the right to change the specifications of any Goods or Services or any time without incurring obligations, provided that such Goods and Services shall continue to comply with the relevant British Standards and applicable standards of UKCARES. No warranty as to fitness for purpose is to be implied for any Goods or Services. Tools, jigs or any other special equipment used in the course of manufacture or supply shall remain the property of the seller.

55 It is agreed that a firm of rust or mill scale on reinforcement will not constitute grounds for rejection.

56 No representation or statement is made or purporting to be made by any person on the Seller's behalf shall be binding unless subsequently confirmed in writing by the Seller.

57 The Seller's liability in respect of any defective Goods or Services supplied by them or faulty workmanship regarding which a valid claim has been made under Condition 14 hereof will be limited to the delivery to site at the Seller's expense of Goods to replace the defective Goods or re-perform the Services or the remedy of the faulty workmanship and will not extend to any other damage or loss suffered by the Buyer. In particular, but without prejudice to the generality of the foregoing, the Seller will not be liable for loss of profit, damage to plant or for any expenditure incurred on goods supplied or remedial works performed or any consequential or special loss or damage sustained by the Buyer nor for any liability to a third party which the Buyer may incur.

58 Nothing in these Conditions shall exclude or restrict any liability:

581 death or personal injury resulting from negligence; or

582 breach of the obligations arising from section 12 of the Sale of Goods Act 1979; or

583 fraud or deceit.

59 Whenever any third party, including any prosecuting authority, brings an action or intends to bring an action against the Seller as a result of any actual or alleged criminal offence, tort, breach of contract by the Buyer, then the Buyer undertakes to provide the Seller with a complete indemnity in relation to such action. The Buyer shall also indemnify the Seller, to the full extent of any liability incurred, that arises from any negligent act or omission on the part of the Buyer, whether such liability results from litigation or any settlement reached by the Seller with or without the Buyer's consent or howsoever.

6. RISK AND TITLE

61 All risk in relation to the Goods and Services passes to the Buyer on collection of the Goods by the haulage company pursuant to Condition 3.6. However, this provision is without prejudice to the provisions of Condition 5.2 relating to the Seller's retention of title.

62 Property in the Goods shall not pass to the Buyer until the Seller has received in full (in cash or cleared funds) all sums due to it in respect of the Goods; and

621

622 all other sums which are or which become due to the Company from the Buyer on any outstanding account.

63 Until ownership of the Goods has passed to the Buyer, the Buyer shall:

- 6.31 hold the goods on a fiduciary basis as the Seller's bailee;
- 6.32 store the Goods (at no cost to the seller) separately from all other goods of the Buyer or any third party in such a way that they remain readily identifiable as the Seller's property;
- 6.33 not destroy, deface or obscure any identifying marks or packaging on or relating to the Goods; and
- 6.34 maintain the Goods in satisfactory condition and keep them insured on the Seller's behalf for their full price against all risks to the reasonable satisfaction of the Seller. On request the Buyer shall produce the policy of insurance to the Seller.
- 6.4 The Buyer may resell the Goods before ownership has passed to it solely on the following conditions:
- 6.41 any sale shall be effected in the ordinary course of the Buyer's business at full market value; and
- 6.42 any such sale shall be a sale of the Seller's property on the Buyer's own behalf and the Buyer shall deal as principal when making such a sale.
- 6.5 The Buyer's right to possession of the Goods shall terminate immediately if any of the events specified under 9.1 shall occur or if the Buyer encumbers or in anyway charges any of the Goods.
- 6.6 The Seller shall be entitled to recover payment for the Goods notwithstanding that ownership of any of the Goods has not passed from the Company;
- 6.7 The Seller shall be entitled to enter any premises where the contract Goods are stored and take possession of such Goods at any time before full payment is received.
- 6.8 Where the Seller is unable to recover whether any Goods are the goods in respect of which the Buyer's right to possession has terminated, the Buyer shall be deemed to have sold all goods of the kind sold by the Seller to the Buyer in the order which they were invoiced to the Buyer.
- 6.9 On termination of the Contract, howsoever caused, the Seller's (but not the Buyer's) rights contained in this condition 5 shall remain in effect.
- 7. EXPORT SALES**
- 71 If the Goods are sold CIF or FOB or on the basis of other international trade terms, the meaning given to such terms in the International Chamber of Commerce INCOTERMS (as revised from time to time) shall apply, except when inconsistent with any of the provisions contained in these Conditions.
- 72 The Buyer shall secure the price of any Goods sold under an international supply contract as defined by section 26 of the Unfair Contract Terms Act 1977 by establishing in the Seller's favour an irrevocable letter of credit on terms satisfactory to the Seller immediately upon receipt of the Seller's acceptance of an Order and confirmed by a UK bank acceptable to the Seller
- 8. PAYMENT.**
- 81 Payment for Goods and Services shall be made on or before the end of the calendar month following the month of delivery or collection and payment for Goods and Services shall not be delayed if the Goods supplied are not used nor shall payment be delayed pending settlement of any claim against the Seller and accordingly the Buyer shall not be entitled to any right of set off against the purchase price. Non-compliance with the Sellers payment terms shall entitle the Seller to withhold future deliveries and / or labour forthwith. The Buyer shall not be entitled to withhold or delay the whole or any part of payment on the grounds of insufficient or no proof of delivery unless the Buyer has given written notice within 7 days of the invoice date requiring proof of delivery. The delivery notice/invoice copy received on behalf of the Buyer or such other reasonable evidence as may be produced shall be sufficient proof of delivery for this purpose. The Buyer shall otherwise be entitled to require proof of delivery. In the event of payment not being made in accordance with the provisions of this clause then:
- 81.1 The Seller will be entitled to an indemnity from the Buyer for all direct labour, legal and other costs incurred in the recovery of amounts; and
- 81.2 Payment for all other Goods supplied to the Buyer by the Seller shall forthwith become due for immediate payment.
- 8.2 The Seller shall (if applicable) add to the price of the Goods and Services, and the Buyer shall pay, an amount equal to any VAT or other sales tax or duty applicable from time to time to sales or supplies of such Goods and Services.
- 8.3 If the Buyer fails to pay any amount due to the Seller under any Contract on the due date, interest shall be added to such amount at the rate of 4% over the base rate for the time being of Barclays Bank plc for the period from and including the date of receipt (whether before or after judgment).
- 8.4 If, in the Seller's view, the Buyer's credit-worthiness deteriorates before delivery of the Goods or performance of the Services, the Seller may require payment in full or in part of the price prior to delivery or performance, or the provision of a price prior to delivery or performance, or the provision of security for payment by the Buyer in such form as is acceptable to the Seller.
- 8.5 The Seller reserves the right to alter or withdraw at any time any credit allowed to the Buyer.
- 8.6 The Seller may offset any amount owing to it from the Buyer against any amount owed to the Buyer by the Seller.
- 9. INFRINGEMENTS OF THIRD PARTY RIGHTS**
- 91 The Seller is not liable to the Buyer if the Goods or Services infringe or are alleged to infringe the rights of any third party if such Goods or Services are supplied pursuant to an international supply contract as defined by section 26 of the Unfair Contract Terms Act 1977.
- 9.2 If at any time it is alleged that the Goods or Services infringe the rights of any third party in the UK or if in the Seller's reasonable opinion such an allegation is likely to be made, the Seller may at its option and its own cost:
- 9.21 modify or replace the Goods or re-perform the Services in order to avoid the infringement; or
- 9.22 procure for the Buyer the right to continue using the Goods or benefit from Services; or
- 9.23 repurchase the Goods at the price paid by the Buyer less depreciation at the rate the Seller applies to its own equipment.
- 9.3 If any claim is made or action brought or threatened which alleges infringement of the rights of any third party:
- 9.31 the Buyer shall notify the Seller as soon as it becomes aware of any such claim;
- 9.32 the Seller shall have control over and, at its own cost, shall conduct any such proceedings in such manner as it shall determine; and
- 9.33 the Buyer shall provide all reasonable assistance as the Seller may request.
- 9.4 The Buyer shall indemnify the Seller against all loss, liability and cost which the Seller incurs in carrying out any work required to be done on or to the Goods or in relation to the Services in accordance with the Buyer's requirements or specifications which give rise to any infringement or alleged infringement of the rights of any third party.
- 9.5 If the Seller or its employees or agents design the Goods or perform the Services pursuant to a commission from the Buyer (whether to fulfil a Contract or otherwise), any intellectual property rights created in relation to such Goods or Services shall vest in the Seller and the Buyer shall do or procure the doing of all such further acts and execute or procure the execution (as a deed or otherwise) of all such documents as may from time to time be necessary to give full effect to this Condition 9.5.
- 10. TERMINATION**
- 10.1 The Seller may terminate or suspend the Contract by notice in writing without liability to itself, but without prejudice to any liability on the Buyer's part accruing before such termination or suspension and treat the Buyer in breach of contract, in the following circumstances:
- 10.11 the Buyer being in breach of any obligation under a Contract or these Conditions;
- 10.12 a meeting being convened, a petition presented, an order made, an effective resolution passed, or notice given for the Buyer's winding up or dissolution (other than for the sole purpose of amalgamation and reconstruction); or
- 10.13 an application being made, or resolved to be made by any meeting of the Buyer's directors or members, for an administration order in relation to it or any party gives or files notice of intention to appoint an administrator of it or such an administrator being appointed; or
- 10.14 an insurancercr taking possession, or a receiver or manager or administrative receiver being appointed, of the whole or any part of the Buyer's assets; or
- 10.15 the Buyer ceasing or suspending payment of any of its debts or being unable to pay its debts as they fall due within the meaning of section 123 of the Insolvency Act 1986; or
- 10.16 a proposal being made for a composition in satisfaction of the Buyer's debts or a scheme or arrangement of its affairs including a voluntary arrangement within the meaning of part I of the Insolvency Act 1986.
- 10.2 On termination of a Contract pursuant to Condition 2.3 or 9.1, any indebtedness of the Buyer to the Seller shall become immediately due and payable and the Seller is relieved of any further obligation to supply Goods or perform Services to the Buyer pursuant to that Contract.
- 11. CONFIDENTIALITY AND SPECIFICATIONS**
- 11.1 The Buyer shall treat all product, customer or business information, drawings, designs and specifications submitted to it by the Seller as confidential and shall not disclose it to any third party without the Seller's prior written consent or use it for any purpose except where authorised to do so by the Seller.
- 11.2 Condition 10.1 does not apply to information which:
- 11.2.1 is at the date of disclosure or becomes at any time after that date publicly known other than by the Buyer's breach of this Condition;
- 11.2.2 can be shown by the Buyer to the Seller's satisfaction to have been known by the Buyer before disclosure by the Seller to the Buyer;
- 11.2.3 is or becomes available to the Buyer otherwise than from the Seller and free of any restrictions as to its use or disclosure;
- 11.2.4 is required to be disclosed by law.
- 11.3 All drawings, designs, specifications and other particulars of dimensions or weight submitted by the Seller are approximate only and the Seller accepts no liability for any deviation from them, nor for any errors, omissions or other defects in any such materials not prepared by the Seller.
- 12. ASSIGNMENT**
- 12.1 The Buyer may not assign or deal in any way with all or any part of the benefit of, or its rights or benefits under, a Contract without the prior written consent of the Seller.
- 12.2 The Seller is entitled at any time to assign or deal with the benefit of any Contract, or sub-contract any work relating to any Contract.
- 13. NOTICES**
- Any notice given by one party to the other in connection with a Contract must be in writing and may be delivered personally or by pre-paid first class post and in the case of post will be deemed to have been given two (2) Working Days after the date of posting. Notices shall be delivered or sent to the last known addresses of the parties or to any other address notified in writing by one party to the other for the purpose of receiving notices in connection with a Contract. Each party may specify by notice to the other a particular individual or office holder to whom any notices served on it are to be addressed, in which case a notice shall not be validly given unless so addressed.
- 14. SEVERANCE**
- 14.1 If any of these Conditions is found by any court or administrative body of competent jurisdiction to be invalid or unenforceable, such invalidity or unenforceability shall not affect the other Conditions which shall remain in full force and effect.
- 14.2 If any of these Conditions is so found to be invalid or unenforceable but would cease to be invalid or unenforceable if some part of the provision were deleted, the provision in question shall apply with such modification as may be necessary to make it valid and enforceable.
- 15. THIRD PARTIES**
- A person who is not party to a Contract shall have no rights under the Contracts (Rights of Third Parties) Act 1999 to enforce any term of such Contract. This condition does not effect any right or remedy of any person which exists or is available otherwise than pursuant to that Act.
- 16. WAIVER**
- The rights and remedies provided by any Contract may be waived only in writing and specifically, and any failure to exercise or any delay in exercising a right or remedy by the Seller shall not constitute a waiver of that right or remedy or of any other rights or remedies. A waiver of any breach of any of the terms of a Contract or of a default under a Contract shall not constitute a waiver of any other breach or default and shall not affect the other terms of such Contract.
- 17. VARIATION**
- No variation or alteration of any of the provisions of a Contractor these Conditions shall be effective unless it is in writing and signed by or on behalf of each party.
- 18. GOVERNING LAW AND JURISDICTION**
- 18.1 A Contract and any matter from or in connection with it shall be governed by and construed in accordance with English law.
- 18.2 Each party irrevocably agrees to submit to the exclusive jurisdiction of the English courts over any claim or matter arising from or in connection with these Conditions.



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KEY TO SYMBOLS					
	Construction		Accessories		Piling
	General Prefabrication		Fabric Mesh		Rebar



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