

PRODUCT GUIDE

**QUALITY PRODUCTS AND
RELIABLE SERVICE**

[Construction Accessories](#)

[Engineered Solutions](#)

[Precast Lifting Solutions](#)

[Steel Reinforcement Products](#)

Established for over forty years as one of the UK's leading specialist construction accessory suppliers, RFA-Tech has built-up an enviable reputation for providing a wide product range together with a rapid and efficient service.

RFA-Tech is recognised as a market leader, supplying major contractors and blue-chip companies, and our continual development maintains and enhances this prominent position. Our product range and market coverage includes:-

RFA-Tech Construction Accessories

RFA-Tech supply the industry tailor-made and stock items directly from our well-stocked regional depots throughout the UK. Our extensive range includes the following:-

- Concrete, Plastic and Wire Reinforcement Spacers
- Groundwork and Slab Accessories
- Waterproofing and Ground Gas Protection
- Construction Chemicals
- Grouts, Mortars and Resins
- Permanent Formwork Systems and Formwork Accessories
- Gabion Baskets
- Column Formers
- Site Test Equipment
- Rebar Couplers
- Brickwork Products

RFA-Tech Engineered Solutions

Our manufacturing facility in Sheffield has ISO9001 and ISO14001 accreditation, and we are proud members of the 'Made in Sheffield' trademark group. We hold CARES Technical Approvals on many of our products and are members of 'Construct' - the concrete structures group.

With over 30 years of manufacturing experience in this area coupled with significant on-going investment, this has enabled flexibility to produce bespoke items to suit individual site requirements and also increase production ensuring availability of stock. The following items are manufactured to order at our factory in Sheffield:-

- Startabox Reinforcement Continuity System
- Sheartech Punching Shear Reinforcement System
- Threaded Rebar Starter Bar and Coupler Systems
- Anchor Channel Systems
- Please refer to the downloads section of our website to access a copy of our Technical Brochure for more information.

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RFA-Tech Precast Lifting Solutions

RFA-Tech supply an extensive range of precast lifting and fixing products and systems for concrete manufacturers. We provide engineered solutions for bespoke precast applications and have a dedicated team of experienced personnel offering sales and technical support to assist in all types of projects.

Our test and inspection laboratory situated in Lichfield, has a comprehensive range of test and inspection equipment calibrated to UKAS standards. We rigorously inspect and test our products and have CE approval for all relevant products. Our quality systems and procedures guarantee that we comply with all relevant legislation and have full traceability from source to factory floor.

Our extensive range of precast lifting and fixing products and systems includes the following:-

- Capstan Anchor Systems
- Utility Anchor System
- Threaded Lifting Systems
- Spread Anchor Systems
- A wide variety of Precast Accessories
- Please refer to the downloads section on our website to access a copy of our Precast Brochure for more information.

RFA-Tech Steel Reinforcement Products

To complement the wide range of accessories, RFA-Tech can also offer a variety of steel reinforcement products, which include:-

- CARES Approved Cut & Bent Reinforcement
- CARES Approved Fabric Reinforcement
- Prestressing Strand and Wire

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Single Cover Concrete Spacers

Single Cover Concrete Spacers are manufactured from glass fibre reinforced cement, and are as strong as the surrounding concrete. They have a wide base for maximum stability when used as recommended for horizontal applications. They are strong, durable, and the optimum choice for heavy-duty steel fixing applications.



Item Code	Cover (mm)	Pack Size
KA02101TUF25	25	500
KA02101TUF30	30	250
KA02101TUF35	35	250
KA02101TUF40	40	250
KA02101TUF50	50	200

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
KA02101TUF1520D	15-20	500
KA02101TUF2530D	25-30	500
KA02101TUF3040D	30-40	250
KA02101TUF3545D	35-45	200
KA02101TUF4050D	40-50	200
KA02101TUF6075D	60-75	50

Triple Cover Concrete Spacers

Triple Cover Concrete Spacers are manufactured from glass fibre reinforced cement, and are as strong as the surrounding concrete. They are recommended for use in vertical applications and the design allows excellent concrete flow and minimises the area of spacer at the surface. They are strong, durable, and the optimum choice for heavy-duty steel fixing applications.



Item Code	Cover (mm)	Pack Size
KA02101TUF2030	20-25-30	500
KA02101TUF3550	35-40-50	200

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

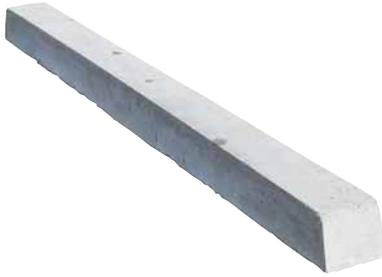
- Maximum spacing 750mm
- Minimum of two spacers per m²

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)
KA02321SQB25	25	1	600
KA02321SQB30	30	1	500
KA02321SQB35	35	1	500
KA02321SQB40	40	1	300
KA02321SQB50	50	1	250
KA02321SQB60	60	1	150
KA02321SQB75	75	1	100
KA02321SQB100	100	1	70

Clip-On Concrete Spacers

Clip-On Concrete Spacers have a double plastic clip for high loads, and are suitable for vertical and horizontal use. They have round supports ensuring minor contact with the formwork.



Item Code	Cover (mm)	Pack Size
KA02101BETON40	40	125
KA02101BETON50	50	125

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)
KE05101UFI15	15	2	100	8,000
KE05101UFI20	20	2	100	5,600
KE05101UFI25	25	2	100	4,800
KE05101UFI30	30	2	100	4,200
KE05101UFI35	35	2	60	2,880
KE05101UFI40	40	2	60	2,400
KE05101UFI50	50	2	60	1,680
KE05101UFI60	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

Minifix Wheel Spacers



Minifix Wheel Spacers have clamping tongues to accommodate a variety of bar diameters. They have an open design which does not interrupt the concrete flow, and outside ribs which minimise contact with the formwork.

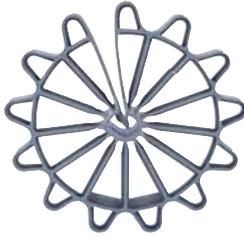
Item Code	Cover (mm)	For Bar Dia (mm)	Pack Size
KE05103M050406	5	4-6	5,000
KE05103M100408	10	4-8	1,000
KE05103M120408	12	4-8	1,000
KE05103M150408	15	4-8	1,000
KE05103M151014	15	10-14	1,000
KE05103M151418	15	14-18	1,000
KE05103M200408	20	4-8	1,000
KE05103M200418	20	4-18	1,000
KE05103M200812	20	8-12	1,000
KE05103M201014	20	10-14	500
KE05103M201216	20	12-16	500
KE05103M250418	25	4-18	1,000
KE05103M250610	25	6-10	500
KE05103M251014	25	10-14	500
KE05103M251216	25	12-16	500
KE05103M251220	25	12-20	1,000
KE05103M251620	25	16-20	500
KE05103M300408	30	4-8	500
KE05103M300412	30	4-12	500
KE05103M300418	30	4-18	500
KE05103M300812	30	8-12	500
KE05103M301220	30	12-20	500

Item Code	Cover (mm)	For Bar Dia (mm)	Pack Size
KE05103M350510	35	5-10	500
KE05103M351020	35	10-20	250
KE05103M400408	40	4-8	500
KE05103M400418	40	4-18	500
KE05103M400812	40	8-12	500
KE05103M401220	40	12-20	250
KE05103M402030	40	20-30	250
KE05103M450812	45	8-12	500
KE05103M500410	50	4-10	250
KE05103M500418	50	4-18	250
KE05103M500812	50	8-12	250
KE05103M501220	50	12-20	250
KE05103M502026	50	20-26	500
KE05103M600418	60	4-18	250
KE05103M601228	60	12-28	100
KE05103M701220	70	12-20	100
KE05103M750418	75	4-18	100
KE05103M752026	75	20-26	100
KE05103M950510	95	5-10	200
KE05103M1000418	100	4-18	75
KE05103M1001232	100	12-32	75
KE05103M1001632	100	16-32	75



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

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

Klemmfix Spacers

Klemmfix Spacers are of sturdy construction for heavy duty applications, whether vertical or horizontal reinforcement. The widespread surface and foot tubes increase the carrying capacity and prevent tipping over.



Item Code	Cover (mm)	For Bar Dia (mm)	Pack Size
KE05105KL150612	15	6-12	1,000
KE05105KL151320	15	13-20	500
KE05105KL200612	20	6-12	1,000
KE05105KL201320	20	13-20	500
KE05105KL250612	25	6-12	500
KE05105KL251320	25	13-20	500
KE05105KL300612	30	6-12	500
KE05105KL301320	30	13-20	500
KE05105KL350612	35	6-12	500
KE05105KL351320	35	13-20	250
KE05105KL401320	40	13-20	250
KE05105KL500612	50	6-12	250
KE05105KL501320	50	13-20	200
KE05105KL601228	60	12-28	100

Distafix Spacers

Distafix Spacers are end caps designed to provide both a suitable cover to the formwork and prevention against rust staining.



Item Code	Cover (mm)	For Bar Dia (mm)	Pack Size
KE05110DI150408	15	4-8	1,000
KE05110DI151016	15	10-16	500
KE05110DI200408	20	4-8	1,000
KE05110DI201016	20	10-16	500
KE05110DI250408	25	4-8	1,000
KE05110DI251016	25	10-16	500
KE05110DI300408	30	4-8	1,000
KE05110DI301016	30	10-16	500
KE05110DI350408	35	4-8	1,000
KE05110DI351016	35	10-16	1,000
KE05110DI400408	40	4-8	1,000
KE05110DI450408	45	4-8	1,000

Quadrofix Spacers

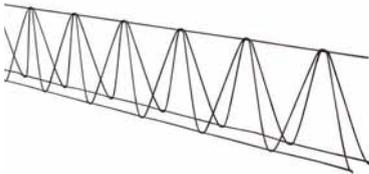
Quadrofix Spacers are plastic spacers designed to minimise contact with the formwork. They are ideal for both exposed aggregate concrete and textured concrete.



Item Code	Cover (mm)	For Bar Dia (mm)	Pack Size
KE05110QUAD20	20	12	1,000
KE05110QUAD25	25	12	1,000
KE05110QUAD30	30	12	500
KE05110QUAD35	35	12	500
KE05110QUAD40	40	12	500
KE05110QUAD50	50	12	500

Continuous Hystools

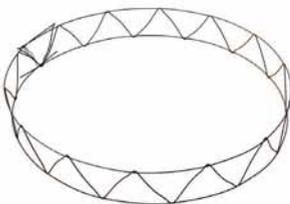
Continuous Hystools are two metres long and are particularly suitable for ground floor slabs as their unique design eliminates any danger of puncturing damp proof membranes. We recommend a minimum of five spacers per standard sheet of mesh.



Item Code	Cover (mm)	Length (mtr)	Pack Size (mtr)
KD04101HO050B	50	2	50
KD04101HO075B	75	2	50
KD04101HO090B	90	2	50
KD04101HO105B	105	2	50
KD04101HO120B	120	2	50
KD04101HO135B	135	2	50
KD04101HO150B	150	2	50
KD04101HO165B	165	2	50
KD04101HO180B	180	2	50
KD04101HO200B	200	2	40
KD04101HO220B	220	2	30
KD04101HO230B	230	2	30
KD04101HO250B	250	2	30
KD04101HO280B	280	2	30
KD04101HO300B	300	2	20

Circular Spacers

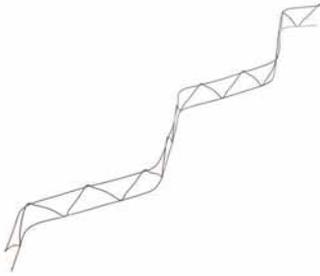
Circular Spacers provide a quick, easy and economical method of supporting reinforcement in concrete slabs. The spacers are delivered in three metre long straight lengths, which can be formed into a circle of one metre diameter. We recommend four circular spacers per sheet of mesh.



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

Individual Hystools

Individual Hystools are freestanding, easy to position, and are manufactured to a height of up to 375mm.



Item Code	Cover (mm)	Pack Size
KD04211HY075	75	Each
KD04211HY100	100	Each
KD04211HY120	120	Each
KD04211HY125	125	Each
KD04211HY135	135	Each
KD04211HY150	150	Each
KD04211HY175	175	Each
KD04211HY200	200	Each
KD04211HY300	300	Each
KD04211HY375	375	Each

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
KO13204WCS8	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

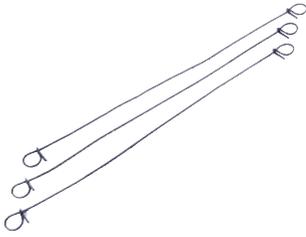
Stainless Steel Tying Wire is 18 gauge wire used where there is a danger of wire off-cuts being left on the formwork and causing staining on the surface of the concrete. It is available in standard 20kg coils or 2kg mini coils.



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

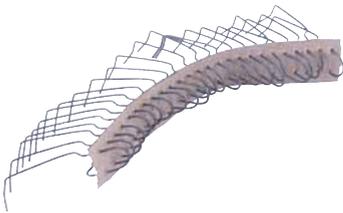
The Tying Tool is for use with the double loop ties.



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

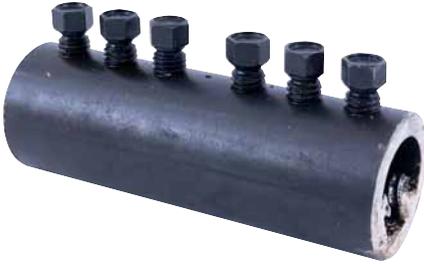
Bundling Wire

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

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 TA1 - 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
KK10111UNITEC12	12	48	140	M12	6	1.6	140	Each
KK10111UNITEC16	16	48	140	M12	6	1.6	140	Each
KK10111UNITEC20	20	51	200	M12	8	2.5	140	Each
KK10111UNITEC25	25	62	240	M16	8	3.8	250	Each
KK10111UNITEC32	32	82	280	M20	8	8.5	680	Each
KK10111UNITEC40	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
KK17103LL12	12	29	127	M12	6	0.57	205	Each
KK17103LL16	16	35	159	M12	6	0.92	205	Each
KK17103LL20	20	44	191	M12	8	1.68	205	Each
KK17103LL25	25	54	254	M16	8	3.37	475	Each
KK17103LL32	32	65	323	M20	8	5.92	680	Each
KK17103LL40	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
KK11103MBT12	12	33.4	140	M12	6	0.72	55	Each
KK11103MBT16	16	42.2	160	M12	6	1.25	108	Each
KK11103MBT20	20	48.3	204	M12	8	1.96	108	Each
KK11103MBT25	25	54.0	258	M16	8	3.00	275	Each
KK11103MBT32	32	71.0	312	M20	10	6.50	360	Each
KK11103MBT40	40	81.0	484	M20	14	11.30	525	Each

Anti-impalement 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-impalement 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

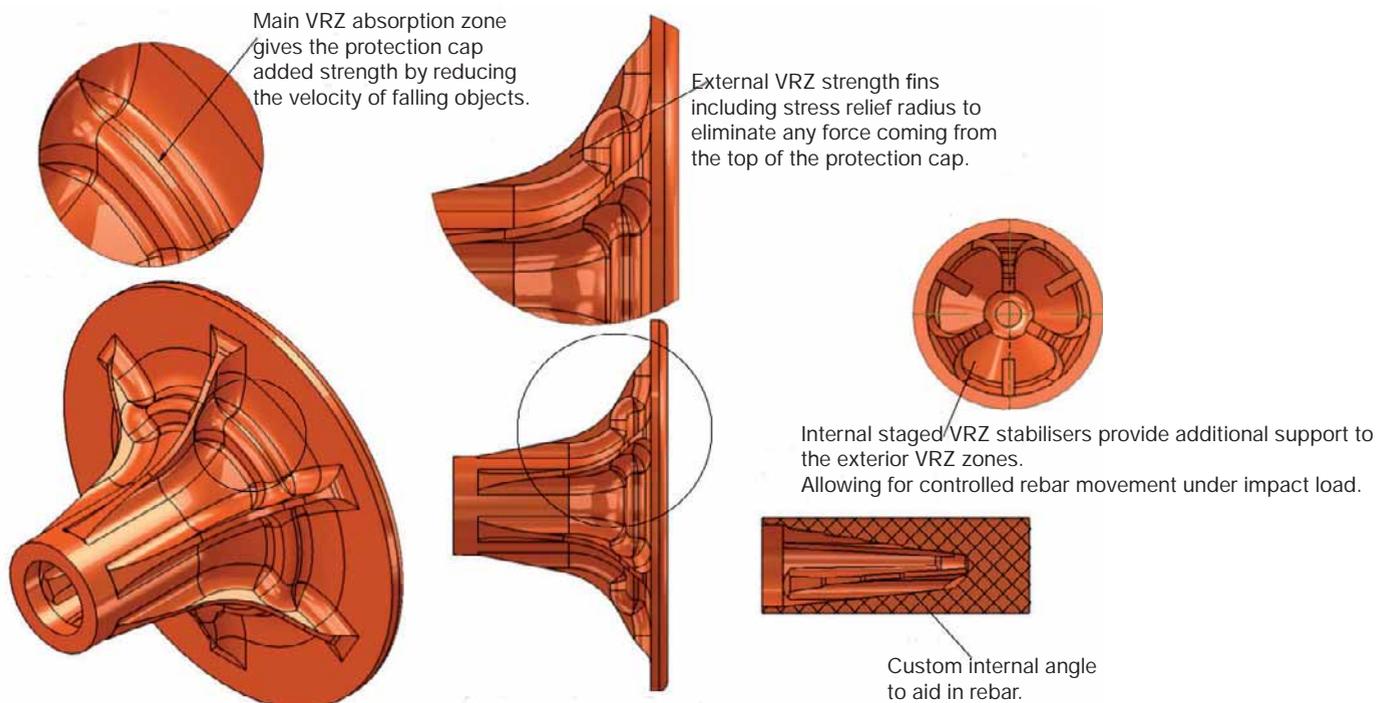
The ReACTer Cap works in two different, but complimentary ways:

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.

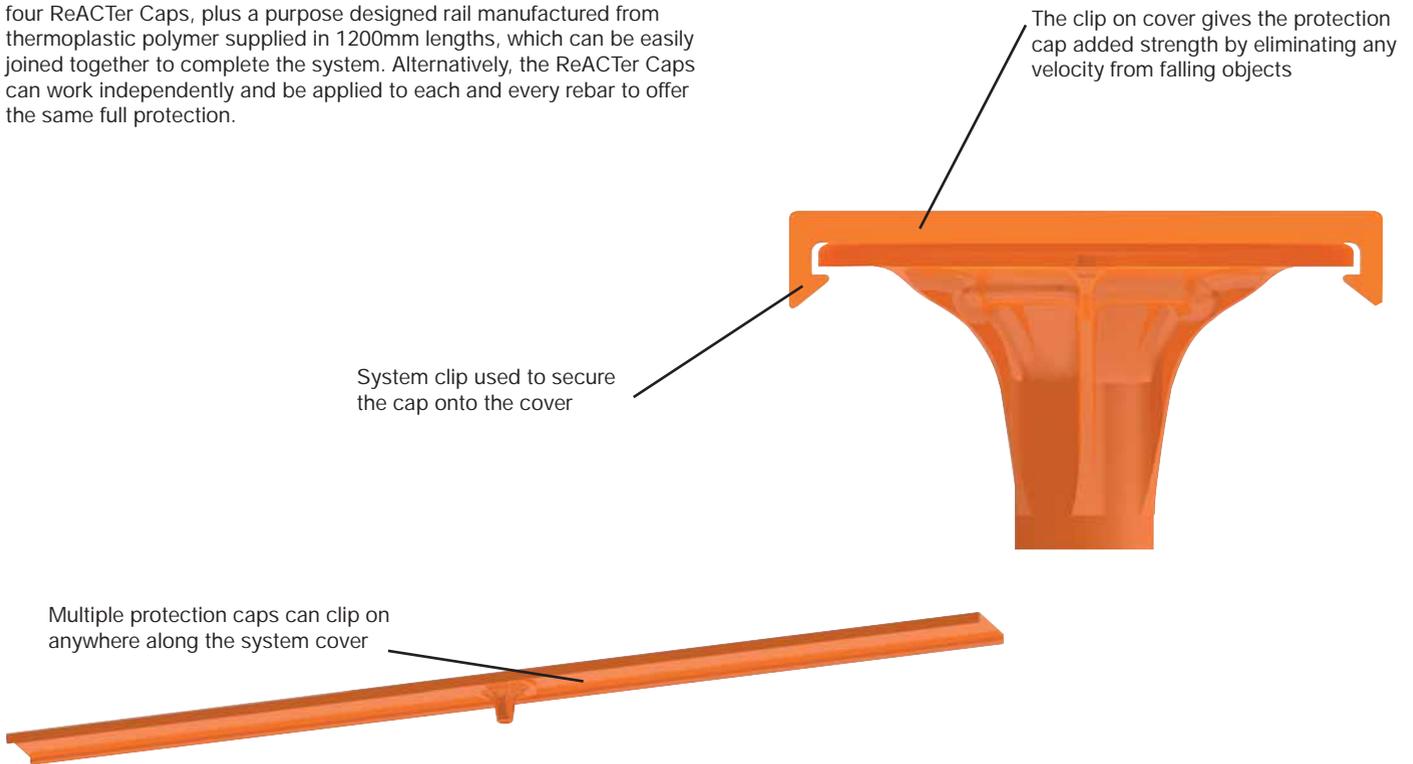
The ReACTer Cap is visually quite unique. The head is flat and approximately 100cm². Below the head of the cap there is a set of ribs to support the head and provide the 'VRZ'.

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
KO13307REA0816	8-16mm Reacter Cap Safety End Cap	20
KO13307REA1632	16-32mm Reacter Cap Safety End Cap	20
KO13307REARAIL	Reacter Rail 1.2mtr Length	Each
KO13307REC0816	Reacter Connector Cap (Small) 8-16mm	20
KO13307REC1632	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

2mm Protection Board

2mm Protection Board is a corrugated polypropylene sheet which is easy to cut, crease or curve to any site requirement.



Item Code	Width (mtr)	Length (mtr)	Pack Size
KF06114PROT2M	1.22	2.44	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
KF06103DB12400	12	400	Each
KF06103DB12500	12	500	Each
KF06103DB12600	12	600	Each
KF06103DB12900	12	900	Each
KF06103DB121000	12	1000	Each
KF06103DB16400	16	400	Each
KF06103DB16600	16	600	Each
KF06103DB16900	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
KF06106DB16400	16	400	Each
KF06106DB16600	16	600	Each
KF06106DB16900	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.

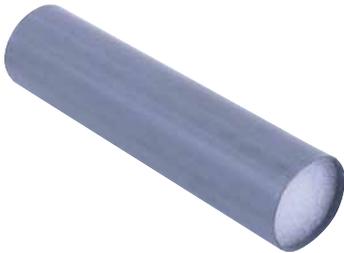


Item Code	Bar Dia (mm)	Length (mm)	Pack Size
KF06104DBS12450	12	450	100
KF06104DBS16300	16	300	100
KF06104DBS16450	16	450	100
KF06104DBS20300	20	300	100
KF06104DBS25300	25	300	100
KF06104DBS32375	32	375	92



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

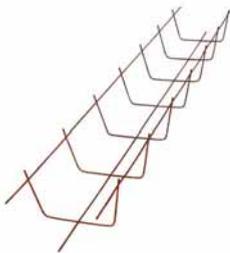
Contraction Dowel Cages are supplied in separate half sections which are placed either side of the joint. They can be used both in road and floor slab construction, and are sold in 1.2 metre lengths and various heights to suit the depth of slab. Other heights to suit deeper slabs are available on request.



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

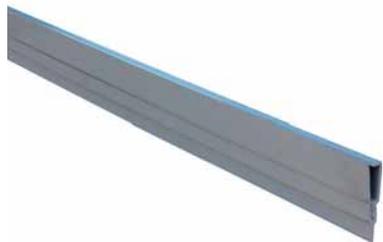
Debonding Compound is a one-part bitumen based coating designed to coat dowel bars in joints where movement is required. It is applied by brush or dipping, and provides a coverage of 1.8-3.6m² per litre.



Item Code	Size (Ltrs)
KJ09431DBAR05	5
KJ09431DBAR25	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)
KF06101CI1050	50	10	5	50
KF06101CI1075	75	10	5	50

Bottom Y Type Crack Inducer

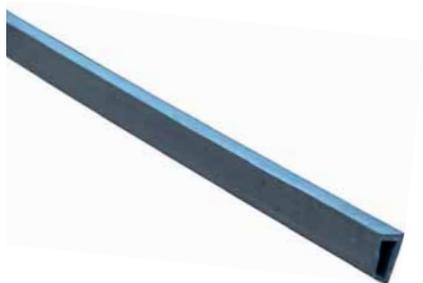
Where slabs exceed 250mm in depth a Bottom Crack Inducer used in conjunction with, and placed immediately below the top crack inducer is recommended. To work effectively it is recommended that the total depth of the top and bottom crack inducers should be between 1/4 and 1/3 of the total slab thickness.



Item Code	Depth (mm)	Length (mtr)	Pack Size (mtr)
KF06101CIBY40	40	5	50
KF06101CIBY75	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
KF06112PJSH10	10	1	2	Each
KF06112PJSH12	12	1	2	Each
KF06112PJSH15	15	1	2	Each
KF06112PJSH20	20	1	2	Each
KF06112PJSH25	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.

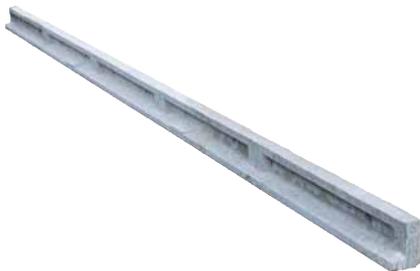
The concrete efficiently penetrates through CombiForm as it is provided with rows of 25mm diameter holes, which also allows reinforcement to pass through. CombiForm is easy to cut in different lengths with an angle cutting machine.



Item Code	Description	Height (mm)	Length (mtr)	Pack Size
KF06108CFORM025	Screed Rail	25	2.2	Each
KF06108CFORM045	Screed Rail	45	2.2	Each
KF06108CFORM065	Screed Rail	65	2.2	Each
KF06108CFORM085	Screed Rail	85	2.2	Each
KF06108CFORM105	Screed Rail	105	2.2	Each
KF06108CFORM125	Screed Rail	125	2.2	Each
KF06108CFORM145	Screed Rail	145	2.2	Each
KF06108CFORMTOP	Top Extender	30	2.2	Each
KF06108CFORMPLT	Ground Plate	-	-	Each
KF06108CFTL1300	Adjustment Tool	-	-	Each
KF06108CFRMS060	Screws - 60mm long	-	-	100
KF06108CFRMS090	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)
KF06108CSR100	100	3
KF06108CSR150	150	3

K-Form uPVC Screed Rails

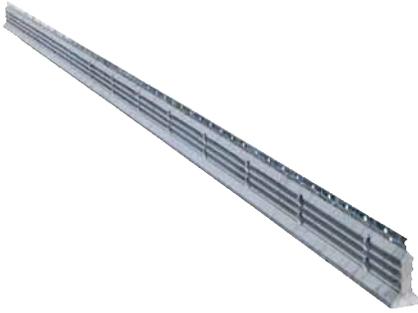
K-Form uPVC Screed Rail is a simple to use shuttering system that can be laid by just one person. As it is made from durable uPVC there is no heavy lifting and no associated health and safety issues. The three metre beams can be cut quickly to length with a hand saw and no specialist equipment is needed. 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)
KF06108KF85MM	85	3
KF06108KF135MM	135	3
KF06108KFEXRAIL	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
KO13719CBB09	229	Each
KO13719CBB12	305	Each
KO13719CBB15	380	Each
KO13719CBB18	457	Each
KO13719CBB21	534	Each
KO13719CBB24	610	Each
KO13719CBB30	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
KO13855PLASBBOX	375	Each

Non-Woven Geotextile - Multitrack 1000

Multitrack 1000 is one of the most commonly specified general purpose non-woven geotextiles and is our alternative to Terram® T1000 GT. It provides excellent separation and filtration properties, making it ideal for use in a variety of construction applications.

Applications for Multitrack 1000

- Separating/strengthening of layers under access roads and areas of hard standing.
- Filter surround for trench drains.
- Separation to stop the intermixing of dissimilar soil layers.
- Filtration - allowing the flow of water whilst preventing the passage of soil.
- Horse arenas - separation of infill materials.
- Filter surround for infiltration tanks.

Item Code	Pack Size
KF06113MULTITRA	Each

Woven Geotextile - Fastrack 609

Fastrack 609 is one of the largest selling general purpose geotextiles in the UK. Designed and manufactured to conform to the old Department of Transport & Highways specification for road and earthworks separation. It provides a cost effective solution for separation and filtration for the general building and domestic markets.

Applications for Fastrack 609

- Separating/strengthening of layers under access roads and areas of hard standing.
- Separation of layers under stone foundations for new buildings.
- Separation of layers under new roads, car parks & industrial areas.
- Separation of granular fill from sub soils and other fill types.

Item Code	Pack Size
KF06113FASTRACK	Each

Concrete Rake

A Dual Face Concrete Rake with a lightweight magnesium head and straight broom handle.



Item Code	Pack Size
KF06114CONCRAKE	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 Waler Plate

The Pressed Waler 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 waler 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 waler plate.



Item Code	For System (mm)	Pack Size
KG07102HEXNUT25	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

Thru Sleeve

Thru 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

Thru Cones

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



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 thruty 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)
KG07101HOS1925	15	30
KG07101HOS2531	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)
KJ09101TSEL08	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)
KG07102CEP15PLN	15	2.5	100
KG07102CEP20PLN	20	2.5	100
KG07102CEP25PLN	25	2.5	100
KG07102CEP30PLN	30	2.5	50

Plastic Chamfer Edge Profile - Flanged

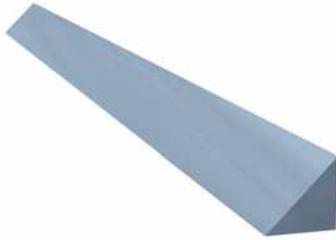
Plastic Chamfer Edge Profile is an extruded plastic section for forming chamfered corners to columns and beams. The nailing flange provides easy fixing to corner moulds and safe stripping, thus ensuring maximum re-use.



Item Code	Width (mm)	Length (mtr)	Pack Size (mtr)
KG07102CEP11FLG	11	2.5	100
KG07102CEP15FLG	15	2.5	100
KG07102CEP20FLG	20	2.5	100
KG07102CEP25FLG	25	2.5	100
KG07102CEP30FLG	30	2.5	50

Steel Chamfer Edge Profile

Hot rolled Steel Chamfer Edge Profile is straightened and cut, and is used for forming chamfered edges in precast concrete structures. It is easily weldable and in particular is suitable for steel formwork, and is supplied in standard four metre lengths.



Item Code	Width (mm)	Length (mtr)	Pack Size
KG07102STECHA10	10	4	Each
KG07102STECHA15	15	4	Each
KG07102STECHA20	20	4	Each
KG07102STECHA25	25	4	Each

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
KG07102DUCTTP50	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

Concrete Rubbing Block

The Concrete Rubbing Block is a carborundum stone for smoothing imperfections in concrete.



Item Code	Pack Size
KG07102RUBBLOCK	Each

Form Anchor

The Form Anchor is versatile, non-corrosive and used mainly for securing single-sided and climbing formwork. It is easily fixed using the plastic cone locator enabling quick formwork erection, with no drilling of plywood. It can also be used for securing slab edge formwork, guard rails, etc. For use with 15mm tie bars.



Item Code	Pack Size
KG07102ANCHORS	Each

Rock Anchor

Rock Anchors are used for securing single sided formwork to an existing concrete structure.



Item Code	Pack Size
KG07101ROCKANC	Each

Polyform Formwork System

Polyform is a high performance corrugated polypropylene shuttering system 7.5mm thick, which combines the benefits of permanent formwork with protection against contaminated ground. Supplied to the customer specification, Polyform offers considerable benefits over traditional formwork methods.



Key features and benefits

- Lightweight and easy to use, reducing labour requirements and improving safety.
- Quick and simple to install.
- No removal required, speeding the construction process.
- Provided in full size sheets, strips, L-shapes or U-shapes; whatever your specification.
- Can be used for trenches and pile caps.
- Cut, creased and delivered within three to four working days in most cases.

Polyform can provide part of a solution to offer protection against

- General groundwater.
- Contaminated ground and ground water.
- Gases such as methane, radon and carbon dioxide.

Polyform shuttering can be supplied as full sheets of 4.4m x 2.4m, or as 'U' shapes, 'L' shapes and strips cut to size.

Paceform Welded Mesh Formwork System

Paceform is a steel mesh reinforced polyethylene shuttering system for use in foundations. Lightweight and easy to use, Paceform can save time and money compared with traditional methods.



Key features and benefits

- Supplied pre-formed to specific requirements.
- Can eliminate blinding concrete.
- Can reduce evacuation width and therefore spoil removal.
- Quick to install, speeding up the construction process.
- No need to remove the formwork – one less activity.
- Full take-off/scheduling service available.
- Site support can be provided.

Paceform can be supplied as 'U' shapes to eliminate the blinding concrete. It can also be supplied as 'L' shapes to the sides only, which may prove more economical on wider sections.

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.



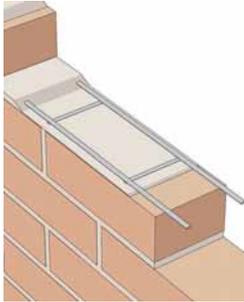
Item Code	Steel Thickness (mm)	Sheet Length (mtrs)	Pack Size
KG18111HY242000	0.4	2	Each
KG18111HY243000	0.4	3	Each
KG18111HY244000	0.4	4	Each
KG18111HY245000	0.4	5	Each
KG18111HY262000	0.5	2	Each
KG18111HY263000	0.5	3	Each
KG18111HY264000	0.5	4	Each
KG18111HY265000	0.5	5	Each
KG18111HY282000	0.6	2	Each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

Flat Wire Ladder Masonry Reinforcement

Flat Wire Ladder Masonry Reinforcement provides additional tensile strength to masonry walls to enhance lateral load resistance. It is supplied in main wire heights of between 3 and 5mm, and widths of between 60mm and 175mm, with a ladder length of 2700mm.

Galvanised Flat Wire Ladder Reinforcement conforms to BS 5628-2 and is manufactured from galvanised steel wire to BS EN 10244-2 for internal walls.

Stainless Steel Flat Wire Ladder Reinforcement conforms to BS 5628-2 and is manufactured from austenitic stainless steel 1.4301 to BS EN 10088-3 with 500N/mm² minimum tensile strength.



Item Code Galv	Item Code S/S	Wire (mm)	Width (mm)	Pack Size (mtr)
KO13950BF30060G	KO13950BF30060S	3.0	60	54
KO13950BF30100G	KO13950BF30100S	3.0	100	54
KO13950BF30150G	KO13950BF30150S	3.0	150	54
KO13950BF30175G	KO13950BF30175S	3.0	175	54
-	KO13950BF35060S	3.5	60	54
-	KO13950BF35100S	3.5	100	54
-	KO13950BF35150S	3.5	150	54
-	KO13950BF35175S	3.5	175	54
KO13950BF40060G	KO13950BF40060S	4.0	60	54
KO13950BF40100G	KO13950BF40100S	4.0	100	54
KO13950BF40150G	KO13950BF40150S	4.0	150	54
KO13950BF40175G	KO13950BF40175S	4.0	175	54
-	KO13950BF45060S	4.5	60	54
-	KO13950BF45100S	4.5	100	54
-	KO13950BF45150S	4.5	150	54
-	KO13950BF45175S	4.5	175	54
KO13950BF50060G	KO13950BF50060S	5.0	60	54
KO13950BF50100G	KO13950BF50100S	5.0	100	54
KO13950BF50150G	KO13950BF50150S	5.0	150	54
KO13950BF50175G	KO13950BF50175S	5.0	175	54

Cast-in Anchorslot

The Cast-in Anchorslot is available in stainless steel and pre-filled with polystyrene to prevent concrete ingress. It is used in conjunction with ties to restrain the brickwork.



Item Code	Length (mm)	Pack Size
KL11221AN100SS	100	250
KL11221AN150SS	150	250

Dovetail Ties

Dovetail Ties are stainless steel ties for use with Cast-in Anchorslot to restrain the brickwork.



Item Code	Length (mm)	Pack Size
KL11221DTL075SS	75	250
KL11221DTL100SS	100	250
KL11221DTL125SS	125	250
KL11221DTL150SS	150	250
KL11221DTL175SS	175	250
KL11221DTL200SS	200	250
KL11221DTL225SS	225	250
KL11221DTL250SS	250	250
KL11221DTL275SS	275	250
KL11221DTL300SS	300	250

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.

Item Code	Tube I/D (mm)	Tube Wall (mm)	Max Pour Height (mtr)	Concrete Required (m3/mtr)	Weight (Kg/mtr)	Pack Size
KR15103CF150GN	150	2.8	6	0.018	1.24	Each
KR15103CF200GN	200	2.8	6	0.031	1.63	Each
KR15103CF250GN	250	3.2	6	0.049	2.08	Each
KR15103CF300GN	300	3.2	6	0.071	2.38	Each
KR15103CF350GN	350	3.7	6	0.096	3.09	Each
KR15103CF400GN	400	4.1	6	0.126	3.52	Each
KR15103CF450GN	450	4.1	6	0.159	4.50	Each
KR15103CF500GN	500	4.6	6	0.196	5.44	Each
KR15103CF550GN	550	4.6	6	0.237	5.99	Each
KR15103CF600GN	600	5.0	6	0.283	6.53	Each
KR15103CF650GN	650	5.0	4	0.332	7.16	Each
KR15103CF700GN	700	5.0	4	0.385	7.71	Each
KR15103CF750GN	750	5.0	4	0.442	8.26	Each
KR15103CF800GN	800	5.5	4	0.502	8.81	Each
KR15103CF850GN	850	5.5	4	0.567	9.36	Each
KR15103CF900GN	900	5.5	4	0.636	9.91	Each
KR15103CF950GN	950	5.5	4	0.708	10.46	Each
KR15103CF1000GN	1000	5.9	4	0.785	11.11	Each
KR15103CF1100GN	1100	5.9	4	0.950	12.11	Each
KR15103CF1200GN	1200	5.9	4	1.130	13.21	Each

Cube Test Mould

The Cube Test Mould is a high quality, four-part design cube mould which meets the requirements of BS1881 Part 108, EN12390-1 and ISO1920. It is available in two sizes - 100mm and 150mm. A cube compacting bar is also available for use with the cube mould.



Item Code	Pack Size
KR15104CUBE100	Each
KR15104CUBE150	Each

Cube Compacting Bar

The Cube Compacting Bar is available for use with the four-part cube mould.



Item Code	Pack Size
KR15104COMPBAR	Each

Curing Tank

The Curing Tank can take up to 30 x 150mm cube moulds, and is made from polyethylene measuring 990mm x 686mm x 635mm overall. The tank is fitted with a 220 volt 3kw heater but also works on 110 volt (although heating will take a little longer). It is fitted with a mechanical thermostat and a galvanised mesh lower rack. The thermostat is factory set to control the tank at 20°C. It is ideal for site use where an economical solution is required, and it meets the requirements of BS1881 Part 111 and EN12390-2.



Item Code	Pack Size
KR15104TANK	Each

Slump Cone

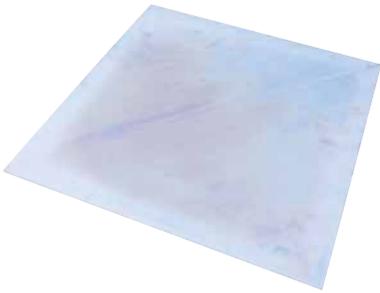
The Slump Cone is designed to measure the workability of concrete. This is carried out by filling the slump cone with fresh concrete in three layers, tamping each one and levelling to the top of the cone. The slump cone is then removed and the distance the concrete falls and slumps, is measured with the rule.



Item Code	Pack Size
KR15104SLUMP	Each

Slump Cone Base Plate

The Slump Cone Base Plate is used in conjunction with the slump cone, which is designed to measure the workability of concrete.



Item Code	Pack Size
KR15104BASEPLT	Each

Slump Cone Tamping Rod

The Slump Cone Tamping Rod is used in conjunction with the slump cone, which is designed to measure the workability of concrete.



Item Code	Pack Size
KR15104TAMPROD	Each

Aluminium Scoop

The Aluminium Scoop is for use with cube moulds and other test equipment.



Item Code	Pack Size
KR15104SCOOP	Each

3.0mm Galfan Wire Gabion Baskets



Gabions are wire mesh baskets manufactured from 3.0mm Galfan Wire, and are filled on site with typically stone or rock to form larger building modules. Galfan wires are best used where the additional PVC coating is not a requirement, such as freshwater river applications and low height retaining walls on dry land, where aesthetics are not paramount.

Advantages

- Welded mesh gabions are faster to erect and do not need tensioning.
- Allows the basket to keep its shape, to be free from bulges and depressions and fit easily against the wall.
- It is possible to cut holes in them if needed to pass pipes, etc. through.
- All gabions are supplied with lacing wire free of charge for assembly.
- In addition to the products below, PVC coated and bespoke sizes are available on request.

Item Code	Wire (mm)	Length (mtr)	Depth (mtr)	Height (mtr)	Pack Size
KR151013050505	3	0.5	0.5	0.5	Each
KR151013101005	3	1.0	1.0	0.5	Each
KR151013101010	3	1.0	1.0	1.0	Each
KR151013151010	3	1.0	1.0	1.5	Each
KR151013201005D	3	2.0	1.0	0.5	Each
KR151013201010D	3	2.0	1.0	1.0	Each

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

For further information please refer to our [Waterproofing, Concrete Protection and Repair brochure](#).

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 Bentogluue. 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

For further information please refer to our **Waterproofing, Concrete Protection and Repair** brochure.

Self-Adhesive Waterproofing Membranes are designed to provide a continuous, self-bonding, waterproof system for below ground structures, subways and retaining walls, preventing the passage of vapour and water.

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

Brand	System	Pack Details
	Bitusheet XL Waterproofing Membrane	1.05m x 19.05m roll (20m ²)
	Bitusheet Standard Primer	5ltr can or 25ltr drum. Coverage: 5-7m ² /ltr
	Bitusheet HP Primer	5ltr can or 25ltr drum. Coverage: 5-7m ² /ltr
	Bituthene LM	5.7ltr pack
	Foam Angle Fillet	40mm x 40mm x 1m length
	Bitusheet Reinforcing Strip	300mm x 20m roll
	3mm Bitusheet Protection Board	3mm x 1m x 2m
	6mm Bitusheet Protection Board	6mm x 1m x 2m
	Double Sided Bitumen Tape	50mm x 15m roll

Brand	System	Pack Details
	Proofex 3000 Waterproofing Membrane	1m x 20m roll (20m ²)
	Proofex Primer	5ltr can or 25ltr drum. Coverage: 5-7m ² /ltr
	Proofex Engage Detail Strip	200mm x 10m roll
	2mm Proofex Protection Board	2mm x 1m x 2m
	3mm Proofex Protection Board	3mm x 1m x 2m
	Proofex LM	28kg pack

Brand	System	Pack Details
	Bituthene 3000	1m x 20m roll (20m ²)
	Bituthene 4000	1m x 20m roll (20m ²)
	Bituthene 4000DW	1m x 20m roll (20m ²)
	Bituthene 8000	1m x 20m roll (20m ²)
	B1 Primer	5ltr can or 25ltr drum. Coverage: 5-7m ² /ltr
	Bituthene GP	25m x 1m roll
	Bituthene LM Detailing Compound	5.7ltr pack
	Bituthene Protection Board	3mm x 0.9m x 2.03m
	Bitustik 4000 Double Sided Tape	150mm x 12m

Brand	System	Pack Details
	Sheetseal 226 Waterproofing Membrane	1.05m x 19.05m roll (20m ²)
	Sheetseal Primer	5ltr can or 25ltr drum. Coverage: 5-7m ² /ltr
	Sheetseal Reinforcing Strip	300mm x 20m roll
	RIW Protection Board	3mm x 0.9m x 2.02m

For further information please refer to our Waterproofing, Concrete Protection and Repair brochure.



Dual Seal Bentonite Membrane

Dual Seal Bentonite Membrane is a premium, high performance, self-swelling and self-healing waterproofing membrane comprising a tough, high density polyethylene membrane sheet laminated to 4kg/m² of quality Bentonite granules. It requires no primer, no protection board or heat welding.



Item Code	Membrane Thickness (mm)	Roll Width (mtr)	Roll Length (mtr)
KW21104DSMEM	5	1.22	7.32

Bitusheet XL Overlap Tape

Bitusheet XL Overlap Tape is an adhesive bitumen based tape used for reinforcing all internal and external edges, intersections and roof expansion joints. The 100mm width is used to seal the overlaps of Dual Seal membrane and also protect the cut end overlaps of Bitusheet gas barrier membrane.



Item Code	Width (mm)	Roll Width (mtr)
KW21104XLTAPE10	100	20

Dual Seal Mastic

Dual Seal Mastic is a trowable mastic, comprising a special formulation of expandable minerals and an elastomeric compound, which expands and stiffens when in the presence of water. It is used to bed-in angle fillets, the sealing of pipe penetrations, filling voids, tie holes and honeycombing prior to installation of Dual Seal.



Item Code	Size (Ltrs)
KW21120DSEALMAS	19

Dual Seal Granules

Dual Seal Granules are a high swelling sodium bentonite in granular form which react in contact with water to form an impervious gel. The granules are used to form an angle fillet and the sealing of voids and pipe entries.



Item Code	Weight (kg)	Yield (Ltrs)
KW21120DSGRAN	22.7	23.6

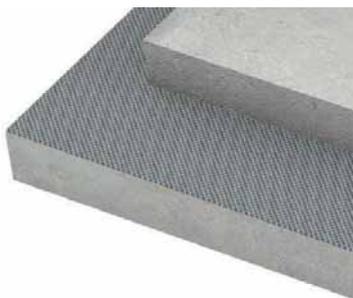
Dual Seal Termination/Fixing Strip

The Dual Seal Termination/Fixing Strip is used to hold the vertical hanging Dual Seal membrane against the wall. It is used to ensure the membrane is retained flat against the vertical wall surface, and is supplied in three metre lengths.



Item Code	Pack Size (mtr)
KW21120DSFXSRP3	3

For further information please refer to our Waterproofing, Concrete Protection and Repair brochure.



Pre-Applied Waterproofing Membranes are designed to bond and remain in place to poured concrete.

Fosroc Proofex Engage

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

A unique patented waterproofing membrane for a range of waterproofing applications including basements and substructures. Proofex Engage provides a water, water vapour and gas protection to water excluding structures, and protects concrete from aggressive ground salts and chemicals.

Proofex Engage comprises a complex mesh bonded to polyethylene membrane, which allows poured concrete to interlock with the membrane, forming a tenacious mechanical bond.



Product	Pack Details
Proofex Engage	1.27m x 30m x 5mm
Proofex Detail Strip	200mm x 10m x 1.5m
Proofex L Section	250mm x 5m
Proofex LM	28kg pack

Grace Preprufe 300R & 160R

Preprufe 300R and 160R membranes are unique composite sheets comprising a thick HDPE film, an aggressive pressure sensitive adhesive and weather resistant protective coating. The unique Preprufe membrane's bond to concrete prevents ingress or migration of water around the structure.

Preprufe 300R is a heavy duty grade for use below slabs and on rafts, e.g. mud slabs. It is designed to accept the placing of heavy reinforcement using conventional concrete spacers.

Preprufe 160R is a thinner grade for blindside, zero property line applications against soil retention systems.

Preprufe 300R & 160R membranes are applied either horizontally to smooth prepared concrete, carton forms, well rolled and compacted earth, or crushed stone substrate; or vertically to permanent formwork or adjoining structures. Concrete is then cast directly against the adhesive side of the membranes. The specially developed Preprufe adhesive layers work together to form a continuous and integral seal to the structure.



Product	Pack Details
Preprufe 300R	1.2m x 30m
Preprufe 160R	1.2m x 35m
Preprufe LT Tape	100mm x 15m roll
Bituthene LM	5.7ltr pack

For further information please refer to our [Waterproofing, Concrete Protection and Repair brochure](#).



Liquid Applied Membranes

RFA-Tech supplies a range of liquid compounds used to waterproof underground structures and to assist in sealing the intricate details of other waterproofing systems.

Brand	Product	Description	Pack Details	Coverage
	Bitusheet Asphaltic Compound	Bitusheet Asphaltic Compound is used in two coats to provide a damp proof membrane in solid floors or for protecting foundations, retaining walls, abutments, beams and similar structures against moisture and attack from sulphates contained within the soil.	25ltr drums	1st coat = 1.5m ² /ltr 2nd coat = 2.5m ² /ltr
	Bituthene LM	Bituthene LM is a two component elastomeric liquid applied detailing compound. It is designed to compliment Grace sheet systems where liquid applied waterproofing is necessary to ensure watertight continuity.	5.7ltr pack	2.5mm x 300mm = 7.6m per pack 20mm fillet = 28.4m per pack
	Liquid Asphaltic Composition	RIW Liquid Asphaltic Composition is a two coat, cold applied damp proof membrane, which dries to a black gloss finish. The coating is a solution of natural and petroleum bitumens in white spirit. It is typically used as a damp proof membrane to ground floors, as a vapour barrier behind cladding and for tanking of basements.	5ltr, 25ltr & 205ltr containers	1m ² /ltr (2 coats)
	Toughseal	RIW Toughseal is a solvent free polymer modified epoxide coating, supplied as a two-part pack base and hardener, in pre-measured proportions. It is typically used to provide a water and water vapourproof barrier, or to give protection against abrasion, fresh and saltwater, carbon dioxide, alkalis and dilute mineral acids.	5ltr & 20ltr packs (two part)	2m ² /ltr (2 coats)
	Flexiseal	RIW Flexiseal is a solvent free thixotropic liquid base on urethane pre-polymers, which in contact with atmospheric moisture, cures to give a continuous tough, rubber-like coating. As a system, it is used in all situations where a high performance tanking or damp proof membrane is required. RIW Flexiseal Primer is used to seal porous or contaminated surfaces, and to aid adhesion of the membrane.	6kg & 25kg containers	1m ² /kg (2 coats)
	Hydrocoat	RIW Hydrocoat is a cold applied, fast drying, two coat black bitumen coating, which dries to form a water and a water vapour barrier. It is used as a barrier against water and water vapour. Typical uses include the protection of iron and steel against corrosion and concrete structures against ground water. The coating may also be used to line tanks where potable water is to be stored.	5ltr, 25ltr & 205ltr containers	3m ² /ltr (2 coats)
	Proofex LM	Proofex LM is a two component bituminous rubber emulsion with special hydraulically hardening fillers used to waterproof external underground structures and intricate details such as pipe entries and covings.	28kg pack	4-6kg/m ² (normal loadings)

For further information please refer to our **Waterproofing, Concrete Protection and Repair** brochure.

Cementitious Waterproof Coatings

RFA-Tech supplies a range of cementitious coatings which provide waterproof and protective barriers for concrete, brick and blockwork surfaces.

Brand	Product	Description	Pack Details	Yield / Coverage
	Cementitious Coat 851 Surface Protection	Designed for internal and external structural waterproofing of concrete and other mineral substrates. It resists positive and negative pressure under 100m head in water retaining and below ground structures, as well as roofs and decks. Provides chloride protection on highway and coastal structures and enhances the durability of reinforced concrete by reinstating effective cover to achieve the specified design life.	30kg Pack	16ltrs
	Cemprotec E942	Provides a hard, durable coating with excellent resistance to water, chloride ions, oxygen and aggressive chemicals. Can be used as a stand-alone anti-corrosion coating for ferrous metals as well as waterproofing and protection of concrete, where enhanced chemical and abrasion resistance is needed. It is pre-packaged in convenient and easy to handle sizes and requires only mixing on site.	15kg Pack 30kg Pack	8ltrs 16ltrs
	Cemprotec Elastic	An elastomeric, cementitious modified coating, which maintains its flexibility under permanent immersion and when exposed externally. It is ideally suited for waterproofing and protecting concrete and masonry structures which exhibit cracking and where further movement is expected. Typical applications include the sealing of water tanks and waterproofing of exposed or buried roofs.	White: 15kg Pack Grey: 30kg Pack	9ltrs 18ltrs
	Cemprotec 2000-S	An advanced, elastomeric, highly tear resistant, breathable, waterproof composite tape. Gives a highly flexible, impermeable seal over live cracks and expansion or construction joints in waterproofing applications.	12cm x 10m Roll 12cm x 50m Roll 20cm x 50m Roll	-
	Aquatek Super XA	High performance, easy to use cement-based slurry for waterproofing concrete surfaces with negative water pressure during application. When mixed with water and applied to a concrete surface it waterproofs and permanently seals through saturation of the capillaries.	25kg Pack	16m ²
	Aquatek Elastic 2C	A two component coating containing cement, selected silicas, fibres, modifiers and water-based acrylic liquid. It cures into a flexible, waterproof coating which allows movement up to 0.6mm to 1.2mm if reinforced with reinforcement mesh.	32kg Pack	8m ²
	Nitocote CM210	A flexible cementitious coating, used for waterproofing water retaining structures and water excluding structures. A two component polymer modified coating supplied in a pre-packaged form designed to be easily mixed on site using a slow speed drill and mixing paddle.	23.2kg Pack	12.5m ²
	Sika 1	Prebatched kiln dried blends of specially graded aggregates and cements packaged in 4 grades at the appropriate mix ratios for optimum application performance and durability. All mortars supplied with coloured band. Spritz Mortar – Red band Render Mortar – Brown band Finishing Mortar – Green band Screed Mortar – Blue band	Mortars: 25kg Bag Liquid Admixture: 25 Litre Drum	-
	Top Seal-107	A two-part polymer modified cementitious waterproof mortar slurry, comprising a liquid polymer and a cement based mix incorporating special admixtures.	25kg Pack	12.5ltrs

For further information please refer to our [Waterproofing, Concrete Protection and Repair brochure](#).



Uraflex One Part Polyurethane

Uraflex is a high movement elastomeric sealant supplied in 600cc foil containers ready for immediate use. It has been tested for use in contact with drinking water and has excellent adhesion properties when used in conjunction with PU Primer 100. It should be used to seal expansion, contraction and construction joints in concrete reservoirs, water treatment works, pumping stations, sewage treatment works, canals and joints in brick and block construction.



Item Code	Description	Pack Size
KW21125URAFLEX	Uraflex One Part Polyurethane	600cc
KW21125PRIMPU100	Primer PU 100	1ltr
KW21125BARREL600	Barrel Gun	Each

Thioflex One

Thioflex One is a one part, gun applied, moisture activated, polysulphide sealant. It is ideal for sealing joints in window and door frame surrounds and as a capping for beaded glazing systems. It can also be used for sealing joints in external walls and cladding.



Item Code	Description	Pack Size
KW21120THFLEX1	Thioflex One 380ml cartridge	Each
KW21126PRIM7	Thioflex Primer 7 - 50ml pack	Each
KJ09651APPLICAT	Applicator Gun 380ml	Each

Colpor 200PF

Colpor 200PF is used for the sealing and maintenance of joints in concrete roads, concrete runways and hard standings. It is particularly suitable for sealing areas where fuel and oil spillage might occur such as aircraft fuelling areas, oil terminals, garage forecourts, parking and cargo areas.



Item Code	Description	Size (Ltrs)
KW21126COLPOR	Colpor 200PF Joint Sealant	5.0
KW21126COLPRIM	Colpor Primer	0.5

Thioflex 600

Thioflex 600 is used for sealing movement joints in building and civil engineering structures, including superstructures, floors, basements and subways, and is available in both gun and pouring grades.

The gun grade is ideal for general application and particularly recommended for use in high-rise buildings and other applications where access for subsequent maintenance will be difficult, and the risk of early movement failure must be minimized. It is also suitable for sealing joints in brickwork, retaining walls, basements and subways.

The pouring grade is recommended for initial sealing of expansion joints and stress relief joints in floors, and sealing other horizontal surfaces.



Item Code	Description	Size (Ltrs)
KW21120TH600G	Thioflex 600 Gun Grade	2.5
KW21126TH600P	Thioflex 600 Pouring Grade	5.0
KW21126PRIM	Thioflex Primer	0.5

For further information please refer to our [Waterproofing, Concrete Protection and Repair brochure](#).

Concrete Repair & Protection Products

RFA-Tech supplies a vast range of concrete repair products, the table below gives you a selection of what we can offer.

Brand	Product	Description	Pack Details	Yield / Coverage
	Aquatek Plug / Plug XF	Provides rapid setting plugging mortars, which can be applied even under water. It stops active water leaks and seepage, even under high pressure.	10kg Pack 25kg Pack	1.45kg per dm ³
	Omnitek RM Fiber	Classified as an R4 class, structural, high strength waterproof repair mortar according to EN1504-3. Suitable for structural and non-structural low and medium thickness concrete repairs. Ideally suited for preparing surfaces before the application of a waterproofing treatment.	25kg Pack	11.5ltrs
	Colflex HN – Joint Sealing Repair Strip	A ready to use NBR rubber tape repair sealing system for cracks and joints in concrete. Suitable for use in joints leaking under both negative and positive pressure and moving joints such as expansion joints.	100mm x 20m 200mm x 20m	-
	Monomix	A low density, high strength, shrinkage compensated mortar for the structural repair, rendering and profiling of vertical, horizontal and overhead surfaces.	25kg Pack	16.5ltrs
	Monolevel FC (Fairing Coat)	A single component, polymer modified, cementitious mortar with high adhesive properties, allowing it to be used as a thin screed, as well as a filler, for filling minor voids and defects to provide a fair faced finish. Supplied ready for on-site mixing and requires only the addition of clean water.	25kg Pack	15ltrs
	Monolevel RM (Render Mortar)	For the rendering and profiling of in-situ and precast concrete in vertical, horizontal and overhead surfaces. A single component, cementitious mortar which cures rapidly to produce a high performance, fair-faced render. Supplied ready for on-site mixing and requires only the addition of clean water.	25kg Pack	14.5ltrs
	Fastfill	A single component, polymer modified, fibre reinforced, Portland cement based repair compound, which is physically and chemically compatible with the host concrete. It exhibits unique hydraulic properties to produce a rapid curing mortar with enhanced polymeric properties and reliable strength development which is not significantly affected by low temperature use.	25kg Pack	13ltrs
	Monotop 610	A single component, cementitious, polymer modified primer for reinforcement protection and also a bonding bridge for Monotop concrete repair mortars.	10kg Pack 25kg Pack	5.0ltrs 12.5ltrs
	Monotop 612	A cement-based, single component, low permeability repair microconcrete, containing silica fume and polymer, meeting the requirements of Class R4 of BS EN 1504-3.	25kg Pack	11.5ltrs
	Monotop 615	A single component, cement based polymer modified high build repair and reprofiling mortar, meeting the requirements of Class R3 of BS EN 1504-3.	25kg Pack	15m ² @ 1mm
	Monotop 620	A single component, cementitious, polymer modified mortar.	25kg Pack	12.5m ² @ 1mm
	Sika Rapid Repair Mortar	A single component, fast setting, cementitious repair mortar, meeting the requirements of Class R4 of BS EN 1504-3.	25kg Pack	11.9m ² @ 1mm
	Sikatop 122	A two component, polymer modified, cement based fibre reinforced concrete waterproof repair mortar.	10kg Pack 25kg Pack	4.7m ² @ 1mm 11.9m ² @ 1mm
	Sikatop 122HB	A two component, polymer modified, cement based high build concrete repair mortar.	10kg Pack 34kg Pack	7m ² @ 1mm 24m ² @ 1mm
	weber.cem HB40	A single component, polymer-modified, high build cementitious mortar designed for structural repairs. It requires only the addition of clean water to produce a lightweight, low permeability, high strength mortar for both soffit and vertical repair situations. The mortar is suitable for repairs to bridges and other structures as specified by the Department of Transport. Will give a final strength of 40kN/mm ² .	20kg Pack	16ltrs
	weber.cem HB30	A single component, polymer-modified, high build cementitious mortar designed for concrete repairs to facades where high compressive strength is not the major consideration. It requires only the addition of clean water to produce a lightweight, low-permeability, medium strength mortar suitable for both soffit and vertical repair situations. Will give a final strength of 30kN/mm ² .	20kg Pack	16ltrs

Brand	Product	Description	Pack Details	Yield / Coverage
	MasterEmaco N 5200	A universal, single component, polymer modified, fast setting, repair, reprofiling and levelling mortar. Ideal for general, non-structural patch repairs where fast setting properties with short over-coating times are needed. Exhibits excellent high build properties allowing up to 100 mm thickness in one layer.	20kg Pack	12.5ltrs
	MasterEmaco S 5300	A single component, lightweight, polymer modified, high build structural repair mortar. Specifically formulated to produce a mortar with the compressive strength and modulus characteristics defined in class R3 of EN 1504 part 3.	20kg Pack	13.5ltrs
	MasterEmaco S 5400	A single component, extra high-strength, high modulus, shrinkage compensated structural repair mortar that meets the requirements of the new European Norm EN 1504 part 3 class R4.	20kg Pack	13.5ltrs
	Nitomortar FC (Fairing Coat)	Epoxy resin fairing coat for filling blow-holes, and eliminating minor irregularities prior to the application of Nitocote and Nitoflor epoxy coatings.	1kg Pack	0.6ltrs
	Nitomortar HB (High Build)	High build epoxy reinstatement mortar for the fast and permanent reinstatement of concrete, particularly where resistance to chemicals is required. Can be used for small, localised patch repairs and because of its lightweight nature, is ideally suited for use in vertical and overhead locations and for emergency repairs where fast strength gain is important.	2.9kg Pack	2.5ltrs
	Renderoc GP (General Purpose)	High performance medium weight concrete reinstatement mortar conforming to the requirements of BS EN 1504-3 Class R3 for the reinstatement of concrete where low permeability characteristics are required but where high compressive strength is not the most important consideration. Specifically developed for vertical repair work.	25kg Pack	16ltrs
	Renderoc FC (Fairing Coat)	A single component polymer modified cementitious fairing coat conforming to the requirements of BS EN 1504-3 Class R2. Designed for application in thin layers to produce a fair-faced appearance to concrete or masonry surfaces in readiness to receive a protective or decorative coating.	25kg Pack	15ltrs
	Renderoc HB (High Build)	High performance lightweight concrete reinstatement mortar conforming to the requirements of BS EN 1504-3 Class R2 for the reinstatement of concrete where low permeability characteristics are required but where high compressive strength is not the most important consideration.	18kg Pack	15ltrs
	Patchroc GP	Fast setting emergency patching mortar for concrete pavements and floors conforming to the requirements of BS EN 1504-3 Class R4 for emergency and permanent reinstatement of localised patches in concrete pavements, airport aprons, access ramps and floors. Particularly useful when interruption of traffic must be minimised. Is alkaline in nature and will protect embedded steel reinforcement. It may be used internally and externally.	25kg Pack	12ltrs
	Paveroc	High performance reinstatement mortar for concrete pavements and floors conforming to the requirements of BS EN 1504-3 Class R4 for the reinstatement of large areas of concrete pavements and floors to avoid the total replacement of bays. Is alkaline in nature and will protect embedded steel reinforcement. It may be used internally and externally.	25kg Pack	11.5ltrs
	Galvafruid	A zinc rich, cold galvanising coating used to provide a galvanic protection on iron and steel. Can be used as a self-finish or as a durable rust inhibiting primer beneath selected top coats. Recommended for the protection of structural steelwork, agricultural and construction plant and machinery, gates, railings, iron pipework and guttering and the rust prevention of in-situ welding work.	6 x 400ml 4 x 800ml 1.9ltrs	-

For further information please refer to our [Waterproofing, Concrete Protection and Repair brochure](#).

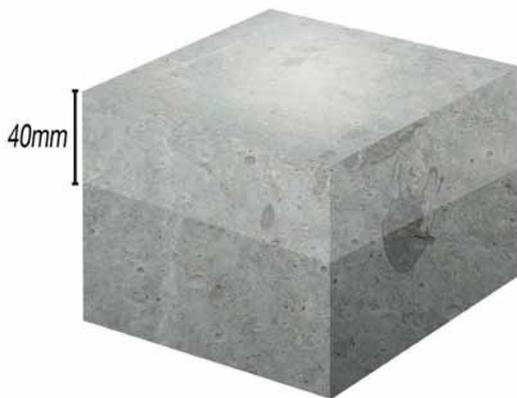
Vetrofluid Total Concrete Protection

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.

Its 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

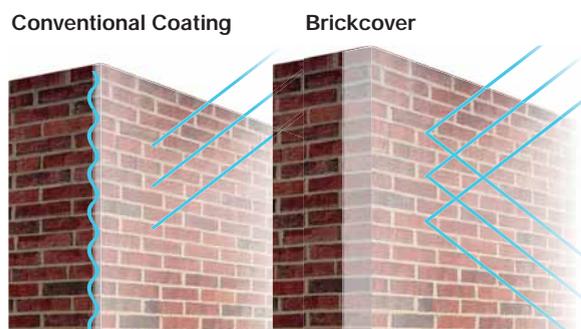
Brickcover Total Protection for Bricks and Stone

Brickcover Total Protection is a waterproofing agent which forms a waterproof barrier to protect bricks against rain water, rising damp, mildew, bacteria, saltpetre, efflorescence and freeze-thaw cycles.

Brickcover's unique formula allows it to penetrate up to 35mm into the brick (unlike conventional surface coatings) leaving a completely invisible and long lasting finish.

Spray, brush or roller applied, Brickcover is a single coat application which cures within 2 hours, forming a long-lasting waterproof barrier.

Brickcover is VOC and solvent free, colourless and without odour.



White colouration for illustrative purposes only - Brickcover coating is clear

Key characteristics

- Waterproof barrier
- Deep penetration
- Invisible and breathable
- Spray or brush applied
- Environmentally friendly
- Brick protection against moisture, mildew, bacteria, salt and frost

Item Code	Size (Ltrs)
KW21125BRICK01	1
KW21125BRICK05	5

Gas Barrier Membranes



RFA-Tech offers a comprehensive range of high quality gas protection membranes and associated components to protect buildings and their occupants from the build-up of harmful gases.

Product	Description	Application	Length (mtr)	Width (mm)	Pack Size
GDB10 Plus Gas & Damp Barrier Membrane	A universal barrier membrane for protection of new buildings against gas and damp penetration from the ground. Used as an oversite membrane below floor slabs or suspended floors, in conjunction with Z-Led Cavity and Slab Edge Protection System, it provides a complete solution when installed in accordance with BRE Report BR 414.	<ul style="list-style-type: none"> ● Radon ● CO₂ ● Methane 	40	2500	Each
EPS 2000 Gas Membrane	A high quality, blown extruded blend of virgin polymer MDPE/LDPE (co-polymer). The system will protect the building and its occupants from Radon, CO ₂ and low levels of methane.	<ul style="list-style-type: none"> ● Radon ● CO₂ 	12.5	4000	Each
EPS Radon CO2 Membrane	A blown extruded blend of virgin polymer MDPE and LDPE (co-polymer).	<ul style="list-style-type: none"> ● Radon ● CO₂ 	20	4000	Each
EPS Universal Gas Barrier	A high quality, blown extruded blend of virgin polymer MDPE/LDPE (co-polymer). The loose laid system will protect the building and its occupants from Radon, CO ₂ and low levels of methane.	<ul style="list-style-type: none"> ● Radon ● CO₂ ● Methane (low levels) 	20	4000	Each
EPS TGB Total Gas Barrier	A high performance laminated flexible loose laid sheet barrier, specifically designed to overcome the health and safety risks associated with building on land contaminated by methane gas, CO ₂ or radon gas.	<ul style="list-style-type: none"> ● Radon ● CO₂ ● Methane 	50	2000	Each
EPS Hydrocarbon Membrane barrier	A high quality, high density polyethylene (HDPE) produced from specially formulated, proprietary virgin polyethylene resin, designed specifically for flexible geomembrane applications.	<ul style="list-style-type: none"> ● Radon ● CO₂ ● Methane ● Hydrocarbon 	30	2500	Each
EPS GR DPC	A high quality, very flexible polyethylene (LLDPE/VFPE) geomembrane produced from specially formulated, virgin polyethylene resin, designed specifically for flexible geomembrane applications.	<ul style="list-style-type: none"> ● Radon ● CO₂ ● Methane ● Hydrocarbon 	20	600	Each
EPS Liquid Vapour Membrane	A high performance elastomeric liquid rubber membrane specifically designed for waterproofing a range of vertical and horizontal surfaces.	<ul style="list-style-type: none"> ● Radon ● CO₂ ● Methane 	-	-	20ltrs
EPS GRM	A high performance self-adhesive waterproofing and gas resistant membrane constructed from a polymer modified bitumen compound, and incorporating an aluminium carrier film.	<ul style="list-style-type: none"> ● Radon ● CO₂ ● Methane 	20	1000	Each
EPS Radon Barrier	A co-extruded, co-polymer hybrid.	<ul style="list-style-type: none"> ● Radon 	20	4000	Each

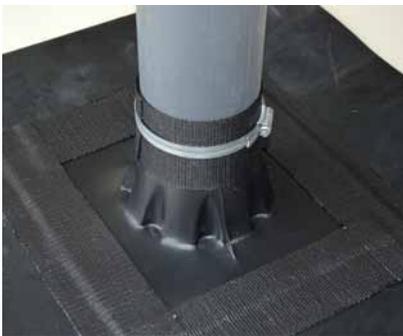
Gas Barrier Tapes

RFA-Tech offers a range of Gas Barrier Tapes to be used in conjunction with the appropriate gas barrier membranes.



Product	Width (mm)	Roll Length (mtr)	Pack Size
GDB10 self-adhesive overlap tape	150	20.0	Each
Butyl Tape	30	22.5	Each
Butyl Tape	50	22.5	Each
Double Sided EPS Radon Gas Tape	30	30.0	Each
EPS CO2/Methane Gas Tape	50	30.0	Each
EPS Hydrocarbon Gas Tape	100	15.0	Each
EPS Bitutape	100	15.0	Each
EPS Lap Tape	100	33.0	Each
Foil Faced Jointing Tape	50	50.0	Each

Pre-Formed Corners, Cloaks & Top Hats



It is crucial that when gas protection is required, the site conditions, design and application are all taken into consideration to provide an impermeable membrane capable of surviving installation and subsequent traffic to protect against harmful gases. It is advisable to consider the use of pre-formed corner and cavity tray units when designing and installing gas protection membranes, especially where barriers of greater thickness are required.

Pre-formed units are manufactured from a 2mm blend of virgin HDPE/PP (high density polyethylene/polypropylene), they match or exceed the gas protection offered by the required membrane. When used in conjunction with the appropriate gas membrane and gas jointing tape, these pre-formed units isolate the internal floor membrane from the external structure of the property, and negate any thermal instability of the membrane that would otherwise affect the structural integrity of the property.

Key benefits

- Time saving installation.
- Full system integrity and compliance.
- Full mortar bed maintained (no multiple layers).
- Clear partition Robust Detail wall cavity maintained.
- No thermal instability issues.
- Variable depths for bespoke floor construction.
- Clear break between ground worker and brickworks package.
- Penetrations fully sealed against gas and water.

Product	Description	Options Available
Top Hat	Pre-formed unit ensures gas and watertight construction cones, complete with steel clip in accordance with NHBC guidelines.	Diameters of 50mm, 110mm, 130mm and 160mm
External Corner Tray	Pre-formed unit ensures gas and watertight construction in accordance with NHBC guidelines.	Internal: 75mm & 150mm External: 75mm & 150mm
Partitioned Wall Stop End Cavity Tray	To suit below floor clear cavity construction in Robust Detail situations.	-
Partitioned Wall Cavity Tray	To suit below floor clear cavity construction in Robust Detail situations.	-
Door Reveal Cloak Unit	Pre-formed unit ensures gas and watertight construction in accordance with NHBC guidelines.	Left-hand and right-hand

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

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

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
KJ09101FFREP15	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

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)
KJ09211CCWB9025	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



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

Sprayer Accessories

A range of sprayer accessories are available, and these are listed below.



Item Code	Description	Pack Size
KJ09651SPLAN18	Spare 18" Lance	Each
KJ09651SPLAN24	Spare 24" Lance	Each
KJ09651SPHOSE	Spare Sprayer Hose	Each
KJ09651SPNOZZLE	Spare Nozzle	Each
KJ09651SPTRIGG	Trigger & Hose Tail	Each
KJ09651SPPART	Tango Parts	Each
KJ09651DRUMTAP	Plastic Drum Tap	Each

335 Construction Silicone



335 Construction Silicone is a low modulus reactive cure silicone sealant specially formulated as a cost-effective PVCu sealant, which also adheres to many common building substrates. It is fully tested to ISO 8339 and ISO 10590/10563.

Item Code	Pack Size (ml)
KJ09541SILICONE	295

Fix & Fill Expanding Foam



Fix and Fill Expanding Foam is a quick setting one-part polyurethane foam in aerosol form, and is supplied with attachable nozzles. The foam expands on application to up to 50 times its original volume and expands on application by 150%. Once cured, the foam can be cut, sawn or plastered over after only one hour, providing the working temperatures (can and surfaces) are between +5 to +25°C, ideally 20°C. It is recommended for use with the expanding foam gun.

Item Code	Pack Size (ml)
KJ09431EXPFOAM	750

Power Pro Gun



The Power Pro Gun is the ultimate heavy duty sealant gun, with extra pull trigger, hook end and swivel action barrel for both 310ml and 400ml cartridges.

Item Code	Pack Size
KJ09651PROGUN	Each

Expanding Foam Gun



The Expanding Foam Gun is a heavy-duty PU foam gun. It allows gun grade expanding foam to be applied cleanly and precisely.

Item Code	Pack Size
KJ09651FOAMGUN	Each

High performance, non-shrink cementitious and resinous grouts for structural repair, bedding and anchoring. Used where light tensile loading is required for industrial applications and highways structures.

General Purpose Non-Shrink Grout

A General Purpose Non-Shrink, high strength, cementitious grout comprising low alkali high specific surface area Portland cements and other cementitious binders. These are combined with high purity aggregates and a system of compatible admixtures to achieve high in-service performance.

Item Code	Size (Kg)
KJ09431MAPGP461	25

Nugrout Flowable Free Flowing Micro Concrete

Nugrout Flowable is a cementitious free flowing and self-compacting concrete, based on non-reactive aggregates, low alkali Portland cements with selected admixtures to produce chloride free concrete which contains no corrosive metallic additives. It is designed for structural repair situations and complies with the requirements of the Dept of Transport Standard BD27/86 Clause 4, as well as with the requirements of BS EN1504 Part 3 Class R4.

Item Code	Size (Kg)
KJ09431NGFC25	25

Nugrout Hi-Spec Free Flowing Grout

Nugrout Hi-Spec is a high strength free flowing cementitious grout based on non-reactive aggregates, shrinkage compensated Portland cements and selected admixtures which produce a chloride free grout. It contains a maximum nominal size aggregate of 2mm and is suitable for grouting thicknesses over 5mm and has been formulated to comply with the requirements of EN1504 Part 3 Class R4. It also conforms with the requirements of the Dept of Transport Specification for Highway Works Clause 2601 Part 4.

Item Code	Size (Kg)
KJ09431NGHS25	25

Nugrout Superflow Free Flowing Grout

Nugrout Superflow is a high strength free flowing cementitious grout based on non-reactive aggregates, shrinkage compensated Portland cements and selected admixtures which produce a chloride free grout, containing no corrosive metallic additives. It contains a maximum nominal size aggregate of 2mm and is suitable for many different grouting, bedding and void filling applications. It has been formulated to comply with the requirements of EN1504 Part 3 Class R4.

Item Code	Size (Kg)
KJ09431NGSF25	25

Epicon Epoxide Grouts

There are five epoxy grouts in our range which are specified below. These cover the majority of grouting and fixing applications encountered within civil engineering and the construction industry in general, where the mechanical properties must be of the highest order.

Item Code	Type	Description	Size (Kg)
KJ09541EPGRTH45	Epicon H	Thixotropic grout for horizontal or inverted fixings.	4.5
KJ09541EPGRTR32	Epicon RT	Pourable for free flow gap grouting for gaps over 25mm.	32
KJ09541EPGRTL20	Epicon L	Pourable for free flow gap grouting for gaps 20-100mm.	20
KJ09541EPGRTM20	Epicon M	Lightly filled pourable for free flow gap grouting for gaps 5-40mm.	20
KJ09541EPGRTS05	Epicon S	Unfilled grout for gap and crack widths 0.25-6mm.	5

Confil Grout Polyester Resin Anchor

Confil Grouts are based on polyester resins designed for quick and easy mixing. Available in two grades, these quick curing grouts are designed for anchoring fixings into concrete, masonry, brickwork, etc. Each grade is available in two versions, a standard set and rapid set.

Item Code	Type	Description	Grade	Size (Ltrs)
KJ09431CFGTHP10	Confil HP	Confil HP Grout - Thixotropic grout for use with a mastic gun in vertical and inverted applications.	Standard	10
KJ09431CFGTHP02	Confil HP		Rapid	2
KJ09431CFGTS10	Confil	Confil Grout - Pourable grout for horizontal applications.	Standard	10
KJ09431CFGW02	Confil		Rapid	2

Pre-packed polymer modified cementitious concrete repair compounds for the reinstatement of defective concrete.

Nupatch Cosmetic Repair Compounds

A range of simple to use polymer modified cement based compounds which develop high strength at an early age for the repair of both insitu and precast concrete. The Nupatch Cosmetic range have all been designed to comply with the requirements of EN1504 Part 3 Class R2.

Applications

- Repair of precast concrete units.
- Repair of damaged insitu concrete.
- Repair of concrete pipes.
- Repair to concrete floors, roads, kerbs & steps.

Item Code	Grade	Size (Kg)
KJ09431NUPGR75	Grey	7.5
KJ09431NUPGR25	Grey	25
KJ09431NUPWH75	White	7.5
KJ09431NUPWH25	White	25
KJ09431NUPSP75	Special	7.5
KJ09431NUPSP25	Special	25

Epicon High Strength Epoxy Mortar

Epicon Mortar has been designed to comply with the requirements of EN1504 Part 3 Class R3. It is an extremely versatile epoxy mortar suitable for a number of building and repair needs where characteristics of excellent adhesive bond, high strength, abrasion and chemical resistance are required. Epicon Mortar is a pre-weighed three component system of solvent free epoxy resin and hardener which, when blended with the graded aggregates, forms a high strength mortar.

Item Code	Size (Kg)
KJ09431EPMT25	25

Applications

- Repair of worn and damaged concrete floors and stairs.
- Repair of spalled expansion joints.
- Repair of concrete and asphalt roads and runways.

Epicon Fast Setting High Strength Epoxy Mortar

Epicon F.S. Mortar has been designed to comply with the requirements of EN1504 Part 3 Class R4. It is a fast curing, heavy duty epoxy mortar which has been formulated to enable the rapid repair of concrete surfaces. It is a pre-weighed three component system of solvent free epoxy resin and hardener which, when blended with the aggregate provided, forms a high strength mortar with outstanding adhesive properties.

Item Code	Size (Kg)
KJ09431EPFSMT25	25

Applications

- Repair of worn and damaged concrete floors.
- Restoration of worn stairs and steps.
- Repair of spalled expansion joints.
- Repair of concrete roads and runways.

Nucem Epoxy Tack Coat Primer

A two component primer/tack coat designed to bond new cement based products to existing concrete surfaces. Initially developed for use with the Nucem range of cementitious repair compounds, the primer is characterised by its excellent adhesion to both concrete and steel reinforcement. The formulation is based on a water dispersible epoxy resin containing cement which provides an alkaline environment to protect steel reinforcement from chloride and carbon dioxide attack.

Item Code	Size (Kg)
KJ09431NUCPR0.5	0.5
KJ09431NUCPR01	1
KJ09431NUCEM5KG	5

Nucem Concrete

Nucem Concrete is formulated to comply with the requirements of EN1504 Part 3 Class R4 as well as conforming to the DTp Model Specification for the 'Repair of Concrete Highway Structures' BD 27/86 Clause 6. It is based on Portland cements complying with Clause 1702, DTp Specification for Highway Works and non-reactive aggregates. It is specially designed for the restoration of spalled and damaged concrete caused by reinforcement corrosion or frost attack.

Item Code	Size (Kg)
KJ09431NUCECO27	27.5

Applications

- Repair of damaged concrete both insitu and precast.
- Repair of damaged floors, bridge decks and road wearing surfaces.
- Screeding where abrasion and/or water resistance is required.
- Repairs to spalled columns and beams using formwork.



Nucem Mortar

Nucem Mortar is formulated to comply with the requirements of EN1504 Part 3 Class R4 as well as conform to the DTp Model Specification for the 'Repair of Concrete Highway Structures' BD 27/86 Clause 6. It is based on Portland cements complying with Clause 1702, DTp Specification for Highway Works and non-reactive aggregates. It is specially designed for the restoration of spalled and damaged concrete caused by reinforcement corrosion or frost attack.

Item Code	Size (Kg)
KJ09431NUCMO27	27.5

Applications

- Repair of damaged insitu and precast concrete.
- Repair of damaged floors, bridge decks and road wearing surfaces.
- Screeding where abrasion and/or water resistance is required.
- Repairs to spalled columns and beams using formwork.

Nucem H.B. Mortar

Nucem H.B. Mortar is a durable system which affords maximum protection to embedded reinforcement. It can be applied to a thickness of up to 50mm in a single application on a vertical surface. Independently tested, it complies with the DTp Specification BD27/86 clause 6. It has been specially formulated to achieve and surpass the performance requirements of EN1504 Part 3 Class R3.

Item Code	Size (Kg)
KJ09431NUCHB20	20

Applications

- Repair of concrete damaged by reinforcement corrosion or fire damage.
- Repairs to spalled columns, beams and soffits.
- Waterproof pointing mortar.
- Waterproof render to concrete, brickwork and blockwork.

Nucem Skimcoat

Nucem Skimcoat is ideal for the treatment of repaired concrete surfaces to protect the unrepaired areas against further attack by chlorides or carbonation and to provide an overall uniform appearance or a consistent surface to receive a decorative coating. It is a waterproof material which allows the structure to breathe. Independently tested, it is designed to conform with the requirements of EN 1504 Part 2.

Item Code	Size (Kg)
KJ09431NUCSKIM	12.5

Applications

- Waterproofing of internal and external concrete, brickwork and blockwork.
- Protection of concrete with insufficient cover to steel reinforcement.
- Unification of repaired concrete structures.
- Damp-proofing of basements and cellars.

Nufix SBR Bonding & Waterproofing Additive

Nufix SBR is a styrene butadiene rubber latex designed to upgrade the bonding and waterproofing properties of cementitious renders, screeds, mortars and concretes. By increasing durability and tensile and flexural strengths, high strength screeds may be laid as thin as 10mm. In addition, screeds and renders can be waterproofed, greatly improving their resistance to abrasion, frost, water vapour transmission and chemical attack.

Item Code	Size (Ltrs)
KJ09431NUFIX05	5
KJ09431NUFIX25	25

Applications

- Water resistant renders and screeds.
- Bonding new concrete to old.
- Chemical and abrasion resistant screeds ideal for agricultural uses.
- Repair and patching of concrete floors.
- Industrial floors and screeds.
- Concrete repair mortar when gauged with sand and cement.
- Production of water resistant adhesives for tiles, kerbs, copings, etc.
- Lining for effluent tanks and ducts, etc.

RES-TECH PSF410 Polyester Chemical Anchor Resin

RES-TECH PSF410 is a two-part chemical anchoring resin designed to anchor threaded rods and rebar in concrete. It also has the advantage of European Approval for use in masonry blocks according to the ETAG 029. This sophisticated chemical anchoring product is a fast curing injection system, delivered through a mixing nozzle directly into the fixing hole. The cartridges are extruded using either a specially designed fixing tool, or a silicone tool.



Advantages

- Good bond strength with high load resistance.
- Used with all grades of threaded rod.
- Used in concrete and masonry.
- Fast gelling and curing.
- Used in dry and wet conditions.
- European approval for use in masonry with nylon sleeves.
- Close edge distance and small spacing.
- Also suitable as a filler for gap and crack filling.
- Economical fixing resin.
- Extremely versatile.
- Styrene free with low odour.
- Manual cleaning up to 20mm diameter and embedment depths of 240mm.

Item Code	Pack Size (ml)
KJ09541ARPSF410	410

RES-TECH VNSF410 Vinylester Chemical Anchor Resin

RES VNSF410 is a two-part chemical anchoring resin designed to anchor threaded rods and rebar in concrete. It also has the advantage of European Approval for use in cracked and non-cracked concrete, as well as coverage for rebar under TR029 and TR023 (post installed rebar). This sophisticated chemical anchoring product is a fast curing injection system, delivered through a mixing nozzle directly into the fixing hole. The cartridges are extruded using either a specially designed fixing tool, or a silicone tool.



Advantages

- High bond strength with high load resistance.
- Used with all grades of threaded rod and rebar in accordance with TR029.
- Used in non-cracked and cracked concrete.
- Fast gelling and curing.
- Used in dry and wet concrete.
- Used in critical or overhead applications.
- Used in corrosive environments.
- ETA tested based on life of anchor 50 years.
- Used for elevated temperatures - temperature ranges I, II and III.
- Used for post installed rebar installations under TR029 and TR023.
- Low shrinkage enables large diameter installations.
- Close edge distance and small spacing.
- Manual cleaning up to 20mm diameter and embedment depths of 240mm.

Item Code	Pack Size (ml)
KJ09541ARVNSF410	410

RES-TECH PE500 Pure Epoxy Chemical Anchor Resin

RES-TECH PE500 is a two-part chemical anchoring resin designed to anchor threaded rods and rebar in concrete. It also has the advantage of two European Technical Approvals for post-installed rebar and cracked and non-cracked concrete, plus BS6920 testing for use in potable water, and fire approval. This sophisticated chemical anchoring product is a fast curing injection system, delivered through a mixing nozzle directly into the fixing hole. The cartridges are extruded using either a specially designed fixing tool, or a silicone tool.



Advantages

- High bond strength with high load resistance.
- Used with all grades of threaded rod and rebar in accordance with TR029.
- Ideal for deep embedment installations.
- Used in non-cracked and cracked concrete.
- Used in dry and wet concrete.
- Used in flooded holes.
- Used for overhead applications.
- Ideal for diamond drilled holes.
- Ideal for elevated temperatures - temperature ranges I, II and III.
- Ideal for rebar installations under TR023 and EN1992-1-1:2004 EC2.
- Zero shrinkage enables large diameter installations.
- Close edge distance and small spacing.
- Manual cleaning up to 20mm diameter and embedment depths of 240mm.

Item Code	Pack Size (ml)
KJ09541ARPE5585	585

Febfix 205 Chemical Anchor Resin

Febfix 205 is a styrene free rapid curing chemical anchoring system designed for high strength fixing of railings, satellite dishes, signs, brackets and other fixtures which carry heavy loads. The unique easy-flow technology means the twin bag system within the cartridge enables the product to be applied using a standard cartridge gun.



Typical Uses

- Fixing wall ties.
- Bolts and screws into a wide range of building substrates.
- Securing machinery into floors.
- Fixing studs and starter bars.

Item Code	Pack Size (ml)
KJ09541FBFIX205	300

Anchor Resin Applicator Guns

Anchor Resin Applicator Guns are used in conjunction with the sophisticated chemical anchoring products delivered through a mixing nozzle directly into the fixing hole. The following anchor resin applicator guns are supplied to complete the system: -

Anchor Resin Applicator Gun 410ml - for use with both RES-TECH PSF410 and RES-TECH VNSF410.

Anchor Resin Applicator Gun 585ml - for use with RES-TECH PE500.



Item Code	Type	Pack Size
KJ09541RESAP410	Suitable for 410ml	Each
KJ09541RESAP585	Suitable for 585ml	Each

Blower and Mixers

To ensure maximum performance of the RFA-Tech range of Chemical Anchor Resins, it is recommended to use a Blower and Nozzle to ensure a properly cleaned fixing hole free of all debris. Spare T-Flow Mixers are also available if required.



Item Code	Description	Pack Size
KL11221ARBLW280	Blower 280mm	Each
KL11221ARNOZZLE	Spare T-Flow Mixers	Each

Conseal Silicate Concrete Dustproof

Conseal Silicate is a concrete hardener and dustproofing consisting of a concentrated solution of metallic silicates that only requires clean water. It is a simple and economical treatment for a variety of concrete floors.

Item Code	Size (Ltrs)
KJ09212CONSI015	15
KJ09212CONSI200	200

Advantages

- Dustproofs and reduces permeability to liquids.
- Improves resistance to abrasion and wear.
- Economical and easily applied by unskilled labour.
- Easily retreated after a number of years.

Conseal Acrylic Concrete Dustproof

Conseal Acrylic is a clear acrylic sealer designed for application on to concrete to provide a long lasting dust free sealed surface. This low odour water borne formulation makes it the ideal product for use where solvent based products would be undesirable. It is suitable for use as a sealer on green and imprinted concrete where its excellent non-yellowing and weathering properties are fully utilised.

Item Code	Size (Ltrs)
KJ09101CONACR05	5
KJ09101CONACR25	25

Advantages

- Non-flammable, low odour formulation.
- Economical in use and equipment may be cleaned with water.
- Easily applied by low pressure spray, brush or roller.
- Fine particle size ensures excellent penetration.

Epigard

Epigard is a two component extended epoxy high build coating characterised by its inbuilt flexibility, excellent adhesion and resistance to water and a wide range of chemicals. It will successfully protect concrete structures including abutments, wing walls and bearing shelves, drainage channels, silos and tanks.

Item Code	Size (Kg)
KJ09431EPIGUARD	5

Advantages

- No primer required.
- Excellent bond strength.
- Good chemical and abrasion resistance.
- Inbuilt flexibility.

Nucryl

Nucryl has excellent weather resistance properties, providing a long lasting barrier effect against carbon dioxide and other aggressive agents (e.g. sulphur dioxide) and appreciably reducing the carbonation of old and new concrete surfaces.

Item Code	Size (Ltrs)
KJ09431NUCLE05	5

Applications

- Protection of external concrete structures.
- Decorative treatment for exposed aggregate panels.
- Sealer for precast units including paving slabs.
- Protection of internal concrete surfaces against dirt pick-up.
- Alkali resistant.
- Adheres to difficult surfaces.

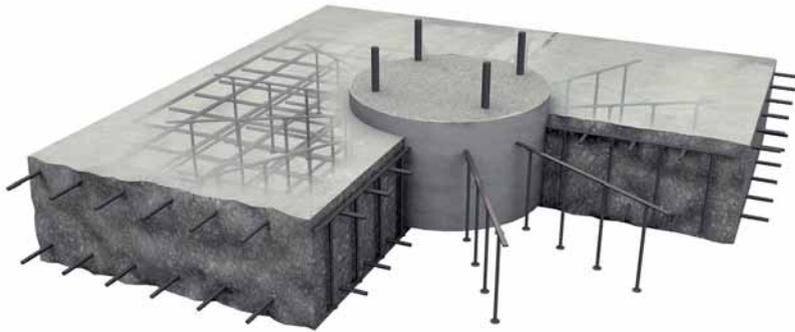
Sheartech Rail® - Punching Shear Reinforcement

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.



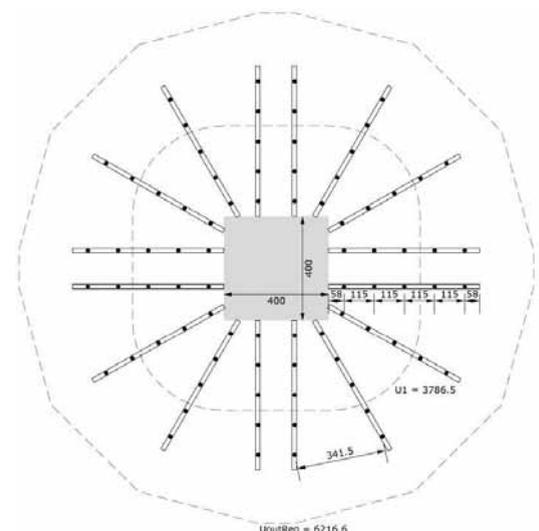
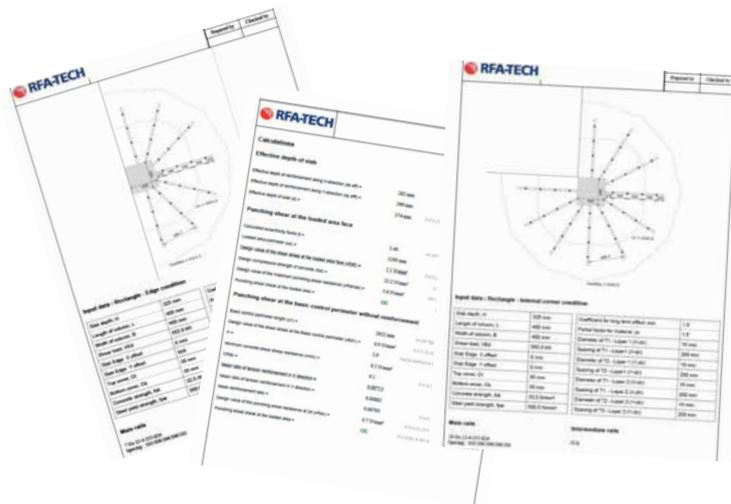
The Sheartech Rail system offers a **CARES Approved** method of providing punching shear reinforcement. The system is fast to install with all component parts prefabricated to allow simple and accurate placement. It has been independently tested, approved and certified by CARES to be fully compliant 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 a 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 this can be offset by the calculations and design work an engineer must do to specify the correct design. To assist with this, 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 starts on site.

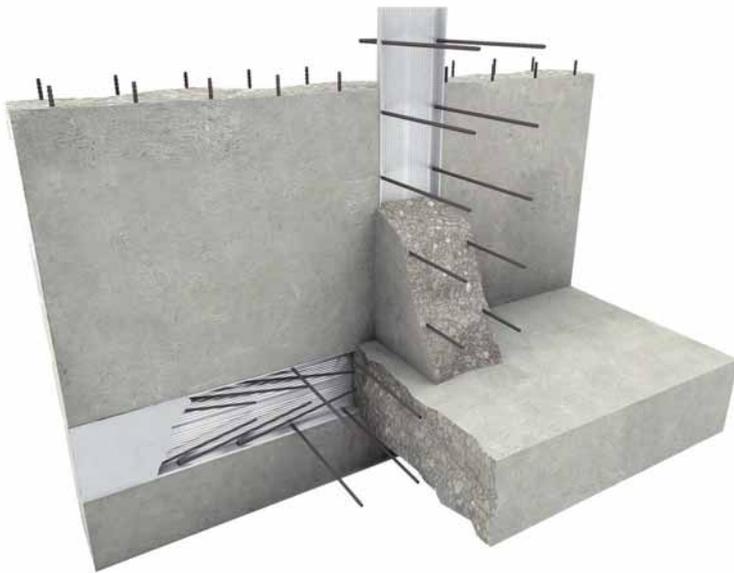
The free design software is available to access at rfa-tech.co.uk; see below for an example of the output provided in PDF format.



For further information please refer to our **Technical Solutions for Reinforced Concrete** product brochure.

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.



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.

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

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.

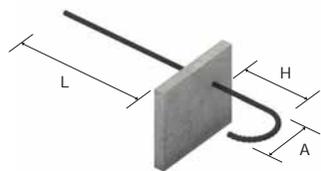


Startabox® - Standard Reinforcement Continuity System

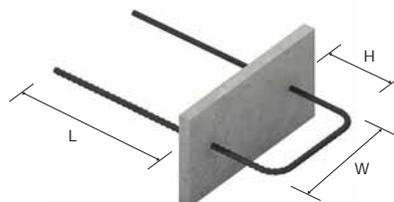
Although most Startabox units are made to order using the engineers original rebar details, there are occasions when time pressures do not allow this and a quicker supply is required. Last minute drawing changes or rescheduling of pour sequences can require another solution.

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.

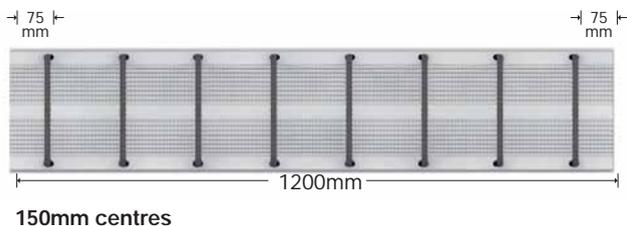


Single Leg Hook Bar

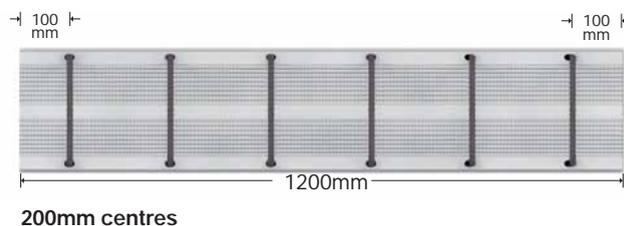


Double Leg 'U' Bar

Bar Spacings



150mm centres



200mm centres

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	500	✓		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

For further information please refer to our Technical Solutions For Reinforced Concrete product brochure.

Threaded Rebar Couplers

The **Lenton® Form Saver CARES Approved** starterbar assembly provides continuity and structural integrity to reinforced concrete construction in segmental pour applications. It is designed with the unique Lenton tapered thread system, and durable mounting plates for easy attachment to forms. The taper threaded design, like the complete family of Lenton couplers, provides load path continuity in tension, compression and stress-reversal applications.



Lenton® Form Saver mechanical splices provide superior performance well beyond the yield strength of the reinforcing bar. The splices outperform other systems because of their ability to develop strength requirements independent of concrete cover.

Their ease of installation, consistent performance and durability add value and integrity to your structure. They are available in 12mm through to 20mm in standard lengths ex-stock, and in addition a variety of lengths, straight bars, 'L' bars, and 'U' bars can be manufactured to order.

Lenton® Form Saver provides structural integrity between two building segments such as precast elements or with in-situ pours. They are ideal for eliminating protruding dowel bars in segmental pour applications and temporary openings. Examples include precast columns with the slab or beams, staircase to walls and wall to wall.

Lenton® Form Savers are used for

- Slip and jump forming.
- Equipment hatch openings.
- Bridge decks.
- Segmental pours.
- Tower crane openings.
- Future extension.
- Stairwell applications.
- Slabs.
- All other segmental pours.

The following sizes of Lenton® Form Saver are available to order ex-stock.

Item Code	Bar Diameter (mm)	Overall Length (mm)	Weight (kg)	Pack Size
KK10105FS12600	12	600	0.58	Each
KK10105FS16800	16	800	1.34	Each
KK10105FS20850	20	850	2.23	Each

The following accessories are also available (to be ordered separately).

Steel Nailing Plate

A square Steel Nailing Plate which brings the coupler mouth against the formwork. This must be combined with a plastic closure plug below.



Item Code	Rebar Size	Pack Size
KK10105EL12HFF	12	Each
KK10105EL16HFF	16	Each
KK10105EL20HFF	20	Each

Plastic Nailing Plate

A round Plastic Nailing Plate which keeps the coupler mouth 10mm away from the formwork.



Item Code	Rebar Size	Pack Size
KK10105EL12CFFP	12	Each
KK10105EL16CFFP	16	Each
KK10105EL20CFFP	20	Each

Plastic Closure Plug

A threaded Plastic Closure Plug inserted into the coupler mouth to prevent against ingress.

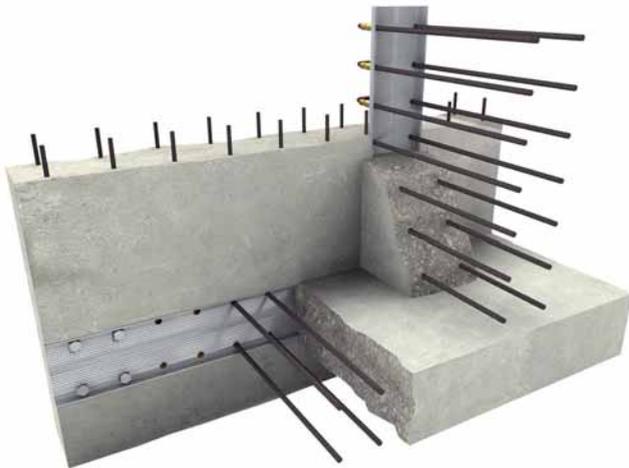


Item Code	Rebar Size	Pack Size
KK10105EL12CPP	12	Each
KK10105EL16CPP	16	Each
KK10105EL20CPP	20	Each



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.

For further information please refer to our [Technical Solutions For Reinforced Concrete product brochure](#).

Anchor Channel Systems

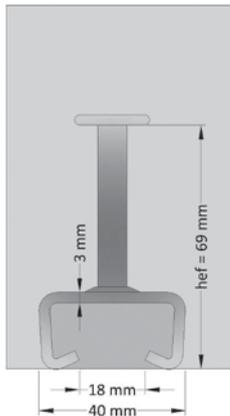


RFA-Tech offer a range of CE marked Cold Rolled Anchor Channel Systems and T-Head Bolts for the safe and secure anchoring of structural components into reinforced concrete.

The complete range of channel profiles are backed by extensive testing, European Approvals and in some cases by CE accreditation. In addition there is an in-house engineering department that is available to support customers at all stages of the build process from planning through to design and construction to produce the most cost effective and structurally secure solution.

Cast-in channels are a proven and well respected connection system for carrying tension and shear loads. They can be cast into the compression and tension zones of concrete, are easy to install and allow maximum flexibility and buildability on site.

The channels are provided in mild steel HDG or Stainless Steel with anchors at a maximum of 250mm centres and are supplied in short pieces or long lengths to suit the application. All profiles are filled with expanded foam which is easily removed after the concrete is poured to allow for the T-bolt insertion. Applications include the connection of curtain walling, rain-screen, grey and architectural precast, mechanical and electrical fixings.



GP 40/223

$$N_{RD} = V_{RD} = 11.1 \text{ kN}$$

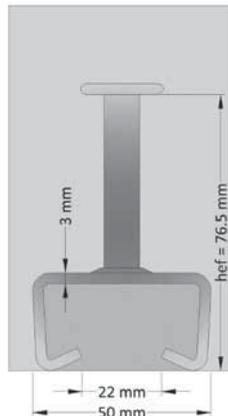
Hot Dip Galvanized
Expanded Foam Filling

ETA Certificate: ETA-12/0393

T-HEAD BOLT

V40/22

M10-M12-M16



GP 50/30

$$N_{RD} = V_{RD} = 17.2 \text{ kN}$$

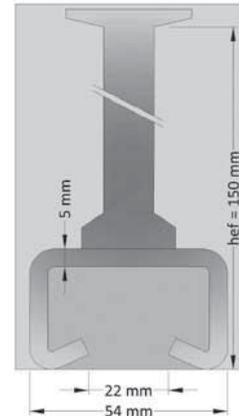
Hot Dip Galvanized
Expanded Foam Filling

ETA Certificate: ETA-12/0392

T-HEAD BOLT

V50/30

M16-M20



GP 54/33

$$N_{RD} = V_{RD} = 31.6 \text{ kN}$$

Hot Dip Galvanized
Expanded Foam Filling

ETA Certificate: ETA-12/0433

T-HEAD BOLT

V50/300

M16-M20

Channel Lengths

GP 40/223		GP50/30		GP54/33	
Length	Anchors	Length	Anchors	Length	Anchors
200	2	200	2	200	2
250	2	250	2	250	2
300	2	300	2	300	2
350	3	350	3	350	3
500	3	500	3	500	3
1000	4	1000	4	1000	4
3000	13	3000	13	3000	13

T-Head Bolts V40/22		T-Head Bolts V50/30		T-Head Bolts V50/300	
M10		M10		M10	
M12		M12		M12	
M16		M16		M16	
		M20		M20	

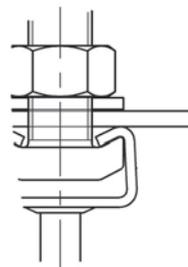
Please Note: Other sizes can be made to order.





V40/22 T-Head Bolts

V40/22 T-Head Bolts are produced in steel grades 4.6 and 8.8 galvanised, according to UNI ISO2081 European 2002/95 Rohs. They are supplied with nuts as standard.



V40/22 M10 Grade 4.6			
Item Code	Size (M)	Weight (Kg/Ea)	Packing (N°)
D4Z1030	10x30	0.033	400
D4Z1040	10x40	0.048	300
D4Z1050	10x50	0.053	300
D4Z1060	10x60	0.058	250
D4Z1070	10x70	0.063	200

V40/22 M12 Grade 4.6			
Item Code	Size (M)	Weight (Kg/Ea)	Packing (N°)
D4Z1230	12x30	0.062	400
D4Z1240	12x40	0.077	300
D4Z1250	12x50	0.082	300
D4Z1260	12x60	0.087	250
D4Z1270	12x70	0.092	200
D4Z12100	12x100	0.121	150
D4Z12150	12x150	0.160	100

V40/22 M16 Grade 4.6			
Item Code	Size (M)	Weight (Kg/Ea)	Packing (N°)
D4Z1630	16x30	0.111	400
D4Z1640	16x40	0.120	200
D4Z1650	16x50	0.132	200
D4Z1660	16x60	0.143	150
D4Z1680	16x80	0.163	150
D4Z16100	16x100	0.198	150
D4Z16110	16x110	0.209	150
D4Z16120	16x120	0.235	150
D4Z16150	16x150	0.254	100

V40/22 M10 Grade 8.8			
Item Code	Size (M)	Weight (Kg/Ea)	Packing (N°)
D4Z1030-88	10x30	0.033	400
D4Z1040-88	10x40	0.048	300
D4Z1050-88	10x50	0.053	300
D4Z1060-88	10x60	0.058	250
D4Z1070-88	10x70	0.063	200

V40/22 M12 Grade 8.8			
Item Code	Size (M)	Weight (Kg/Ea)	Packing (N°)
D4Z1230-88	12x30	0.062	400
D4Z1240-88	12x40	0.077	300
D4Z1250-88	12x50	0.082	300
D4Z1260-88	12x60	0.087	250
D4Z1270-88	12x70	0.092	200
D4Z12100-88	12x100	0.121	150
D4Z14150-88	12x150	0.160	100

V40/22 M16 Grade 8.8			
Item Code	Size (M)	Weight (Kg/Ea)	Packing (N°)
D4Z1630-88	16x30	0.111	400
D4Z1640-88	16x40	0.120	200
D4Z1650-88	16x50	0.132	200
D4Z1660-88	16x60	0.143	150
D4Z1680-88	16x80	0.163	150
D4Z16100-88	16x100	0.198	150
D4Z16110-88	16x110	0.209	150
D4Z16120-88	16x120	0.235	150
D4Z16150-88	16x150	0.254	100

Ultimate Loads kN			
V40/22	M10	M12	M16
Grade 4.6	23.2	33.7	62.8
Grade 8.8	46.4	67.4	125.6

Torque / NM			
V40/22	M10	M12	M16
Grade 4.6	15	25	35
Grade 8.8	15	25	45

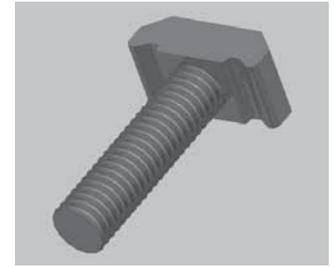
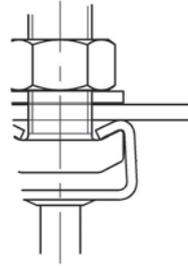
T-Head Bolts with special lengths other than those specified in the tables above are available to special order.

Stainless steel bolts grade A2 and A4 are available on request.



V50/30 T-Head Bolts

V50/30 T-Head Bolts are produced in steel grades 4.6 and 8.8 galvanised, according to UNI ISO2081 European 2002/95 Rohs. They are supplied with nuts as standard.



V50/30 M16 Grade 8.8			
Item Code	Size (M)	Weight (Kg/Ea)	Packing (N°)
D5Z1650-88	16x50	0.132	150
D5Z1660-88	16x60	0.143	150
D5Z1670-88	16x70	0.153	100
D5Z16100-88	16x100	0.198	50
D5Z16120-88	16x120	0.219	50
D5Z16150-88	16x150	0.254	50

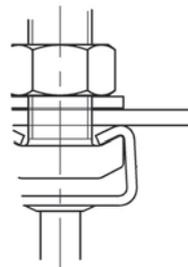
V50/30 M20 Grade 8.8			
Item Code	Size (M)	Weight (Kg/Ea)	Packing (N°)
D5Z2050-88	20x50	0.232	150
D5Z2060-88	20x60	0.243	150
D5Z2080-88	20x80	0.253	100
D5Z20100-88	20x100	0.298	50
D5Z20120-88	20x120	0.319	50
D5Z20150-88	20x150	0.354	50
D5Z20200-88	20x200	0.540	50

Ultimate Load kN				
V50/30	M10	M12	M16	M20
Grade 4.6	23.2	33.7	62.8	98
Grade 8.8	46.4	67.4	125.6	196
Torque Load NM				
V50/30	M10	M12	M16	M20
Grade 4.6	15	25	60	60
Grade 8.8	15	25	60	75



V50/300 T-Head Bolts

V50/300 T-Head Bolts are produced in steel grades 4.6 and 8.8 galvanised, according to UNI ISO2081 European 2002/95 Rohs. They are supplied with nuts as standard.



V50/300 M16 classe 8.8			
Item Code	Size (M)	Weight (Kg/Ea)	Packing (N°)
D54Z1640-88	16x40	0.120	400
D54Z1650-88	16x50	0.132	300
D54Z1660-88	16x60	0.143	300
D54Z1670-88	16x70	0.153	250
D54Z16100-88	16x100	0.198	200
D54Z16120-88	16x120	0.219	150
D54Z16150-88	16x150	0.254	100

V50/300 M20 classe 8.8			
Item Code	Size (M)	Weight (Kg/Ea)	Packing (N°)
D54Z2050-88	20x50	0.232	300
D54Z2060-88	20x60	0.243	300
D54Z2080-88	20x80	0.253	250
D54Z20100-88	20x100	0.298	200
D54Z20120-88	20x120	0.319	150
D54Z20150-88	20x150	0.354	100
D54Z20200-88	20x200	0.540	100

Ultimate Load kN					
V50/300	M10	M12	M14	M16	M20
Grade 4.6	23.2	33.7	46	62.8	98
Grade 8.8	46.4	67.4	92	125.6	196
Torque Load NM					
V50/300	M10	M12	M14	M16	M20
Grade 4.6	15	25	35	60	100
Grade 8.8	15	25	35	60	120

T-Head Bolts with special lengths other than those specified in the tables above are available to special order.

Stainless steel bolts grade A2 and A4 are available on request.

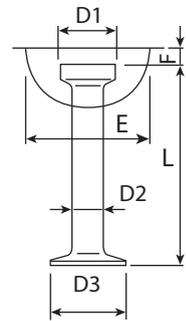


Capstan Anchors



The Capstan Anchors are a safe, simple and effective system for lifting most types of precast concrete units. The anchors are hot drop forged from high grade steel and, provided the anchor is specified and installed correctly, ensures safe and secure lifting, turning and transportation of units.

The anchors are available in black, zinc plated, galvanised, and stainless steel.



Item Code Black	Item Code Galv	Load Group (Te)	Length L (mm)	D1 (mm)	D2 (mm)	D3 (mm)	E (mm)	F (mm)	Pack Size
KL112111.3A040	KL112111.3A040G	1.3	40	19	10	25	60	10	Each
KL112111.3A050	KL112111.3A050G	1.3	50	19	10	25	60	10	Each
KL112111.3A085	KL112111.3A085G	1.3	85	19	10	25	60	10	Each
KL112111.3A120	KL112111.3A120G	1.3	120	19	10	25	60	10	Each
KL112111.3A240	KL112111.3A240G	1.3	240	19	10	25	60	10	Each
KL112112.5A055	KL112112.5A055G	2.5	55	26	14	35	74	11	Each
KL112112.5A065	KL112112.5A065G	2.5	65	26	14	35	74	11	Each
KL112112.5A085	KL112112.5A085G	2.5	85	26	14	35	74	11	Each
KL112112.5A100	KL112112.5A100G	2.5	100	26	14	35	74	11	Each
KL112112.5A120	KL112112.5A120G	2.5	120	26	14	35	74	11	Each
KL112112.5A140	KL112112.5A140G	2.5	140	26	14	35	74	11	Each
KL112112.5A170	KL112112.5A170G	2.5	170	26	14	35	74	11	Each
KL112112.5A280	KL112112.5A280G	2.5	280	26	14	35	74	11	Each
KL112115A085	KL112115A085G	5.0	85	36	20	50	94	15	Each
KL112115.0A095	KL112115.0A095G	5.0	95	36	20	50	94	15	Each
KL112115.0A120	KL112115.0A120G	5.0	120	36	20	50	94	15	Each
KL112115.0A180	KL112115.0A180G	5.0	180	36	20	50	94	15	Each
KL112115.0A240	KL112115.0A240G	5.0	240	36	20	50	94	15	Each
KL112115.0A340	KL112115.0A340G	5.0	340	36	20	50	94	15	Each
KL112115.0A480	KL112115.0A480G	5.0	480	36	20	50	94	15	Each
KL112117.5A120	KL112117.5A120G	7.5	120	46	24	60	118	15	Each
KL112117.5A140	KL112117.5A140G	7.5	140	46	24	60	118	15	Each
KL112117.5A165	KL112117.5A165G	7.5	165	46	24	60	118	15	Each
KL112117.5A200	KL112117.5A200G	7.5	200	46	24	60	118	15	Each
KL112117.5A300	KL112117.5A300G	7.5	300	46	24	60	118	15	Each
KL112117.5A540	KL112117.5A540G	7.5	540	46	24	60	118	15	Each
KL1121110A120	KL1121110A120G	10.0	120	46	28	70	118	15	Each
KL1121110A170	KL1121110A170G	10.0	170	46	28	70	118	15	Each
KL1121110A200	KL1121110A200G	10.0	200	46	28	70	118	15	Each
KL1121110A340	KL1121110A340G	10.0	340	46	28	70	118	15	Each
KL1121110A680	KL1121110A680G	10.0	680	46	28	70	118	15	Each

Capstan Anchors (cont'd)

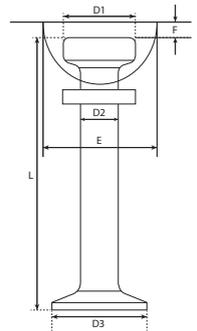
Item Code Black	Item Code Galv	Load Group (Te)	Length L (mm)	D1 (mm)	D2 (mm)	D3 (mm)	E (mm)	F (mm)	Pack Size
KL1121115A200	KL1121115A200G	15.0	200	69	34	85	160	15	Each
KL1121115A300	KL1121115A300G	15.0	300	69	34	85	160	15	Each
KL1121115A400	KL1121115A400G	15.0	400	69	34	85	160	15	Each
KL1121115A840	KL1121115A840G	15.0	840	69	34	85	160	15	Each
KL1121120A200	KL1121120A200G	20.0	200	69	38	98	160	15	Each
KL1121120A240	KL1121120A240G	20.0	240	69	38	98	160	15	Each
KL1121120A250	KL1121120A250G	20.0	250	69	38	98	160	15	Each
KL1121120A340	KL1121120A340G	20.0	340	69	38	98	160	15	Each
KL1121120A500	KL1121120A500G	20.0	500	69	38	98	160	15	Each
KL1121120A1000	KL1121120A1000G	20.0	1000	69	38	98	160	15	Each
KL1121132A280	KL1121132A280G	32.0	280	88	50	135	214	23	Each
KL1121132A320	KL1121132A320G	32.0	320	88	50	135	214	23	Each
KL1121132A700	KL1121132A700G	32.0	700	88	50	135	214	23	Each
KL1121132A1200	KL1121132A1200G	32.0	1200	88	50	135	214	23	Each

Capstan Double Head Anchor



The Capstan Double Head Anchor has been specifically developed for use in pipe production where anchor installation is automated, or where the upright moulds have the openings for the anchors to be installed. The second head of the anchor assists accurate positioning, and ensures perpendicular installation as it sits tightly in the hollow of the former and creates a perfectly formed recess. This feature also benefits the production of high volume flooring where large amounts of anchors are installed on a regular basis.

The anchors are available in black and galvanised.

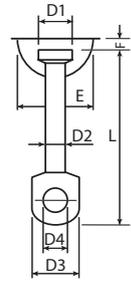


Item Code Black	Item Code Galv	Load Group (Te)	Length L (mm)	D1 (mm)	D2 (mm)	D3 (mm)	E (mm)	F (mm)	Pack Size
KL112111.3D065	KL112111.3D065G	1.3	65	18	10	25	60	10	Each
KL112111.3D085	KL112111.3D085G	1.3	85	18	10	25	60	10	Each
KL112111.3D120	KL112111.3D120G	1.3	120	18	10	25	60	10	Each
KL112112.5D065	KL112112.5D065G	2.5	65	25	14	35	74	11	Each
KL112112.5D085	KL112112.5D085G	2.5	85	25	14	35	74	11	Each
KL112112.5D110	KL112112.5D110G	2.5	110	25	14	35	74	11	Each
KL112112.5D120	KL112112.5D120G	2.5	120	25	14	35	74	11	Each
KL112112.5D140	KL112112.5D140G	2.5	140	25	14	35	74	11	Each
KL112112.5D170	KL112112.5D170G	2.5	170	25	14	35	74	11	Each
KL112115.0D120	KL112115.0D120G	5.0	120	36	20	50	94	15	Each
KL112115.0D180	KL112115.0D180G	5.0	180	36	20	50	94	15	Each
KL112115.0D240	KL112115.0D240G	5.0	240	36	20	50	94	15	Each

Capstan Eye Anchors



The Capstan Eye Anchor is for use when the transfer of load is not possible through the foot of a standard anchor. This is usually for thin reinforced units or lightweight concrete.



Item Code	Load Group (Te)	Length L (mm)	D1 (mm)	D2 (mm)	D3 (mm)	E (mm)	F (mm)	Pack Size
KL112111.3E065	1.3	65	19	10	19	60	10	Each
KL112112.5E090	2.5	90	26	14	27	74	11	Each
KL112115.0E120	5.0	120	36	20	42	94	15	Each
KL112110E180	10.0	180	46	28	57	118	15	Each
KL112120E250	20.0	250	69	39	76	160	15	Each

Capstan Lifting Shackles

The Capstan Lifting Shackle is available in 1.3t-32.0t load groups and is used for lifting and turning concrete units with corresponding anchors cast in. Only the correct shackle for the anchor load group will fit. Each shackle is proof loaded to twice safe working load and undergoes a thorough inspection before being certified and index numbered for traceability when supplied new.



Item Code	Load Group (Te)	Pack Size
KL1121101.3UE	1.3	Each
KL1121102.5UE	2.5	Each
KL1121105.0UE	5.0	Each
KL1121110.0UE	7.5-10.0	Each
KL1121120.0UE	15.0-20.0	Each
KL1121132.0UE	32.0	Each

Capstan Rubber Recess Former & Screw

The capstan anchor must be installed using the correct Rubber Recess Former that holds the anchor securely in place during casting. This provides quick and secure installation and forms a recess for the shackle. Only the correct former will fit the anchor, and the load group is marked on each one.



Item Code	Load Group (Te)	Pack Size
KL1121101.3FR	1.3	Each
KL1121102.5FR	2.5	Each
KL1121105.0FR	5.0	Each
KL1121107.5FR	7.5	Each
KL1121110.0FR	10.0	Each
KL1121115.0FR	15.0	Each
KL1121120.0FR	20.0	Each
KL1121132.0FR	32.0	Each

Capstan Double Head Anchor Former

The capstan double head anchor must be installed using the correct Double Head Anchor Former that holds the anchor securely in place during casting. This provides quick and secure installation and forms a recess for the shackle.



Item Code	Load Group (Te)	Pack Size
KL1121101.3FRD	1.3	Each
KL1121102.5FRD	2.5	Each
KL1121105.0FRD	5.0	Each

Capstan Magnetic Recess Former Metal

The capstan anchor can be installed in metal moulds by the use of Magnetic Recess Formers. These are used where the lifting anchors are not accessible when casting. All magnetic formers are zinc plated for corrosion resistance or made with a rubber coating.



Item Code	Load Group (Te)	Adhesion	Pack Size
KL112111.3MFR	1.3	170kpi	Each
KL112112.5MFR	2.5	265kpi	Each
KL112115.0MFR	5.0	470kpi	Each
KL1121110.0MFR	7.5-10.0	600kpi	Each

Capstan Magnetic Recess Former Rubber

The capstan anchor can be installed in metal moulds by the use of Magnetic Recess Formers. These are used where the lifting anchors are not accessible when casting. All magnetic formers are zinc plated for corrosion resistance or made with a rubber coating.



Item Code	Load Group (Te)	Adhesion	Pack Size
KL112111.3MFRR	1.3	110kpi	Each
KL112112.5MFRR	2.5	185kpi	Each
KL112115.0MFRR	5.0	160kpi	Each

Capstan Magnetic Recess Former Rubber Sleeve

The Capstan Magnetic Recess Former Rubber Sleeves are used in conjunction with the magnetic recess formers and are placed around the shank of the capstan anchor and pushed into the void of the former.

Item Code	Load Group (Te)	Pack Size
KL112111.3MFRS	1.3	Each
KL112112.5MFRS	2.5	Each
KL112115.0MFRS	5.0	Each
KL112117.5MFRS	7.5	Each
KL1121110.0MFRS	10.0	Each

For further information please refer to our Precast Product Guide and Technical Manual.

Utility Anchor



The Utility Anchor is designed for reinforced or unreinforced concrete units and is especially useful for cover slabs, pipes and culverts, or any application where the construction site can benefit from an approved and tested lifting anchor that can be used with a crane hook and no other special lifting device.

Item Code	Overall Height (mm)	Overall Length (mm)	Tension SWL (Kg)	Shear SWL (Kg)	Pack Size
KL11211UAG0.8T	80	134	800	1300	Each
KL11211UAG1.4T	80	143	1400	1800	Each
KL11211UAG1.8T	95	152	1800	2500	Each
KL11211UAG2.0T	120	181	2000	3000	Each
KL11211UAG2.5T	170	238	2500	3500	Each
KL11211UAG3.5T	95	161	3500	5000	Each
KL11211UAG5.0T	120	189	5000	7000	Each
KL11211UAG7.5T	170	247	7500	7500	Each

Utility Anchor Former

The utility anchor must be installed using the correct Utility Anchor Former that holds the anchor securely in place during casting. This provides quick and secure installation and forms a recess for the crane hook and the load group is marked on each one.



Item Code	Load Group (Te)	Pack Size
KL11211UAF0.8T	0.8	Each
KL11211UAF3.5T	3.5-5.0	Each
KL11211UAF7.5T	7.5	Each

Wet Setting Plate

The Wet Setting Plate is used for floating applications.



Item Code	Pack Size
KL11211UAFWSP17	Each

Magnetic Holding Plate

The Magnetic Holding Plate is for use with the utility anchor and former.



Item Code	Load Group (Te)	Pack Size
KL11211UHPM0.8T	0.8	Each
KL11211UHPM3.5T	3.5-5.0	Each
KL11211UHPM7.5T	7.5	Each

For further information please refer to our Precast Product Guide and Technical Manual.

Flat End Lifting Socket



RFA-Tech Flat End Lifting Sockets provide simple lifting and transporting for most kinds of precast concrete units, particularly when casting into thin concrete panels.

They are available in both high grade zinc plated carbon steel and stainless steel.

Item Code Zinc Plated	Item Code Stainless Steel	Thread Size	Length (mm)	Axial Load Rating (Kg)	Pack Size
KL11213DG12060	KL11211DG12060S	M12	60	500	Each
KL11213DG16080	KL11213DG16080S	M16	80	1200	Each
KL11213DG16100	KL11213DG16100S	M16	100	1200	Each
KL11213DG20095	KL11213DG20095S	M20	95	2000	Each
KL11213DG24100	KL11213DG24100S	M24	100	2500	Each
KL11213DG30135	KL11213DG30135S	M30	135	4000	Each
KL11213DG30150	KL11213DG30150S	M30	150	4000	Each

Cylindrical Lifting Sockets



RFA-Tech Cylindrical Lifting Sockets provide simple lifting and transporting for most kinds of precast concrete units, particularly when casting into thin concrete panels.

They are available in both high grade zinc plated carbon steel and stainless steel.

Item Code Zinc Plated	Item Code Stainless Steel	Thread Size	Length (mm)	Axial Load Rating (Kg)	Pack Size
KL112131200G12Z	KL112131200G12S	Rd12	40	500	Each
KL112131200G16Z	KL112131200G16S	Rd16	54	1200	Each
KL112131200G20Z	KL112131200G20S	Rd20	69	2000	Each
KL112131200G24Z	KL112131200G24S	Rd24	78	2500	Each
KL112131200G30Z	KL112131200G30S	Rd30	103	4000	Each
KL112131200G36Z	KL112131200G36S	Rd36	125	6300	Each
KL112131200G42Z	KL112131200G42S	Rd42	140	8000	Each
KL112131200G52Z	KL112131200G52S	Rd52	170	12500	Each

Bolt Anchors

RFA-Tech Bolt Anchors are especially suitable for slab type panels or beams.

They are available in high grade zinc plated carbon steel, although stainless steel is available to special order.



Item Code	Thread Size	Length (mm)	Axial Load Rating (Kg)	Pack Size
KL11211BA12070Z	Rd12	70	500	Each
KL11211BA16080Z	Rd16	80	1200	Each
KL11211BA20125Z	Rd20	125	2000	Each
KL11211BA24140Z	Rd24	140	2500	Each
KL11211BA30170Z	Rd30	170	4000	Each

Wavy Tail Lifting Anchors



RFA-Tech Wavy Tail Anchors are quick to install and versatile for lifting most types of precast units.

The socket of the Wavy Tail is available in high grade zinc plated carbon steel and is swaged to a waved reinforcement bar. Stainless steel sockets and rebar tails are available to special order.

Item Code	Type	Thread Size	Length (mm)	Bar Dia (mm)	Axial Load Rating (Kg)	Pack Size
KL11213WVTRD12L	Long	Rd12	137	8	500	Each
KL11213WVTRD16L	Long	Rd16	216	12	1200	Each
KL11213WVTRD20L	Long	Rd20	257	16	2000	Each
KL11213WVTRD24L	Long	Rd24	360	16	2500	Each
KL11213WVTRD30L	Long	Rd30	450	20	4000	Each
KL11213WVTRD36L	Long	Rd36	570	25	6300	Each
KL11213WVTRD42L	Long	Rd42	620	28	8000	Each
KL11213WVTRD52L	Long	Rd52	880	32	12500	Each
KL11213WVTRD12S	Short	Rd12	108	8	500	Each
KL11213WVTRD16S	Short	Rd16	167	12	1200	Each
KL11213WVTRD20S	Short	Rd20	187	16	2000	Each
KL11213WVTRD24S	Short	Rd24	240	16	2500	Each
KL11213WVTRD30S	Short	Rd30	300	20	4000	Each
KL11213WVTRD36S	Short	Rd36	380	25	6300	Each
KL11213WVTRD42S	Short	Rd42	450	28	8000	Each

Flat Plate Anchors

RFA-Tech Flat Plate Anchors provide simple lifting and transporting for many kinds of precast concrete units, particularly when casting into thin concrete slabs.

They are available in high grade zinc plated carbon steel, although stainless steel is available to special order.



Item Code	Thread Size	Overall Height (mm)	Axial Load Rating (Kg)	Pack Size
KL11219FPRD12	Rd12	30	500	Each
KL11219FPRD16	Rd16	35	1200	Each
KL11219FPRD20	Rd20	47	2000	Each
KL11219FPRD24	Rd24	54	2500	Each
KL11219FPRD30	Rd30	72	4000	Each
KL11219FPRD36	Rd36	84	6300	Each
KL11219FPRD42	Rd42	98	8000	Each
KL11219FPRD52	Rd52	117	12500	Each

Swivel Lifting Eyes

RFA-Tech Swivel Lifting Eyes are a cost effective method of lifting most types of precast concrete units with all types of threaded lifting inserts.

They are especially useful for pitching and turning units, and for high volume lifting on site or in the factory where wire rope lifting devices can wear out quickly. All Swivel Lifting Eyes are supplied with a current test certificate.



Item Code	Thread Size	SWL (Kg)	Pack Size
KL11213SEB12	M12	500	Each
KL11213SEB16	M16	1400	Each
KL11213SEB20	M20	2000	Each
KL11213SEB24	M24	3000	Each
KL11213SEB30	M30	5000	Each
KL11213SEB36	M36	8000	Each
KL11213SEB42	M42	10000	Each
KL11213SEB52	M52	12500	Each

Lifting Loops



RFA-Tech Lifting Loops are a cost effective method of lifting most types of precast concrete unit with all types of threaded lifting inserts. All lifting loops are supplied with a current test certificate, and are available in both metric and Rd thread. All lifting loops must be checked for damage prior to each lift.

Item Code Metric Thread	Item Code Rd Thread	Thread Size	Length (mm)	Axial Load Rating (Kg)	Pack Size
KL11213LOOPM12	KL11213LOOPRD12	M12/Rd12	155	500	Each
KL11213LOOPM16	KL11213LOOPRD16	M16/Rd16	155	1200	Each
KL11213LOOPM20	KL11213LOOPRD20	M20/Rd20	215	2000	Each
KL11213LOOPM24	KL11213LOOPRD24	M24/Rd24	255	2500	Each
KL11213LOOPM30	KL11213LOOPRD30	M30/Rd30	300	4000	Each
KL11213LOOPM36	KL11213LOOPRD36	M36/Rd36	360	6300	Each
-	KL11213LOOPRD42	Rd42	425	8000	Each
-	KL11213LOOPRD52	Rd52	480	12500	Each

Polypropylene Cast in Loops

Polypropylene Cast in Loops are a cost-effective method of lifting lightweight concrete units and provide a crane hook attachment that can be cut off once used. They are designed for use for de-moulding, transportation and fixing only, and should not be used in more than one such cycle.



Item Code	Rope Dia (mm)	Load Rating (Kg)	Pack Size
KL11213POLY150	6	150	Each
KL11213POLY250	8	250	Each
KL11213POLY350	10	350	Each
KL11213POLY500	12	500	Each
KL11213POLY875	14	875	Each
KL11213POLY1200	16	1200	Each

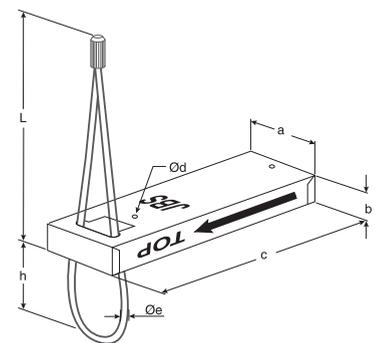
Loop Boxes

The JBS® Loop Box is a simple and highly efficient solution used to join precast elements together, mainly for the use with slabs and wall panels. The connecting loop is made of high strength wire rope with an overall dia of 6mm or 8mm, and is protected by the galvanized metal box, which is sealed by a covering tape.

The loop box can be easily installed in both precast factories or in-situ on site. When the units are ready to be connected, the sealing tape is removed and the wire loop is locked into position using the JBS locking device (patent pending).

Key Benefits

- Simple installation due to flexible loops and pre-cut nail holes.
- Anchorage in thin walls.
- Weatherproof cover, easy to remove.
- Different colours to show the sizes.
- Top arrow sign to avoid being installed incorrectly.
- High frequency tensile test carried out on every roll of rope.



Item Code	a (mm)	b (mm)	c (mm)	Ø d (mm)	Ø e (mm)	L (mm)	h (mm)	Pack Size
KL11213LPBOX080	50	20	160	3	6	212	80	Each
KL11213LPBOX100	50	20	160	3	6	212	100	Each
KL11213LPBOX120	50	20	160	3	6	212	120	Each
KL11213LPBOX140	50	20	200	3	8	212	140	Each

Fixing Insert With Cross Hole



RFA-Tech Fixing Inserts with Cross Hole provide a threaded fixing system in cast concrete with a strength of 30N/mm² and above. They are effective for a single point fixing where no tolerance for attaching is required.

They are manufactured from either zinc plated high grade carbon steel or stainless steel tube.

They can be used in conjunction with plastic nailing plates or magnetic holding plates to provide a recess that can be made good on site. Plastic stopper caps are also available to protect threads from weathering.

Item Code Zinc Plated	Item Code Stainless Steel	Thread Size	Length (mm)	Axial Load Rating (Kg)	Pack Size
KL112159G06035Z	KL112159G06035S	M6	35	150	Each
KL112159G08040Z	KL112159G08040S	M8	40	200	Each
KL112159G10050Z	KL112159G10050S	M10	50	350	Each
KL112159G12060Z	KL112159G12060S	M12	60	500	Each
KL112159G16060Z	-	M16	60	600	Each
-	KL112159G16070S	M16	70	700	Each
KL112159G16080Z	KL112159G16080S	M16	80	800	Each
KL112159G16100Z	KL112159G16100S	M16	100	1000	Each
KL112159G16120Z	KL112159G16120S	M16	120	1200	Each
KL112159G20100Z	KL112159G20100S	M20	100	1250	Each
KL112159G20120Z	KL112159G20120S	M20	120	1400	Each
KL112159G24120Z	KL112159G24120S	M24	120	1800	Each

Fixing Insert Right Angled



RFA-Tech Fixing Inserts with Right Angle provide a cost effective threaded fixing system in cast concrete with a strength of 30N/mm² and above, where either the unit or speed of installation required does not permit the use of a high yield reinforcement tail bar. They are effective for a single point fixing where no tolerance is required for attachment.

They are available in high grade zinc plated carbon steel, although stainless steel is available to special order.

They can be used in conjunction with plastic nailing plates or magnetic holding plates to provide a recess that can be made good on site. Plastic stopper caps are also available to protect threads from weathering.

Item Code	Thread Size	Length (mm)	Axial Load Rating (Kg)	Pack Size
KL1121511400850	M8	50	300	Each
KL1121511401060	M10	60	500	Each
KL1121511401245	M12	45	400	Each
KL1121511401270	M12	70	700	Each
KL1121511401660	M16	60	700	Each
KL1121511401610	M16	100	1200	Each
KL1121511402070	M20	70	800	Each
KL1121511402010	M20	100	1250	Each
KL1121511402480	M24	80	1200	Each

Fixing Insert With Cross Pin - Light Duty



RFA-Tech Fixing Inserts with Cross Pin (Light Duty) provide a cost effective threaded fixing system in cast concrete with a strength of 30N/mm² and above, where either the unit or speed of installation required does not permit the use of a high yield reinforcement tail bar. They are effective for a single point fixing where no tolerance is required for attachment.

They are available in high grade zinc plated carbon steel, although stainless steel is available to special order.

They can be used in conjunction with plastic nailing plates or magnetic holding plates to provide a recess that can be made good on site. Plastic stopper caps are also available to protect threads from weathering.

Item Code	Thread Size	Length (mm)	Axial Load Rating (Kg)	Pack Size
KL11215995A08Z	M8	40	200	Each
KL11215995A10Z	M10	50	350	Each
KL11215995A12Z	M12	60	500	Each
KL11215995A16Z	M16	80	700	Each
KL11215995A161Z	M16	100	800	Each
KL11215995A20Z	M20	100	1200	Each
KL11215995A24Z	M24	120	1800	Each

Fixing Inserts With Cross Pin - Heavy Duty



RFA-Tech Fixing Inserts with Cross Pin (Heavy Duty) provide a cost effective threaded fixing system in cast concrete with a strength of 30N/mm² and above, where either the unit or speed of installation required does not permit the use of a high yield reinforcement tail bar. They are effective for a single point fixing where no tolerance is required for attachment.

They are available in both high grade zinc plated carbon steel and stainless steel.

They can be used in conjunction with plastic nailing plates or magnetic holding plates to provide a recess that can be made good on site. Plastic stopper caps are also available to protect threads from weathering.

Item Code Zinc Plated	Item Code Stainless Steel	Thread Size	Length (mm)	Axial Load Rating (Kg)	Pack Size
KL112151074A10Z	KL112151074A10S	M10	60	600	Each
KL112151074A12Z	KL112151074A12S	M12	50	900	Each
KL112151074A27Z	KL112151074A27S	M12	75	900	Each
KL112151074A16Z	KL112151074A16S	M16	75	1700	Each
KL112151074A20Z	KL112151074A20S	M20	75	2300	Each
KL112151074A24Z	KL112151074A24S	M24	100	3000	Each
KL112151074A30Z	KL112151074A30S	M30	125	6000	Each

For further information please refer to our Precast Product Guide and Technical Manual.

Spread Anchors



The most versatile of the anchors, the Spread Anchors are suitable for lifting most types of beams, wall panels and slabs. The second hole provides the option to use extra reinforcement where required. These are available in safe working loads from 0.7t to 26.0t.

In addition to the sizes listed below, special sizes and hole positions are available to order.

Item Code	Axial Load Rating (Te)	Anchor Length (mm)	Anchor Width (mm)	Anchor Thickness (mm)	Hole Dia (mm)	Pack Size
KL11217SA0.7110	0.7	110	30	5	14	Each
KL11217SA1.4110	1.4	110	30	6	14	Each
KL11217SA1.4160	1.4	160	30	6	14	Each
KL11217SA2.0130	2.0	130	30	8	14	Each
KL11217SA2.0160	2.0	160	30	8	14	Each
KL11217SA2.0210	2.0	210	30	8	14	Each
KL11217SA2.5150	2.5	150	30	10	14	Each
KL11217SA2.5200	2.5	200	30	10	14	Each
KL11217SA2.5250	2.5	250	30	10	14	Each
KL11217SA3.0160	3.0	160	40	10	18	Each
KL11217SA3.0200	3.0	200	40	10	18	Each
KL11217SA3.0280	3.0	280	40	10	18	Each
KL11217SA4.0180	4.0	180	40	12	18	Each
KL11217SA4.0240	4.0	240	40	12	18	Each
KL11217SA4.0320	4.0	320	40	12	18	Each
KL11217SA5.0180	5.0	180	40	15	18	Each
KL11217SA5.0240	5.0	240	40	15	18	Each
KL11217SA5.0400	5.0	400	40	15	18	Each
KL11217SA7.5260	7.5	260	60	16	26	Each
KL11217SA7.5300	7.5	300	60	16	26	Each
KL11217SA7.5420	7.5	420	60	16	26	Each
KL11217SA10300	10.0	300	60	20	26	Each
KL11217SA10370	10.0	370	60	20	26	Each
KL11217SA10520	10.0	520	60	20	26	Each
KL11217SA14370	14.0	370	80	20	35	Each
KL11217SA14460	14.0	460	80	20	35	Each
KL11217SA22500	22.0	500	90	28	35	Each
KL11217SA22620	22.0	620	90	28	35	Each

Erection Anchors



Erection Anchors are specifically designed for pitching and turning concrete units. They have specially designed ribs on the head of the anchor which prevent concrete from spalling when turning units. These are available in safe working loads from 1.4t to 22.0t.

In addition to the sizes listed below, special sizes and hole positions are available to order.

Item Code	Load Rating (Te)	Anchor Length (mm)	Anchor Width (mm)	Anchor Thickness (mm)	Pack Size
KL11217TU14200	1.4	200	55	6	Each
KL11217TU25230	2.5	230	55	10	Each
KL11217TU04270	4.0	270	70	12	Each
KL11217TU05290	5.0	290	70	15	Each
KL11217TU75320	7.5	320	95	15	Each
KL11217TU10390	10.0	390	95	20	Each
KL11217TU12550	12.5	500	148	20	Each
KL11217TU17500	17.0	500	148	25	Each
KL11217TU22500	22.0	500	148	30	Each

Two Hole Anchors



Two Hole Anchors are suitable for use where load distribution is not possible through the foot of a spread anchor and is done so by use of a reinforcement tail bar. They are particularly useful in thin wall panels and trusses, or where concrete strength is low. These are available in safe working loads from 0.7t to 22.0t.

In addition to the sizes listed below, special sizes and hole positions are available to order.

Item Code	Load Rating (Te)	Anchor Length (mm)	Anchor Width (mm)	Anchor Thickness (mm)	Hole Dia (mm)	Pack Size
KL11217TA1.490	1.4	90	30	6	14	Each
KL11217TA2.090	2.0	90	30	8	14	Each
KL11217TA2.590	2.5	90	30	10	14	Each
KL11217TA3.0120	3.0	120	40	10	18	Each
KL11217TA4.0120	4.0	120	40	12	18	Each
KL11217TA5.0120	5.0	120	40	15	18	Each
KL11217TA7.5160	7.5	160	60	16	26	Each
KL11217TA10170	10.0	170	60	20	30	Each
KL11217TA14240	14.0	240	80	20	35	Each
KL11217TA22300	22.0	300	80	28	35	Each
KL11217TA26300	26.0	300	120	30	65	Each

Universal Spread Anchor



Universal Spread Anchors are for use in light duty applications and combine the benefits of Two Hole, Erection and Spread Anchors. They are available in 1.25t only, and use a former and ring clutch specific to this load group. They are suitable for small precast units or where a small recess is required.

Item Code	Load Rating (Te)	Anchor Length (mm)	Anchor Width (mm)	Anchor Thickness (mm)	Pack Size
KL11217UA125120	1.25	120	30	6	Each

Flat Foot Anchors



Flat Foot Anchors are used for thin slabs and additional reinforcement is essential. They are available in safe working loads from 1.4t to 22.0t.

Item Code	Load Rating (Te)	Anchor Length (mm)	Anchor Width (mm)	Anchor Thickness (mm)	Pack Size
KL11217SF0760	0.7	65	30	5	Each
KL11217SF1465	1.4	65	30	6	Each
KL11217SF2070	2.0	70	30	8	Each
KL11217SF2575	2.5	75	30	10	Each
KL11217SF3090	3.0	90	40	10	Each
KL11217SF40110	4.0	110	40	12	Each
KL11217SF50125	5.0	125	40	15	Each
KL11217SF75170	7.5	170	60	16	Each
KL11217SF10200	10.0	200	60	20	Each
KL11217SF12522	12.5	220	80	16	Each
KL11217SF17270	17.0	270	80	20	Each
KL11217SF22310	22.0	310	90	28	Each

Standard Ring Clutch

The Standard Ring Clutch is a manually operated coupler available in various load groups for use with spread anchors. It is coupled to a corresponding spread anchor for the safe axial or angled lifting, turning or swivelling of precast concrete units. Each ring clutch is marked with the safe working load, the RFA-Tech identification mark, the load rating of the clutch, the individual index number and CE mark.



Item Code	Load Group (Te)	Pack Size
KL11217TF2LC025	2.5	Each
KL11217TF2LC05T	5.0	Each
KL11217TF2LC10T	10.0	Each
KL11217TF2LC26T	26.0	Each

Wire Rope Ring Clutch

The Wire Rope Ring Clutch is a manually operated coupler available in various load groups for use with spread anchors. It is coupled to a corresponding spread anchor for the safe axial or angled lifting, turning or swivelling of precast concrete units. Each ring clutch is marked with the safe working load, the RFA-Tech identification mark, the load rating of the clutch, the individual index number and CE mark.



Item Code	Load Group (Te)	Pack Size
KL11217TF1WC125	1.25	Each
KL11217TF1WC2.5	2.5	Each

Rubber Recess Former

Rubber Recess Formers are used for mounting anchors to wooden formwork, or floating installation for all variations of spread anchors. A smaller version is available for universal anchors.



Item Code	Load Group (Te)	Pack Size
KL11217RRF125	1.25	Each
KL11217RRF025	2.5	Each
KL11217RRF050	5.0	Each
KL11217RRF100	10.0	Each
KL11217RRF260	26.0	Each

Metal Nailing Plate

Metal Nailing Plates are used for attaching anchors to wooden formwork.



Item Code	Load Group (Te)	Pack Size
KL11217SANP125	1.25	Each
KL11217SANP025	2.5	Each
KL11217SANP050	5.0	Each

Steel Magnetic Former

The Steel Magnetic Former is used for mounting anchors to steel moulds or formwork beds. Special variations are available to order.

Item Code	Load Group (Te)	Pack Size
KL11217SAMF025	2.5	Each
KL11217SAMF050	5.0	Each
KL11217SAMF100	10.0	Each

For further information please refer to our **Precast Product Guide and Technical Manual**.

Reusable Fixing Screw

The Reusable Fixing Screw allows threaded anchors to be fixed directly to the mould by using a smaller bolt than the insert size. This reduces the size of the holes necessary in the formwork for applications where nailing plates are not appropriate to use.



Item Code	Insert Dia	Bolt Dia (mm)	Pack Size
KL11219REU12	M12	6	Each
KL11219REU16	M16	8	Each
KL11219REU20	M20	8	Each
KL11219REU24	M24	10	Each
KL11219REU30	M30	10	Each
KL11219REU36	M36	10	Each

Plastic Sealing Caps

Plastic Sealing Caps are used to protect threads from corrosion when units are being stored.



Item Code	Thread Dia	Pack Size
KL11219SEAM06	M6	1,000
KL11219SEAM08	M8	200
KL11219SEAM10	M10	200
KL11219SEAM12	M12	200
KL11219SEAM16	M16	200
KL11219SEAM20	M20	200
KL11219SEAM24	M24	100
KL11219SEAM30	M30	100
KL11219SEAM36	M36	100
KL11219SEAM42	M42	100
KL11219SEAM52	M52	100

Plastic Nailing Plates

Plastic Nailing Plates are for use with wooden formwork and are simply nailed to the mould in the correct position and the anchor screwed on. For security when pouring, it is advisable to tie the anchor into the mesh or re-bar cage. These are a short-term, re-usable item and provide a cost effective solution. Steel nailing plates are also available to special order.



Item Code	Thread Dia	Pack Size
KM12111NAILM08	M8	100
KM12111NAILM10	M10	100
KM12111NAILM12	M12	100
KM12111NAILM16	M16	100
KM12111NAILM20	M20	100
KM12111NAILM24	M24	100
KM12111NAILM30	M30	100
KM12111NAILM36	M36	100
KM12111NAILM42	M42	100
KM12111NAILM52	M52	100

Magnetic Nailing Plate

Magnetic Nailing Plates are for use with steel formwork and are attached by magnetic adhesion to the mould. The magnetic former is placed in the correct position with the anchor already screwed on. The magnetic base is available in two adhesion strengths with interchangeable threaded pins for each size.



Item Code	Base Kpi	Pack Size
KL11211THMGB105	105	Each
KL11211THMGB190	190	Each

Threaded Pin

Threaded Pins are interchangeable for use with the magnetic nailing plates.



Item Code	Thread Dia	Pack Size
KL11211TPINM10	M10	Each
KL11211TPINM12	M12	Each
KL11211TPINM16	M16	Each
KL11211TPINM20	M20	Each
KL11211TPINM24	M24	Each
KL11211TPINM30	M30	Each

Magnetic Nailing Plate Removal Tool

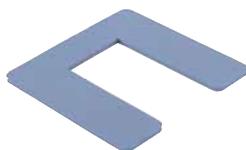
The Removal Tool is for use with the magnetic nailing plates.



Item Code	Pack Size
KL11211THMAGREL	Each

Horseshoe Shims

Plastic Levelling Shims are ideal for packing during the erection of precast concrete units. Horseshoe Shims which fit around projecting bars, are 76mm x 76mm and available from 2mm thickness up to 20mm.



Item Code	Thickness (mm)	Pack Size
KM12111HOR02	2	500
KM12111HOR03	3	500
KM12111HOR05	5	500
KM12111HOR07	7	500
KM12111HOR09	9	250
KM12111HOR10	10	250
KM12111HOR20	20	250

Square Shims

Plastic Levelling Shims are ideal for packing during the erection of precast concrete units. Square Shims are 70mm x 70mm and available from 2mm thickness up to 10mm.



Item Code	Thickness (mm)	Pack Size
KM12111SQU02	2	500
KM12111SQU03	3	500
KM12111SQU05	5	500
KM12111SQU09	9	250
KM12111SQU10	10	250

Panel Pads

Panel Pads are stacking pads for precast units that prevent the curing stains often produced by stacking on timbers. They are suitable for both vertical and horizontal applications.



Item Code	Length (mm)	Width (mm)	Pack Size
KM12111PAN140WH	140	65	200

Cut & Bent Reinforcement

We are able to offer a range of **CARES Approved** rebar products in Grade 500C (diameters 8mm-40mm), including:

- Stock lengths of steel reinforcing bar available in 12m standard lengths.
- Cut and bent bar reinforcement to BS 8666:2005 Shape Codes.
- Pre-fabricated reinforcement for housing, industrial and piled foundations, bases and pile caps and bar mats.

Fabric Reinforcement

We are able to offer a range of **CARES Approved** fabric products manufactured to BS 4483, including:-

- Standard fabric.
- Flying end fabric.
- Cut and bent fabric.
- Made-to-measure and tailored fabric .

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	18	162.34
A 252	200mm	200mm	8mm	8mm	252mm ²	252mm ²	3.95	22	45.50	28	253.16
A 193	200mm	200mm	7mm	7mm	193mm ²	193mm ²	3.02	29	34.79	34	331.13
A 142	200mm	200mm	6mm	6mm	142mm ²	142mm ²	2.22	40	25.57	46	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	18	168.63
B 385	100mm	200mm	7mm	7mm	385mm ²	193mm ²	4.53	20	52.19	24	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	16	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	26	221.73
C 385	100mm	400mm	7mm	6mm	385mm ²	71mm ²	3.58	25	41.24	30	279.33
C 283	100mm	400mm	6mm	6mm	283mm ²	71mm ²	2.78	32	32.03	32	359.71
WRAPPING											
D 98	200mm	200mm	5mm	5mm	98mm ²	98mm ²	1.54	57	17.74	60	649.35
D 49	100mm	100mm	2.5mm	2.5mm	49mm ²	49mm ²	0.77	129	7.76	50	1298.70

Prestressing Strand and Wire

We offer a wide range of high tensile wires and strands. Our line of high quality wires include different diameters and surfaces (smooth, indented and galvanised). We offer three and seven wire strands, the latter can come with or without corrosion protection. The range of galvanised wires can also be protected with a polyethylene coating, with either a wax or grease filling.

These different types of strands are used, in addition to standard precast concrete applications, for constructions that require high performance products, such as nuclear plants, high velocity train sleepers, cryogenic tanks and suspension and stay bridges.

Although various types and diameters are available the most popular in the UK is the seven wire strand with an 1860 N/mm² tensile strength in the following diameters: 9.3mm, 12.5mm and 15.7mm.



1. General

Except to the extent that such provisions of the Sale of Goods Act 1979 are non-excludible these conditions together with such provisions of the said Act are not inconsistent herewith shall apply to all sales by RFA-TECH (the company) and shall form the basis of a contract between the company and the customer. No variation of these conditions shall be effective unless made in writing and signed by a director of the company. Unless otherwise agreed in writing these conditions shall prevail over any other terms and conditions whether in writing or implied by Law or by trade, custom, practice or previous course of dealing and any such inconsistent terms and hereby expressly excluded. This agreement will be governed and construed in accordance with the laws of England and Wales. The parties' hereto submit to the exclusive jurisdiction of the courts of England and Wales.

2. Additional Conditions

- (a) The Order constitutes an offer by the Buyer to purchase Goods in accordance with these Conditions.
- (b) 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.
- (c) 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.
- (d) 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.
- (e) 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. Price

All prices quoted are based on costs ruling at the date of quotation, (excluding VAT). If there are any alterations to these costs the Company reserves the right to alter the prices and will notify the customer in writing thereof, the issuing of a new price list is by the Company shall be deemed to be such notice. Thereafter the customer shall have the right to cancel the order on written notice to that effect being given to the company within seven days of the written notice giving the alteration in price.

4. Payment

- (a) In the absence of any concession to the contrary by the Company from time to time accounts are due and payable in full within 30 days of the end of the month in which the invoice was dated (due date) of the respective invoice.
- (b) If the customer fails to pay any amount due on the due date:-
 - (i) The company has the right to cancel any contract made with the customer and/or suspend or continue delivery of goods and materials at the company's option without prejudice to the company's right to recover damages for any loss sustained by it.
 - (ii) The outstanding sum shall carry interest from the due date at a rate of 4% above Barclays Bank plc base rate from time to time and for the time being in force per month until settlement. A part of a month being treated as a whole month for the purposes of calculating interest.
 - (iii) The whole balance of the price of this contract and all other contracts invoiced shall immediately become due and payable together with interest.

5. Suitability of Goods

The customer is responsible for the suitability of the goods and materials bought. No warranty is given nor shall any warranty condition be implied that the goods are reasonable fit and suitable in size shape capacity quality or otherwise for the purpose for which they are bought and the Company shall not be under any liability whatsoever due to any goods being unfit or unsuitable.

6. Notification of Loss, Shortages, Damage in Transit

- (a) Any damage shortage or pilferage in transit to goods must be notified in writing to the Company within seven days of delivery all damage, shortage or pilferage to goods apparent at the time of delivery must be noted on the carriers delivery note at the time of delivery otherwise the Company cannot consider accepting liability.
- (b) Non-delivery of goods must be notified in writing to the Company within seven days of our invoice relating thereto otherwise liability by the Company cannot be considered.

7. Defects

If any goods show defects arising solely from faulty materials and/or workmanship, the Company's liability shall be limited to replacing such goods, but no such liability shall arise unless notification of such defects is received WITHIN SEVEN DAYS from receipt of the goods and the alleged defective goods are returned to the Company. In no circumstances shall the Company be liable for any consequential loss howsoever caused.

8. Sale by Sample and/or Description

Unless the contract specifically provides for a sale by sample and/or description, the submission of a sample and/or the giving of a description shall not be held to indicate the sale is a sale by sample and/or description and any warranty expressed or implied by law to the contrary effect is hereby excluded. Where the contract specifically provides for a sale by sample and/or description regard will be given to normal variations arising from the nature of the materials from which the goods are manufactured. Any variation required at a future date must be subject to further negotiations.

9. Cancellation

Contracts and orders may be cancelled by customers with the sanction of a Director of the Company, which sanction is in the Company's sole discretion and can only be given upon payment of such sum by way of compensation as specified by the Company, and such sum by way of compensation would include payment in respect of loss of profits.

10. Retention of Title

- (a) The title to the property in the goods comprised in an order shall not pass to the customer until amounts for all goods comprised in that order and all other outstanding amounts due to us in respect of any other transactions between the parties then outstanding has been paid in full not withstanding that the goods may have been delivered to the customer.
- (b) Notwithstanding the above paragraph the goods shall be at risk of the customer from the time of delivery to or collection by the customer and the customer shall take all necessary steps to insure the goods for their full invoice value.

- (c) The customer shall separately store the goods and identify the goods as belonging to the Company until the relevant invoice has been settled in full. The customer is prohibited from incorporating the goods or using the same until such settlement.

- (d) The customer may sell the goods to a third party in the ordinary course of the customer's business but only under the following conditions:-

- (i) Only at such a price that would enable the customer to repay the amount due to the Company under (a) above.
- (ii) The customer shall in every case make it a condition that the title in the goods shall not pass to the third party until the third party has paid to the customer the amount in paragraph (d)(i) above.
- (iii) Immediately upon such sub-sale the customer shall notify the Company of the name and address of the third party and the Company shall be entitled to inform the third party of our interest in the goods.
- (iv) The proceeds of any sub-sale shall be held by the customer on trust for the Company and shall be paid into a separate Bank Account specifically designed as being a trust account for the Company and such time as payment for the goods is made in full to the Company.
- (e) Save as above, the customer shall not dispose of the goods in any way or create or allow to be created any rights in the goods in favour of the third party.
- (f) Should the customer be in arrears with any payment to the Company, the Company is hereby granted an implied license to enter the customer's premises where the goods are then being kept or stored in order to re-possess the goods and the cost of any such re-possession shall be borne by the customer. The Company shall not be responsible for any damage howsoever caused arising out of the re-possession of the goods under this clause.

11. Limitation of Liability

In all cases the Company's liability in any claim is limited to the amount covered by the Company's insurance. The Company cannot accept liability for any loss or damage caused to the customer by reason of the Company's products being found to involve the infringement of any third party's patent or patents.

12. Termination

The Company reserves the right to terminate the order upon giving reason able written notice to the customer. The Company further reserves the right to terminate this order if sums due and payable by the customer under previous orders remains outstanding.

13. Insolvency. This clause applied if :-

- 13.1.1 The customer makes any voluntary arrangement with the creditors or becomes subject to an administration order (being an individual or firm) becomes bankrupt or (being a Company) goes into liquidation otherwise than for the purposes of amalgamation or reconstruction or
- 13.1.2 An encumbrancer takes possession or a receiver is appointed of any of the property or assets of the Customer or
- 13.1.3 The customer ceases or threatens to cease to carry on business or
- 13.1.4 The Company reasonably apprehends that any of the events mentioned above is about to occur in relation to the customer
- 13.2 If 13.1 above applies then without prejudice to any other rights of the Company.
- 13.2.1 The Company shall be entitled to cancel the contract and

14. Any payment due but not paid (not withstanding that the due date may not have arisen) shall become immediately due and payable not withstanding any previous agreement or arrangement to the contrary together with interest at the rate specified in 3(b) above

- 14.1 The Company shall make all reasonable efforts to meet quoted delivery dates, although such dates and times are not guaranteed.

- 14.2 The Company shall not be liable for any delay in delivery due to factors beyond the Company's control, which shall include without prejudice to generality of the foregoing. Acts of God, explosion, flood, tempest, fire, accident, war or threat of war, sabotage insurrection civil disturbance or measures of any kind on the part of any Government or Parliamentary Authority. Strikes lock out or any other industrial actions or trade disputes (whether involving the Company's employees or third parties) power failure, shortage of fuels or materials or breakdown in machinery. The Company shall endeavour to fulfil its obligations as soon as is reasonably practicable taking into account the relevant aforementioned event.

15. Privacy Policy

- 15.1 Information supplied by you will only be held and used for our purposes in order to conduct business with you and to improve our level of service.

- 15.2 When you order, we need to know your name, email address, invoice and delivery addresses, and, also payment details including credit or debit card number details, as may be appropriate. This enables us to process and fulfil your orders and to notify you in the event of any queries. We also request your telephone number which allows us to contact you if there is a problem with your order such as a courier having difficulty in achieving a delivery.

- 15.3 We will occasionally send you emails relating to your order, such as order confirmations and other important information where you will have given us your consent as part of the registration process.

- 15.4 We will not sell or rent your email address or telephone number(s) without your permission. We may ask you for some additional information from time to time to help us improve our service to you - this is entirely voluntary and will be clearly highlighted as such.

- 15.5 Should you wish to have you name and address suppressed from receiving future mailings and emails all you need to do is contact us and all further promotional contacts with you will cease as appropriate.

- 15.6 We may track the patterns of behaviour for customers to help ensure that we only send you mailings and emails that we consider relevant to you, to minimise impacts upon the environment

16. Security

- 16.1 We have security measures in place to protect the loss, misuse and alteration of the information under our control. Our on-line transaction systems use the latest encryption technology to enable secure internet and payment transactions to take place.

- 16.2 We have additional security procedures in place to protect the confidentiality, integrity and availability of your user Information.

17. Returned Goods

Goods may be returned by the customer with the prior agreement of the Company, but will be subject to a 25% rehandling charge, or a minimum charge of 20.00(GBP), whichever is the greater.



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