



SSR Limited

High Performance Anchoring Systems

**PRODUCT RANGE
& PRICE LIST**

**EXPRESS
SERVICE**

From Our Manufacturing Facility



SSR PRODUCT AND SERVICE SUMMARY

SSR Limited is a specialist manufacturer of High Performance Anchor Systems focusing on the manufacture and supply for VRS, lighting columns and sign systems for use on road and rail applications.

From our new service centre at Aldershot close to the A331/M3 we offer in house manufacture and daily distribution service.

SSR-100 SERIES DRILLED IN INTERNALLY THREADED SOCKETS

SSR-100 Transport Anchor System for Parapets, Safety Fence, Pedestrian Parapets, Signs and Lighting Columns. Range M8 - M36

SSR-128 Lighting Column Anchors Range M24, M27 and M30



SSR-170 / SSR-175 / SSR-177 SERIES CAST IN CRADLE ANCHOR SYSTEMS

SSR-170 Cast in Cradle Anchor Systems for Parapets, Safety Fence, Pedestrian Parapets, Signs, Lighting Columns and Concrete Barrier applications. Range M12-M42

SSR-170 Cast in Transition Anchor Systems M16, M20, M24, M30

SSR-175 Cast in Cradle Anchor Range M12-M42



SSR-100 SSR-SAS HIGH PERFORMANCE ANCHOR SYSTEMS AND STUDS

SSR-CA55 Chemical Anchor Studs, B+BTEC High Performance Chemical Resins, Cut Studs and Plate Washers – M8 to M48.

SSR- B+BTEC- Range of Chemical Anchor Studs from M8 to M30.

Cut studs with nuts & washers; – M8 to M48.

Express Service; Cut Studs for Special Applications and Plate Washers



MORE SSR PRODUCTS AND SERVICES

Full range of standard fasteners. Stainless Steel and HDG; – M8 to M48.

SSR-180 Tie Bars & Rock Anchors; – M12 – M42.

SSR-165 Holding Down Bolts; – M12 to M48.

SSR Dowel Service; Stainless Steel Dowels Plain and Ribbed, Polymeric Coated Dowels and Accessories.

SSR- B+BTEC- Karat® Range of Diamond Core Drill Rigs.

SSR- B+BTEC- Karat® Range of HiSpeed Diamond Core Bits.



SSR-100 AND SSR-170 TECHNICAL ADVISORY SERVICE

There will often be installation applications where a standard anchor is not suitable due to specific high load requirements and concrete dimensional restrictions affecting anchor centres, edge distance and embedment depth. Our Technical Sales & Support Team will assist in designing a solution to problems of this nature and propose a suitable anchor for consideration by the project design team.





SSR LIMITED AND B+BTec PARTNERSHIP

SSR Limited – B+BTec Partnership

The management team of SSR Limited have been proud to represent our Dutch partners B+BTec as sole distributors for the United Kingdom and Ireland, since 1991.

From 1970 B+BTec have been developing and manufacturing a comprehensive range of medium and heavy duty anchoring systems for concrete and masonry. We refer to these systems by the generic term **SSR - SAS-Structural Anchor Systems** and many of the products are unique in concept. All **SSR-SAS-B+BTec Anchor Systems** are supported by extensive R & D investigation and many have approval from leading European testing institutions. Where appropriate these approvals include CE marking to conform to the Construction Products Regulation now in force.

B+BTec provide full support to the **SSR Limited** technical advisory service and also make available free online software providing a performance calculation method for many of the systems (see page 23). This allows **SSR-SAS-B+BTec Anchor Systems** to be specified and installed with excellent long term safety and site security.

B+BTec

B+BTec is an Engineering Company that focuses on the Design of Quality Products for both the Construction & Manufacturing Industries. Over the past 40 years the combined Experience and Expertise of the **B+BTec Engineering Division** in the field of Diamond and Chemical Technologies has crystallised into two Extremely Competitive High Quality Product Lines.

B+BTec- Karat HiSpeed Core Drilling Systems

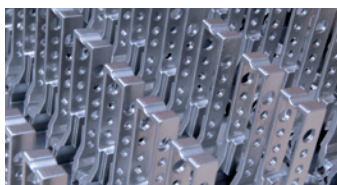
B+BTec supplies a complete new line of **HiSpeed** core drilling systems designed for handheld, rig mounted and wet and dry use. The versatility of these **Karat®** drilling systems is complimented by a modular system design and a wide range of universal accessories to further optimize their use.

The introduction of the new **HiSpeed** crown & segmented diamond bits marks our biggest advance in drilling performance, with drilling speeds more than doubling and often even tripling when compared to the first generation bits.

B+BTec- SAS & BIS Anchoring Systems

B+BTec Designs & Manufactures a wide Range of Stress-Free Heavy Duty Anchoring Systems (SAS) and Mortar Injection Systems (BIS) for the use in both Cracked & Uncracked Concrete, Seismic Applications, Chemical or Radioactive Applications, etc. As a System Manufacturer B+BTec is also able to supply Custom Designed Anchoring Solutions.

The Reliability & Longevity of the SAS & BIS Anchoring Systems are backed by several Technical Approvals (ETA's), various Reports by Leading Test Institutions and decades of use in a wide variety of applications worldwide.



B+BTec Headquarters in the Netherlands



THE CORROSION PROBLEM

Corrosion of carbon steel components, for example reinforcement or critical structural anchor systems is probably the most important cause of deterioration of concrete structures. The costs associated with repair and sometimes even stabilisation of structures affected by this type of corrosion can be substantial and in some cases even exceed the initial cost of construction.

Bridge decks and other components used on the road network are particularly vulnerable to chloride induced corrosion, especially in splash zones because of the wide use of de-icing salts. Components most often affected are anchorages used to install vehicle restraint systems, lighting columns and similar items. Reinforcement around movement joints and column heads can also be badly affected. There are many examples of fittings that have deteriorated to a critical level requiring urgent and expensive replacement or repair. Similar problems of severe corrosive attack can also be experienced in structures in a marine environment as well as pile caps and some precast beams.

The serious problems associated with corrosion in construction and civil engineering can be easily and cost effectively avoided by intelligent specification of materials such as stainless steel which are designed to deal with these situations.



THE SOLUTION SSR-100 SYSTEM - USING SSR-550 STAINLESS STEEL AND SSR-500 REINFORCING BAR AND SHEAR DOWEL SYSTEMS

SSR Limited has long been at the forefront in the development of materials and components to deal with the problems caused by corrosion. We are leaders in the use of austenitic and duplex stainless steels to the latest British and European standards for the manufacture of anchors and dowel systems as well as the processing and supply of reinforcing bars.

As one of the UK's leading designers, manufacturers and suppliers of high performance anchoring systems for use in construction and civil engineering projects **SSR Limited** are able to provide a unique service to both the specifier and user.

The **SSR-100 series of anchors** for infrastructure projects and the **SSR Limited-B+BTec-SAS Structural Anchoring Systems range** are only available from **SSR Limited**. Many of these products are designed to ensure that the problems caused by corrosion are eliminated at source:

U.K. road authorities such as the Highways England and Transport Scotland specify the use of stainless steels for components in critical applications on major road structures including,

- Anchorages for installing vehicle restraint systems
- Anchorages for lighting columns, CCTV masts and signs
- Shear dowel systems for movement joints
- Tying wire for reinforcement on bridge decks
- Reinforcing bar where a serious risk of corrosive attack is present. The stainless steels used by our **SSR Limited** for reinforcing and dowel systems conform to BS 6744 'Stainless steel bars for the reinforcement of and use in concrete'.



NON STANDARD ITEMS



From Our Manufacturing Facility

Our production and distribution service centre at Aldershot in Hampshire is equipped to manufacture a comprehensive range of standard and non-standard anchors and fabrications to suit individual project needs. No quantity is too small to consider.

Where corrosion has been a problem in the past SSR Limited now provide an engineered and cost effective long-term solution



SSR Technical Advisory Service

For any specific technical enquiry please contact our **SSR Technical Sales & Support Team** on: Tel: +44 (0) 1483 226428 Email: technical@ssrlimited.co.uk

There will often be installation applications where a standard anchor is not suitable due to specific high load requirements and concrete dimensional restrictions affecting anchor centres, edge distance and embedment depth. Our **SSR Technical Sales & Support Team** will assist in designing a solution to problems of this nature and propose a suitable anchor for consideration by the project design team.

When considering the load resistance required from an anchor it is important to ensure that all influencing factors are considered. Most of the data available from suppliers is based on anchors subject to a static or quasi-static load only which means that possible sudden impact or vibration loading has probably not been considered. Needless to say failure of critical anchors may result in damage to equipment and at worst be life threatening. The roles for the Manufacturer / Supplier, Designer, Specifier, Contractor, Installer & Tester of bonded anchors are for the first time clearly defined in BS 8539, 'Code of practice for the selection and installation of post installed anchors in concrete and masonry'. Where a drilled in anchor solution is required we recommend this guidance followed accordingly.

The **SSR Technical Sales & Support Team** is supported by the **SSR Limited-B+Btec structural anchor system software** available for use at www.bbtectools.com which provides documented support for many of the products.



Free SAS Calculation Software is now available.

The services of the **SSR Technical Sales & Support Team** is supplied free of charge. We can also offer on-site anchor testing and training support but this will be subject to a charge quoted on a case by case basis.

SSR-100 - APPROVED INSTALLER SCHEME

The **SSR-100** range is intended to be installed by a fully trained and certified installer and our product liability is only relevant if installed by a trained operative in accordance with the installation instructions and requirements of BS8539. The introduction of BS8539 has strengthened the roles and responsibilities surrounding the use of chemical anchors and therefore how liability is applied. BS8539: 2012 seeks to address these risks and ensure that all parties involved in the specification, manufacture, installation and/or testing of post installed drilled anchors have the correct information and training to ensure a successful installation; and SSR Limited have a programme of training to ensure that our customers and Approved Installers have the appropriate training to install the **SSR-100** series range.

The **SSR-100** series installation training program was recently expanded to include a new specific course for the **SSR-128 special lighting column anchor** and there are additional courses available for other high performance safety critical anchors we provide in depth training on a wide range of **SSR-100 anchorage systems** and specific applications. On completion of the training approved installers will be included on a relevant partnering program (where available). This enables them to provide the contractor with a full installation and site testing service designed to reduce contract costs, minimise the number of sub-contractors involved and ensures that the selected anchor has been correctly installed. The Approved Installer certificate is valid for a period two years before a reassessment is required. Please note that the **SSR-128 Anchor** is only available through one of the registered approved installers; please ask the **SSR Technical Sales & Support Team** for details.

SSR-Drilling	SSR-Installing	SSR-Testing	SSR-Application
			
Supply	Diamond Core Drilling	Anchor Installation	Proof Testing
All available from one source using SSR trained operatives providing a beneficial, cost effective solution.			

VIBRATION TESTING OF SSR-B+BTEC-VDP GLASS CAPSULE CHEMICAL ANCHORS

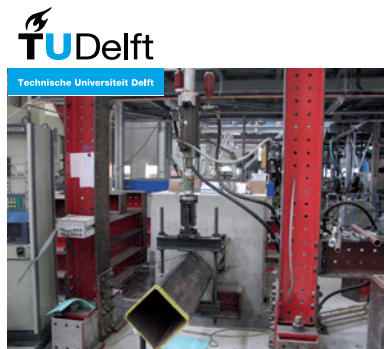
"Tested to 30.2 million load cycles"

SSR Limited together with our Dutch partners **B+Btec** by commissioned a series of tests designed to established the long term resistance of the **SSR-B+Btec-VDP glass capsule chemical anchor system** to an oscillating load pattern. The testing was carried out by the Technical University of Delft in Holland who have considerable experience in this field.

Four M27 x 450mm embedment depth, **SSR-128 anchors** were set at 300mm x 300mm centres in a concrete block. A flange plate of similar dimensions to a standard lighting column was bolted to the sockets and the load applied via a specially designed column attached to the plate.

Testing was discontinued after more than 30.2 million load cycles had been applied to the fixture. On inspection the anchorages displayed no visible signs of distress. Each anchor was then subjected to a standard tensile pull test and in every case there had been no loss of resistance when compared to anchors which had not been subject to this type of load.

This programme was able to demonstrate that the **SSR-128 anchorage** using the tried and trusted **SSR-B+Btec-VDP glass capsule chemical anchor system** is the perfect solution for fixing critical components to concrete where long term secure resistance to vibration loading is essential.



SSR-100-VDI INTERNALLY THREADED CHEMICAL ANCHOR SOCKETS

All **SSR-100-VDI chemical anchor sockets** are manufactured from high performance SSR-550 grade stainless steels and to meet the exacting requirements for high load, corrosion resistant anchors for use on road, rail and marine projects. **SSR Limited** have developed a unique and comprehensive range of internally threaded anchor sockets using this material in combination with the **SSR-VDP glass capsule system**. Standard sizes are available from stock on an overnight delivery service. Special sizes can be produced and supplied to meet the needs of the project from our Aldershot Service Centre and Express Service Manufacturing Facilities.



EXPRESS SERVICE
From Our Manufacturing Facility



Europe's Widest Range

SSR-100-VDI INTERNALLY THREADED CHEMICAL ANCHOR SOCKETS - SSR-550 HIGH YIELD - STAINLESS STEEL

Code	Ref	Size mm	VDP Capsule Ref mm	Drill Ø	Standard Application	Price each
00362-20504	SSR-123	M16 x 25 x 125	SSR VDP 20 x 135	28	PEDESTRIAN PARAPET	POA
00362-20506	SSR-123A	M16 x 25 x 140	SSR VDP 20s x 115	28	SIGNS	POA
00362-20508	SSR-123	M16 x 25 x 150	SSR VDP 20s x 135	28	PEDESTRIAN PARAPET	POA
00362-20509	SSR-123	M16 x 25 x 180	SSR VDP 20 x 175	30	PEDESTRIAN PARAPET	POA
00362-20514	SSR-125	M20 x 30 x 150	SSR VDP 27s x 125	35	SAFETY FENCE	POA
00362-20518	SSR-125	M20 x 30 x 180	SSR VDP 24 x 210	35	SAFETY FENCE	POA
00362-20520	SSR-120	M20 x 30 x 225	SSR VDP 24 x 210	35	PARAPET	POA
00362-20522	SSR-120	M20 x 30 x 250	SSR VDP 24 x 275	35	PARAPET	POA
00362-20523	SSR-120	M20 x 30 x 300	SSR VDP 27 x 210	35	PARAPET OR LIGHTING COLUMN	POA
00362-20538	SSR-120	M20 x 30 x 325	SSR VDP27s x125	35	PARAPET OR LIGHTING COLUMN	POA
00362-20551	SSR-VDI	M24 x 35 x 210	SSR VDP 27 x 135	40	LIGHTING COLUMN OR GENERAL USE	POA
00362-20554	SSR-124	M24 x 40 x 300	SSR VDP 30 x 265	40	LIGHTING COLUMN OR GENERAL USE	POA
00362-20556	SSR-128	M24 x 40 x 400	SSR VDP27s x 125 & VDP 20 x 175	45	LIGHTING COLUMN OR GENERAL USE	POA
00362-20560	SSR-VDI	M27 x 40 x 250	SSR VDP27 x 210	46	GENERAL USE	POA
00362-20562	SSR-VDI	M27 x 40 x 300	SSR VDP30 x 265	45	GENERAL USE	POA
00362-20574	SSR-VDI	M30 x 45 x 280	SSR VDP30 x 265	51	GENERAL USE	POA
00362-20580	SSR-VDI	M30 x 45 x 350	SSR VDP 30 x 265 & VDP 20s x135	51	GENERAL USE	POA
00362-20582	SSR-VDI	M30 x 45 x 450	SSR VDP 30/27 x 210 & VDP 20s x 115	51	GENERAL USE	POA
00362-20586	SSR-VDI	M33 x 45 x 300	SSR VDP 30 x 265	51	GENERAL USE	POA
00362-20590	SSR-VDI	M36 x 50 x 300	SSR VDP 30 x 265 & VDP 27s x 125	56	GENERAL USE	POA
00362-20592	SSR-VDI	M39 x 55 x 390	SSR VDP 30 & VDP 20	61	GENERAL USE	POA
00362-20594	SSR-VDI	M42 x 60 x 420	SSR VDP 30 & VDP 24	66	GENERAL USE	POA

SSR-100-VDI OVER CORE ANCHORS

Code	Ref	Size mm	VDP Capsule Ref mm	Drill Ø	Standard Application	Price each
00367-09622	SSR-130A	M20 x 35 x 250	SSR CM25	40	SAFETY FENCE	POA
00393-09714	SSR-135A	M20 x 40 x 260	SSR VDP 24 x 210 & 27s x 125	45	PARAPET	POA
00393-09715	SSR-135A	M20 x 45 x 260	SSR VDP 30 X 265	51	PARAPET	POA
00393-09725	SSR-135A	M24 x 40 x 260	SSR VDP 24 x 210 & 27s x 125	45	PARAPET	POA
00393-09726	SSR-135A	M24 x 45 x 260	SSR VDP 30 & VDP20 x 175	51	PARAPET	POA
00383-00000	SSR-127	M24/27/30 x 70 x 310	CM25 - GROUT	-	PARAPET OR LIGHTING COLUMN	POA

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SSR-100 SERIES CHEMICAL ANCHORS

SSR-128 LIGHTING COLUMN ANCHORS

Code	Ref	Size mm	VDP Capsule Ref mm	Drill Ø	Price each
00384-09593	SSR-128	M24 x 40 x 450	SSR VDP 30 x 265 & VDP 24 x 210	45	POA
00384-09597	SSR-128	M27 x 40 x 450	SSR VDP 30 x 265 & VDP 24 x 210	45	POA
00384-09601	SSR-128	M30 x 45 x 450	SSR VDP 30 x 265 & VDP 27 x 210	51	POA
00384-09595	SSR-128	M24 x 40 x 500	SSR VDP 30 x 265 & 24 x 210	45	POA
00384-09599	SSR-128	M27 x 40 x 500	SSR VDP 30 x 265 & 24 x 210	45	POA
00384-09602	SSR-128	M24 x 45 x 500	SSR VDP 30 x 265 & 27 x 210	51	POA
00384-09600	SSR-128	M27 x 45 x 500	SSR VDP 30 x 265 & 27 x 210	51	POA
00384-09603	SSR-128	M30 x 45 x 500	SSR VDP 30 x 265 & 27 x 210	51	POA

The **SSR-128 Anchor** is only available through one of the registered approved installers; please ask the **SSR Technical Sales & Support Team** for details.

SSR-100-VDI SERIES OVERCORING ANCHOR SYSTEM

A comprehensive range of bonded anchors are available for use when the replacement of sub-standard fixings is necessary.

Highway Engineers are becoming increasingly aware of the potential problems that can be caused by the presence of sub standard and corroded anchorages in critical applications such as the fitting of vehicle restraint systems, lighting columns etc. This can often be resolved by simply replacing the existing anchor with a fully approved alternative in exactly the same position as the faulty product. Installing in the original place ensures that the loads are still transferred to the same area of reinforced concrete as the initial design required where as drilling in a new position may transfer stresses into areas that were not designed to accommodate them.

The designer also has the option of refitting existing columns or parapet fence posts in the confidence that the holding down system will not fail.



SSR-B+BTec-100 SERIES CHEMICAL BONDING AGENTS

SSR-B+BTec-VDP GLASS CAPSULE CHEMICAL ANCHORS

SSR-B+BTec-VDP Glass Capsule Chemical Anchors contain polyester resin, a hardener and quartz aggregate which when mixed together with the crushed glass in the drill hole produces a high bond strength resin with excellent performance capabilities.

In most applications products using **SSR-VDP** capsules can be tested to an agreed proof load after 60 minutes to ensure that the installation has been carried out to the correct standard. Where the temperature in the concrete is below 0°C at the time of installing however it will be necessary to observe the recommended curing time before testing. This much reduced timescale enables the approved installer to provide the client with an integrated, reliable and cost effective solution.

SSR-B+BTec-VDP Glass Capsules



SSR-CM25 Free Flow Pourable Resin Grout

SSR-CM25 is a two part pourable polyester resin grout ideally suited to anchoring bolts, internally threaded sockets, dowels and starter bars. It is the only grout approved for installing the **SSR-125 & SSR-120 VRS Anchor Systems**. The use of any other grout will render the product liability invalid. It is supplied in 2.5 litre tubs.



SSR-I70 / I75 / I77 CRADLE ANCHORS

The **SSR-170 / 175 / 177 series of cast in cradle anchors** comprises a full range of standard sizes supported by a reliable design capability able to deal with the many applications where a standard product is not suitable. Accurately positioned cast in anchors are often the most secure and cost effective method of providing fixing points in new concrete and the **SSR-170 / 175 / 177 range** from **SSR Limited** is the most comprehensive available in Europe.

All **SSR-170 / 175 / 177 cradle anchors** are manufactured at our facility in Aldershot using high quality materials conforming to the latest British and European standards (see tables 1 to 7).



SSR-170 / 175 / 177 anchors are used in a wide variety of applications including: -

- | **Vehicle restraint systems including safety fences and parapet rails on bridges and similar structures**
- | **Lighting columns**
- | **Pedestrian safety fencing and parapets**
- | **CCTV masts**
- | **Transition connections from precast or in-situ concrete to metal V.R.S. systems**
- | **Environmental barriers**
- | **Standard and passive safety signage**
- | **Rail - Signage and barriers**

SSR-I70 / I75 / I77 CRADLE ANCHORS DESIGNED FOR SPECIAL APPLICATIONS

The performance characteristics of the **SSR-170 / 175 / 177 Cradle Anchors** are calculated to establish reliable load criteria for use by engineers and designers. **SSR Limited** worked in partnership with consulting engineers Aecom Ltd who designed a comprehensive spreadsheet which provides a check mechanism to ensure that the stated load capacity of anchors is accurate and dependable.

Quite often it is necessary to design and manufacture a special anchor unit to meet the requirements of a unique application. **SSR-170 Cradle Anchors** with up to 36 posts have previously been supplied to major projects. Because we combine the expertise of our Technical Sales & Support Team and a first class, quality assured manufacturing facility at our Aldershot Service Centre, we are able to provide prompt solutions to even the most difficult anchoring problems.

Tables 1 – 6 list the primary applications for each of the standard patterns and performance characteristics take account of the standards and specifications relative to each application.

The standard **SSR-170 Cradle Anchors** detailed in Table 1 are designed to suit the base plate dimensions of most VRS Systems manufactured and used on the UK and UK related networks. Socket centers and embedment depths can be varied where non-standard dimensions are necessary as long as the performance characteristics still meet the design load needs of the system.

All **SSR-170 Cradle Anchors** are supplied with a wooden template and self colour steel casting bolts to facilitate site installation.

SSR-I70

SSR-I77



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SSR-I70 / I75 / I77 CRADLE ANCHOR SYSTEMS

Table 1: SSR-I70 Vehicle Restraint Systems

Code	Thread Size	Socket Centres mm		Depth mm	No of Posts
		Traffic Flow	Front to back		
00727-13341	M20	127	203	175	4
00656-21960	M20	150	120	155	4
00727-13348	M20	150	120	175	4
00727-13344	M20	150	210	175	4
00727-13358	M20	150	220	175	4
00727-13352	M20	150	230	175	4
00727-13350	M20	150	265	175	4
00727-13360	M20	180	180	175	4
High Containment Anchors					
00744-13532	M27	350	300	300	4
00744-13550	M27	350	300	450	4
00744-13553	M33	350	300	450	4

Table 2: SSR-I70 Pedestrian Restraint Systems and Environmental Fencing

Code	Thread Size	Socket Centres mm		Depth mm	No of Posts
		Traffic Flow	Front to back		
00725-13300	M12	70	170	150	4
00725-13313	M12	100	200	155	4
00726-13326	M16	130	130	150	4



SSR-ANCHORS FOR LIGHTING COLUMNS, CCTV MASTS, SIGNS AND SIGN GANTRIES

SSR Limited offer the most comprehensive and versatile range for these applications. Anchors to suit most standard lighting columns are available from stock, as are many of the larger patterns required for high masts and gantries. Where a standard anchor is not available the SSR Technical Sales & Support Team can usually provide a design solution to meet the needs of the application.

Table 3: SSR-I70 Lighting Columns, CCTV Masts, Signs and Sign Gantries

Code	Thread Size	Socket Centres mm		Depth mm	No of Posts
		Traffic Flow	Front to back		
00726-13328	M16	150	150	150	4
00727-13363	M20	200	200	195	4
00727-13365	M20	300	300	295	4
00728-13372	M24	200	200	205	4
00728-13376	M24	300	300	296	4
00728-13378	M24	400	400	386	4
00729-13392	M27	300	300	296	4
00729-13394	M27	400	400	396	4
00730-13402	M30	300	300	395	4
00730-13404	M30	400	400	395	4

Code	Thread Size	Socket Centres mm		Depth mm	No of Posts
		Traffic Flow	Front to back		
00731-13414	M33	400	400	400	4
00732-13422	M36	400	400	400	4
00733-13432	M39	300	300	400	4
00733-13433	M39	400	400	400	4
00733-13435	M39	400	400	560	4
00733-13437	M39	500	500	560	4
00733-13439	M39	280	280	560	8
00734-13442	M42	400	400	650	4
00734-13443	M42	500	500	650	4
00734-13444	M42	280	280	560	8



EXPRESS SERVICE
From Our Manufacturing Facility

PRICES FOR THE SSR-I70 / SSR-I70A / SSR-I75 AND SSR-I77 RANGE OF PRODUCTS ARE AVAILABLE UPON APPLICATION

SSR-I70 TERMINATION & TRANSITION ANCHORS

The **SSR-170** range includes a comprehensive range of standard anchors suitable for connections between concrete safety barrier, different steel VRS systems and transmission into permanent vertical concrete safety barrier to provide secure structural connections.

Occasionally a non-standard product will be required which we are able to design and manufacture to suit the specific requirement or application. Final dimensions should be agreed with the project team whereupon our **SSR Technical Sales Support Team** will offer a solution to be approved by the site engineer before manufacture commences.

Where appropriate the **SSR-170A** Design includes a fully welded reinforcing cage as an integral part of the assembly which offers the additional benefits of being; more cost effective, reducing site costs, quality controlled assembly with reinforcement in the factory, simple to install and improved site productivity.

Table 4: SSR-I70 Transition Anchors

Code	Thread Size	No of Posts	Socket Centres mm		Depth mm	Type	Price
			Vertical	Horizontal			
00737-13471	M16	4	370	120	450	V19	POA
00737-13472	M16	6	340	230	450	V56	POA
00737-13473	M16	10	940	150	450	V60	POA

M16 - 12 and 16 post anchors available to order

Table 5: SSR-I70 HA P6 High Containment & High Containment Transition / Termination Anchors

Code	Thread Size	No. Posts	Type mm		Depth mm	Type	Price
00740-13501	M30	6	Type 1	280	430	HCT/01	POA
00740-13502	M30	6	Type 2	230	430	HCT/01	POA
00740-13503	M30	8	-	-	520	HC/02.B	POA
00740-13504	M30	10	Handed	Left Hand	300	HCT/D/02	POA
00740-13505	M30	10	Handed	Right Hand	300	HCT/D/02	POA
00740-13506	M30	12	-	-	300	HCT/C/02	POA

Table 6 SSR-I70A Transition Anchors, Assembled with Reinforcing Cage

Code	Thread Size	No of Posts	Socket Centres mm		Depth mm	Type	Price
			Vertical	Horizontal			
00741-13511	M20	4	265	265	450	Type 1-CSB	POA
00746-13450	M16	4	370	120	450	Type 1	POA
00746-13452	M16	6	340	230	450	Type 2	POA
00746-13454	M16	4	370	120	450	Type 3a	POA
00746-13455	M16	4	370	120	450	Type 3b	POA
00746-13456	M20	4	265	265	450	Type 4a	POA
00746-13457	M20	4	215	215	450	Type 4c	POA
00746-13453	M16	10	940	150	450	Type 5	POA



EXPRESS SERVICE
From Our Manufacturing Facility





SSR-I75 CRADLE ANCHOR SYSTEM

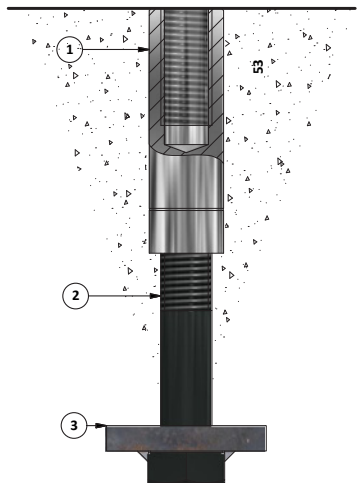
SSR-175 Heavy Duty Cast-In Anchor Sockets

The **SSR-175** cast-in socket is a high performance, single point anchor based on the proven **SSR-170** cradle anchor design. The internally threaded socket component is manufactured from stainless steels to provide maximum resistance to corrosion in high chloride environments. As with the **SSR-170** product, the lower components which are fully enclosed in the concrete are produced from high and medium yield carbon steels.

The **SSR-175** cast-in socket should be used in applications where reliable high performance is required over an extended time period.

Table 7: SSR-I75 Standard Range

Code	Size mm	Price
00228-05714	M10 x 150	POA
00228-05688	M12 x 150	POA
00228-05690	M16 x 150	POA
00228-05691	M20 x 178	POA
00228-05692	M24 x 205	POA
00228-05693	M27 x 250	POA
00228-05694	M30 x 300	POA
00228-05695	M36 x 350	POA
00228-05696	M39 x 375	POA
00228-05697	M42 x 400	POA
00228-05699	M48 x 425	POA

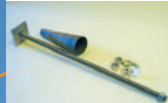


ITEM	DESCRIPTION	MATERIAL SPECIFICATION
1	SSR-100 SERIES CONNECTOR	SSR-550 STAINLESS STEEL GRADE 1.4401/1.4436/ 1.4362 OR 1.4462 TO BS EN 10088: 2005 PART1. AS DETAILED IN SPECIFICATION FOR HIGHWAY WORKS: SERIES 400 VOLUME 1 & 2 (VEHICLE RESTRAINT SYSTEMS)
2	HEXAGON HEAD BOLT	GRADE 8.8 HEX HEAD BOLTS - TO BS EN 4014: 2011 (DIN 931) - PRODUCT CLASS B, MECHANICAL PROPERTIES TO BS EN ISO 898-1: 2013
3	ANCHOR PLATE	STEEL FLAT BAR GRADE S275JR TO BS EN 10025-2: 2004 DIMENSION & TOLERANCE TO BS EN 10058: 2003
-	FIXING BOLTS (recommended)	CLASS A4-80 STAINLESS STEEL TO BS EN ISO 3506-1: 2009


Non-standard sizes for special applications can be produced to order. Our **SSR Technical Sales & Support Team** can assist with the design of anchors and provide solutions to even the most difficult fixing problems.




SSR products in the Spinnaker Tower based on the SSR-I75 heavy duty cast in anchor.




To secure the steel cone at the pinnacle of this impressive structure required 12 specially designed holding down bolt assemblies, M20 thread x 650mm long manufactured from high strength class A4-80 stainless steel.




SSR-I75 single post cast in anchor, M20 and M24 bolt sizes were used to fit the view decks to the main shafts and to the elegant bow sections. The anchors were supplied set in groups of 4 or 6 sockets to ensure accuracy of installation.




Fixing the spacers to the main shaft required a high performance anchor configuration. An 8 post unit, M36 bolt size based on the **SSR-I75** single post cast was designed in cooperation with the project engineers.




A 150 metres high tower crane, was secured using M36 x 350mm **SSR-I75** anchors, set in groups of 4 and 6 to fix the crane stabilising arms to the main shaft.



SSR-CIS-P A4-316 stainless steel cast in sockets were used in a variety of applications. M16, M20 and M24 sizes were factory fitted to reinforcing bar cages in specially designed units of 4, 6 and 8 sockets.



A high performance fixing was needed to fit the fender units. A specially designed version of the **SSR-I60** fender anchor with an M48 thread was manufactured from grade 1.4462 duplex stainless steel.



9.5 tonnes of grade 1.4436 stainless steel reinforcement conforming to BS 6744: 2001 was used in the pre-cast permanent formwork around the base.

EXPRESS SERVICE
From Our Manufacturing Facility

SSR-I70 / SSR-I75 / SSR-I77 A4-80 BOLT AND STUD SETS

SSR-170 bolts and adjustment studs are manufactured from class **A4-80 stainless steel** to the material and performance standards in BS EN ISO 3506: parts 1 and 2. These fasteners may also be supplied manufactured from duplex stainless steels which are to be included in a revised version of the ISO standard to be published shortly. The minimum thread engagement specified in tables 1 to 4 refers to the use of these holding down bolts or studs with an **SSR-170** cradle anchor which is a system and our data is only valid if all components are supplied and manufactured by **SSR Limited**.

SSR-170 bolt sets are assembled from the following components.

- | Hexagon head set screw or set bolt
- | * Galvanised steel standard washer
- | * Nylon top hat isolation washer
- | A4 stainless steel form A pattern washer
- | ** Galvanised steel oversize washer

* These components are used when the fixture is manufactured from galvanised or self colour steel.

** Used in place of the standard washer when erecting lighting columns and other high mast installations.

Table 6 details the standard range of **SSR-170** bolt sets. Some non standard sizes can be supplied to order. Contact our **SSR Technical Sales & Support Team** for guidance. *When fitting aluminium or stainless steel fixtures it is recommended that a shear head bolt is installed at one of the fixing points. The head of the bolt is designed to shear at the appropriate torque setting leaving a reduced head size that cannot be removed by normal methods. These are not available in all thread sizes, the standard range is included in the table.*

Table 8: SSR-I70 Bolt Sets – A4-80 - Standard Range

Code	Bolt Size mm	Nylon top hat washer	A4 stainless steel washer mm	Standard galvanised washer mm	Oversize galvanised washers for lighting column installations to BS EN ISO 7093-1: 2000	Price
00878-18502	M12 x 50	M12	M12 x 24m x 2.5	M14 x 28 x 2.5	---	POA
00878-18504	M16 x 60	M16	M16 x 30 x 3	M18 x 34 x 3	---	POA
00878-18506	M16 x 60	M16	M16 x 30 x 3	M18 x 36 x 6	---	POA
00878-18508	M20 x 65	M20	M20 x 37 x 3	M22 x 50 x 4	---	POA
00878-18510	M20 x 80	M20	M20 x 37 x 3	---	---	POA
00878-18512	M20 x 90	M20	M20 x 37 x 3	M24 x 50 x 4	---	POA
00878-18514	M20 x 100	M20	M20 x 37 x 3	---	M22 x 50 x 4	POA
00878-18516	M20 x 110	M20	M20 x 37 x 3	---	M22 x 66 x 5	POA
00878-18518	M24 x 100	M24	M24 x 44 x 4	M27 x 50 x 4	---	POA
00878-18520	M24 x 120	M24	M24 x 44 x 4	M27 x 50 x 4	M27 x 81 x 6	POA
00878-18522	M27 x 100	M27	M27 x 50 x 4	M30 x 56 x 4	M30 x 90 x 8	POA
00878-18524	M27 x 120	M27	M27 x 50 x 4	M30 x 56 x 4	M30 x 90 x 8	POA
00878-18526	M30 x 80	M30	M30 x 56 x 4	M33 x 60 x 5	---	POA
00878-18528	M30 x 100	M30	M30 x 56 x 4	M33 x 60 x 5	M33 x 99 x 8	POA
00878-18530	M30 x 130	M30	M30 x 56 x 4	M33 x 60 x 5	M36 x 108 x 10	POA
00878-18532	M33 x 130	M33	M33 x 60 x 5	M36 x 66 x 5	M36 x 108 x 10	POA
00878-18534	M33 x 150	M33	M33 x 60 x 5	M36 x 66 x 5	M36 x 108 x 10	POA
00878-18536	M36 x 150	M36	M36 x 66 x 5	M39 x 72 x 6	M39 x 117 x 10	POA
00878-18540	M39 x 150	M39	M39 x 72 x 6	M42 x 78 x 7	M42 x 120 x 10	POA

| Duplex Stainless Steel grade 1.4462/80 available to order



SSR-120 anchor complete with SSR-170 bolt set



SSR-170 bolt set pre-packed

SSR-I70 ADJUSTMENT STUDS

SSR-170 adjustment studs are used instead of bolt sets when the application requires a greater degree of height adjustment than is available with a standard set bolt or set screw, for example when the thickness of grout under the base plate varies considerably. They are also considered for applications where the following conditions apply:

- | The base plate needs to be levelled using a hexagon nut on the underside to lock in position when the level has been correctly set.
- | A projecting stud is permitted in the relevant specification.

Adjustment studs are more likely to be used in lighting column, signage and high mast applications. For most road restraint system installations projecting studs are not permitted and a set bolt or set screw must be used. Our **SSR Technical Sales & Support Team** can advise if the specification is not clear.



Table 9: SSR-I70 Adjustment Studs A4-80 – Standard Range

Code	Stud size mm 1 per set	Class 80 hexagon nut *3 per set	A4 stainless steel washer mm *2 per set	Nylon top hat washer 1 per set	Nylon washer 1 per set	Galvanised washer mm *2 per set	Price
00840-15481	M16 x 140	M16	M16 x 30 x 3	M16	M216	M18 x 34 x 4	POA
00840-15485	M20 x 200	M20	M20 x 37 x 3	M20	M20	M22 x 66 x 5	POA
00840-15495	M24 x 200	M24	M24 x 44 x 4	M24	M24	M27 x 85 x 6	POA
00840-15496	M27 x 250	M27	M27 x 50 x 4	M27	M27	M30 x 92 x 6	POA
00840-15500	M30 x 250	M30	M30 x 56 x 4	M30	M30	M33 x 105 x 6	POA
00840-15502	M33 x 250	M33	M33 x 60 x 5	M33	M33	M36 x 110 x 8	POA
00840-15503	M36 x 250	M36	M36 x 66 x 5	M36	M36	M39 x 117 x 10	POA
00840-15504	M39 x 250	M39	M39 x 72 x 6	**M39	**M39	M42 x 117 x 10	POA
00840-15507	M42 x 250	M42	M42 x 78 x 7	**M42	**M42	M45 x 117 x 10	POA

I Duplex Stainless Steel grade 1.4462/80 available to order

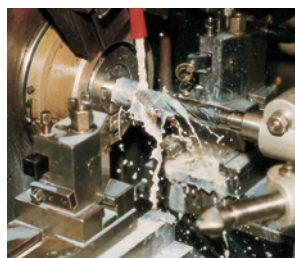
- * An additional nut, stainless steel washer and HDG washer can be supplied to provide additional stability by tightening on to the top of the flush fitting socket in the concrete.
- ** For these sizes a nylon sleeve and additional nylon washer is supplied in place of the top hat washer.

SSR-CIS STAINLESS STEEL CAST-IN SOCKETS

SSR-CIS Cast-in Sockets provide a reliable, flush fitting anchorage point in concrete which is suitable for general fixing as well as for propping and levelling of pre-cast units. **SSR-CIS** sockets are not rated or designated lifting sockets and should not be used for this purpose.

SSR-CIS-P Stainless Steel Bar Turned Cast-In Sockets With Pin

Size mm	A2-304		A4-316	
	Code	Price £/100	Code	Price £/100
M10 x 16 x 40	00218-05491	395.00	---	---
M10 x 16 x 65	00218-05492	420.00	00219-05512	455.00
M12 x 20 x 55	00218-05493	530.00	---	---
M12 x 20 x 75	00218-05494	570.00	00219-05514	624.00
M16 x 22 x 75	00218-05495	740.00	00219-05515	808.00
M20 x 25 x 75	00218-05496	885.00	00219-05516	975.00
M20 x 25 x 90	00218-05497	935.00	00219-05517	1035.00
M24 x 35 x 100	00218-05498	1685.00	00219-05518	1895.00
M30 x 40 x 125	00218-05499	2880.00	00219-05519	3350.00



- | **SSR-CIS-D Cross Drilled Bar Turned Cast-In Sockets Made to Order**
- | **Special Sizes can be produced to order up to M42**
- | **Duplex grades 1.4362 and 1.4462 available to order**
- | **Nailing Plate available**



SSR-B+BTEC -VDP GLASS CAPSULE ANCHOR FOR NON-CRACKED CONCRETE



SSR-B+BTEC -VDP Capsules in Action

1-2-3 - SAFETY

1

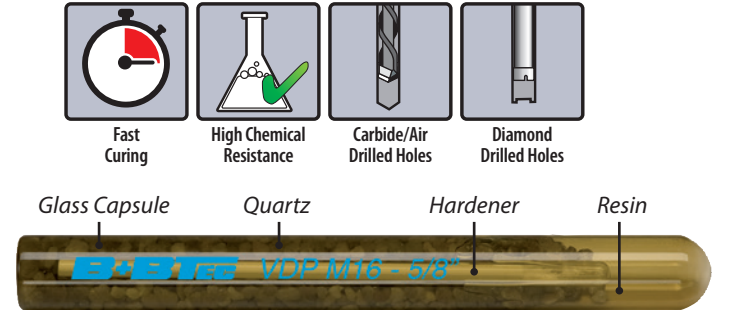
VolumeControl

2

ResinCheck

3

AutoClean



SSR-B+BTEC -VDP Glass Capsule Chemical Anchor

Code	Size mm	Box Qty	Price per 100
00353-09101	VDP8 x 80	10/500	£105.00
00353-09102	VDP10 x 80	10/500	£105.00
00353-09103	VDP12 x 95	10/200	£112.00
00353-09105	VDP16 x 95	10/200	£135.00
00353-09106	VDP20ss x 115	25	£245.00
00353-09107	VDP20s x 135	6/60	£265.00
00353-09108	VDP20 x 175	6/60	£245.00
00353-09109	VDP24 x 210	6/60	£255.00
00353-09110	VDP27s x 125	12	£345.00
00353-09111	VDP27 x 210	6/30	£460.00
00353-09112	VDP30 x 265	6/30	£490.00

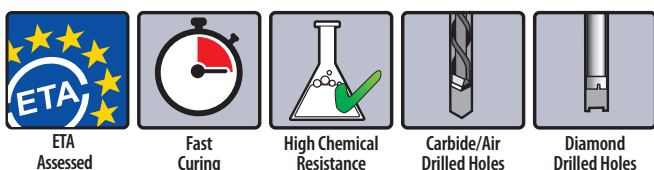
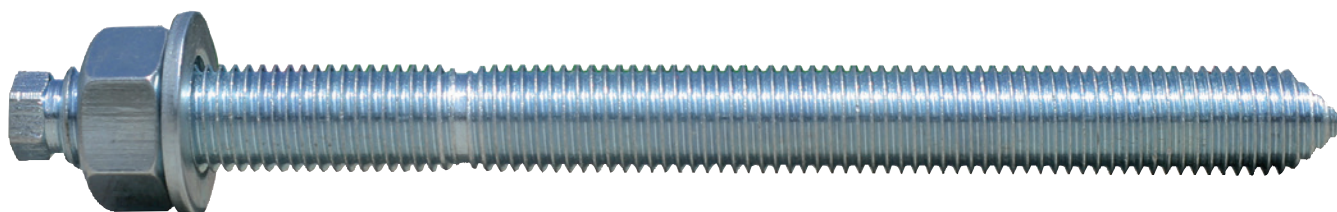
Also available in 1.5t, details on request



SSR-B+BTEC-VDP- Q GLASS CAPSULE ANCHOR WITH ETA APPROVAL OPTION 7 FOR NON-CRACKED CONCRETE



SSR-B+BTEC-VDP-Q QUARTZ Glass Capsules Anchor with ETA Approval Option 7 for Non-Cracked Concrete



Anchor Size	M8	M10	M12	M14	M16	M20	M22	M24	M30
Hole Diameter (mm)	10	12	14	16	18	22	24	26	32
Embedment Depth (mm)	80	90	110	120	125	170	190	210	280
Diameter Fixture Hole (mm)	9	12	14	16	18	22	24	26	33
Fixture Thickness (mm)	15	23	30	39	41	62	69	56	52
Recommended Torque (mm)	10	20	40	60	80	120	135	150	300

- ETA approved Glass Capsule Anchor for Non-Cracked Concrete
- Anchor Holes can be drilled using Rotary Hammers or using Diamond Drilling Rigs
- For Installation in Dry or Wet Holes
- For horizontal, vertical and overhead installation
- Anchor Range: M8 - M30
- Stud specification: Carbon Steel 5.6 and 8.8, Stainless Steel A2, A4 and A4-80
(see page 14 for details)

SSR-B+BTEC-Q Quartz Glass Capsule Anchor

Code	Size mm	Box Qty	Price per 100
00357-09180	M8 X 80	10 / 500	£120.00
00357-09182	M10 X 80	10 / 500	£121.00
00357-09184	M12 X 95	10 / 200	£125.00
00357-09188	M16 X 95	10 / 200	£139.00
00357-09190	M20 X 160	6 / 60	£267.00
00357-09196	M24 X 125	6 / 60	£310.00
00357-09198	M30 X 230	6 / 30	£578.00

Also available in 1.5t, details on request

SSR-**B+BTEC** -HAC HAMMER IN GLASS CAPSULE ANCHOR FOR NON-CRACKED CONCRETE

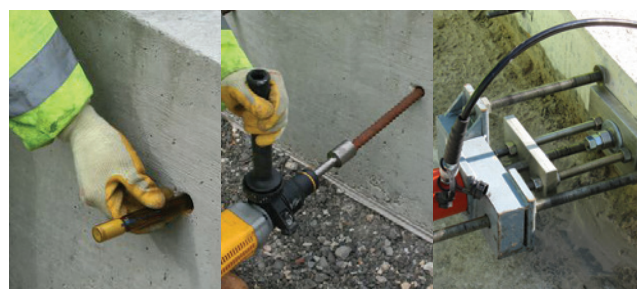
SSR-**B+BTEC** -HAC Starter Bar System

SSR **B+BTEC** HAC Hammer-In capsule anchor - simple to install for use with ribbed dowels or threaded bar



The SSR- **B+BTEC** -HAC Hammer starter bar system offers major cost benefits for dowelling in pavement widening projects.

Specified by Skanska Balfour Beatty M25 Project Ref. 1X and 4A.



The SSR- **B+BTEC** -HAC system benefits over pumped resin are:-

- Precise quality, factory controlled - no site mixing.
- Minimal consideration of environmental issues compared to pump resin
- Simple to install
- Example - 20Ø x 500mm ribbed dowel installed in less than 10 seconds
- Cost effective starter bar system

SSR-**B+BTEC** -HAC Hammer In Capsule Chemical Anchor

Code	Size mm	Box Qty	Price per 100
00354-09121	HAC8 x 80	10 / 500	£108.00
00354-09122	HAC10 x 80	10 / 500	£112.00
00354-09123	HAC12 x 100	10 / 200	£127.00
00354-09125	HAC16 x 125	10 / 200	£158.00
00354-09128	HAC20 x 175	6 / 60	£260.00
00354-09130	HAC24 x 210	6 / 60	£285.00
00354-09132	HAC30 x 265	6 / 30	£520.00

SSR-POLYMERIC COATED STEEL & STAINLESS STEEL DOWELS

SSR Limited offer a full range of S275JR Plain Bar Dowels to BS10025-2: 2004 or B500B Ribbed Bar Dowels to BS4449: 2009, in accordance with to EN13877-3: 2004 coated to Volume 1 – Series 1000, MCDHW – Clause 1011, Dowel Bars with Polymeric coating.

Alternatively a full range of homogeneously corrosion resistant stainless steel ribbed and plain bar dowels are available to BS6744: 2001 +A2: 2009 along with the full range of dowel accessories to suit every application.

A full range now available in both plain and ribbed bar recently supplied to additional contracts on M25 widening and M6 Jn 10 to 13 to meet the Highways England Agency Specification.

Ribbed bars installed with the SSR- **B+BTEC** -HAC system

For details of our Dowel Ranges see page ?



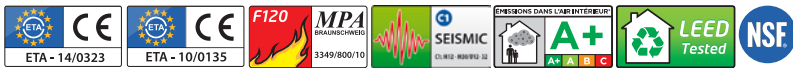
B+BTEC MORTAR INJECTION SYSTEMS



SSR-**B+BTEC**-BIS-V VINYLESTER MORTAR INJECTION SYSTEM



**FOR HIGH LOADS
IN CRACKED AND
UNCRACKED CONCRETE**



	M12 - M30 Ø12 - 32	M8 - M30 Ø8 - 32	M12 - M16 Ø12 - 16	M8 - M16 Ø8 - 16					C1: M12 - M30 Ø12 - Ø32	F120				

SSR-*B+BTEC* - BIS-V Vinylester Cartridges

- ETA Assessed for Rebar Dowels Ø 8-32 mm and Threaded Rods M8 - M30
- For High Loads
- High Chemical Resistance
- Cartridge Type: Coaxial (420 ml)
- Fast Curing
- Good Performance at Low Temperature
- Styrene Free
- Vinylester based injection mortar



SSR-*B+BTEC* - BIS-V Vinylester Cartridges incl. 1 mixer

Code	Ref	Qty/ml	Box Qty	Price each
3.230.420	Coaxial	420	12	£12.05

SSR-**B+BTEC** -BIS-HY HYBRID INJECTION SYSTEM

FOR EXTREME LOADS + FAST CURING IN CRACKED AND UNCRACKED CONCRETE



									F120						
									F120						

SSR-**B+BTEC** - BIS-HY Hybrid Cartridges

- XXX
- XXX
- XXX
- XXX
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- XXX



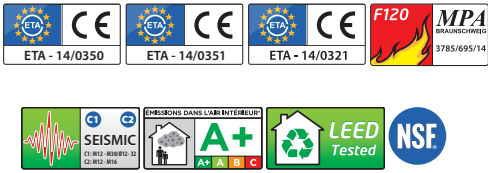
SSR-**B+BTEC** -BIS-HY Hybrid Cartridges

Code	Ref	Qty/ml	Box Qty	Price each

SSR-B+BTEC -BIS-PE PURE EPOXY



	M12-M30 Ø12-32	M8-M30 Ø8-32	M12-M30 Ø12-32	M8-M30 Ø8-32					C1: M12-M30 Ø12-Ø32 C2: M12-M16		F120			
		M10-M24 Ø10-25		M10-M24 Ø10-24							F120			
		Ø8-25									F120			



SSR-B+BTEC - BIS-PE Pure Epoxy Cartridges

- ETA Assessed for Threaded Rods M8 - M30 and Rebar Dowels Ø 8 - 32 mm
- For Carbide & Diamond Drilled Holes
- For Cracked and Uncracked Concrete
- For Flooded Holes
- Fire Test Report
- Seismic Approval C2
- VOC Rating A+
- Leed Tested
- NSF Certificate (Drinking Water)
- Slow Curing



SSR-B+BTEC -BIS-PE Pure-Epoxy Cartridges

Code	Ref	Qty/ml	Box Qty	Price each
3.220.585	3:1 side by side	585	12	£24.35
3.221.400	3:1 side by side	1400	5	£58.10



B+BTEC MORTAR INJECTION SYSTEMS



BIS-COMPARISON

BIS-HY HYBRID	BIS-PE PURE EPOXY	BIS-V VINYLESTER
---------------	-------------------	------------------

Load Performance	Extreme Loads	Ultra High Loads	High Loads
ETA Option 1	ETA 16/0958	ETA 14/0351	ETA 14/0323
ETA Option 7	-	ETA 14/0350 (DD)	-
ETA Post-Installed Rebar	ETA 16/0962	ETA 14/0321	ETA 10/0135
ETA Masonry/Hollow Brick	--	-	-
Seismic Action C1	M8 - M30/Ø8 - Ø32	M12 - M30 /Ø12 - Ø32	M12 -M30/Ø12 -Ø32
Seismic Action C2	M12	M12 - M16	-
Fire Rating	F120	F120/F240	F120
VOC Rating	A+	A+	A+
LEED Tested	yes	yes	yes
Potable Water Approved	yes	yes	yes
B+BTEC DesignFix® Support	yes	yes	yes
Cartridges	420 ml/ 825 ml	585 ml/ 1400 ml	300 ml/ 420 ml
For the installation:			
of threaded Rods	■	■	■
of rebar dowels	■	■	■
in hammer/air drilled holes (HD)	■	■	■
in diamond drilled holes (DD)	--	■	--
in dry/wet holes	■	■	■
in Flooded holes	■	■	■
in non-cracked concrete	■	■	■
in cracked concrete	■	■	■
in solid/hollow brick	--	--	■
overhead	■	■	■
Curing Time at +20°C (dry holes)	30 min	10 hr	45 min



NEW ANCHOR DESIGN SOFTWARE

B+BTEC offers brand new Anchor Calculation Software in support of their Anchoring Systems. B+BTEC DesignFIX® is available as a **free download from bbtectoools.com**

SSR-B+BTEC ACCESSORIES



Mixing Nozzles and Extensions

Code	Size	Box Qty	Price per 100
3.200.003	Mixing Nozzle 14 for BIS-P and BIS-V	100	£84.00
3.200.004	Mixing Nozzle 18 for BIS-PE plus 200mm Extension	100	£150.00
3.200.005	Nozzle Extension 200mm	100	£37.50
3.200.006	Nozzle Extension 1000mm	100	£132.50



Extension Rod M6

For the use with adapter SDS+ and brushes

Code	Size	Box Qty	Price each
3.820.002	Extension Rod M6 185mm length	1	£9.13



Steel Brushes For Threaded Rods

For the cleaning of anchor holes. Length 175mm

Code	Size mm	Rod Size	Box Qty	Price each
3.820.012	Steel Brush Ø12	M8	1	£11.48
3.820.014	Steel Brush Ø14	M10	1	£11.48
3.820.016	Steel Brush Ø16	M12	1	£12.55
3.820.018	Steel Brush Ø18	M14	1	£13.20
3.820.020	Steel Brush Ø20	M16	1	£13.70
3.820.027	Steel Brush Ø27	M20	1	£16.00
3.820.030	Steel Brush Ø30	M24	1	£17.25
3.820.034	Steel Brush Ø34	M27	1	£18.25
3.820.037	Steel Brush Ø37	M30	1	£19.50



Piston Plugs

Code	Size	Box Qty	Price per 100
3.810.242	Piston Plug # 24 Rebar Ø20mm	10	£88.50
3.810.282	Piston Plug # 28 Threaded Rods M24	10	£93.00
3.810.322	Piston Plug # 32 Rebar Ø25mm	100	£98.50
3.810.352	Piston Plug # 35 Rebar Ø28mm	100	£103.00
3.810.382	Piston Plug # 38 Rebar Ø32mm	100	£108.00



Blow Plugs

Code	Size	Box Qty	Price each
3.805.000	Blow Pump	1	£28.65



Adapter SDS+

With internal threading M6

Code	Size	Box Qty	Price each
3.820.001	Adapter SDS+ 110mm length	1	£7.43

Steel Brushes For Rebar Dowels

For the cleaning of anchor holes. Length 175mm

Code	Size mm	Dowel Size mm	Box Qty	Price per 100
3.820.014	Steel Brush Ø14	Ø 8	1	£11.48
3.820.016	Steel Brush Ø16	Ø 10	1	£12.55
3.820.018	Steel Brush Ø18	Ø 12	1	£13.20
3.820.020	Steel Brush Ø20	Ø 14	1	£13.70
3.820.024	Steel Brush Ø24	Ø 16	1	£14.85
3.820.027	Steel Brush Ø27	Ø 20	1	£16.00
3.820.030	Steel Brush Ø30	Ø 22	1	£17.25
3.820.034	Steel Brush Ø34	Ø 25	1	£18.25
3.820.037	Steel Brush Ø37	Ø 28 - 32	1	£19.50

Accessories for the SSR-B+BTEC -Chemical Range See Pages ?

SSR-B+BTEC ACCESSORIES

Caulking Gun for 300ml Foil in Tube Cartridges

Code	Size	Box Qty	Price
3.200.301	C300-Standard	1	£11.50



C300-STANDARD | Manual Caulking Gun for 300 ml Cartridges. | Trigger ratio 18:1 | Strong epoxy coated steel frame. | Zinc coated corrosion resistant sliding components.

Caulking Guns for 410/420ml Coaxial Cartridges

Code	Size	Box Qty	Price
3.200.410	C410-Standard	1	£86.15
3.200.411	C410-Premium	1	£135.00
3.200.412	C410-Pneumatic	1	£636.00



3.200.410

C410-STANDARD | Manual Caulking Gun for 410 ml Cartridges. | Trigger Ratio 25:1 | Welded steel, epoxy coated frame. | Zinc coated corrosion resistant sliding components.



3.200.411

C410-PREMIUM | Manual Caulking Gun for 410 ml Cartridges. | High gearing ratio. | Fully molded reinforced nylon. | One hand break release. | Antidrip.



3.200.412

C410-PNEUMATIC | Pneumatic Caulking Gun for 410 ml Cartridges. | 2,20 kN thrust at 6,8 bar operating pressure.

Caulking Guns for 585ml Side by Side Cartridges - 3.1

Code	Size	Box Qty	Price
3.200.402	585ml Standard - Manual	1	£67.50
3.200.403	585ml Premium - Manual	1	£212.00
3.200.600	585ml P600-Pneumatic	1	£843.00
3.200.601	1400ml P600-Pneumatic	1	£1753.00



3.200.403



3.200.601

600-Pneumatic Caulking Gun for 600 ml Side by Side Cartridges. | One hand Pressure Adjustment | Air Operated Return of Rod | Quick reloading | Antidrip | Metal Cartridge holder | Aluminum Air Cylinder | Reinforced Nylon Handle.

600-PREMIUM Manual Caulking Gun for 600 ml Side by Side Cartridges. | High gearing ratio. | Fully molded reinforced nylon. | One hand break release. | Antidrip.

SSR-SAS TEST EQUIPMENT

SSR-105 Heavy Duty Test Rig

Code	Reference	Price each
00954-19002	SSR-105 Anchor Test rig 150 Kn capacity	POA
00954-19006	SSR-105 Anchor Test rig 350 Kn capacity	POA



SSR-B+BTEC - Tripod Test Rig

Code	Reference	Capacity Kn	Price each
3.900.009	TC12	121Kn	POA
3.900.011	TC20	215Kn	POA
3.900.013	TC30	326Kn	POA
3.900.015	TC60	576Kn	POA



| For Approved Installers details see page ?

SSR-B+BTEC -CA50 CHEMICAL ANCHOR STUDS

SSR-B+BTEC -CA50 Hexagon Drive Zinc Plated with Nut and Washer Grade 5.6

Code	Ø / FT / Length mm	Box Qty	Price/ 100
00419-10051	M8 / 25 / 110	10	£34.70
00419-10053	M10 / 25 / 130	10	£56.60
00419-10055	M12 / 30 / 160	10	£87.55
00419-10059	M16 / 40 / 190	10	£167.50
00419-10063	M20 / 55 / 260	6	£331.00
00419-10067	M24 / 65 / 300	6	£698.00



SSR-CA50

With hex connection, incl. nut, washer and setting tool

SSR-B+BTEC -CA50 Hexagon Drive Hot Dipped Galvanised with Nut and Washer Grade 5.6

Code	Ø / FT / Length mm	Box Qty	Price/100
00412-09901	M10 / 25 / 130	10	£61.50
00412-09902	M12 / 30 / 160	10	£97.00
00412-09904	M16 / 40 / 190	10	£182.00
00412-09906	M20 / 55 / 260	6	£365.00
00412-09908	M24 / 65 / 300	6	£550.00

SSR-CA55 CHEMICAL ANCHOR STUDS

SSR-CA55 Grade 8.8 Hot Dipped Galvanised with Nut and Washer

Code	Ø / FT / Length mm	Box Qty	Price/100
00418-10033	M12 / 30 / 160	10	£244.00
00418-10035	M16 / 40 / 190	10	£316.50
00418-10040	M20 / 35 / 240	6 OR 50	£455.00
00418-10041	M20 / 55 / 260	6 OR 50	£475.00
00418-10042	M24 / 35 / 270	BULK	£752.00
00418-10043	M24 / 65 / 300	BULK	£785.00
00418-10045	M30 / 70 / 380	BULK	£1,675.00
00418-10047	M36 / 40 / 450	BULK	£3,240.00
00418-10049	M39 / 44 / 580	BULK	£3,990.00
00418-10050	M42 / 44 / 610	BULK	£6,435.00



SSR-CA55

Without hex connection, incl. nut and washer



SSR-CA55 Plain Head A4-316 Stainless Steel with Nut and Washer

Code	Ø / FT / Length mm	Box Qty	Price/100
00423-10141	M8 / 25 / 110	10	£235.00
00423-10142	M10 / 25 / 130	10	£250.00
00423-10144	M12 / 30 / 160	10	£310.00
00423-10147	M16 / 40 / 190	10	£518.00
00423-10154	M20 / 55 / 260	6	£795.00
00423-10157	M24 / 65 / 300	6	£1,248.00

SSR-CA55 Plain Head A2-304 Stainless Steel with Nut and Washer

Code	Ø / FT / Length mm	Box Qty	Price/100
00421-10092	M10 / 25 / 130	10	£212.00
00421-10094	M12 / 30 / 160	10	£272.00
00421-10098	M16 / 40 / 190	10	£405.00
00421-10102	M20 / 55 / 260	6	£727.00
00421-10103	M24 / 65 / 300	6	£1,040.00
00423-10157	M30 / 70 / 380	6	£1,525.00

SSR-CA55 Plain Head A4-80 Stainless Steel with Nut and Washer

Code	Ø / FT / Length mm	Box Qty	Price/100
00425-10191	M12 / 30 / 160	10	£375.00
00425-10194	M16 / 40 / 190	10	£567.00
00425-10197	M20 / 15 / 220	10	£785.00
00425-10198	M20 / 35 / 240	10	£825.00
00425-10199	M20 / 55 / 260	6	£874.00
00425-10202	M24 / 65 / 300	6	£1,365.00
00425-10203	M27 / 60 / 340	BULK	£2,712.00
00425-10204	M30 / 70 / 380	BULK	£6,050.00
00425-10205	M33 / 36 / 430	BULK	£8550.00
00425-10206	M36 / 40 / 450	BULK	£9,730.00
00425-10207	M39 / 44 / 580	BULK	POA

SSR-CA60 HIGH YIELD RE-BAR STUDS

SSR produce Re-bar studs in both Steel & Stainless Steel.

Size Range Ø M16, M20, M24, M27, M30, M33, M39

Bar Sizes – 16, 20, 25, 32, 40 Ø

Material – Steel B500B and Stainless Steel 1.4362/500

45° - End for use with SSR-VDP Capsule, CM25 grout

90° - End for use with SSR-HaC Hammer-in Glass Chemical Capsule



SSR-VDI INTERNALLY THREADED CHEMICAL ANCHOR SOCKETS

SSR have available a unique range of high load bearing, chemically bonded anchor sockets designed to provide safe solutions in structural anchoring applications. The system consists of an internally threaded socket component for flush mounting which is bonded into the concrete using either a **SSR-B + BTec-VDP glass capsule chemical anchor** of appropriate size or **SSR-CM25 pourable resin grout**.

SSR-VDI Internally Threaded Zinc Plated Chemical Anchor Sockets



Code	Ø / FT / Length mm	Box Qty	Price/100
00359-09200	M8 X 12 X 90	10	£70.40
00359-09202	M10 X 16 X 90	10	£101.00
00359-09204	M12 X 20 X 90	10	£146.00
00359-09206	M16 X 25 X 125	10	£282.00
00359-09209	M20 X 30 X 180	6	£695.00
00359-09212	M24 X35 X 210	6	£1,395.00
00359-09215	M30 X 45 X 280	6	£2,925.00

SSR-VDI Internally Threaded Grade A2-304 Chemical Anchor Sockets

Code	Ø / FT / Length mm	Box Qty	Price/100
00360-09221	M10 X 16 X 90	10	£620.00
00360-09223	M12 X 20 X 90	10	£800.00
00360-09225	M16 X 25 X 125	10	£1395.00

SSR-VDI Internally Threaded Grade A4-316 Chemical Anchor Sockets

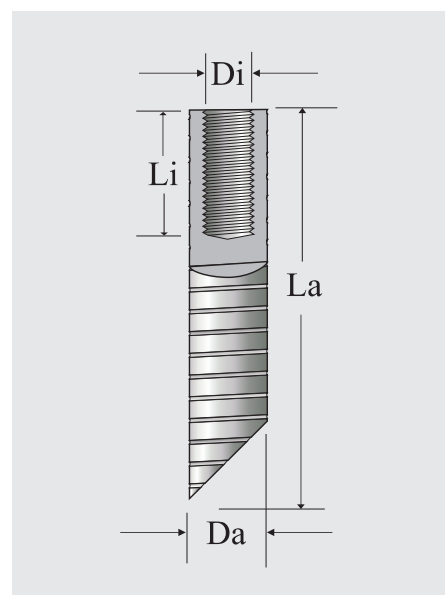
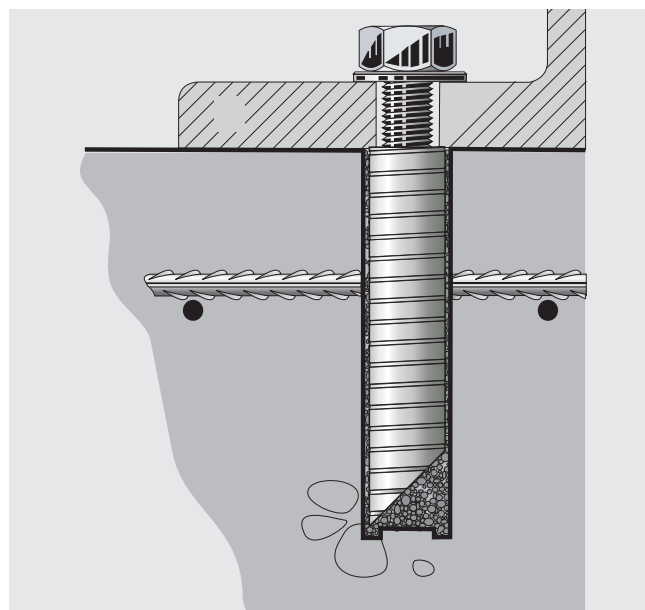
Code	Ø / FT / Length mm	Box Qty	Price/100
00361-09241	M8 X 12 X 90	10	£450.00
00361-09243	M10 X 16 X 90	10	£675.00
00361-09245	M12 X 20 X 90	10	£955.00
00361-09247	M16 X 25 X 125	10	£1,825.00
00361-09250	M20 X 30 X 180	6	£3,405.00

See page 24 Sizes to M42

SSR-VDI Dimensions - Standard Range

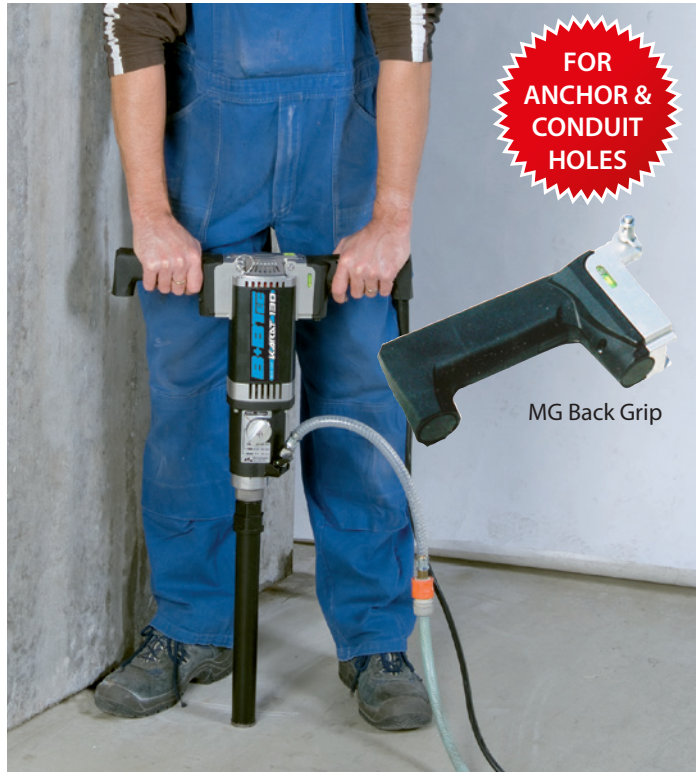
Product Dimensions				SSR-B+BTEC-VDP capsules	Installation Dimensions	
Thread size Di (mm)	Ø Da (mm)	Length La	Thread Depth Li (mm)	Type(s) required	Hole Ø D (mm)	Hole Depth t (mm)
M8	12	90	30	1 x VDP12	15	90
M10	16	90	35	1 x VDP16	18	90
M12	20	90	40	1 x VDP16	22	90
M16	25	125	40	1 x VDP20 x 135	28	125
M20	30	150	60	1 x VDP27s x 125	35	150
M20	30	180	60	1 x VDP24	35	180
M24	35	210	70	1 x VDP27 x 210	40	210
M27	40	250	80	1 x VDP30	45	250
M30	45	280	90	1 x VDP30	50	280
M33	45	300	95	1 x VDP30	50	300
M36	50	330	100	2 x VDP20 2 x VDP24	56	330
M39	55	390	100	1 x VDP30 1 x VDP20	61	390
M42	60	420	120	1 x VDP30 1 x VDP24	66	420

See page ? for setting tools



SSR-B+BTEC CONCRETE CORING DRILLS

SSR-B+BTEC - Karat 130 BG Back Grip & MG Mid Grip hand core unit



SSR-B+BTEC - Karat 130 BG Back Grip & MG Mid Grip hand core unit

Code	Description	Price
2.000.140	Karat 130 BG - 115v - 50/60 Hz - 1-1/4" - 1/2" combi spindle	£1,482.21
2.000.123	Karat 130 MG - 115v - 50/60 Hz - 1-1/4" - 1/2" combi spindle	£1,482.21

Code	Description	Price
2.000.132	Second Back Grip for Karat 130 bg	£131.51
2.000.134	Dry drilling kit 1-1/4" spindle for Karat 130	£193.80

SSR-B+BTEC - Karat 164 complete with choice of stands



SSR-B+BTEC - Karat 164 complete, Including compact drill stand

Code	Description	Price
2.000.170	Karat 164 - 115 v - 50/60 Hz - 1-1/4" - 1/2" spindle	£2,835.88

SSR-B+BTEC - Karat 164 complete, Including large drill stand & wheels

Code	Description	Price
2.165.000	Karat 164 - 115 v - 50/60 Hz - 1-1/4" - 1/2" spindle	£3,038.58

SSR-B+BTEC ACCESSORIES



SSR-B+BTEC - Karat - Drill Stand

Code	Description	Price
2.000.129	Drill stand compact without slide	£684.25
2.000.131	Drill stand compact inc. Karat 130	£1,012.53
2.000.304	Drill stand large without slide inc. wheels	£886.95
2.000.128	Drill stand large inc. slide Karat 130	£1,215.24
2.000.312	Drill stand large extra long column - 1000 mm depth	£1,226.11
2.000.317	Drill stand large extra long column - 1400 mm depth	£1,478.26
2.000.138	Karat 130 slide	£328.28
2.000.174	Karat 164 motor / gearbox / slide comp. - 115v/50-60Hz 1-1/4"-1/2"	£2,151.63



SSR-B+BTEC - Karat - Machine Fixation

Code	Description	Price
2.100.022	Vacuum pump - 115v - 50/6 Hz	£938.37
2.100.009	Anchoring assembly / centre pin	£20.76
2.164.009	Vacuum kit for compact drill stand - block - valves & rub.	£123.60
2.250.011	Vacuum kit for large drill stand - block - valves & rub.	£193.80
2.100.008	Ceiling jack 1.7 - 3 metre telescopic	£384.64
6.250.002	Jack screw (for installation on top of drill stand column)	£110.75



SSR-B+BTEC - Karat - Elongation Rods

Code	Description mm	Price
2.100.017	Elongation 150 gt	£58.34
2.100.018	Elongation 300 gt	£65.26
2.100.019	Elongation 200 1/2" - BSP	£29.66
2.100.039	Elongation 300 1/2" - BSP	£34.61
2.100.038	Elongation 500 1/2" - BSP	£68.23
2.100.010	Elongation 300 1-1/4" - UNC	£65.26
2.100.011	Elongation 500 1-1/4" - UNC	£74.16
2.100.032	Elongation 1000 1-1/4" - UNC	£157.22



SSR-B+BTEC - Karat - Water Manage-

Code	Description	Price
2.100.020	Water collector Karat 130 & 164 for bit dia 50-131 mm	£232.37
2.100.021	Water collector Karat 130 & 164 for bit dia 10-66 mm	£217.54
2.100.027	Water collector Karat 300 for bit dia 50-131 mm	£241.24
2.100.028	Water collector Karat 300 for bit dia 120-270 mm	£266.98
6.506.031	Rubber cover for dia 10-66 mm - Karat 130/164	£8.01
6.506.030	Rubber cover for dia 50-131 mm - Karat 130/164/300	£9.05
6.506.035	Rubber cover for dia 120-270 mm - Karat 300	£33.37
2.100.047	Cobra vacuum water collector	£100.86
2.100.052	Stainless steel slurry collector wide 70 cm	£325.32
2.100.053	Stainless steel slurry collector wide 35 cm	£260.05
2.100.056	Stainless steel collector max. opening 200 mm dia	£289.72
2.000.313	Water flow indicator (hose & connections)	£60.32

SSR-B+BTEC - Karat - Adaptor - Machine Spindle - Drill Bit

Code	Description	Price
6.006.130	GT female - 1/2" female	£32.63
6.006.116	B+B GT female - 1-1/4" male - 1/2" female	£82.07
6.006.102	1-1/4" female - 1/2" female	£26.70
6.006.105	1/2" male - GT male	£31.64
6.006.122	Dd-bi male - 1-1/4" - 1/2" female	£80.09
6.006.129	Dd-bi male - GT male	£68.23
6.006.104	Dd-bu male - 1-1/4" male - 1/2" female	£100.86
6.006.126	Dd-bu male - GT male	£86.03
6.006.120	1-1/4" female - 6 bolt dv (for large diameter bits)	£181.94
6.006.112	1/2" male - 1-1/4" male	£31.64
6.006.113	Adaptor gölz - 1-1/4" male	£86.03

SSR-B+BTEC - Karat - Handling

Code	Description	Price
2.100.054	3 spoke sliding handle inclusive 100mm core bit elongation	£238.30

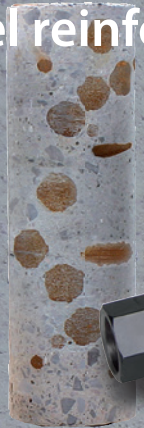
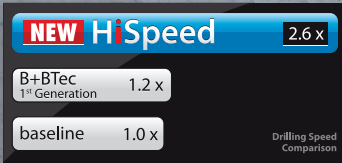
SSR-B+BTEC - Safety & Trouble Shooting

Code	Description	Price
2.100.055	Core bit rescue tool for loosening of stuck bits - 500mm	£96.90
2.100.051	Core collector and foot inc. wheels (to be used with 2.100.008)	£290.71

SSR-B+BTEC DIAMOND CROWN BITS - HIGH SPEED 1/2" - BSP

50% FASTER x 50% SAVING ON COST

The ULTIMATE for drilling hard concrete and steel reinforcement



**TWICE THE HOLES,
HALF THE TIME**

SINTEC



Hi SPEED diamond Crown Bits for Wet Use

Threading: 1/2".
Diamond Height: 9 mm.



SSR-B+BTEC Diamond Crown Bits - High Speed 1/2" - BSP

Code	Size mm	Price
2.561.015	10x150	£49.24
2.561.215	12x150	£51.02
2.561.420	14x200	£51.62
2.561.520	15x200	£52.21
2.561.620	16x200	£53.40
2.561.820	18x200	£54.58
2.562.030	20x300	£60.51
2.562.230	22x300	£61.70
2.562.430	24x300	£62.29
2.562.530	25x300	£63.48
2.562.630	26x300	£64.67
2.562.830	28x300	£65.85
2.562.830-500	28x500	£81.10
2.563.030	30x300	£67.63
2.563.230	32x300	£70.01
2.563.230-400	32x400	£80.10
2.563.330	33x300	£71.19
2.563.530	35x300	£72.97
2.563.530-400	35x400	£78.02
2.563.530-500	35x500	£89.50

Code	Size mm	Price
2.563.530-600	35x600	£100.80
2.563.830	38X300	£76.53
2.564.030	40x300	£79.50
2.564.030-400	40x400	£89.50
2.564.230	42x300	£85.43
2.564.330	43x300	£86.03
2.564.530	45x300	£87.81
2.565.030	50x300	£90.18
2.565.430	54x300	£90.77
2.566.030	60x300	£96.70
2.566.830	68x300	£103.23
2.567.030	70x300	£110.94
2.568.030	80x300	£122.81
2.569.030	90x300	£145.35
2.561.003	100x300	£151.29
2.561.043	104x300	£161.37
2.561.103	110x300	£172.05
NA	LENGTH EXT - PER 100mm	£18.68



SSR-B+BTEC DIAMOND SEGMENTED BITS - HIGH SPEED 1 1/4" - UNC

SSR-B+BTEC Diamond Segmented Bits - High Speed 1 1/4" - UNC

Code	Size mm	Price
1.904.140	41 x 400	£83.65
1.904.640	46 x 400	£84.25
1.905.140	51 x 400	£84.84
1.905.140.600	51 x 600	£97.30
1.905.640	56 x 400	£86.03
1.906.140	61 x 400	£96.70
1.906.640	66 x 400	£105.60
1.907.140	71 x 400	£109.76
1.907.640	76 x 400	£114.50
1.908.140	81 x 400	£128.15
1.908.640	86 x 400	£134.08
1.909.140	91 x 400	£142.39
1.910.140	101 x 400	£150.69
1.910.640	106 x 400	£156.63
1.911.240	112 x 400	£159.59
1.912.240	122 x 400	£170.86
1.912.740	127 x 400	£175.02
1.913.240	132 x 400	£182.14
1.914.040	140 x 400	£188.07
1.915.240	152 x 400	£196.97
1.915.640	156 x 400	£206.46
1.916.040	160 x 400	£214.17

Code	Size mm	Price
1.916.440	164 x 400	£222.48
1.917.140	171 x 400	£252.14
1.918.140	181 x 400	£288.93
1.920.040	200 x 400	£304.35
1.921.840	218 x 400	£333.42
1.923.040	230 x 400	£358.93
1.925.040	250 x 400	£370.80
1.927.040	270 x 400	£393.34
1.930.040	300 x 400	£444.37
1.932.040	320 x 400	£487.68
1.935.040	350 x 400	£533.95
1.940.050	400 x 500	£695.32
1.950.050	500 x 500mm - 11/4" OR 6 BOLT DV	£828.81
1.960.050	600 x 500mm - 6 BOLT DV	£1,046.55
1.970.050	700 x 500mm - 6 BOLT DV	£1,241.14
1.980.050	800 x 500mm - 6 BOLT DV	£1,449.38
NA	Length Extension - up to 190 mm - per 100 mm	£46.14
NA	Length Extension - 190 mm to 350 mm - per 100 mm	£90.09



Hi SPEED Segmented Diamond Bits for Wet Use.

Threading: 1 1/4"
Diamond Height: 10 mm.

Larger Diameters up to Ø1200 mm available upon request.

SSR-B+BTEC SDS MAX

SSR-B+BTEC-SDS Max ZENTRO Rotary Hammer Drill Bit 4 Cutting Edges

Code	Ø / Fixture Thickness / Length mm	Qty	Price £
1761234	12 x 340 x 200	1	25.50
1761254	12 x 540 x 400	1	32.10
1761269	12 x 690 x 550	1	42.00
1761434	14 x 340 x 200	1	32.00
1761454	14 x 540 x 400	1	36.50
1761534	15 x 340 x 200	1	33.50
1761554	15 x 540 x 400	1	37.00
1761634	16 x 340 x 200	1	36.85
1761654	16 x 540 x 400	1	43.50
1761834	18 x 340 x 200	1	31.00
1761854	18 x 540 x 400	1	35.00
1762032	20 x 320 x 200	1	42.75
1762052	20 x 520 x 400	1	46.50
1762092	20 x 920 x 800	1	62.50
1762232	22 x 320 x 200	1	45.00
1762252	22 x 520 x 400	1	46.50
1762292	22 x 920 x 800	1	72.70
1762432	24 x 320 x 200	1	46.00
1762452	24 x 520 x 400	1	53.00
1762532	25 x 320 x 200	1	50.50
1762552	25 x 520 x 400	1	53.50

Code	Ø / Fixture Thickness / Length mm	Qty	Price £
1762592	25 x 920 x 800	1	85.00
1762652	26 x 520 x 400	1	59.00
1762837	28 x 370 x 250	1	58.00
1762857	28 x 570 x 450	1	63.50
1762867	28 x 670 x 550	1	75.50
1763037	30 x 370 x 250	1	59.50
1763057	30 x 570 x 450	1	65.50
1763237	32 x 370 x 250	1	62.50
1763257	32 x 570 x 450	1	70.80
1763292	32 x 920 x 800	1	110.00
1763537	35 x 370 x 250	1	65.50
1763557	35 x 570 x 450	1	77.50
1763567	35 x 670 x 550	1	92.00
1763837	38 x 370 x 250	1	76.50
1763857	38 x 570 x 450	1	95.50
1764037	40 x 370 x 250	1	93.50
1764057	40 x 570 x 450	1	109.50
1764092	40 x 920 x 800	1	165.00
1764557	45 x 570 x 450	1	175.00
1765257	52 x 570 x 450	1	198.00



SSR-SAS SETTING TOOLS



SSR-CA55 Percussion Shank Setting Tool

Code	Product Ref	Box Qty	£ each
00430-10251	M8	1	£11.30
00430-10252	M10	1	£11.30
00430-10253	M12	1	£11.30
00430-10254	M16	1	£12.60
00430-10255	M20	1	£20.80
00430-10256	M24	1	£25.00
00430-10258	M30	1	£55.00



SSR-VDI Heavy Duty Setting Tool To Fit SDS-Max Drills, For VDI Chemical Sockets

Code	Product Ref	Box Qty	£ each
00441-10361	30mm A/F	1	£48.00
00441-10362	36mm A/F	1	£48.00
00441-10363	41mm A/F	1	£55.00



SSR-CA55 Quick Release Setting Tool

Code	Product Ref	Box Qty	£ each
00429-10241	M8	1	£63.00
00429-10242	M10	1	£70.00
00429-10243	M12	1	£73.00
00429-10245	M16	1	£90.00
00429-10247	M20	1	£166.00



SSR-VDI Hex Drive Unit, C/W Nut & Washer

Code	Product Ref	Box Qty	£ each
00437-10323	30mm AF x M16	1	£15.00
00437-10324	30mm AF x M20	1	£15.00
00437-10325	30mm AF x M24	1	£15.50
00437-10329	36mm AF x M24	1	£19.80
00437-10330	36mm AF x M27	1	£20.50
00437-10331	36mm AF x M30	1	£21.00
00437-10332	41mm AF x M30	1	£25.80
00437-10333	41mm AF x M33	1	£26.50
00437-10334	41mm AF x M36	1	£27.00
00437-10335	41mm AF x M39	1	£28.50
00437-10336	41mm AF x M42	1	£30.00



SSR-HAC Setting Tool

Code	Product Ref	Bar Size	Box Qty	£ each
00438-10340	M8-14 (STUD)	12	1	£63.00
00438-10341	M16-20 (STUD)	16	1	£68.00
00438-10342	M22-30 (STUD)	20/25	1	£78.00
00438-10343	M32-36 (STUD)	32	1	£88.00



SSR-VDI Heavy Duty Setting Tool

SSR-SAS POURABLE AND CEMENTITIOUS GROUTS

SSR-CM25 Free Flow Pourable Resin Grout



Code	Product Ref	Tube Qty	£ each
00347-09042	2.5 Litre Tub	1	£28.00

SSR-CM30 High Strength Non Shrink Cementitious Resin Grout



Code	Product Ref	Bag Qty	£ each
00350-09070	20 Kg	1	£10.85

SSR-STAINLESS STEEL DOWELS - STANDARD SIZE RANGE

Size - mm	1.4301 / Grade 200	1.4362 / Grade 500	1.4462 / Grade 500	Price
12 Ø x 500		---	---	POA
12 Ø x 600		---	---	POA
16 Ø x 500				POA
16 Ø x 600				POA
16 Ø x 800				POA
20 Ø x 500				POA
20 Ø x 600				POA
20 Ø x 800				POA
25 Ø x 500				POA
25 Ø x 600				POA
25 Ø x 800				POA



* Special sizes ex.works 2-3 days.

SSR-STEEL DOWELS POLYMERIC COATED

Plain Steel Bar S275JR to BS10025-2:2004 Fully Polymeric Coated

Code	Size mm	Price/100
00048-01140	16ø x 400	POA
00048-01141	20ø x 400	POA
00048-01142	20ø x 500	POA
00048-01143	20ø x 600	POA
00048-01145	25ø x 600	POA
00048-01148	32ø x 600	POA

Ribbed Steel Bar B500B to BS4449:2009 Polymeric Coated 150mm at Bar Centre

Code	Size mm	Price/100
00049-01160	12ø x 750	POA
00049-01162	16ø x 600	POA
00049-01164	20ø x 500	POA
00049-01166	20ø x 1000	POA

| Ribbed bar installed with the SSR-B-BTec System (See pages 7 & 11)

| Dowel Chairs available to order

| Polymeric Coating to Meet Vol 1 - Series 1000, MCDHW - Clause 1011, EN 13877-3:2004

DOWEL ACCESSORIES

SSR-190 Dowel De-Bonded Sleeves

Code	Size mm	Price/100
00026-00702	12 x 200	£21.70
00026-00704	16 x 300	£23.40
00026-00708	20 x 300	£25.20
00026-00712	25 x 300	£30.00
00026-00716	32 x 325	£44.50

SSR-165 Wax Cone Bolt Box

Code	Size mm	Price/100
00024-00652	20 x 230	£33.70
00024-00654	20 x 305	£43.40
00024-00656	25 x 380	£63.50
00024-00658	30 x 475	£83.40
00024-00660	30 x 534	£156.30
00024-00662	30 x 610	£193.35
00024-00664	30 x 762	£250.00

SSR-165 Polystyrene Bolt Box

Code	Size mm	Price/100
00027-00732	20 x 230	£43.40
00027-00734	20 x 305	£53.50
00027-00736	25 x 380	£66.70
00027-00738	30 x 475	£97.00
00027-00740	30 x 534	£106.70
00027-00742	30 x 610	£160.00
00027-00744	30 x 762	£307.00

SSR-190 Dowel End Cap

Code	Size mm	Price/100
00025-00670	12	£18.30
00025-00672	16	£21.25
00025-00674	20	£22.70

Code	Size mm	Price/100
00025-00676	25	£24.35
00025-00678	32	£48.20
00025-00680	40	£163.35



SSR-SAS CONCRETE ANCHORS

SSR - Hexagon Head Concrete Screw Bolt A4-316



Code	Size mm	Driver Type	Price £ per 100
00505-11142	10-15/80	13 A/F	POA
00505-11144	12-15/100	17 A/F	POA

SSR - Countersunk Head Concrete Screw Bolt A4-316



Code	Size mm	Price £ per 100
00506-11150	10-15/80	POA



SSR-SAS STEEL STUDDING

SSR-SAS Self Colour 8.8 Threaded Bar (DIN976-1) Mechanical Properties to BS EN ISO 3506-1

Code	Size mm	Price/Mtr
00822-15243	M12 x 3000	£3.25
00822-15245	M16 x 3000	£3.70
00822-15247	M20 x 3000	£4.95
00822-15249	M24 x 3000	£10.80
00822-15250	M27 x 3000	£11.85
00822-15251	M30 x 3000	£14.50
00822-15252	M33 x 3000	£18.15
00822-15253	M36 x 3000	£23.10
00822-15254	M39 x 3000	£29.00
00822-15255	M42 x 3000	POA
00822-15256	M45 x 3000	POA

SSR-SAS HDG 8.8 Threaded Bar (DIN976-1) Mechanical Properties to BS EN ISO 3506-1

Code	Size mm	Price/Mtr
00824-15280	M12 x 3000	£3.70
00824-15282	M16 x 3000	£6.00
00824-15284	M20 x 3000	£7.40
00824-15286	M24 x 3000	£13.10
00824-15287	M27 x 3000	£19.25
00824-15288	M30 x 3000	£17.25
00824-15289	M33 x 3000	POA
00824-15290	M36 x 3000	POA
00824-15291	M39 x 3000	POA
00824-15292	M42 x 3000	POA
00824-15293	M45 x 3000	POA
00824-15294	M48 x 3000	POA

SSR-SAS Grade 10.9 Self Colour to HDG
Range available - Details upon request



SSR-SAS STAINLESS STEEL STUDDING

SSR-SAS 1.4462/80 ST/ST Threaded Bar

Code	Size mm	Price/Mtr
00830-15380	M12 x 3000	£8.50
00830-15382	M16 x 3000	£17.50
00830-15383	M20 x 3000	£29.00
00830-15385	M24 x 3000	£37.50
00830-15386	M27 x 3000	POA
00830-15387	M30 x 3000	POA
00830-15388	M33 x 3000	POA
00830-15389	M36 x 3000	POA

SSR-SAS A4-316 ST/ST Threaded Bar (DIN976-1) Properties to BS EN ISO 3506-1: 2009

Code	Size mm	Price/Mtr
00829-15361	M8 x 3000	£6.50
00829-15362	M10 x 3000	£7.00
00829-15363	M12 x 3000	£7.90
00829-15365	M16 x 3000	£13.85
00829-15367	M20 x 3000	£22.45
00829-15369	M24 x 3000	£34.60
00829-15370	M27 x 3000	£43.00
00829-15371	M30 x 3000	£49.50

SSR-SAS A4/80 ST/ST Threaded Bar (DIN976-1) Mechanical Properties to BS EN ISO 3506-1

Code	Size mm	Price/Mtr
00831-15402	M12 x 3000	£7.90
00831-15403	M16 x 3000	£15.70
00831-15404	M20 x 3000	£24.50
00831-15405	M24 x 3000	£35.50
00831-15406	M27 x 3000	£49.75
00831-15407	M30 x 3000	£67.70
00831-15408	M33 x 3000	POA
00831-15409	M36 x 3000	POA
00831-15410	M39 x 3000	POA

SSR-SAS A2-304 ST/ST Threaded Bar (DIN976-1) Properties to BS EN ISO 3506-1: 2009

Code	Size mm	Price/Mtr
00827-15332	M10 x 3000	£3.85
00827-15333	M12 x 3000	£5.70
00827-15335	M16 x 3000	£10.25
00827-15336	M20 x 3000	£16.00
00827-15338	M24 x 3000	£23.10



SSR-SAS CUT STUDS

SSR-CA55 Chemical Studs or All Thread Studs
All sizes from the above stock range

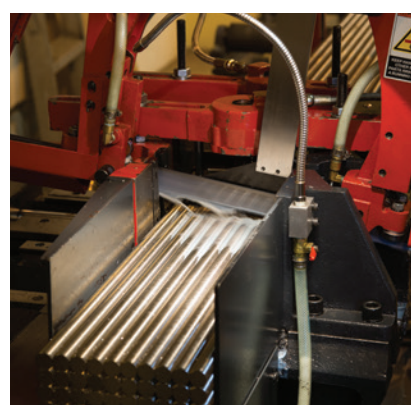
EXPRESS SERVICE
From Our Manufacturing Facility



All Thread Studs



SSR-CA55 Chemical Studs



SSR-SAS STEEL FASTENERS

SSR Limited range of Steel Fasteners, Studding, Nuts & Washers. With a range of DIN931 Hex HD Grade 8.8 Bolts are manufactured to order.



SSR-SAS Self Colour Grade 8 Steel Full Hexagon Nut

to BS EN ISO 4032: 2012 (DIN934)

Mechanical Properties to BS EN ISO 898-2: 2013

Code	Size	Price/100
00882-17599	M6	£1.23
00882-17600	M8	£2.47
00882-17601	M10	£4.95
00882-17602	M12	£7.70
00882-17603	M16	£15.40
00882-17604	M20	£36.95
00882-17606	M24	£52.35
00882-17607	M27	£102.00
00882-17608	M30	£120.00
00882-17609	M33	£170.00
00882-17610	M36	£200.00
00882-17611	M39	£277.00
00882-17612	M42	£355.00
00882-17613	M45	£385.00
00882-17614	M48	£525.00

SSR-SAS Zinc Plated Steel Form A Washer to BS 4320-1: 1968 (DIN125)

Code	Size	Price/100
00926-18430	M6	£2.50
00926-18431	M8	£3.10
00926-18432	M10	£3.80
00926-18433	M12	£4.10
00926-18435	M16	£7.20
00926-18437	M20	£11.00
00926-18439	M24	£23.50
00926-18440	M27	£27.00
00926-18441	M30	£36.00

SSR-SAS Self Colour Steel Form E Washer to BS 4320-1: 1968

Code	Size	Price/100
00924-18390	M12	£3.25
00924-18392	M16	£6.70
00924-18394	M20	£8.70
00924-18395	M24	£18.50
00924-18396	M27	£21.60
00924-18397	M30	£28.00
00924-18398	M33	£32.50
00924-18399	M36	£40.00
00924-18400	M39	£68.00

SSR-SAS Self Colour Grade 10 Steel Full Hexagon Nut

to BS EN ISO 4032: 2012 (DIN934)

Mechanical Properties to BS EN ISO 898-2: 2013

Code	Size	Price/100
00883-17624	M16	£15.40
00883-17625	M20	£31.00
00883-17627	M24	£55.00
00883-17628	M27	£108.00
00883-17629	M30	£123.00
00883-17630	M33	£170.00
00883-17631	M36	£231.00
00883-17632	M39	£299.00
00883-17633	M42	£431.00

SSR-SAS Zinc Plated Grade 8 Steel Full Hexagon Nut

to BS EN ISO 4032: 2012 (DIN934)

Mechanical Properties to BS EN ISO 898-2: 2013

Code	Size	Price/100
00885-17664	M12	£6.15
00885-17666	M16	£18.50
00885-17667	M20	£34.00
00885-17669	M24	£68.00
00885-17670	M27	£123.00
00885-17671	M30	£154.00



SSR-SAS HDG Steel Form E Washer to BS 4320-1: 1968

Code	Size	Price/100
00922-18351	M10	£4.00
00922-18352	M12	£5.50
00922-18353	M14	£10.00
00922-18354	M16	£12.50
00922-18355	M20	£15.00
00922-18356	M22	£18.70
00922-18357	M24	£31.50
00922-18358	M27	£37.50
00922-18359	M30	£50.00
00922-18360	M33	£56.00
00922-18361	M36	£68.50
00922-18362	M39	£117.00
00922-18363	M42	£147.00
00922-18364	M45	£210.00
00922-18365	M48	£230.00

SSR-SAS HDG Grade 10 Steel Full Hexagon Nut to BS EN ISO 4032: 2012 (DIN934)

Mechanical Properties to BS EN ISO 898-2: 2013

Code	Size	Price/100
00887-17703	M12	£10.80
00887-17704	M16	£30.80
00887-17705	M20	£43.50
00887-17706	M24	£77.00
00887-17707	M27	£117.00
00887-17708	M30	£184.00
00887-17709	M33	£216.00
00887-17710	M36	£293.00
00887-17711	M39	£385.00
00887-17712	M42	£462.00
00887-17713	M45	£615.00

SSR-SAS HDG Steel Spring Washer to BS 4464: 1969 (DIN127)

Code	Size	Price/100
00925-18416	M16	£6.70
00925-18418	M20	£14.80
00925-18422	M24	£23.00
00925-18424	M27	£24.50
00925-18426	M30	£37.00
00925-18428	M33	£43.00
00925-18429	M36	£60.00

SSR-SAS HDG Steel Large O/S Washer to BS EN ISO 7093-1: 2000

Code	Size mm	Price/100
00921-18331	M16x38x3	£30.00
00921-18333	M18x36x6	£62.00
00921-18336	M22x50x4	£43.50
00921-18337	M22x66x5	£165.00
00921-18338	M24x65x5	£165.00
00921-18339	M27x85x6	£283.00
00921-18340	M30x92x6	£300.00
00921-18341	M33x105x6	£450.00
00921-18342	M36x110x8	POA
00921-18348	M39x115x7	POA

SSR - Plate Washers available to order in steel and stainless steel



SSR-SAS STAINLESS STEEL FASTENERS

SSR Limited now stock Stainless Steel Fasteners in Grade A2-304, A4-316 with New Stock in duplex Grade 1.4462.

The tables detail only our core stock range. A considerably wider range of bolts, set screws, nuts washers and coach screws are manufactured to order. Please check with our sales department for any sizes not listed

SSR-SAS A2-304 ST/ST Spring Washer to BS 4464: 1969 (DIN127)

Code	Size	Price/100
00933-18574	M12	£3.50
00933-18576	M16	£8.00
00933-18578	M20	£12.00
00933-18580	M24	£28.00
00933-18581	M27	£34.50
00933-18582	M30	£46.00
00933-18584	M36	£92.00

SSR-SAS A2-304 ST/ST Form A Washer to BS 4320-1: 1968 (DIN125)

Code	Size	Price/100
00928-18470	M6	£0.80
00928-18471	M8	£1.28
00928-18472	M10	£2.48
00928-18473	M12	£4.90
00928-18474	M14	£7.50
00928-18475	M16	£8.00
00928-18476	M18	£11.50
00928-18477	M20	£12.00
00928-18479	M24	£23.50
00928-18480	M27	£32.00
00928-18482	M30	£41.50
00928-18483	M33	£54.00
00928-18485	M36	£71.00
00928-18486	M39	£126.00
00928-18487	M42	£158.00



SSR-SAS A2/50 ST/ST Domed Cap Nut (DIN1587)

Code	Size	Price/100
00894-17832	M10	£20.50
00894-17833	M12	£31.00
00894-17835	M16	£68.00
00894-17836	M20	£160.00

SSR-SAS A2/80 ST/ST Full Hexagon Nut to BS EN ISO 4032: 2012 (DIN934) & Properties to BS EN ISO 3506-2: 2009

Code	Size	Price/100
00892-17803	M10	£8.10
00892-17804	M12	£11.60
00892-17806	M16	£24.55
00892-17807	M20	£46.00
00892-17810	M24	£86.00

SSR-SAS A2/50 ST/ST Nylon Insert Lock Nut (DIN985) & Properties to BS EN ISO 3506-2: 2009

Code	Size	Price/100
00893-17822	M10	£9.75
00893-17823	M12	£14.00
00893-17824	M16	£31.50
00893-17825	M20	£71.00
00893-17827	M24	£208.00

SSR-SAS A4/80 ST/ST Domed Cap Nut (DIN1587)

Code	Size	Price/100
00903-17971	M12	£40.50
00903-17973	M16	£98.00
00903-17974	M20	£325.00
00903-17976	M24	£624.00
00903-17977	M27	£910.00
00903-17978	M30	£1280.00

SSR-SAS A4/80 ST/ST Full Hexagon Nut to BS EN ISO 4032: 2012 (DIN934) & Properties to BS EN ISO 3506-2: 2009

Code	Size	Price/100
00899-17900	M6	£2.50
00899-17901	M8	£5.10
00899-17902	M10	£ 11.10
00899-17903	M12	£14.50
00899-17905	M16	£32.00
00899-17906	M20	£62.50
00899-17908	M24	£104.00
00899-17909	M27	£480.00
00899-17910	M30	£712.00
00899-17911	M33	£1275.00
00899-17912	M36	£1655.00
00899-17913	M39	£1973.00
00899-17914	M42	POA

SSR-SAS 1.4462/80 Duplex ST/ST Full Hexagon Nut to BS EN ISO 4032: 2012 (DIN934) & Properties to BS EN ISO 3506-2: 2009

Code	Size	Price/100
00900-17922	M12	POA
00900-17924	M16	POA
00900-17925	M20	POA
00900-17927	M24	POA
00900-17928	M27	POA
00900-17929	M30	POA
00900-17930	M33	POA
00900-17931	M36	POA

SSR-SAS A4-316 ST/ST Eye Bolts load approved (DIN 580)

Code	Size	Price/100
00905-17991	M10	£294.00
00905-17992	M12	£440.00
00905-17994	M16	£645.00
00905-17995	M20	£1067.00
00905-17997	M24	£3405.00
00905-17998	M30	POA

SSR-SAS A4-316 ST/ST Eye Nuts Load approved (DIN582)

Code	Size	Price/100
00904-17982	M12	£474.00
00904-17974	M16	£670.00
00904-17985	M20	£974.00



SSR-SAS STAINLESS STEEL FASTENERS

SSR-SAS A4-316 ST/ST Form A Washer to BS 4320-1: 1968 (DIN125)

Code	Size	Price/100
00936-18640	M6	£1.18
00936-18641	M8	£1.85
00936-18642	M10	£3.75
00936-18643	M12	£7.00
00936-18644	M16	£12.35
00936-18645	M20	£17.60
00936-18646	M22	£23.50
00936-18647	M24	£38.10
00936-18648	M27	£51.20
00936-18649	M30	£69.50
00936-18650	M33	£88.00
00936-18651	M36	£101.50
00936-18652	M39	£197.50
00936-18653	M42	£275.00
00936-18654	M45	£350.00
00936-18655	M48	£440.00

SSR-SAS 1.4462 ST/ST Form A Washer to BS 4320-1: 1968 (DIN125)

Code	Size	Price/100
00940-18721	M8	POA
00940-18723	M12	POA
00940-18725	M16	POA
00940-18727	M20	POA
00940-18729	M24	POA
00940-18730	M27	POA
00940-18731	M30	POA
00940-18732	M33	POA
00940-18733	M36	POA

SSR-SAS A4-316 Class 80 Hex Head Set Screws DIN 933

Code	Size mm	Price/100
00865-16713	M12 x 40	POA
00865-16715	M12 x 50	POA
00865-16727	M16 x 35	POA
00865-16730	M16 x 50	POA
00865-16732	M16 x 60	POA
00865-16734	M16 x 70	POA
00865-16740	M16 x 100	POA
00865-16743	M20 x 50	POA
00865-16745	M20 x 65	POA
00865-16748	M20 x 80	POA
00865-16750	M20 x 90	POA
00865-16751	M20 x 100	POA
00865-16752	M20 x 110	POA
00865-16753	M20 x 120	POA
00865-16765	M24 x 80	POA
00865-16767	M24 x 100	POA
00865-16769	M24 x 120	POA
00865-16779	M27 x 120	POA
00865-16790	M30 x 80	POA
00865-16792	M30 x 100	POA
00865-16794	M30 x 130	POA
00865-16797	M33 x 130	POA
00865-16800	M36 x 150	POA

SSR-SAS A4-316 ST/ST Spring Washer to BS 4464: 1969 (DIN127)

Code	Size	Price/100
00941-18742	M10	£3.50
00941-18743	M12	£5.10
00941-18745	M16	£10.70
00941-18747	M20	£20.00
00941-18749	M24	£37.00
00941-18750	M27	£65.50
00941-18751	M30	£40.50
00941-18752	M33	£112.00
00941-18753	M36	£120.00



SSR-SAS ISOLATION WASHERS

SSR-SAS Nylon 66 Form A Washer to BS 4320-1: 1968 (DIN125)

Code	Size	Price/100
00947-18860	M6	£4.40
00947-18861	M8	£2.50
00947-18862	M10	£2.70
00947-18863	M12	£4.40
00947-18865	M16	£9.60
00947-18867	M20	£11.60
00947-18869	M24	£18.40
00947-18870	M27	£50.00
00947-18871	M30	£67.00
00947-18872	M33	£140.00
00947-18873	M36	£230.00
00947-18875	M39	POA
00947-18876	M42	POA

SSR-SAS Neoprene Flat Washers

Code	Size	Price/100
00949-18900	M10	£130.00
00949-18901	M12	£139.00
00949-18902	M16	£142.00
00949-18903	M20	£150.00
00949-18904	M24	£277.00
00949-18905	M27	£280.00
00949-18906	M30	£303.00
00949-18907	M33	£353.00
00949-18908	M36	£400.00

SSR-SAS Internal Plastic Caps

Code	Size	Price/100
00951-18943	M10	£18.40
00951-18944	M12	£19.00
00951-18946	M16	£20.00
00951-18948	M20	£21.00
00951-18950	M24	£23.00
00951-18951	M27	£28.00
00951-18952	M30	£47.50
00951-18953	M33	£55.00
00951-18954	M36	£65.00
00951-18955	M39	POA
00951-18956	M42	POA

SSR-SAS Nylon 66 Top Hat Washer

Code	Size	Price/100
00946-18843	M10	£12.50
00946-18844	M12	£28.00
00946-18846	M16	£32.00
00946-18848	M20	£36.00
00946-18850	M24	£54.00
00946-18851	M27	£84.00
00946-18853	M30	£107.00
00946-18854	M33	£124.00
00946-18855	M36	£250.00
00946-18856	M39	£1350.00
00946-18857	M42	£1380.00

SSR-SAS Nylon 66 Isolation Washers

Code	Size mm	Price/100
00748-00000	50 x 50 x 2	£131.00
00748-00000	75 x 75 x 3	£212.00
00748-00000	90 x 90 x 2	£296.00

Available on a 2/3 day service, punched to size M12, 16, 24, 27, 30 (Max size 50x50-M20)



SSR LIMITED - STAINLESS STEEL REINFORCEMENT

MATERIAL SPECIFICATION BS6744:2001 A2:2009

BS EN 10088-1 Steel Designation Number	C max	Si max	Mn max	S max	Cr min/max	Ni min/max	Mo min/max	Cu min/max	P max	N max
1.4362	0.03	1.0	2.0	0.015	22.0/24.0	3.5/5.5	0.10/0.60	0.10/0.60	0.035	0.050/0.20
1.4462	0.03	1.0	2.0	0.015	21.0/23.0	4.5/6.5	2.5/3.5	---	0.035	0.10/0.22
1.4301	0.07	1.0	2.0	0.03	17.0/19.5	8.0/10.5	---	---	0.045	<0.11
1.4429	0.03	1.0	2.0	0.015	16.5/18.5	11.0/14.0	2.5/3.	---	0.045	0.12/0.22

GRADE 1.4362 - ONE ALLOY THAT CAN SUBSTITUTE FOR 1.4301, 1.4436 & 1.4429

1.4362 Equals - Price Stability - "The Holy Grail"
 The movement of Nickel prices on the commodity markets can virtually be discounted as a consideration when specifying this new 1.4362 DUPLEX alloy offering the consumer a more stable price over time. This is of major benefit for long term contracts.

1.4362 Equals - More Cost Effectiveness
 The new 1.4362 DUPLEX alloy will enable a significant reduction in cost when compared to the price level of nickel rich austenitic materials. The benefits offered by improved corrosion resistance, higher strengths if required and a stable price are now available to both the specifier and contractor.



Forth Replacement Crossing



570 tonnes of grade 1.4362/500 cut and bent reinforcement supplied to the new Forth Crossing Project - used primarily in the foundations in both the towers and the piers.



SSR THREADING SERVICES RIBBED AND PLAIN BAR

SSR Limited offer a comprehensive service on both ribbed and plain bar from the following range

- Ribbed Bar - BS4449:2009 M16,20,24,30,33,39,48
- Plain Bar Grade 8.8 M16,20,24,27,30,33,36,39,48
- Threaded to BS.EN.ISO965-1:1998-6H



SSR-180 TIE BARS THREADED RANGE

EXPRESS SERVICE

From Our Manufacturing Facility

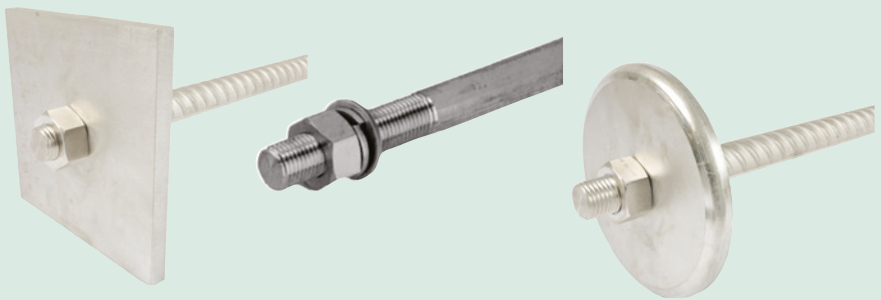
16Ø	-	M16
20Ø	-	M20 or M22
25Ø	-	M24 or M27
32Ø	-	M30 or M33
40Ø	-	M39 or M42
50Ø	-	M48

Ancon Thread 16Ø - 20Ø - 16Ø - 25Ø - 32Ø

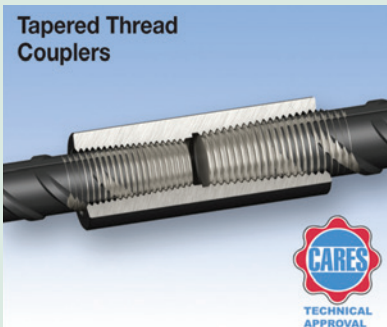
SSR-180 THREADING SERVICE, STAINLESS STEEL & STEEL – RIBBED & PLAIN BAR - A FULL RANGE AVAILABLE ON SIZES M12 – M48

Stainless Steel Threading to BS EN ISO 3506-1

Many projects require anchors with mechanical properties equivalent to BS EN ISO 3506-1 Class 80 properties. These can be achieved using materials specified in BS6744 as grade 650. Austenitic grade 1.4429 meets the chemical composition type A4 and duplex alloys 1.4362 and 1.4462 are also recommended for these applications. Similarly class 70 properties can be generally achieved using grade 500 materials from BS6744. A comprehensive range of ancillary fasteners are available from stock and non-standard sizes made to order when required.



SSR OFFER TAPERED THREADS TO THE ANCON SYSTEM



EXPRESS SERVICE

From Our Manufacturing Facility





SSR CASE STUDIES

The following highlight some of the major civil engineering projects that **SSR Limited** have supplied product often specifically designed and manufactured to meet the demanding project requirements.

Queensferry Crossing (New Forth Road Bridge)



The management team of **SSR Ltd** were closely involved in the specification, design and manufacture of the Cast in Anchors for the project. The **SSR-170 & SSR-175** design was developed for a wide range of applications for VRS, Lighting Columns, Wind-Shields & Gantries in a range of sizes from M12 x 4 Post to M36 x 16 Post Anchors. Specifications for materials was enhanced in line with the Transport Scotland requirements for stainless steel designations. DUPLEX grade 1.4462/1.4362 were utilised. A total of 700 tonnes of stainless steel reinforcement grade 1.4362 was used on the project in the initial stages of construction.

Overall 14,500 cast in anchors were supplied together with standard and special **SSR-CA55** stud & **SSR-VDI** socket chemical anchors and even special **SSR-100** Socket Extensions pieces were manufactured to order.

At all stages **SSR Ltd** were closely involved in the design and development of product to assist the different construction teams overcome site specific requirements.



- 🔩 SSR-170 Lighting Column Anchors
- 🔩 SSR-170 Cast in Parapet Anchors
- 🔩 SSR-170 Cast in Acoustic Barrier Anchors
- 🔩 SSR-175 Heavy Duty Anchor Sockets
- 🔩 SSR-100 Drilled In Anchor Systems
- 🔩 SSR-SAS Fasteners Duplex Grade 1.4462
- 🔩 SSR-Stainless Steel Reinforcement

Mersey Gateway



A range of **SSR-170 & SSR-175** cast in anchors were supplied for the installation of the Vehicle Restraint Systems and Lighting Columns for the project; mainly in size M24. Over 3500 anchors were supplied together with **SSR-128** drilled in anchors



- 🔩 SSR-170 Lighting Column Anchors
- 🔩 SSR-100 Drilled In Anchor Systems
- 🔩 SSR-128-VDP-TI Heavy Duty Anchor
- 🔩 SSR-Stainless Steel Reinforcement

M5 Oldbury



- 🔩 SSR-175 Heavy Duty Cast in Anchor Sockets for Lighting Column Anchors
- 🔩 SSR-100 Drilled In Anchor Systems for Safety Fence

M8 Glasgow



- 🔩 SSR-170 Lighting Column Anchors
- 🔩 SSR-170 Cast in Parapet Anchors
- 🔩 SSR-100 Drilled In Anchor Systems
- 🔩 SSR-100 Socket Extension Pieces

A465 Heads of the Valleys



- 🔩 SSR-170 Cast in Parapet Anchors
- 🔩 SSR-100 Drilled In Anchor Systems
- 🔩 SSR-100 Stainless Steel Sheer Connectors

For a complete solution for High Performance Concrete Anchoring Applications, please contact:



SSR Limited, Meridian House, Blackwater Way, Aldershot, Hants, GU12 4DL
Tel: +44 (0) 1483 226420 Fax: +44 (0) 1483 226421 Email: sales@ssrlimited.co.uk