



*Reinforcing &
Mesh Solutions*
CREATING SOLUTIONS TOGETHER

C O M P A N Y

PROFILE



**Reinforcing &
Mesh Solutions**
CREATING SOLUTIONS TOGETHER

Reinforcing & Mesh Solutions (RMS) was founded in 2002 with the goal of becoming South Africa's leading supplier of reinforcing steel bars (rebar) and welded mesh.

We are committed to meeting the needs of our customers and uplifting our stakeholders through skills transfer programmes and economic empowerment. We're building much more than just structures: we're reinforcing communities and helping people build better lives and livelihoods. RMS has a proud track record of innovation, and our focus on consistent quality and safety is your guarantee of products that will exceed your expectations and deliver exceptional structural and social outcomes.

Our nationwide network of branches means that you are never far from the ideal reinforcing solution. Let's create solutions together and create a stronger nation.

RMS has a proud track record of innovation, and our focus on consistent quality and safety is your guarantee of products that will exceed your expectations and deliver exceptional structural and social outcomes.

Our Vision

To be the leading rebar company in South Africa by embracing technology, delivering improved outcomes for all our stakeholders and 'creating solutions together'.

Our Mission

As the market leader in reinforcing steel and welded mesh in southern Africa, we strive to deliver quality products, services, and solutions in a professional and collaborative manner, by using the knowledge and experience of our employees and customers. We believe in building a strong and trusting relationships with our clients, through our knowledge, reliability, and quality of service, to add value to the construction industry.



Licence holder of VSL Systems

VSL Construction Solutions Pty Ltd uses the world renowned VSL systems and components for all its post – tensioning retained earth and heavy lifting works. With local team of specialised engineers and experts, combined with readily available international expertise, VSL Construction Solutions carries out complex and innovative engineering projects throughout Southern Africa.

Being part of VSL worldwide network, which has over 50 years' experience, allows VSL to interact with over 900 engineers worldwide, ensuring that our clients get the most innovative and cost-effective engineering solutions available.

R M S / V S L

PRODUCTS

REINFORCING STEEL

Reinforcing & Mesh Solutions (RMS) supplies, cuts and bends reinforcing to the latest standards and adheres to regular and consistent quality checks to meet customer requirements. **We supply reinforcing steel in various specifications range from 250MPa to 500MPa.**

PILE CAGES

Reinforcing & Mesh Solutions (RMS) is a specialist manufacturer and supplier of prefabricated pile cages that meet the design requirement of specific contracts. RMS pile cages are produced in a controlled environment in order to meet high tolerances and quality standards.

PRE-ASSEMBLED

Reinforcing & Mesh Solutions (RMS) offers a service of pre-assembling elements to the engineers' specifications. This in turn saves the customer both time and handling. In all cases, RMS will liaise with the customer on delivery timelines, so that pre-assembled rebar is delivered just in time.

WELDED MESH FABRIC REINFORCEMENT

Reinforcing & Mesh Solutions (RMS) manufactures, supplies and delivers welded mesh fabric and hard drawn wire.

POST – TENSIONING

VSL offers construction solutions relating to post-tensioning, retained earth, bridge bearings and heavy lifting using the Internationally recognised VSL System.

SUNDRY PRODUCTS

Reinforcing & Mesh Solutions (RMS) suppliers of rebar and mesh spacers, chairs and cover blocks, binding wire, brick force and rebar safety caps.

SERVICES



Temporary Rebar Production Facilities

This service is carried out by highly competent teams of trained steel fixers closely managed by RMS fixing supervisors.



Temporary Rebar Production Facilities

Reinforcing & Mesh Solutions (RMS) has the resources and expertise to establish temporary production facilities on or close to major projects, in remote areas as well as cross-border.



Installations

Reinforcing & Mesh Solutions (RMS) offers a complete service for managing contracts management and rebar installations on site. Our experienced contracts managers provide their expertise to ensure we deliver the best possible solutions to our clients.



Geographic Distribution

Reinforcing & Mesh Solutions (RMS) is geographically well represented in most major centres throughout Southern Africa. It has a growth strategy of establishing additional outlets to market our products and services in both local and cross-border markets.

ACCREDITATIONS

B-BBEE

Reinforcing & Mesh Solutions (RMS) is continuously striving in its efforts to achieve meeting its Broad Based Black Economic Empowerment objectives. The company is verified by a SANAS approved verification agency. RMS is currently a Level 1 BEE Contributor in terms of Amended Construction Scorecard (135% Recognition).

SARCEA

RMS is a proud member of the South African Reinforced Concrete Engineers Association

DQS/ ISO Certification

RMS is ISO 9001 / 14001 / 45001 compliant.

Applicable Standards

- **SANS ISO 9001** Quality management systems
- **SAN 920** Steel bars for concrete reinforcement
- **SANS 282** Bending dimensions and scheduling of steel for concrete
- **SANS 1024** Welded steel fabric for reinforcement of concrete



REINFORCING

Reinforcing Steel Products – Supply and Installation

RMS supplies, cuts and bends reinforcing to the latest international standards. We conduct regular quality audits to ensure that our products meet or exceed the requirements of our customers.

Our reinforcing steel specifications range from 250MPa to 500MPa.

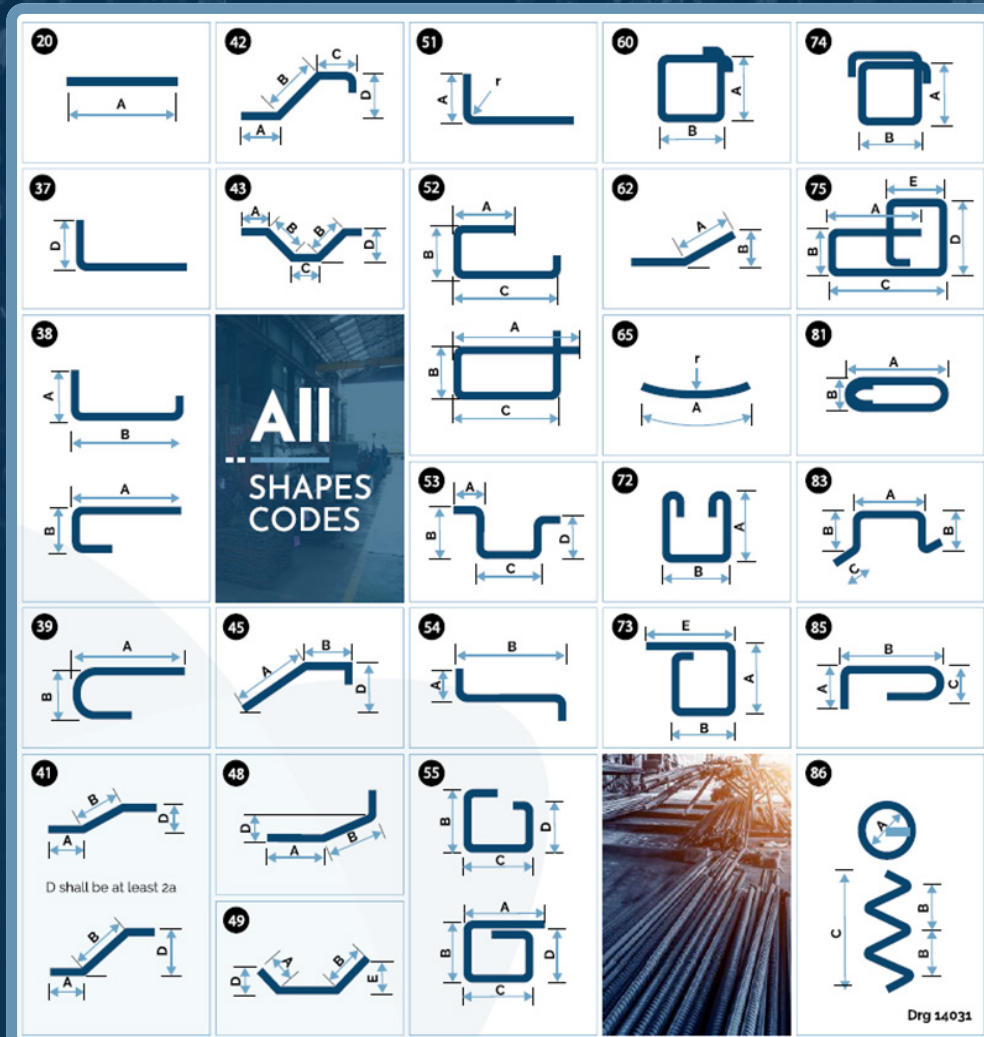
Cutting & Bending Standards SANS 282: Edition 6

Bending Schedules

We cut and bend rebar according to your bending schedules and in compliance with the standard Shape Codes shown in our Reinforcing Data Sheet. Download the Data Sheet.

SANS 282: Edition 6 – Notes

1. Use shape code 99 for all other shapes. A dimensioned sketch of the shape shall be given in the bending schedule.
2. Radii of all bends are standard unless an r-value is given in the supplied bending schedule.
3. All dimensions shown are external.



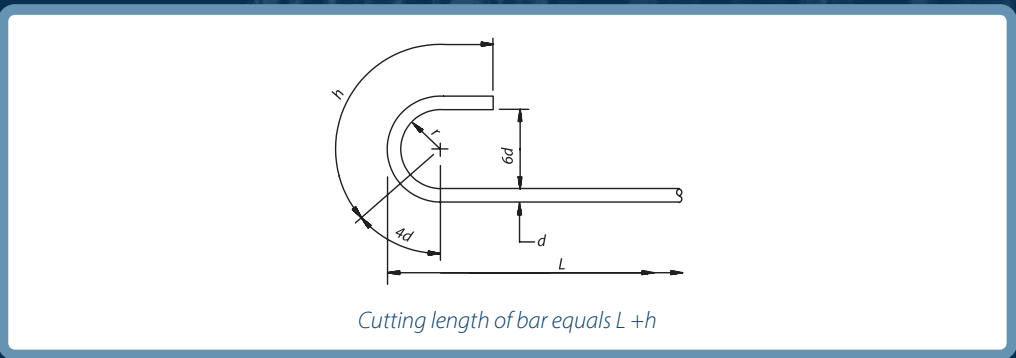
Shape codes 32, 33, 34 and 35 have been removed as they are adequately covered by other shape codes. This brings SA codes in line with British standards.

Cutting & Bending Tolerances

Critical radii

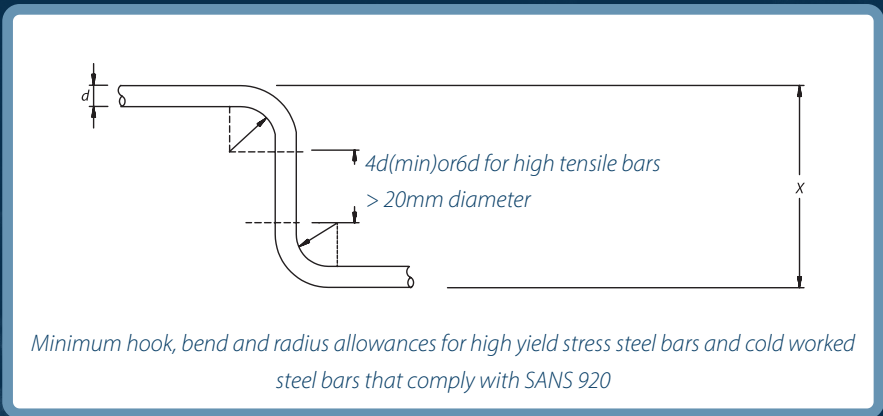
Nominal size of bar (mm)	Critical radius (m)
8	2.5
10	3
12	3.5
16	5
20	7
25	17
32	43

Hook allowance



Example of bar with more than one bend

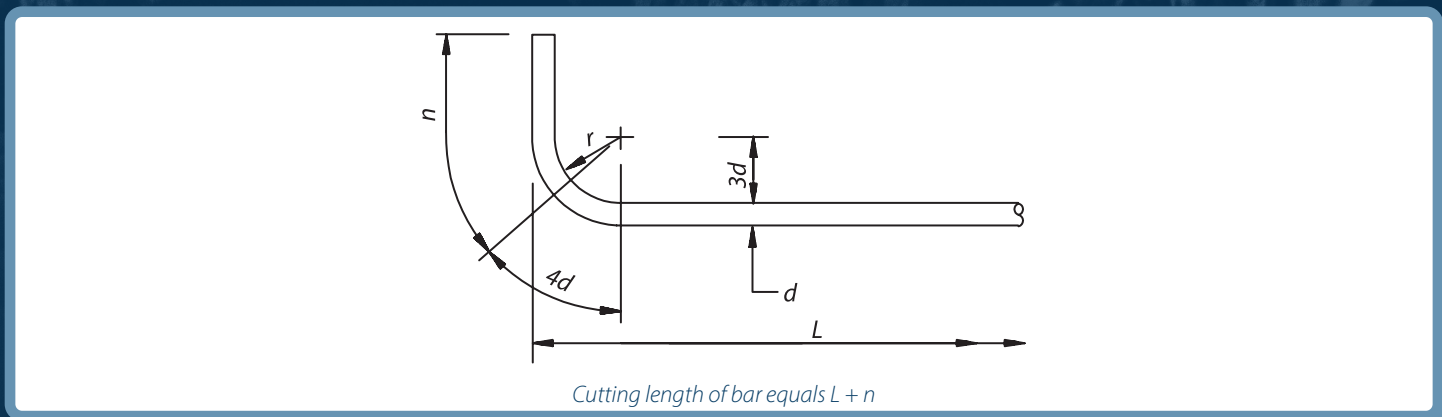
Method of farming	Length	Tolerance (mm)
Cutting Straight lengths	Straight lengths (including reinforcement far subsequent bending)	± 25
Bending	$\leq 1000\text{mm}$	± 5
	$\geq 1000 \dots 2000\text{mm}$	$+5$ -10
	$\geq 2000\text{mm}$	$+5$ -25



Minimum hook, bend and radius allowances far high yield stress steel bars and cold worked steel bars that comply with SANS920

Nominal size of bar d	6	8	10	12	16	20	25	32	40
Hoak allowance h	100	100	120	160	200	240	300	400	480
Bend allowance n	100	100	100	100	120	140	180	220	260
Radius r	18	24	30	36	48	60	75	96	120

Bend Allowance



Design & Detailing Criteria

Bar Spacing, Sectional areas per metre

Diam	Each	Spacing of bars (Millimetres)											
mm	mm ²	50	75	80	100	125	150	175	200	225	250	275	300
8	50.3	1010	671	628	503	402	335	287	252	223	201	183	167
10	78.5	1570	1046	982	785	628	523	448	393	349	314	285	261
12	113	2260	1506	1414	1130	904	753	645	565	502	452	410	376
16	201	4020	2679	2512	2010	1608	1339	1148	1005	892	804	730	669
20	314	6280	4186	3927	3140	2512	2091	1793	1570	1394	1256	1140	1046
25	491	9820	6454	6136	4910	3928	3270	2804	2455	2180	1964	1782	1635
32	804	16100	10717	10050	8040	6432	5355	4591	4020	3570	3216	2919	2677
40	1260	25100	16796	15700	12600	10080	8392	7195	6300	5594	5040	4574	4198

Mass per square metre for bars in one direction at various spacings (kg/m²)

Diam	Each	Mass per metre (kg)	Bar spacing (Millimetres)									
mm	mm ²	kg/m	75	100	125	150	175	200	225	250	275	300
8	50.3	0.395	5.261	3.946	3.157	2.631	2.255	1.973	1.754	1.578	1.435	1.315
10	78.5	0.617	8.220	6.165	4.932	4.110	3.523	3.083	2.740	2.466	2.242	2.055
12	113	0.888	11.840	8.878	7.103	5.919	5.073	4.439	3.946	3.551	3.228	2.959
16	201	1.58	21.04	15.78	12.63	10.52	9.02	7.89	7.02	6.31	5.74	5.26
20	314	2.47	32.88	24.66	19.73	16.44	14.09	12.33	10.96	9.87	8.97	8.22
25	491	3.85	51.38	38.53	30.83	25.69	22.2	19.27	17.13	15.14	14.01	12.84
32	804	6.31	84.18	63.13	50.51	42.09	36.08	31.57	28.03	25.25	22.96	21.04
40	1260	9.86	131.50	98.65	78.92	65.76	56.37	49.32	43.84	39.46	35.87	32.88

Transportation

For transportation purposes bars should not exceed the following:



Standard Material Specifications

Standard Rebar Specifications

Our reinforcing steel bars (rebar) are supplied in the following standard grades and diameters. Standard lengths (both grades) are 12m and 13m.

Grade	Letter code	Diameter, mm							
High Tensile Steel (SANS 920:2011 – 450MPa) – deformed	Y	8	10	12	16	20	25	32	40
Mild Steel (SANS 920:2011 – 250MPa) – smooth	R	8	10	12	16	20	25	32	40

Customised dimensions can be supplied on request – please contact us to discuss your precise requirements.

Installation / Steel Fixing

We don't just supply world-class rebar and mesh products – we can also install and secure them for you.

For further information, please contact.

RMS REINFORCING AND MESH SOLUTIONS

011 878 6820 or Email sales@rms-sa.co.za

Or visit our website for branch details in your area

www.rms-sa.co.za



PILE CAGES

A STRONGER FOUNDATION

Prefabricated Pile Cage Reinforcement

Pre-Assembled Reinforcing Components

RMS manufactures and supplies prefabricated pile cages for strengthening vertical concrete columns and are ideally suited to projects that call for deeper foundations. We can supply either fully assembled piling cages or piling cage components for onsite assembly. In both cases, our products are guaranteed to meet your design specifications and required tolerances.



Workability

Manufactured from weldable material.



Flexibility

Choose pre-assembly or onsite fixing.



Durability

Supplied with 'Z Bars' or circular 'Stiffener Rings' to maintain their shape during transport and installation.



Quality

Constructed using SANS 920:2011 approved mild and high tensile steel reinforcement.

Standard Specifications

Element	Method	Dimensions
Bar diameter range	Bars	10 – 40mm
	Spirals	6 – 16mm
Spiral pitch		30 – 50mm
Cage diameter range	Welded or fixed	100mm+
Cage length, max		13m

For further information, please contact.

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MESH & WIRE

Welded Mesh Fabric Reinforcement

Our Welded Mesh Fabric Reinforcement is manufactured using cold-rolled deformed wire. We employ electric resistance welding to create intersections with minimal loss of strength and cross-sectional area.

Why choose RMS Welded Mesh Fabric?

Quality control

- Manufactured according to SANS 1024 Standard Specifications
- Minimum proof stress of 485MPa and a tensile strength of 510MPa as per BS4482

Standard Specification requirements

- We can meet other international specifications on request.

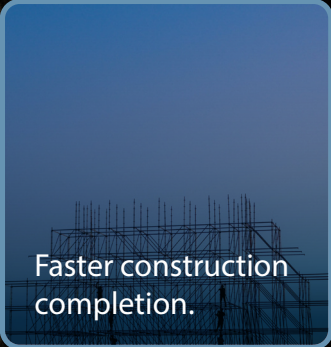
Site Management

- Easily identified onsite.

Multiple uses

- Ideal for surface beds (concrete floor slabs on fill) and road pavements, suspended floor slabs, concrete retaining walls, box culverts and drains, precast stadium seating and tilt-up wall panels.


Advantages of Welded Mesh Fabric




Faster construction completion.



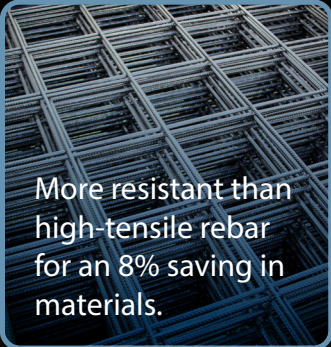
Available in a range of diameters for multiple applications.




Can be supplied as flat sheets, rolls or custom-shaped, as required.



Use of deformed wire enhances concrete adhesion.



More resistant than high-tensile rebar for an 8% saving in materials.



Contributes to accuracy of concrete control.



Offers potential time savings and reduced wastage.

	Fabric	Mesh Size Nominal Pitch of Wires		Wire Sizes		Cross Sectional Area/m Width		Nominal Mass/m ²	Supplied in
	Ref No.	Main (mm)	Cross (mm)	Main (mm)	Cross (mm)	Main (mm)	Cross (mm)	Kg	
Square Mesh Fabric	888	200	200	12	12	566	566	8.88	Sheets only 6m x 2.4m Sheets or rolls
	746	200	200	11	11	475	475	7.46	
	617	200	200	10	10	393	393	6.17	
	500	200	200	9	9	318	318	5.00	
	395	200	200	8	8	251	251	3.95	
	311	200	200	7.1	7.1	198	198	3.11	
	245	200	200	6.3	6.3	156	156	2.45	
	193	200	200	5.6	5.6	123	123	1.93	
Design Mesh Fabric	1085	100	200	12	8	1131	251	10.85	Sheets only 6m x 2.4m
	943	100	200	11	8	951	251	9.43	
	772	100	200	10	7.1	786	198	7.72	
	655	100	200	9	7.1	636	198	6.55	
	517	100	200	8	6.3	503	156	5.17	
	433	100	200	7.1	6.3	396	156	4.33	
	341	100	200	6.3	5.6	312	123	3.41	
	289	100	200	5.6	5.6	246	123	2.89	
Longitudinal Mesh Fabric	278	100	300	6.3	4.0	312	42	2.78	Sheets 6m x 2.4m or rolls 60m x 2.4m
	226	100	300	5.6	4.0	246	42	2.26	
	133	100	300	4.0	4.0	126	42	1.33	
Special Mesh	200	100	100	4.0	4.0	126	126	2.00	
	156	100	100	3.55	3.55	99	99	1.56	

Why choose RMS Welded Mesh Fabric?

- Cross sectional areas at various spacing mm²/m
- Mass at various spacing kg/m²

Diam	Area	Mass	Wire Spacing (Millimeters)											
			50	75	100	125	150	175	200	225	250	275	300	
12	113.11		2262	1508	1131	905	754	646	566	503	452	411	377	12
		0.888	17.76	11.84	8.88	7.10	5.92	5.07	4.44	3.95	3.55	3.23	2.96	
11	95.05		1901	1267	950	760	634	543	475	422	380	346	317	11
		0.746	14.92	9.95	7.46	5.97	4.97	4.26	3.73	3.32	2.98	2.71	2.49	
10	78.55		1571	1047	786	628	524	449	393	349	314	286	262	10
		0.617	12.34	8.23	6.17	4.94	4.11	3.53	3.09	2.74	2.47	2.24	2.06	
9	63.63		1273	848	636	509	424	364	318	283	255	231	212	9
		0.500	10.00	6.67	5.00	4.00	3.33	2.86	2.50	2.22	2.00	1.82	1.67	
8	50.27		1005	670	503	402	335	287	251	223	201	183	168	8
		0.395	7.90	5.02	3.95	3.16	2.63	2.26	1.98	1.76	1.58	1.44	1.32	
7.1	39.60		792	528	396	317	264	226	198	176	158	144	132	7.1
		0.311	6.22	4.15	3.11	2.49	2.07	1.78	1.56	1.38	1.24	1.13	1.04	
6.3	31.18		624	416	312	249	208	178	156	139	125	113	104	6.3
		0.245	4.90	3.27	2.45	1.96	1.63	1.40	1.23	1.09	0.98	0.89	0.82	
5.6	24.63		493	328	246	197	164	141	123	109	99	90	82	5.6
		0.193	3.86	5.57	1.93	1.54	1.29	1.10	0.97	0.86	0.77	0.70	0.64	
4	12.57		251	168	126	101	84	72	63	56	50	46	42	4
		0.100	2.00	1.33	1.00	0.80	0.67	0.57	0.50	0.44	0.40	0.36	0.33	

Diameter, mm	Mass/ metre, kg
5.6	0.193
6.3	0.245
7.1	0.311
8.0	0.395
9.0	0.500
10.0	0.617
11.0	0.746
12.0	0.888

Coil weights, kg (approximate)

- 500
- 1 200
- 2 000

Bar lengths, mm

- 2 400
- 6 000
- 12 000
- 13 000

Hard Drawn Wire

Quality control

Hard Drawn Wire is an affordable wire product created by being drawn through a die. Although it does not undergo any additional tempering or processing, our use of low carbon wire rod and cold rolling reduction increases its hardness, tensile strength and proof stress.

During rolling, we add a deformed pattern onto our hard drawn wire to increase concrete adhesion.

Why choose RMA Hard Drawn Wire?

- Produced to BS4482 standard specifications
- Ultimate tensile strength (UTS) of 510MPa
- Minimum proof stress of 485MPa
- Available in strapped coils or supplied straightened and cut to length

For further information, please contact.

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ACCESSORIES

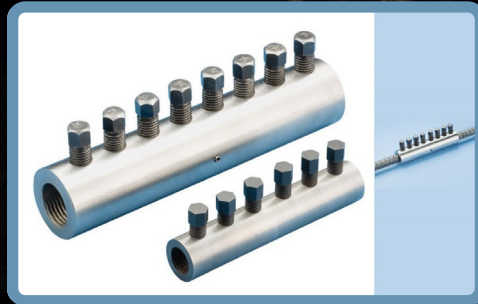
SUNDRY PRODUCTS

Lenton® Couplers & Splicers

Erico Lenton® Couplers are the market-leading solution for mechanically splicing reinforcing bars. RMS is proud to be the brand's SA appointed supplier.

Lenton® Lock Coupler

The Lenton® Lock Coupler is available in South Africa exclusively through RMS. This high-quality, in-situ rebar splice is ideal for both repair and new-build applications. With no bar-end preparation requirement, significant time savings can be achieved.



Standard Specifications

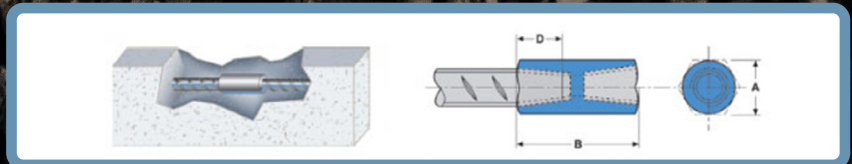
Size, mm	Length (L), mm	O/DIA (d), mm
12	127	29
16	159	35
20	191	41
25	254	54
32	323	65
40	400	80

Advantages of the Lenton® Lock Coupler

- Compact, streamlined design
- Patented gripping technology
- Enables full rebar strength development
- Improved structural integrity
- Suitable for tension, compression, stress-reversal and dynamic applications

Lenton® Taper Threaded Splice

The Erico Lenton® Mechanical Splice is a taper-threaded system that assures a positive locking connection and provides continuity and structural integrity to reinforced concrete constructions.



Advantages of the Lenton® Mechanical Splice

- Acts as continuous lengths of reinforcing steel bar
- Provides 'full strength' in tension, compression and stress reversal applications.

Standard Specifications

Part No	"A" (diam), mm	"B" Length, mm	"D", mm	Weight kg
EL12A12N	6,4	50	19	0.05
EL16A12N	22	61	24	0.10
EL20A12N	27	87	35	0.21
EL25A12N	35	97	40	0.44
EL32A12N	45	108	45	0.78
EL40A12N	55	131	57	1.40



Additional Sundry Products

Binding Wire & Brick Force

Our black annealed binding wire is supplied in coils and is ideal for fixing rebar into position. The annealing heat treatment process reduces the hardness of the wire and increases its ductility. This in turn can help to mitigate internal stresses.

Cover Devices

RMS also supplies rebar and mesh spacers, chairs and cover blocks.

For further information, please contact.

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POST – TENSIONING



Licence holder of VSL Systems

VSL offers construction solutions relating to post-tensioning, retained earth, bridge bearings and heavy lifting using the internationally recognised VSL system.

The parent entity is a Swiss specialist construction company that has developed proprietary post-tensioning and stay-cable systems.



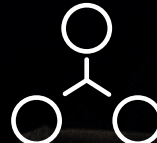
Bonded post-tensioning systems

- Used in heavy civil works, such as bridges, reservoirs, silos etc.
- Allows multiple strands to be used in one duct or sleeve
- Cementitious grout is employed for bonding and protection against corrosion



Advantages of post-tensioning

- Enables greater spans
- Reduces propping time
- Significant cost and time savings
- Applicable to stay cables, external cables and ground anchors using strand or bar systems



Unbonded post-tensioning systems

- Slab and beam applications in reinforced concrete building structures
- Uses single strands contained in plastic sheaths
- Sheaths are cast into concrete and subsequently tensioned



The VSL Construction Solutions offering

- Supply of materials only
- Materials, equipment and training
- Comprehensive supply and installation
- Inhouse design or collaboration with the professional engineer of record

For further information, please contact.

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CONTACT US

WORLD-CLASS SOLUTIONS CLOSER TO HOME

No matter where your construction site is, our nationwide network of branches means that RMS quality products and expert reinforcing advice are always within reach.

W E ' R E H E R E F O R Y O U

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JOIN THE CONVERSATION

