



Your Support & Consolidation Specialists

About us:

MCS is a dynamic, well-established company, with a wide range of Mining and Civil related experience and expertise, with ability to apply our professionalism towards meeting set targets and achieving most requirements.



Graphic Display of how Consolidation works

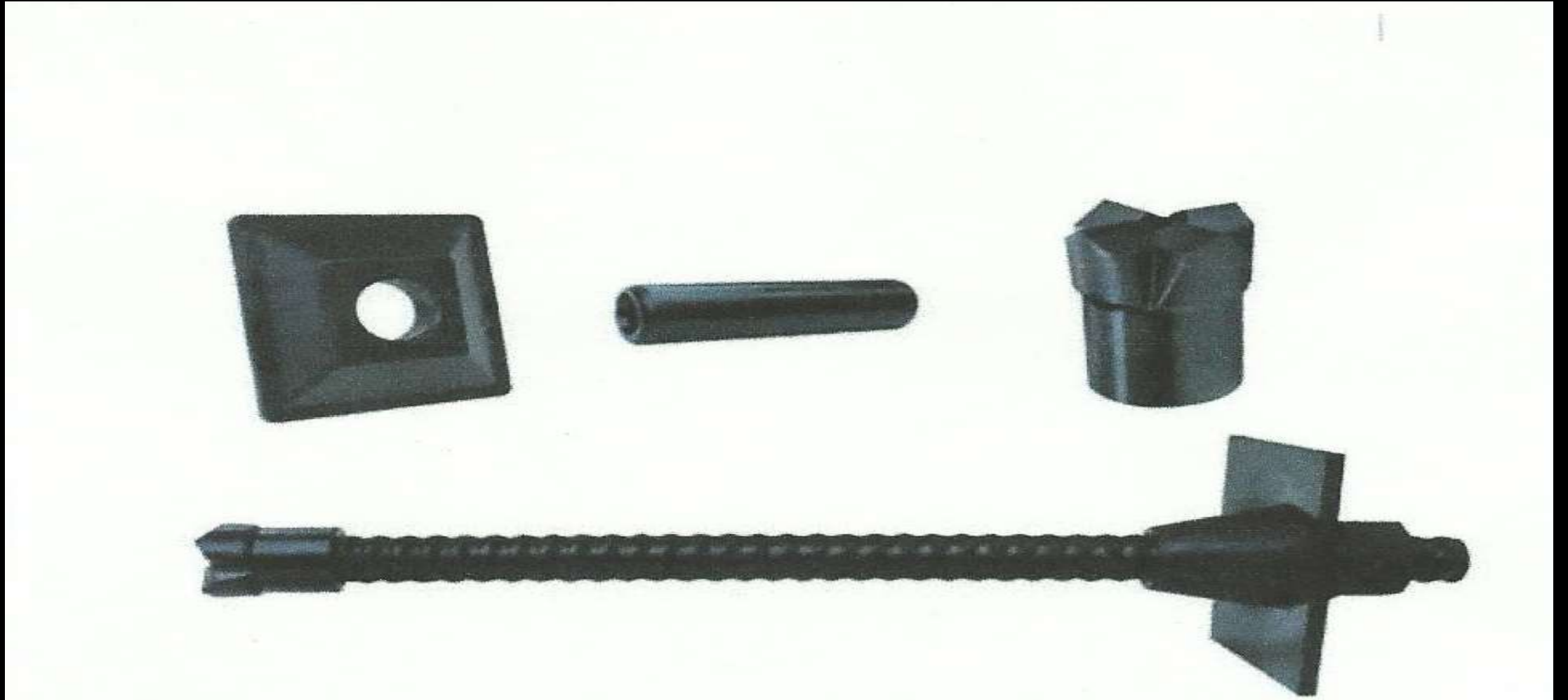


MEYCO
Expanding Horizontal Underground

Graphic Display of how Water Sealing works



SDA Anchors and Accessories



Technical Specifications of SDA's

Bar Size	R25N	R32N	R32S	R38N	R51L	R51N	T76N	T76S
Diameter over threads (mm)	25	32	32	38	51	51	76	76
Effective external diameter of bar (mm)	22.5	29.1	29.1	35.7	47.8	47.8	71	71
Internal diameter of bar ^(a) (mm)	14	18.5	15	19	36	33	52	45
Effective cross sectional ^(a) Area of bar (mm ²)	244	396	488	717	776	939	1835	2400
Ultimate strength (kN)	200	280	360	500	550	800	1600	1900
Yield strength (kN)	150	230	280	400	450	630	1200	1500
Steel Grade Yld/Ult (N/mm ²) ^(b)	660/805	560/720	570/740	540/700	580/690	670/840	660/880	630/790
E Modulus (N/mm ²)	214,200	207,800	212,800	206,600	204,700	214,000	-	-
Weight (kg/m)	2.3	3.4	4.1	6.0	7.0	8.4	15.2	19.7
Thread (left-hand)	ISO 10208				ISO 1720		MAI	
Maximum Drilling Depths ^(c) (m)	12	16	20	24	26	30	36	36

^(a) Figures quoted represent the average internal diameter of the bar

^(b) Based on characteristic steel strengths

^(c) Drilling depths are indicative only and are subject to ground conditions and drilling methods.

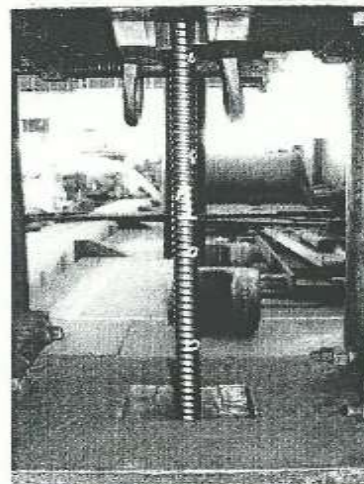


Photo 1: R32S Self drilling anchor installed in the testing machine.

TEST RESULTS

Table 1: Maximum loads for the R32S self drilling anchors

<u>Test No.</u>	<u>Maximum load carried (kN)</u>	<u>Test Comments</u>
1	417.4	The bar fractured in the middle
2	419.7	The bar fractured near the grips portion
3	432.0	The bar fractured near the grips portion

CSIR
Test
reports:

Notice:
ONLY the original signed report must be regarded as the official document.

Testing Officer: 
WILLIAM MARITSELA

Engineer: 
ANDREW PEAKE

Consolidation of Decline



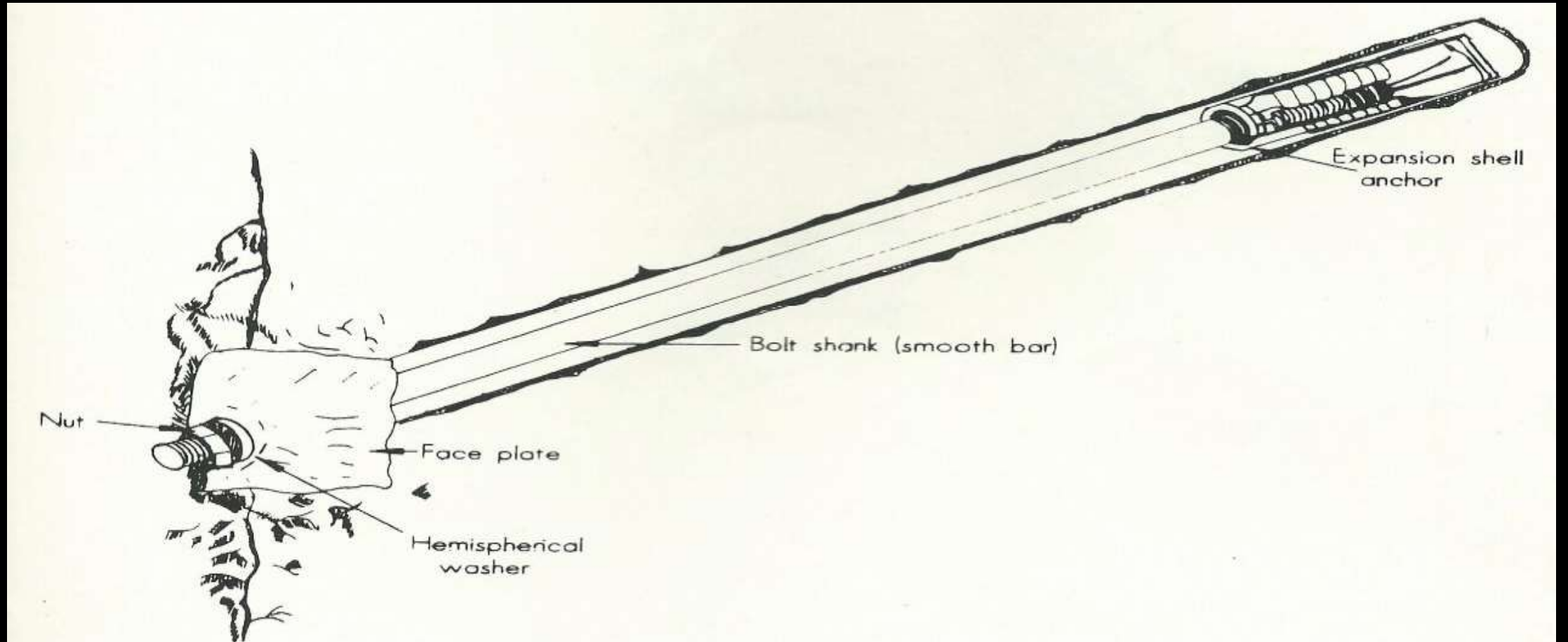
Set Installation and Void Filling



Slope Consolidation



Rockbolt Installation



Manufactures of Void Fill, Wetcrete and TSL Pumps





MARISIMO VERIFICATION AGENCY (PTY) LTD

BEE for Stinging Success!!

B-BBEE Verification Certificate

Level 2 Contributor – 125% Procurement Recognition Level

Company Name	MONEYLINE 1993 CC
Trade Name	MCS MINING, CIVILS AND SUPPLIES
Address	PLOT 25B BECKEDAN TARLTON 1739
Registration Number	2000/019255/23
VAT Number	4100188657
Certificate Number	MVA/Q 203/01/18
Issued Date	10 JANUARY 2013
Expiry Date	09 JANUARY 2014

DETAILS OF BEE STATUS

Black Ownership	0%
Black Female Ownership	0%
Value Adding Supplier	YES
Applicable Scorecard	QUALIFYING SMALL ENTERPRISE
Applicable BEE Code	B-BBEE CODES OF GOOD PRACTICE

EMPLOYMENT EQUITY	18.70
PREFERENTIAL PROCUREMENT	20.85
ENTERPRISE DEVELOPMENT	25
SOCIO ECONOMIC DEVELOPMENT	25

Technical Signatory
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B-BBEE Certificate