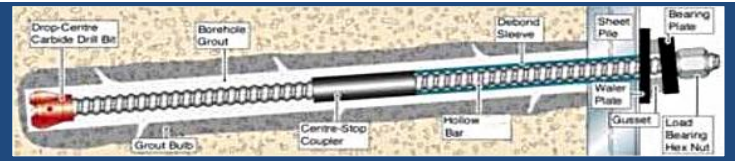


# R25N SELF DRILLING ANCHOR SYSTEMS



## ANCHOR ROD R25N

	Outside Diameter	Average Internal Diameter	Effective External Diameter	Average Effective Cross Sectional Area	Ultimate Load Capacity	Yield Load Capacity	Average Tensile Strength Rm	Average Yield Strength Rp0,2	Weight
	mm	mm	mm	mm <sup>2</sup>	kN	kN	N/mm <sup>2</sup>	N/mm <sup>2</sup>	Kg/m
<b>R25N</b>	25	14	23	244	200	150	805	660	2.40
<b>Thread Type</b>	ISO 10208								
<b>Delivery Lengths</b>	1m, 1.5 m, 2m, 2.5m, 3m, 3.5m, 4m, 4.5m, 5m, 5.5m, 6m								

## ANCHOR COUPLING R25

Thread Type	Diameter	Length mm	Weight	Remark
<b>R25N</b>	34	150	0.58	Machined steel coupler with patented middle stop and sealing.

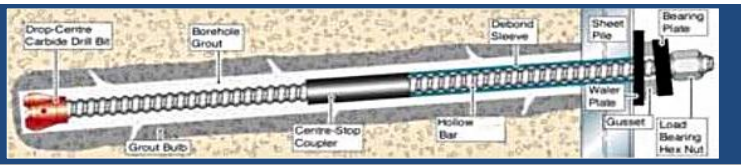
## NUT R25

Thread Type	Key Size	Length mm	Weight
<b>R25</b>	41	35	0.2

## DRILLING BIT R25

Thread Type	Description	Size	Weight kg/pc	Type	Remark	
<b>R25</b>	Cast Cross Bit	R25/42 mm/X	0.35	X	Cast cross bit for sand and gravel.	
		R25/51 mm/X	0.38			
	Steel Cross Bit	R25/42 mm/EX	0.30	EX	Hardened cross bit for loose to medium dense conditions with small boulders.	
		R25/51 mm/EX	0.40			
	TC Cross Bit	R25/42 mm/EXX	0.35	EXX	Cross bit for soft to medium rock formations.	
		R25/51 mm/EXX	0.45			
				X Type	EX Type	EXX Type

# R32N & R32S SELF DRILLING ANCHOR SYSTEMS












ANCHOR ROD R32N & R32S									
	Outside Diameter	Average Internal Diameter	Effective External Diameter	Average Effective Cross Sectional Area	Ultimate Load Capacity	Yield Load Capacity	Average Tensile Strength Rm	Average Yield Strength Rp0,2	Weight
	mm	mm	mm	mm <sup>2</sup>	kN	kN	N/mm <sup>2</sup>	N/mm <sup>2</sup>	Kg/m
<b>R32N</b>	32	20.0	29.1	396	280	230	720	560	3.4
<b>R32S</b>	32	16.0	29.1	488	360	280	740	570	4.0
<b>Thread Type</b>	ISO 10208								
<b>Delivery Lengths</b>	1m, 1.5 m, 2m, 2.5m, 3m, 3.5m, 4m, 4.5m, 5m, 5.5m, 6m								

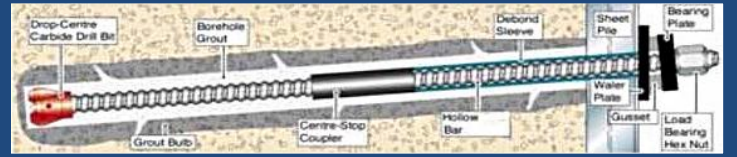
ANCHOR COUPLING R32				
Thread Type	Diameter mm	Length mm	Weight kg/pc	Remark
<b>R32N &amp; R32S</b>	41	160	0.68	Machined steel coupler with patented middle stop and sealing.

NUT R32				
Thread Type	Key Size mm	Length mm	Weight kg/pc	
<b>R32N &amp; R32S</b>	46	45	0.30	

DRILLING BIT R32					
Thread Type	Description	Size	Weight kg/pc	Type	Remark
<b>R32</b>	Cast Cross Bit	R32/51 mm/X	0.45	X	Cast cross bit for sand and gravel.
	Steel Cross Bit	R32/51 mm/EX	0.40	EX	
		R32/76 mm/EX	1.30		Hardened steel bit for loose to medium dense ground conditions.
	Steel 3 Cutter Bit	R32/76 mm/EY	1.20	EY	
	TC Cross Bit	R32/51 mm/EXX	0.45	EXX	TC insert bit for soft to medium rock formations.
	TC 3 Cutter Bit	R32/76 mm/EYY	1.05	EYY	
	Steel Arched Bit	R32/51 mm/EC	0.45	EC	Hardened arched bit for optimized geometry for unconsolidated soil w/ small boulders.
<b>Drilling Bit R32 Cont'd...</b>					

<b>R32</b>	Description		Size	Weight <i>kg/pc</i>	Type	Remark			
	TC Arched Bit		R32/51 mm/ECC	0.45	ECC	TC arched bit for optimized geometry for soft to medium rock formations.			
	Steel Button Bit		R32/51 mm/ES	0.60	ES	Hardened button bit for unconsolidated.			
	TC Button Bit		R32/51 mm/ESS	0.65	ESS	TC insert button bit for medium rock formation.			
									
X Type		EX Type	EXX Type	EY Type	EYY Type	EC Type	ES Type	ESS Type	Driving Head

## R38N SELF DRILLING ANCHOR SYSTEMS










ANCHOR ROD R38N									
	Outside Diameter	Average Internal Diameter	Effective External Diameter	Average Effective Cross Sectional Area	Ultimate Load Capacity	Yield Load Capacity	Average Tensile Strength Rm	Average Yield Strength Rp0,2	Weight
	mm	mm	mm	mm <sup>2</sup>	kN	kN	N/mm <sup>2</sup>	N/mm <sup>2</sup>	Kg/m
<b>R38N</b>	38	19.0	35.7	717	500	400	700	540	6.5
<b>Thread Type</b>	ISO 10208								
<b>Delivery Lengths</b>	1m, 1.5 m, 2m, 2.5m, 3m, 3.5m, 4m, 4.5m, 5m, 5.5m, 6m								

ANCHOR COUPLING R38N				
Thread Type	Diameter mm	Length mm	Weight kg/pc	Remark
<b>R38N</b>	51	220	1.7	Machined steel coupler with patented middle stop and sealing.

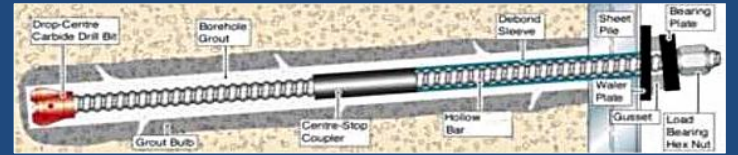
NUT R38N				
Thread Type	Key Size mm	Length mm	Weight kg/pc	
<b>R38N</b>	50	60	0.5	

DRILLING BIT R38N					
Thread Type	Description	Size	Weight kg/pc	Type	Remark
<b>R38N</b>	Steel Cross Bit	R38/76 mm/EX	1.20	EX	Hardened cross bit for loose to medium R38/90 mm/EX dense conditions with small boulders.
		R38/90 mm/EX	1.40		
	Steel Arched Bit	R38/76 mm/EC	1.20	EC	Hardened arched bit for optimized geometry for unconsolidated soil w/ small boulders.
	TC Arched Bit	R38/115 mm/ECC	2.85	ECC	TC arched bit for optimized geometry for soft to medium rock formations.
	TC Cross Bit	R38/76 mm/EXX	1.25	EXX	TC cross bit for soft to medium rock formations.
		R38/90 mm/EXX	1.45		
	TC 3 Cutter Bit	R38/76 mm/EYY	0.85	EYY	TC insert bit for soft to medium rock formations.
Steel Button Bit	R38/76 mm/ES	1.00	ES	Hardened button bit for unconsolidated rock with boulders.	

R38N Cont'd...

Description	Size	Weight <i>kg/pc</i>	Type	Remark			
TC Button Bit	R38/76 mm/ESS	1.00	ESS	TC insert button bit for medium rock formations.			
	R38/115 mm/ESS	1.30					
							
EX Type	EXX Type	EY Type	EYY Type	EC Type	ES Type	ESS Type	

# R51L & R51N SELF DRILLING ANCHOR SYSTEMS







ANCHOR ROD R51L & R51N									
	Outside Diameter	Average Internal Diameter	Effective External Diameter	Average Effective Cross Sectional Area	Ultimate Load Capacity	Yield Load Capacity	Average Tensile Strength Rm	Average Yield Strength Rp0,2	Weight
	mm	mm	mm	mm <sup>2</sup>	kN	kN	N/mm <sup>2</sup>	N/mm <sup>2</sup>	Kg/m
<b>R51L</b>	51	36.0	47.8	776	550	450	690	580	7.5
<b>R51N</b>	51	33.0	47.8	939	800	630	840	670	8.5
<b>Thread Type</b>	ISO 1720								
<b>Delivery Lengths</b>	1m, 1.5 m, 2m, 2.5m, 3m, 3.5m, 4m, 4.5m, 5m, 5.5m, 6m								

ANCHOR COUPLING R51L & R51N				
Thread Type	Diameter mm	Length mm	Weight kg/pc	Remark
<b>R51L</b>	64	140	1.2	Machined steel coupler with patented middle stop and sealing.
<b>R51N</b>	64	200	2.0	Machined steel coupler with patented middle stop.

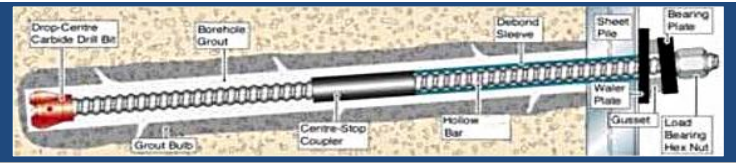
NUT R51				
Thread Type	Key Size mm	Length mm	Weight kg/pc	
<b>R51L &amp; R51N</b>	75	70	1.6	

DRILLING BIT R51					
Thread Type	Description	Size	Weight kg/pc	Type	Remark
<b>R51</b>	Steel Cross Bit	R51/85 mm/EX	1.30	EX	Hardened cross bit for loose to medium dense conditions w/ small boulders.
	TC Cross Bit	R51/115 mm/EXX	1.80	EXX	TC cross bit for soft to medium rock formations.
	Steel Button Bit	R51/100 mm/ES	1.85	ES	Hardened button bit for unconsolidated rock with boulders.
		R51/115 mm/ES	2.00		

R51L & R51N Cont'd...

R51	Description	Size	Weight <i>kg/pc</i>	Type	Remark			
	TC Button Bit	R51/100 mm/ESS	1.85	ESS	TC insert button bit for medium rock formations.			
	R51/115 mm/ESS	2.00						
								
					EX Type	EXX Type	ES Type	ESS Type

# T76N & T76S SELF DRILLING ANCHOR SYSTEMS



ANCHOR ROD T76N & T76S									
	Outside Diameter	Average Internal Diameter	Effective External Diameter	Average Effective Cross Sectional Area	Ultimate Load Capacity	Yield Load Capacity	Average Tensile Strength Rm	Average Yield Strength Rp0,2	Weight
	mm	mm	mm	mm <sup>2</sup>	kN	kN	N/mm <sup>2</sup>	N/mm <sup>2</sup>	Kg/m
<b>T76N</b>	76	51.0	46.0	1835	1600	1200	880	630	15.0
<b>T76S</b>	76	45.0	46.0	2400	1900	1500	790	630	19.7
<b>Thread Type</b>	T76								
<b>Delivery Lengths</b>	1m, 1.5 m, 2m, 2.5m, 3m, 3.5m, 4m, 4.5m, 5m, 5.5m, 6m								

ANCHOR COUPLING T76N & T76S				
Thread Type	Diameter mm	Length mm	Weight kg/pc	Remark
<b>T76N</b>	95	200	6.4	Machined steel coupler with patented middle stop.
<b>T76S</b>	95	200	6.4	

NUT T76				
Thread Type	Key Size mm	Length mm	Weight kg/pc	
<b>T76N &amp; T76S</b>	80	100	3.6	

DRILLING BIT T76					
Thread Type	Description	Size	Weight kg/pc	Type	Remark
<b>T76</b>	Steel Cross Bit	T76/D130 mm/EX	1.30	EX	Hardened cross bit for loose to medium dense conditions w/ small boulders.
	TC Cross Bit	T76/D130 mm/EXX	1.30	EXX	TC cross bit for soft to medium rock formations.
	Steel Button Bit	T76/D100 mm/ES-F	1.85	ES-F	Hardened button bit for unconsolidated rock with boulders.
		T76/D115 mm/ES-F	2.00		
	TC Button Bit	T76/D100 mm/ESS-F	1.85	ESS-F	TC insert button bit for medium rock formations.
		T76/D115 mm/ESS-F	2.00		
<b>PLEASE NOTE: SAME TYPES AS SHOWN IN DIAGRAM ABOVE. (EX, EXX, ES, ESS)</b>					

## T THREAD SELF DRILLING ANCHOR SYSTEMS



### TECHNICAL DATA

Bar Type	Outside Diameter	Inside Diameter	Cross Section mm <sup>2</sup>	Ultimate Load kN	Yield Point kN	Weight kg	Thread left/right Hand
<b>30/11</b>	30	11	446	320	260	3.3	Left
<b>30/14</b>	30	14	395	260	220	2.9	Left
<b>30/16</b>	30	16	382	220	180	2.7	Left
<b>40/16</b>	40	16	879	660	525	7.0	Left
<b>40/20</b>	40	20	726	539	430	5.6	Left
<b>52/26</b>	52	26	1337	929	730	10.0	Left or Right
<b>73/53</b>	73	53	1160	1630	970	12.3	Left
<b>73/56</b>	73	56	1094	1414	785	11.1	Left
<b>73/45</b>	73	45	2265	1630	1180	17.8	Left
<b>103/78</b>	103	78	3146	2282	1800	24.9	Left
<b>103/51</b>	103	51	5501	3460	2750	43.4	Left
<b>130/60</b>	130	60	9540	7940	5250	75.0	Left

### DRILLING BITS

<b>Soft Soil</b>	Casting clay bits 75 mm to 280 mm	
<b>Medium Rock</b>	Button drill bits 42 mm to 200 mm Cross drill bits 42 mm to 200 mm	
<b>Hard Rock</b>	Carbide button bits 42mm to 200mm Carbide Cross bits 42mm to 200mm	