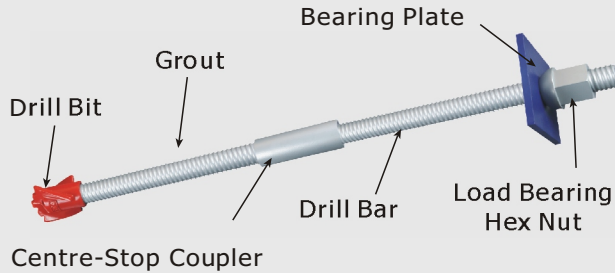


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## SEA R38N Self Drilling Anchor Systems



### ANCHOR ROD R38N

	Outside diameter	Average internal diameter	Effective external diameter	Aver. eff. 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	mm <sup>2</sup>	N/mm <sup>2</sup>	kg/m
R38N	38	19.0	35.7	717	500	400	700	540	6.5
Thread type	ISO 10208								
Delivery lengths	1m, 1.5m, 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
R38N	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	
R38N	50	60	0.5	

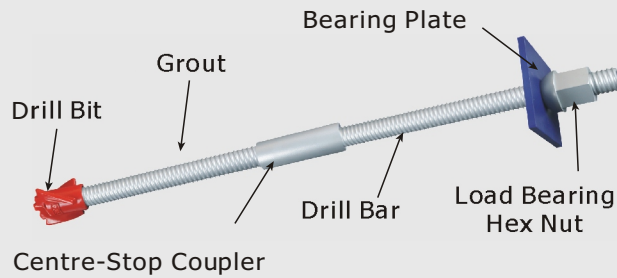
### DRILLING BIT R38N

Thread type	Description	Size	Weight Kg/pc	Type	Remark
R38N	Steel cross bit	R38/76 mm/EX	1.20	EX	Hardened cross bit for loose to medium 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 with 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.
TC button bit	R38/76 mm/ESS	1.00	ESS	TC insert button bit for medium rock Formations.	
	R38/115 mm/ESS	1.30			

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## SEA R51L & R51N Self Drilling Anchor Systems



### ANCHOR ROD R51L & R51N

	Outside diameter	Average internal diameter	Effective external diameter	Aver. eff. 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	mm <sup>2</sup>	N/mm <sup>2</sup>	kg/m
R51L	51	36.0	47.8	776	550	450	690	580	7.8
R51N	51	33.0	47.8	939	800	630	840	670	9.8
Thread type	ISO 1720								
Delivery lengths	1m, 1.5m, 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
R51L	64	140	1.2	Machined steel coupler with patented middle stop and sealing.
R51N	64	200	2.0	Machined steel coupler with patented middle stop.

### NUT R51L & R51N

Thread type	Key size mm	Length mm	Weight Kg/pc	
R51L & R51N	75	70	1.6	

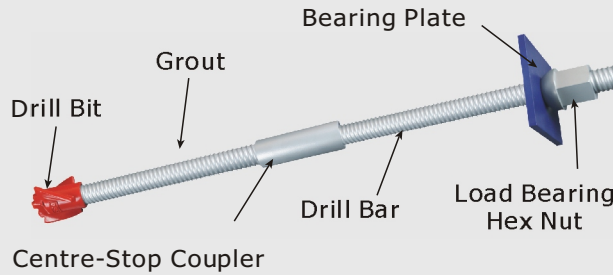
### DRILLING BIT R51L & R51N

Thread type	Description	Size	Weight Kg/pc	Type	Remark
R51L & R51N	Steel cross bit	R51/85 mm/EX	1.30	EX	Hardened cross bit for loose to medium dense conditions with 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		
	TC button bit	R51/100 mm/ESS	1.85	ESS	TC insert button bit for medium rock Formations.
R51/115 mm/ESS		2.00			

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## SEA R32N & R32S Self Drilling Anchor Systems



### ANCHOR ROD R32N & R32S

	Outside diameter	Average internal diameter	Effective external diameter	Aver. eff. 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
R32N	32	18.5	29.1	396	280	230	720	560	3.6
R32S	32	15.0	29.1	488	360	280	740	570	4.1
Thread type	ISO 10208								
Delivery lengths	1m, 1.5m, 2m, 2.5m, 3m, 3.5m, 4m, 4.5m, 5m, 5.5m, 6m								

### ANCHOR COUPLING R32N & R32S

Thread type	diameter mm	Length mm	Weight Kg/pc	Remark
R32N & R32S	41	160	0.68	Machined steel coupler with patented middle stop and sealing.

### NUT R32N & R32S

Thread type	Key size mm	Length mm	Weight Kg/pc	Remark
R32N & R32S	46	45	0.30	

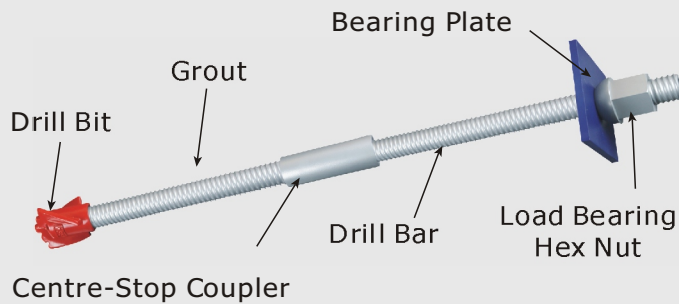
### DRILLING BIT R32N & R32S

Thread type	Description	Size	Weight Kg/pc	Type	Remark
R32N & R32S	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	Hardened steel bit for loose to medium dense ground conditions.
		R32/76 mm/EX	1.30		
	Steel 3 cutter bit	R32/76 mm/EY	1.20	EY	
	TC cross bit	R32/51 mm/EXX	0.45	EC	TC insert button bit for medium rock Formations.
	TC 3 cutter bit	R32/76 mm/EYY	1.30	EYY	
	Steel arched bit	R32/51 mm/EC	0.45	EC	Hardened arched bit for optimized geometry for unconsolidated soil with small boulders.
	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 rock with boulders.
TC button bit	R32/51 mm/ESS	0.65	ESS	TC insert button bit for medium rock Formations.	

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## SEA R25N Self Drilling Anchor Systems



### ANCHOR ROD R25N

	Outside diameter	Average internal diameter	Effective external diameter	Aver. eff. 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
R25N	25	14	23	244	210	150	805	660	2.40
Thread type	ISO 10208								
Delivery lengths	1m, 1.5m, 2m, 2.5m, 3m, 3.5m, 4m, 4.5m, 5m, 5.5m, 6m								

### ANCHOR COUPLING R25N

Thread type	diameter mm	Length mm	Weight Kg/pc	Remark
R25N	34	150	0.58	Machined steel coupler with patented middle stop and sealing.

### NUT R25N

Thread type	Key size mm	Length mm	Weight Kg/pc	
R25N	41	35	0.2	

### DRILLING BIT R25N

Thread type	Description	Size	Weight Kg/pc	Type	Remark
R25N	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	TC cross bit for soft to medium rock formations.
		R25/51 mm/EXX	0.45		