



**REGNUM CONSTRUCTION**

"Construction Technology Solutions"

# Who are we?

Regnum Construction® is the participation of Regnum Networks ([www.regnumnetworks.com](http://www.regnumnetworks.com)) which is an expert company in the field of telecommunication of the USA origin. Regnum Construction® is a construction company which presents engineering solutions to the construction sector in the manufacturing and servicing fields. Regnum is particularly specialized in rebar coupler, rebar connections, anchorages, ground equipment, and technological construction elements. Having expert engineers and technicians within the scope of its own field, Regnum presents the engineering solutions to the construction sector with the conception of continuous improvement and high quality.

## Quality

All Regnum equipment are designed and manufactured according to the installation and work in the factory and site. The machines have CE and related certificates and are used by the expert technicians to give high quality service. In the required projects, the fast installation is made in the site, and the anchorage and coupler service is given in-place.

### WHY ARE THE REBAR EDGES HEADED?

Regnum couplers provide the standards of ASTM A706, ASTM A615, ASTM A996, TS708, BS8110, BS4449, ISO 15835 S2, ACI 318, BS8110, ISO 15835 S-1/S-2, TS500.



**REGNUM CONSTRUCTION**  
"Constructing Technology Solutions"

The rebar is not appropriate steel bars for gear-opening with the ribs out of standards as its structure. Regnum provides service opportunity to the rebar in the cold-headed parallel gear system processes which are the main techniques accepted in the international area.

## Barcoup

It is the cold-headed parallel gear rebar coupler which has high strength gear inside. In this technique, gear is chased on the both sides of the rebar in the half size of the coupler height and the rebar is screwed and mounted. The coupler is mounted on the short gear side and the necessary plastic protective accessories can be used according to the demands.

- System Detail:
- 2 rebars with short gear
  - 1 plastic protecting cover
  - 1 coupler

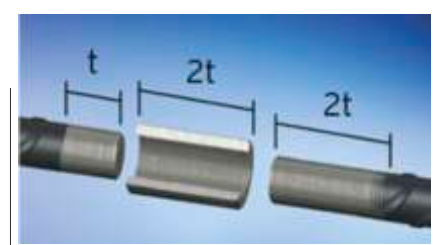


## Barcoup L

It is the cold-headed parallel gear rebar coupler which has high strength gear inside. In this technique, gear is chased on the both sides of the rebar in the half size of the coupler height and the gears are protected by the plastic accessory. The gear is chased to the opposite-side rebar in the whole height of the coupler and the coupler is mounted on the rebar.

These rebar which will be connected are put together in site for mounting and the mounting is completed only by sliding the coupler by hand from right to left (with no need for extra torque wrench and controlling device). In this system, %50 %50 montage is provided on the rebar without any need for extra controlling by preventing the potential incomplete mounting problem in site.

- System Detail:
- 1 rebar with short gear
  - 1 rebar with long gear
  - 1 plastic protecting cover
  - 1 coupler



# REBAR COUPLERS

## Barcoup P

It is used in the finishing point with square where the continuing rebar is not screwed. In addition to the barlong system, the long gear side of the rebar is chased as long as 1 lock nut. With this technique, the incomplete gear system mounting problem is overcome which is especially caused by hanging the square on air in the beams and screwing the rebar.

- 1 rebar with short gear
- 1 rebar with long gear
- 1 plastic protecting cover
- 1 nut
- 1 coupler



## Barcoup Sos

It is used with the aim of modification and elongation in the areas where the rebar does not allow overlapping and there are short connecting rods. The short connecting rods are elongated to the overlapping or floor distance with the Barsos coupler and the construction continuity is provided. This system includes a locking system of which know-how is specially made different from the gear system. The rebars and the bolts which are specially manufactured for this system are put end-to-end and screwed until the head part is broken, and the mounting is completed.

1 barsos coupler



## Barcoup W

It is a type of coupler which is designed for the projects where the steel and reinforced concrete are mixed. One side of the coupler is in the shape of opened face for welding and the other side of the coupler is in the shape of heading gear system. The transition from the steel to the reinforced concrete is provided via a coupler with this technique. The coupler is welded to the steel area in using this coupler. Cold-heading gear is screwed to the rebar coupler and the mounting is completed.

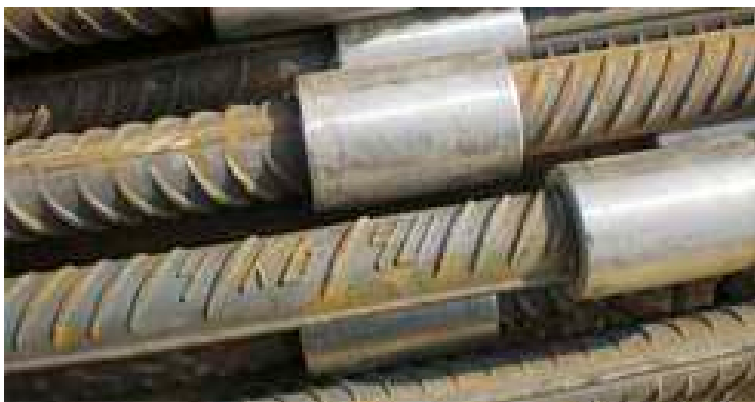
- 1 rebar with short gear
- 1 plastic protective plug
- 1 coupler



## Barcoup T

It is the transition / reduction coupler of the Barcoup system. The rebars especially in the high-rise constructions make transitions from large to small diameter statically. This type of coupler is used in the rebars where the transition is made. For example, in the Q32/Q25 transition coupler, the gear is chased on one side of the rebar according to the heading parallel gear system for Q32 and on the other side of the rebar according to the heading parallel gear system for Q25. The rebar is screwed with a specially-designed coupler and the mounting is completed.

- 1 rebar with short gear - Large diameter
- 1 rebar with short gear - Small diameter
- 1 plastic protective plug
- 1 reduction coupler



## Headcoup

The parallel gear rebar anchorage head provides opportunity to make more simple and effective anchorage in alternative to the traditional rebar anchorage elements in the concrete like square. It is preferably used in the narrow areas which do not provide opportunity to overlapping in the starting and finishing points of the buildings and underground railway constructions. It renounces from the material and labor losses caused by angulations. Therefore, the site required for the pouring of concrete and vibration is increased; the consolidation capacity of the concrete is developed, the concrete placement cost is decreased and the quality of in-place pouring of concrete is increased.

• 1 rebar with short gear

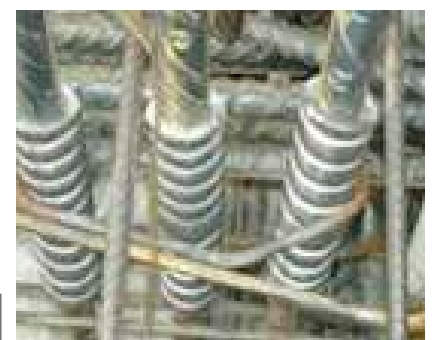
• 1 plastic protective plug

• 1 barlock coupler



## Prescoup

It is a modification coupler and it is applied by pressing without chasing gear in the site with the Regnum specially-manufactured portable presses in the places where the rebar connecting rod length is short and there is no rebar overlapping distance



It is the connection of the steel rebar in the concrete of the reinforced concrete constructions. Regnum presents optimum solutions by carrying out the demanded anchorage threading in-place with the high technological mobile equipment sent to your site with no extra rebar logistic cost.

## Anchorage

*It is the connection of steel rebar into the concrete in the reinforced concrete construction. The covering is connected to the ground with anchorage bars (generally steel bars) on regular basis to keep the facade lining in the piles. It is the process of fixing the unstable soil to a more durable part behind it (sometimes to the durable soil behind it, sometimes to the available soil by trusting only the friction of the anchorage or to the reinforced concrete pile which is piled / poured on the back side before) in order to prevent the potential landslide.*

*Regnum presents optimum solutions by carrying out the demanded anchorage threading in-place with the high technological mobile equipment sent to your site with no extra rebar logistic cost.*



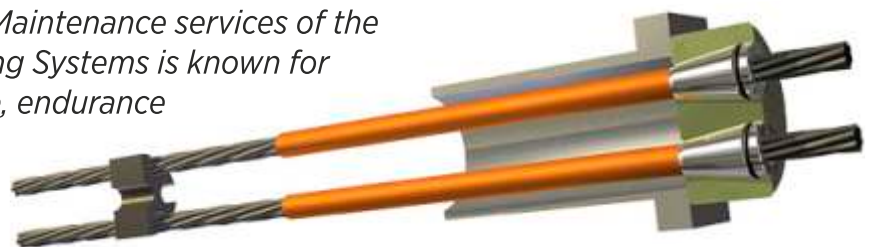
R6J Grade 60 Solid Rebar - ASTM A615

Bar Designation & Nominal Diameter	Minimum Net Area Thru Threads	Minimum Ultimate Strength	Minimum Yield Strength	Nominal Weight	Approx. Thread Major Dia.	Part Number
#4 - 1/2" - 13 UNC (12 mm)	0.142 in <sup>2</sup> (91 mm <sup>2</sup> )	13 kips (56 kN)	8.5 kips (37.7 kN)	0.67 lbs./ft. (1.05 Kg/M)	1/2" (13 mm)	R6J-04
#5 - 5/8" - 11 UNC (16 mm)	0.226 in <sup>2</sup> (145 mm <sup>2</sup> )	20 kips (90 kN)	13 kips (57.7 kN)	1.04 lbs./ft. (1.55 Kg/M)	5/8" (16 mm)	R6J-05
#6 - 3/4" - 10 UNC (20 mm)	0.334 in <sup>2</sup> (215 mm <sup>2</sup> )	30 kips (133 kN)	20 kips (88.9 kN)	1.50 lbs./ft. (2.24 Kg/M)	3/4" (20 mm)	R6J-06
#7 - 7/8" - 9 UNC (22 mm)	0.462 in <sup>2</sup> (298 mm <sup>2</sup> )	42 kips (184 kN)	27 kips (120 kN)	2.04 lbs./ft. (3.04 Kg/M)	7/8" (22 mm)	R6J-07
#8 - 1" - 8 UNC (25 mm)	0.606 in <sup>2</sup> (391 mm <sup>2</sup> )	55 kips (242 kN)	36 kips (160 kN)	2.67 lbs./ft. (3.97 Kg/M)	1" (25 mm)	R6J-08
#9 - 1-1/8" - 7 UNC (28 mm)	0.763 in <sup>2</sup> (492 mm <sup>2</sup> )	69 kips (305 kN)	45 kips (200 kN)	3.40 lbs./ft. (5.06 Kg/M)	1-1/8" (28 mm)	R6J-09
#10 - 1-1/4" - 7 UNC (32 mm)	0.969 in <sup>2</sup> (625 mm <sup>2</sup> )	87 kips (389 kN)	58 kips (258 kN)	4.30 lbs./ft. (6.40 Kg/M)	1-1/4" (32 mm)	R6J-10
#11 - 1-3/8" - 8 UN (35 mm)	1.23 in <sup>2</sup> (795 mm <sup>2</sup> )	111 kips (493 kN)	73 kips (325 kN)	5.31 lbs./ft. (7.91 Kg/M)	1-3/8" (35 mm)	R6J-11
#14 - 1-3/4" - 5 UNC (45 mm)	1.90 in <sup>2</sup> (1225 mm <sup>2</sup> )	171 kips (761 kN)	114 kips (507 kN)	7.65 lbs./ft. (11.4 Kg/M)	1-3/4" (45 mm)	R6J-14

## Pre-stressing Anchorage Systems

*Regnum is used for years for multi-ribbon Pre-stressing Systems, bridges, buildings and tanks requiring engineering rebar and support elements and many other constructions. Regnum provides Design and Developing, Engineering, Production and Supply, Installation or Training and / or Installation Supervision, Inspection and Maintenance services of the Pre-stressing systems. Regnum Pre-stressing Systems is known for the outstanding load-carrying performance, endurance and simple design. Regnum Pre-stressing Systems contribute to buildings to be long-lasting significantly with the high quality corrosion protection techniques.*

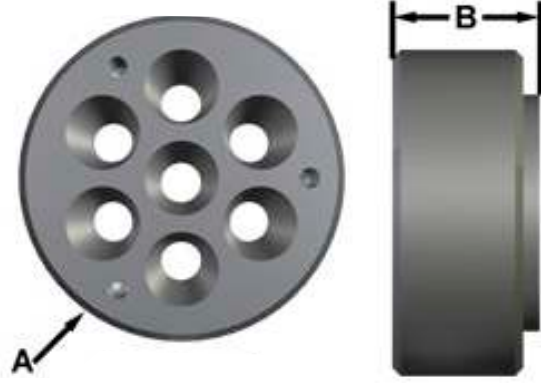
*Regnum is used in a wide range of sides as the anchorage and pile systems and related product lines and of geotechnical applications as the pile stabilization.*



## Anchorage Cover / Head

The anchorage cover / head used in the pre-stressing anchorages; this part which works with this head plate enables to transfer the pre-stressing force into the sheathing surface.

Type	A Diameter	B Thickness	Part Number
C 4.6	5" (127 mm)	2" (51 mm)	RSAH04W
C 7.6	5" (127 mm)	2" (51 mm)	RSAH07W
C 12.6	7-3/8" (187 mm)	3-3/8" (86 mm)	RSAH12S
C 19.6	8-1/4" (210 mm)	4" (102 mm)	RSAH19S
C 22.6	9" (229 mm)	4-1/8" (105 mm)	RSAH22
C 27.6	10" (254 mm)	4-1/2" (114 mm)	RSAH27
C 31.6	10-3/4" (273 mm)	4-7/8" (122 mm)	RSAH31



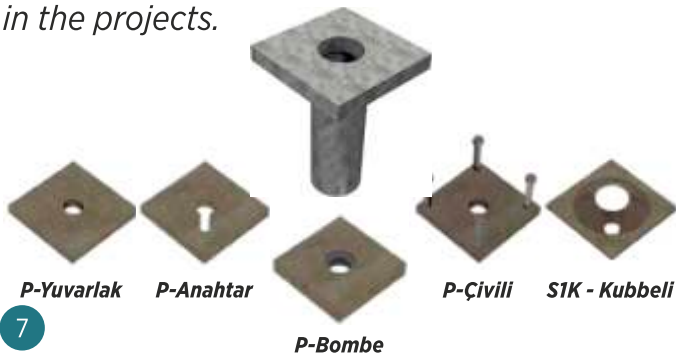
## Anchorage Grips

The diameter and number of tendon material, the size of load distribution plate, the diameter and hole number of anchorage head, the number of anchorage wedges are calculated according to the anchorage loads in accordance with the project. You can supply the anchorage heads in Regnum brand in any height and diameter from our stocks. The anchorage heads and grips are designed according to the type and number of spiral steel ropes which make tendon. The gear clamps-wedges (grip) are used to fix the cover plates of the anchorage tendon.

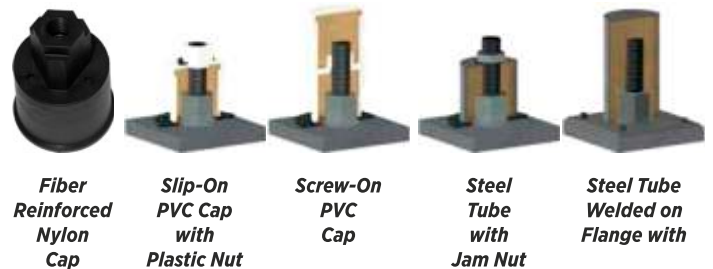


## Plates

Regnum manufactures the plates in requested sizes according the measurements and demands in the projects.



### Koruyucu Şapkalar



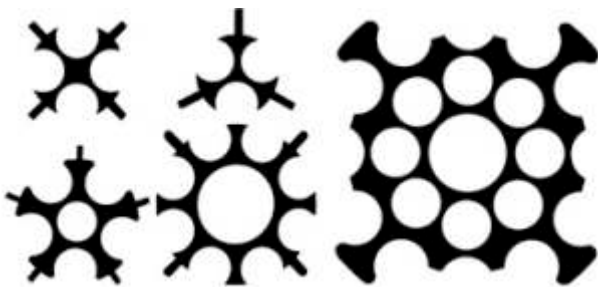


Regnum anchorage plates may be prepared in accordance with the demands and needs as a special production as well as the standard drilled holes. In addition, the plates may be manufactured from the stainless steel according to the demands for the projects including the sensitivity to corrosion. Regnum suggest the protective caps appropriate for your Project to protect the plates and gears.

Anchor Head Class 1 & 2	Trumpet Class 1		Bearing Plate Center Hole Head Clearance Class 1 & 2
	O.D.	I.D.	
C 4.6	4-1/2" (114 mm)	4" (102 mm)	3-1/2" (89 mm)
C 7.6			3-3/4" (95 mm)
C 12.6	6-5/8" (168 mm)	6" (152 mm)	5-3/8" (137 mm)
C 19.6	7-5/8" (194 mm)	7-1/8" (181 mm)	6-1/2" (165 mm)
C 22.6	8-5/8" (219 mm)	7-7/8" (200 mm)	7-1/2" (191 mm)
C 27.6			8" (203 mm)
C 31.6	10-3/4" (273 mm)	10" (254 mm)	8-1/2" (216 mm)

## Protective Accessories

They are the auxiliary protective accessories to take measures against the oxidation and to protect the gears and delivered products. The product sliding is prevented by laying them in the center of the stud.



Steel Protective Caps:

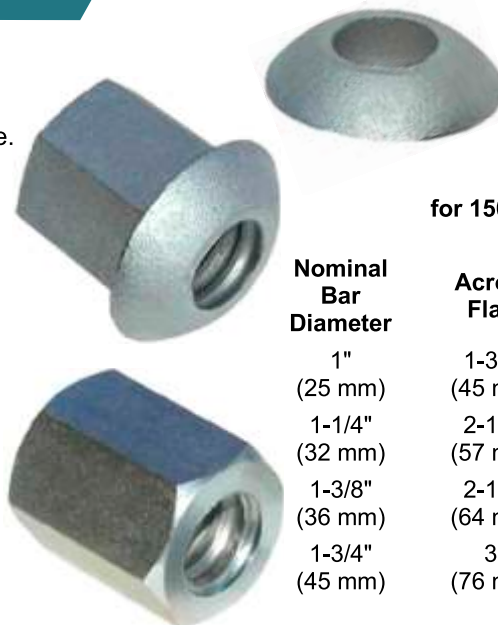
Type	Width	Height
C 4.6	8" (203 mm)	4-5/8" (117 mm)
C 7.6		
C 12.6	10" (254 mm)	5-3/8" (133 mm)
C 19.6	12" (194 mm)	6"
C 22.6		
C 27.6	14" (356 mm)	7-7/8"
C 31.6		

## Nuts

### Spherical Hex Nuts & Washers

Provides up to 5° angle when used with a dished plate.

R88 Spherical Hex Nut for 150 KSI All-Thread-Bar ASTM A536				
Nominal Bar Diameter	Across Flats	Thickness	Outside Dome	Part Number
1" (25 mm)	1-3/4" (45 mm)	2-1/4" (57 mm)	2-1/2" (64 mm)	R88-08
1-1/4" (32 mm)	2-1/4" (57 mm)	2-3/4" (70 mm)	3-1/8" (81 mm)	R88-10
1-3/8" (36 mm)	2-1/2" (64 mm)	3-1/4" (83 mm)	3-5/8" (92 mm)	R88-11
1-3/4" (46 mm)	3" (76 mm)	3-1/2" (89 mm)	4" (101 mm)	R88-14



R73 Hex Nut for 150 KSI All-Thread-Bar ASTM A29			
Nominal Bar Diameter	Across Flats	Thickness	Part Number
1" (25 mm)	1-3/4" (45 mm)	2" (51 mm)	R73-08
1-1/4" (32 mm)	2-1/4" (57 mm)	2-1/2" (64 mm)	R73-10
1-3/8" (36 mm)	2-1/2" (64 mm)	2-3/4" (70 mm)	R73-11
1-3/4" (45 mm)	3" (76 mm)	3-1/2" (89 mm)	R73-14

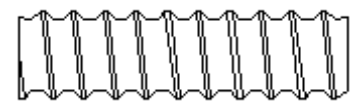
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## METRIC CONNECTOR, METRIC ROD and STUDS

Regnum manufactures connector and rod in any height and measurement according to your demands.



Structural Properties	
<b>Yield Stress</b> 127.7 KSI (880.5 MPa)	<b>Ultimate Stress</b> 150 KSI (1034 MPa)
<b>Elongation in 20 bar diameters</b> 4%	<b>Reduction of Area</b> 20% min.



Unique Thread Form

### R71 150 KSI All-Thread-Bar - ASTM A722\*

Nominal Bar Diameter & Pitch	Minimum Net Area Thru Threads	Minimum Ultimate Strength	Prestressing Force			Nominal Weight	Approx. Thread Major Dia.	Part Number
			0.80f pu A	0.70f pu A	0.60f pu A			
1" - 4 (26 mm)	0.85 in <sup>2</sup> (549 mm <sup>2</sup> )	128 kips (567 kN)	102 kips (454 kN)	89.3 kips (397 kN)	76.5 kips (340 kN)	3.09 lbs./ft. (4.6 Kg/M)	1-1/8" (29 mm)	R71-08
1-1/4" - 4 (32 mm)	1.25 in <sup>2</sup> (807 mm <sup>2</sup> )	188 kips (834 kN)	150 kips (667 kN)	131 kips (584 kN)	113 kips (500 kN)	4.51 lbs./ft. (6.71 Kg/M)	1-7/16" (37 mm)	R71-10
1-3/8" - 4 (36 mm)	1.58 in <sup>2</sup> (1019 mm <sup>2</sup> )	237 kips (1054 kN)	190 kips (843 kN)	166 kips (738 kN)	142 kips (633 kN)	5.71 lbs./ft. (8.50 Kg/M)	1-9/16" (40 mm)	R71-11
1-3/4" - 3-1/2 (46 mm)	2.60 in <sup>2</sup> (1664 mm <sup>2</sup> )	390 kips (1734 kN)	312 kips (1388 kN)	273 kips (1214 kN)	234 kips (1041 kN)	9.06 lbs./ft. (13.5 Kg/M)	2" (51 mm)	R71-14
2-1/4" - 3-1/2 (57 mm) **	4.08 in <sup>2</sup> (2632 mm <sup>2</sup> )	613 kips (2727 kN)	490 kips (2181 kN)	429 kips (1909 kN)	368 kips (1636 kN)	14.1 lbs./ft. (20.8 Kg/M)	2-1/2" (64 mm)	R71-18
2-1/2" - 3 (65 mm)	5.19 in <sup>2</sup> (3350 mm <sup>2</sup> )	778 kips (3457 kN)	622 kips (2766 kN)	545 kips (2422 kN)	467 kips (2074 kN)	18.2 lbs./ft. (27.1 Kg/M)	2-3/4" (70 mm)	R71-20
3" - 3 (75 mm) *	6.46 in <sup>2</sup> (4169 mm <sup>2</sup> )	969 kips (4311 kN)	775 kips (3448 kN)	678 kips (3018 kN)	581 kips (2587 kN)	22.3 lbs./ft. (32.7 Kg/M)	3-3/64" (78 mm)	R71-24

### Features:

Regnum studs are manufactured in accordance with the standards of ASTM A722-07 and AASHTO M275. It can pass 135° additional cornering test, if required. The test loading shows Regnum 150 ksi All-Thread-Bars which meets or exceeds the post-stressing rod and rock anchorage criteria determined by the Message Stressing Institution including the dynamic test requirements beyond 500,000 loops.

## Washer

### Hardened Washers

R8M Beveled Washers  
for 150 KSI  
All-Thread-Bar ASTM  
A47 or ASTM A536



Nominal Bar Diameter	Outside Diameter	Inside Diameter	Part Number
1" (25 mm)	2-1/4" (57 mm)	1-1/4" (32 mm)	R9F-09-436
1-1/4" (32 mm)	2-3/4" (70 mm)	1-1/2" (38 mm)	R9F-11-436
1-3/8" (36 mm)	3" (76 mm)	1-5/8" (41 mm)	R9F-12-436
1-3/4" (46 mm)	3-3/4" (95 mm)	2-1/8" (54 mm)	R9F-16-436

### R9F Hardened Washers for 150 KSI All-Thread-Bar ASTM F436

Nominal Bar Diameter	Outside Diameter	Inside Diameter	Part Number
#6 - 3/4" (20 mm)	1-3/4" (45 mm)	15/16" (24 mm)	R9F-07-436
#7 - 7/8" (22 mm)	2" (51 mm)	1-1/8" (28 mm)	R9F-08-436
#8 - 1" (25 mm)	2-1/4" (57 mm)	1-1/4" (32 mm)	R9F-09-436
#9 - 1-1/8" (28 mm)	2-1/4" (57 mm)	1-1/4" (32 mm)	R9F-09-436
#10 - 1-1/4" (32 mm)	2-1/4" (57 mm)	1-3/8" (35 mm)	R9F-10-436
#11 - 1-3/8" (35 mm)	3" (76 mm)	1-5/8" (41 mm)	R9F-12-436
#14 - 1-3/4" (45 mm)	3-3/8" (86 mm)	1-7/8" (48 mm)	R9F-14-436



### R8M Beveled Washers for 150 KSI All-Thread-Bar ASTM A47 or ASTM A536

Nominal Bar Diameter	Degree of Bevel	Outside Diameter	Inside Diameter	Maximum Thickness	Minimum Thickness	Part Number
1" (25 mm)	10°	2-5/8" sq. (66.7 mm)	1-5/16" (33.3 mm)	13/16" (20.6 mm)	3/8" (9.5 mm)	R8M-08-150
* 1-1/4" (32 mm)	15°	5-1/4" dia. (133 mm)	1-21/32" (41.9 mm)	1-41/64" (41.7 mm)	19/64" (7.5 mm)	R8M-10-150
* 1-3/8" (36 mm)	15°	5-1/4" dia. (133 mm)	1-25/32" (45.2 mm)	1-41/64" (41.7 mm)	19/64" (7.5 mm)	R8M-11-150
1-3/4" (46 mm)	10°	5-1/2" dia. (138 mm)	2-1/2" (63.5 mm)	1-23/32" (43.6 mm)	3/4" (20 mm)	R8M-14-150

\* Additional USS Hardened Washer Required

### R8M Beveled Washers for Grade 75 All-Thread Rebar ASTM A47 or ASTM A536

Nominal Bar Diameter	Degree of Bevel	Outside Diameter	Inside Diameter	Maximum Thickness	Minimum Thickness	Part Number
#6 - 3/4" (20 mm)	9°	2" sq. (50.8 mm)	1" (25.4 mm)	17/32" (13.5 mm)	15/64" (6.1 mm)	R8M-07
#7 - 7/8" (22 mm)	9°	2" (50.8 mm)	1-3/16" (30.2 mm)	9/16" (14.3 mm)	1/4" (6.4 mm)	R8M-09
#8 - 1" (25 mm)	15°	2-13/16" (71.4 mm)	1-5/16" (33.3 mm)	1" (25 mm)	5/16" (7.9 mm)	R8M-09S
#9 - 1-1/8" (28 mm)	15°	2-13/16" (71.4 mm)	1-5/16" (33.3 mm)	1" (25 mm)	5/16" (7.9 mm)	R8M-09S
#10 - 1-1/4" (32 mm)	15°	3-3/8" (85.7 mm)	1-9/16" (39.7 mm)	1-15/64" (43.9 mm)	3/8" (9.7 mm)	R8M-12S
#11 - 1-3/8" (35 mm)	15°	3-1/2" (88.9 mm)	1-3/4" (44.5 mm)	1-1/4" (31.8 mm)	3/8" (9.7 mm)	R8M-13S
#14 - 1-3/4" (45 mm)	5°	3-9/16" (90.5 mm)	2-1/16" (52.4 mm)	13/16" (20.6 mm)	1/2" (12.7 mm)	R8M-16

## Concrete Anchorage Systems

You can supply a wide range of products of concrete anchorage systems instead of casting anchorage from Regnum. It presents the product and site services of J-U and L anchorage systems which are used in many high profiled projects.



Regnum column anchorage systems are designed to be used in the constructions, especially in the machine, column or electricity pole montages. It contributes to the ability to place in the same line with the concrete during the concrete placing by its double-piece feature. Our products are high Standard and manufactured from the cold-rolled steel in accordance with the standards of ASTM, A 108 and its connection elements and couplers can be mounted manually.

Steel Type	Bar Diameter	Recommended Safe Working Load to 2:1 Safety Factor	Average Ultimate Strength	Drill Hole	Embedment Depth		Minimum Edge Distance		Part Number B8S Cone / Shell (B7S Cone / Shell)
					3000 PSI Concrete	5000 PSI Concrete	3000 PSI Concrete	5000 PSI Concrete	
B1S Smooth Rod	3/8" (10 mm)	4.9 kips (21.8 kN)	9.8 kips (43.6 kN)	1-5/8" (41 mm)	6" (152 mm)	5" (127 mm)	4.8" (121 mm)	4.2" (107 mm)	R4M03RB0 / R4A13 (R4MC3RB0 / R4A13)
	1/2" (12 mm)	9 kips (40.0 kN)	18 kips (80.1 kN)	1-5/8" (41 mm)	7" (178 mm)	6" (152 mm)	6.4" (163 mm)	5.6" (142 mm)	R4M04RB0 / R4A13 (R4MC4RB0 / R4A13)
B7S All-Thread Coil Rod	5/8" (16 mm)	11.3 kips (40.0 kN)	22.5 kips (100 kN)	1-5/8" (41 mm)	8" (203 mm)	7" (178 mm)	7.7" (196 mm)	6.7" (170 mm)	R4M05RB0 / R4A13 (R4MC5RB0 / R4A13)
B8S All-Thread N.C. Rod	3/4" (20 mm)	18 kips (80.0 kN)	36 kips (160 kN)	1-5/8" (41 mm)	10" (254 mm)	9" (229 mm)	9.2" (234 mm)	8.1" (206 mm)	R4M06RAC / R4A13 (R4MC6RAC / R4A13)
	7/8" (22 mm)	29 kips (129 kN)	58 kips (258 kN)	1-5/8" (41 mm)	12" (305 mm)	11" (279 mm)	11.4" (290 mm)	10" (254 mm)	R4M07RAC / R4A13 (R4MC7RAC / R4A13)

It develops solutions for the “custom design” products demanded in the projects with the experienced engineering staff in addition to the carrying systems, concrete armatures, brick channel systems, scaffold systems etc. in its product range

## Eye Bolt

Regnum manufactures ringbolts & eyebolts which is regarded for the security factors and certificated according to carrying the concrete blocks, concrete cylinders, machine, equipment and hanger systems.



Eye Nut Designation	Inside Width	Inside Height	Ring Diameter	Overall Height	Taps Available	Straight Tension Ultimate Strength	Blank Part Number
NEB 1 Ductile Iron	2" (51 mm)	2" (51 mm)	1-1/8" (29 mm)	5-1/8" (130 mm)	3/4"; 7/8"; 1"* (20; 22; 25 mm)	35 kips (156 kN)	E1M-00-001
NEB 50 Ductile Iron	3" (76 mm)	3" (76 mm)	1" (25 mm)	5-3/4" (146 mm)	1/2"; 3/4" (13; 20 mm)	26 kips (116 kN)	E1M-00-050
NEB 75R Ductile Iron	4" (102 mm)	5" (127 mm)	1" (25 mm)	7-3/4" (197 mm)	1/2"; 3/4" (13; 20 mm)	23 kips (102 kN)	E1M-00-75R
NEB 100 Ductile Iron	4" (102 mm)	4-1/2" (114 mm)	1-1/4" (32 mm)	8" (203 mm)	1"; 1-1/4"; 1-3/8** (25; 32; 35 mm)	65 kips (289 kN)	E1M-00-100
NEB 200 Ductile Iron	5" (127 mm)	6" (152 mm)	2" (51 mm)	11" (274 mm)	1-3/8"; 2" (35; 51 mm)	150 kips (667 kN)	E1M-00-200
E1N Malleable	2" (51 mm)	2-1/2" (64 mm)	7/8" (22 mm)	5-1/8" (130 mm)	Grade 75 #6, #7, #8	35 kips (156 kN)	E1M-00-E1N
CCF 1 CCF 2 CCF 3 CCF 4 Steel	up to 4" (102 mm)	up to 6-1/4" (159 mm)	up to 1-1/2" (38 mm)	up to 8-1/2" (216 mm)	Grade 75 #6 through #18	up to 260 kips (1157 kN)	E1M-00- CCF1 E1M-00- CCF2 E1M-00- CCF3 E1M-00- CCF4

\* 150 KSI All-Thread-Bar may not be used in 1" diameter for the NEB 1 or in 1-3/8" diameter for the NEB 100.

## Lifting Systems

With its expertise products about the carrying systems, Regnum is used for multiple load carrying via its indents with the pluggable feature. The manufacture is made according to the international UHL standards to the 450 kN load capacity.

Quality features:

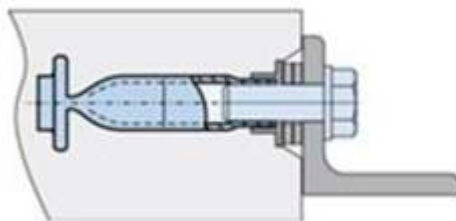
- Efficient, secure, fast
- Corrosion-resistant
- Fast stocking possibility for any anchor and accessories of the precasting elements.
- 1,3-45,0 10 load classes
- Easy carrying and used for installation
- Quality and CE certificates



## Concrete Armatures

Regnum concrete armatures are designed to be used for secure and lasting anchorage. The materials for different metric gear sizes (maximum gear size is M45) and corrosion-resistant (electrolyze, hot dipped galvanized and stainless steel) provides a wide range of products.

Regnum connection elements present optimum solution for all the connections of reinforced concrete constructions. Regnum Standard connection elements can be used in any combination.



## Wall Rebars

The wall connections and limited installation wall panels are important factors for the wall stability. Regnum manufactures wall rebar in many length and types for the brick, stone labor and facade limits.

**DEFINITION:**

Stair-type rebar with fixed slips

For block and brick composite walls

4 point welded slips provide maximum strength and endurance.

Masonry constructions (Standard specification for masonry joint rebar) and ASCE / ACI 530 for ASTM A 951 building meet the code requirements.

Standard Weight ( 9ga x 9ga ) .

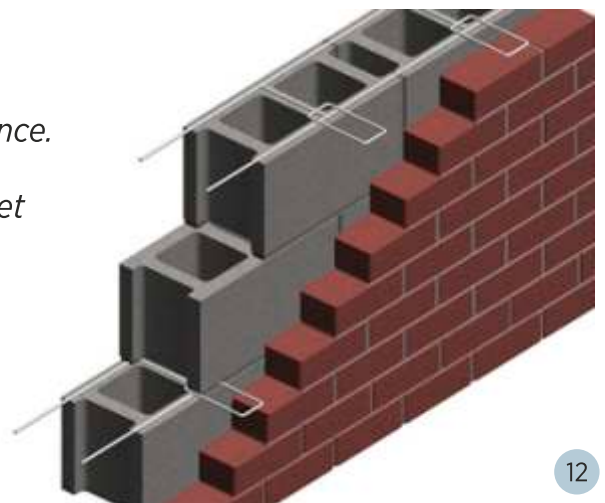
Extra Weight ( 3/16 " Side Bar x 3/16 " Cross Bars ) .

Slides 3/16 "in diameter is available as Standard.

**AVAILABLE FINISHES:**

Hot Dipped Galvanize

Stainless Steel

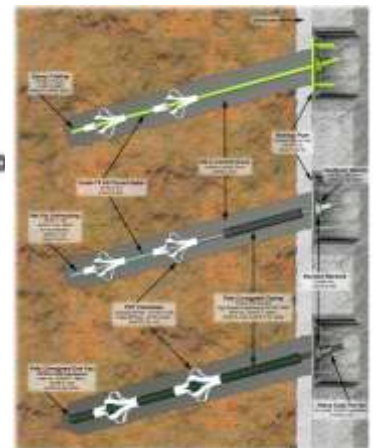
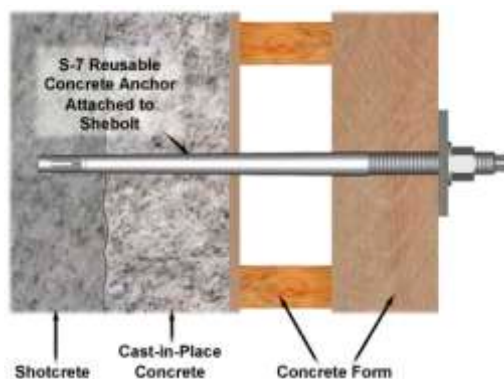


## Soil Nail

The pieces of Regnum brand soil nails constitute a supportive system for stabilization in digging and slopes especially in top-down buildings. In application, a large hole about 10- 25 cm is dug; a soil nail is placed in the center of the hole. Later, the hole is filled with a specially-prepared cement slurry, it can be torqued with shot-crete later if demanded. The working load offered for soil nail must not exceed 60% of the final strength of the iron.



Regnum presents a wide line for the concrete equipment and can be used with the soil nail to make lasting wall. Regnum bolt and bar strength presents the connection systems with the capacity of 100% development.



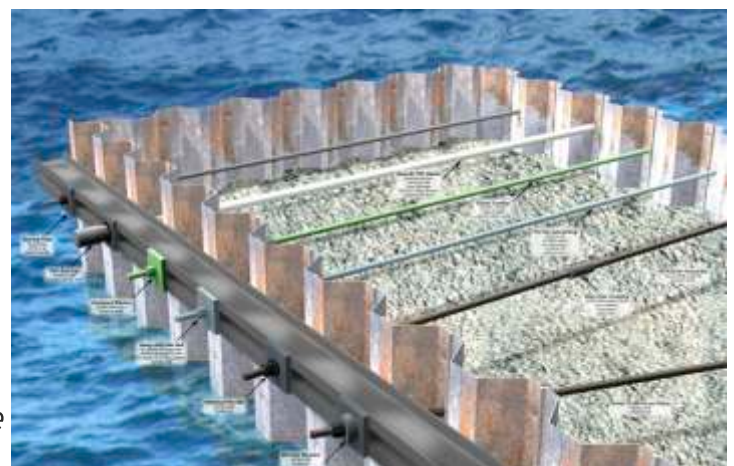
## Tie-Rot Shafts

Tie-Rot (rot shaft) is a shaft system used for stressing with the aim of preventing mould from opening in the partition and column moulds. It reduces the risk and provides endurance and trust in the mould installation. There are nodular cast iron nut and optional mirrors (washer) on its both sides. Our Rot shafts are manufactured from ST37 - SAE1008T steel.



Advantages:

- The opportunity of weightless mounting with high strength and low cost
- Maximum continuous multiple gear system
- Dual (the opportunity of right and left mounting)
- Special protection against corrosion for aggressive environment
- The opportunity of stocking in different sizes.



## Shear Reinforcement

The weight of the beams reinforced on a column cause the column to expose sliding tension. If these tensions are not supported enough with additional rebar, it causes cracks between the plates and column.

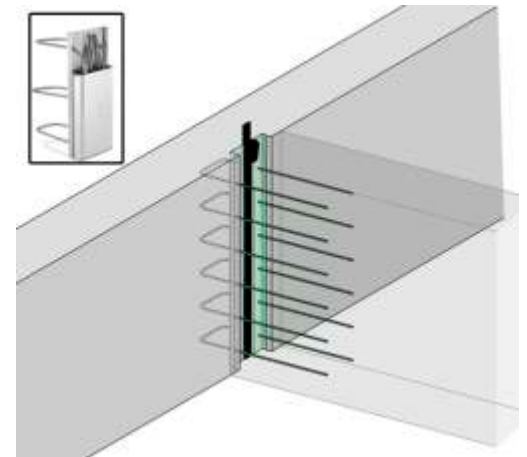


Regnum shear rebars which provide additional rebar around the columns are the most ideal solution for the potential construction and design problems, and shear loads. The system provides structural integrity with the straight rails which are welded and located between the head to tail of the column. The shear load is transferred on the floorings with the help of Regnum shearing rebars and it prevents the potential faults.

## Rebend Connection System

Regnum Rebend Connection system is used for effective connection of the concrete pieces which are poured and connected in different phases. The cover can be taken out of the body, thus it is manufactured from the galvanized sheet with the in-advanced drilled clutch holes and the protection system. The product can be mounted to a mould only by nailing or fixing with an additional binding wire.

There is a Standard range of products for the most common mounting situations with 0.8 m and 1.25 m body lengths and the single and double-layer connection.



## Brick Separator

Regnum takes efficient and secure equipment which is designed for all bricks, parts, ties with the Brick security systems (with no space and isolation). With the help of Regnum brick separators, the concrete walls, columns or steel and wooden buildings are connected to the masonry frontal side. The separators reduce the risk of wall cracks and allow it to slide vertically in the channel. Regnum Brick separators can be placed inside the wall construction joint and brick tie channel in any point with offered intervals.



# WHY IS THE REBAR COUPLER?

The traditional rebar connection techniques, such as overlapping or welding to overcome the technical difficulties which are encountered in the construction sector gradually, cannot meet the needs. With more successful structural integrity, the coupler joint system product with high technology gives speed and competence to your projects while it reduces the cost.



**REGNUM CONSTRUCTION**

"Construction Technology Solutions"

REBAR COUPLERS

GROUND EQUIPMENT

CONSTRUCTION TECHNOLOGY

Osmanağa Mah. Bahariye Cad. Berkel Binası No:54  
Kadıköy - İSTANBUL - TURKEY

+90-0535 879 94 09

info@regnumconstruction.com

www.regnumconstruction.com

