



EFTCG
ROCKBARS

**CONSTRUCTION
TECHNOLOGY
SOLUTION**

Who are we?

EFTCG ROCK BARS

Is a construction company which presents engineering solutions to the construction sector in the manufacturing and servicing fields. EFTCG ROCK BARS 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, EFTCG ROCK BARS presents the engineering solutions to the construction sector with the conception of continuous improvement and high quality.

Quality

All EFTCG ROCK BARS 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?

EFTCG ROCK BARS 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.



It is the connection of the steel rebar in the concrete of the reinforced concrete constructions. EFTCG ROCK BARS 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.

Rock Bars

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.

EFTCG ROCK BARS 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.

Technical Information

Regbar high-strength reinforcement threading machines enable flawless thread cutting in every quality of rebar detailed in below table. Mobile Regbar equipment enable on-site processing without the need to carry equipment. Thus, both the cost and time loss resulting from transportation of equipment is prevented and work is followed much better.

Application

The machines and equipment of Regbar are designed for high quality threading of all grades of iron and steel.

System advantages:

- *Equipment is not transported due to on-site manufacturing.*
- *Easy and fast installation.*
- *No need for additional special tools.*
- *No torque requirement.*

System compatibility

Regbar reinforcement threading machines are designed to comply with the following standards.

- *American Concrete Institute (ACI Standard 318)*
- *2009 International Building Code (IBC)*
- *2009 International Residential Code (IRC)*
- *State Departments of Transportation*
- *TS500, TS 708, ISO 15832*



ROCKBAR TECHNICAL DATA

Nominal Diameter	Steel Grade	Ultimate Strength	Yield Strength	70 % Ultimate Strength	Cross-Sectional Area	Diameter Over Threads	Thread Pitch	Weight
[mm]	[N/mm ²]	[kN]	[kN]	[kN]	[mm ²]	[mm]	[mm]	[kg/m]
16		121	101	85	201	18	8	1.58
20		188	157	132	314	23	10	2.47
25		295	246	206	491	28	12.5	3.85
28		370	308	259	616	32	14	4.83
32	500 / 600	482	402	337	804	36	16	6.31
36		612	510	428	1,020	40	18	7.99
40		754	629	528	1,257	45	20	9.86
50		1,178	982	825	1,963	55	26	15.41
57.5		1,818	1,441	1,273	2,597	63	20	20.38
63.5	555 / 700	2,217	1,758	1,552	3,167	69	21	24.66
75	500 / 600	2,651	2,209	1,655	4,418	82	24	34.68

Spacers

Technical Information

Plastic Spacers Elements / Plastic Protective Caps

Rebar Caps

Rebar caps are produced in order to prevent corrosion of the rebars after concrete casting in the field, in the stock area or damages of thread profiles. Each diameter is coded with a separate color code.

Concrete Caps

They are designed not to lose zero-zero connection end of the element embedded in concrete especially in subway and topdown projects. Following the concrete casting with this system added to zero rebar end, taper tap is removed and a better connection is ensured with frontal opening.

Corrugated Pipe is made of corrosion-resistant plastic raw material. Despite its light weight, it has a shock-absorbing property.

Anchorage Spacers

Anchorage Spacers do not interfere with the flow of injection material during the injection of the soil. It holds the anchor parts in one piece and protects product integrity.

Anchorage Connectors are designed with porous eyes as Anchorage Spacers so they don't prevent the flow of injection.

Anchorage Pipe Caps

They are designed to be attached to starting and ending points of anchorage pipes. They prevent possible deformation of the material with its impermeability.

What is Antirust Margin ?

Antirust Margin is technically defined as "the thickness measured up to the end of the concrete outside the most outer reinforcement inside a concrete element". We can talk about many reasons that cause corrosion in the reinforced concrete rebars. Risk of corrosion increases due to the environment especially in projects close to marinas, dams and sea. In order to make the concrete and iron work properly on the same axis, Antirust Margin pieces take on an important task to protect irons from external effects, ensure desired rebar density and full protection against corrosion.

Heavy Floor Antirust Margin

It is a footed system antirust margin which ensures the antirust margin range in horizontal iron reinforcements in the foundations. These plastic equipment can be easily used in heavy iron equipment.



Application

Profile Type Plastic Antirust Margin

Rail type mesh floor antirust margin is preferred for large area flooring works and paneled wire mesh as it provides great convenience and facilitates the process. The upper hook is designed to carry iron. It can be conveniently used in horizontal and vertical flooring. It can be extended by attaching them to each other with the mounting apparatus at the ends.

Curtain and Column Type Antirust Margin

Ideal for use in curtain and column iron molds. They are produced in sizes suitable for iron in different diameters. Their coupling feet enable them to grip irons with different diameters. Their porous structure doesn't prevent concrete transition and form voids in the concrete. When they are attached to stirrups, they provide the desired gap between the mold and reinforcement to obtain optimum efficiency. They are manufactured in different heights in accordance with irons in different diameters.

Circular Type Plastic Antirust Margin

This type of antirust margin provides great convenience when used in wide area flooring and steel mesh, easily grips simple iron by two iron grip bulges at the top. They are laid on the surface at proper intervals.

Rock Bolt Spacer

They regularly tighten the anchorage elements and keep them together due to their structure which doesn't prevent flow of the injection material in soil anchorages but they also separate them from each other and allow the injection cover every element. Thus they increase the adherence. These pieces increase adherence especially in rehabilitation of soil rock bolts.

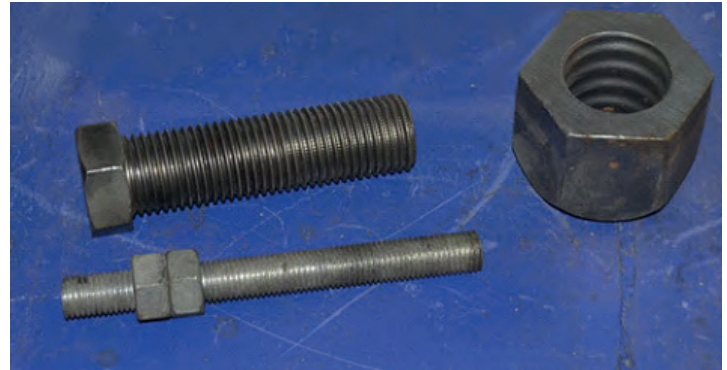
Mold Oils

Mold oil is applied between concrete and mold. They are various kinds of oil applied as a thin layer between the concrete and mold to obtain a smooth concrete surface, decrease erosion of the concrete and remove the mold easily from concrete.

Bolts

Technical Information

Regbar manufactures Hexagon-Head bolts, Countersunk head bolts, Allen head bolts, Round Head bolts, Square head bolts, Wheel bolts, Eye bolts, Headless Setscrew screws, T-head bolts, Round head bolts, Heavy-duty bolts, Pre-loading bolts, Bolts without pre-loading, Ribbed iron bolts, Insulator bolts conforming to EN 14399-3 HR Bolts, EN 14399-4 HV Bolts, EN 15048, EN 14399-10 TCB Bolts, DIN 6914, DIN 7991, DIN 912, DIN 912, DIN 931, EN ISO 4014, DIN 933, EN ISO 4017, DIN 960, EN ISO 8765 and DIN 961 standards.



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

Washer

Hardened Washers

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



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

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 Grade 75 All-Thread Rebar
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 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

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



Plates

EFTCG ROCK BARS manufactures the plates in requested sizes according the measurements and demands in the projects.

FASTENING PLATES / PLATES

Regbar Strong Anchor Plates are designed to transfer heavy loads in the load-bearing structures of the concrete frame. The headed rebar anchors of Regbar Strong Anchoring Plates are optimized for easy installation, even in dense reinforcement. Connection plates are steel parts that are assembled before hardening of the concrete. The plates transfer the loads from the plate to concrete structure. Structural fixings are made by welding the steel plate. Regbar Strong Anchor Plates are especially suitable for heavy industrial structures. Rebar anchors with stud head also provide structural connections for thinning concrete structures. Regbar Strong Anchor Plates are also available in extra long diameters to eliminate the need for additional reinforcement.



- No commercial or technical limitation, free cross-border movement of products is possible.
- Ease of design; Pre-calculated capacities can be used together with Eurocode anywhere in European Union.
- Products are authorized to get CE marking. The products meet the required quality and safety criteria.
- Pre-calculated capacities accelerate design work.
- Standardized products provide fast delivery directly from the warehouse.
- A wide range of material options and combinations enables usage even in the most demanding situations.
- Different types of fixing plates are available for any loading situation.

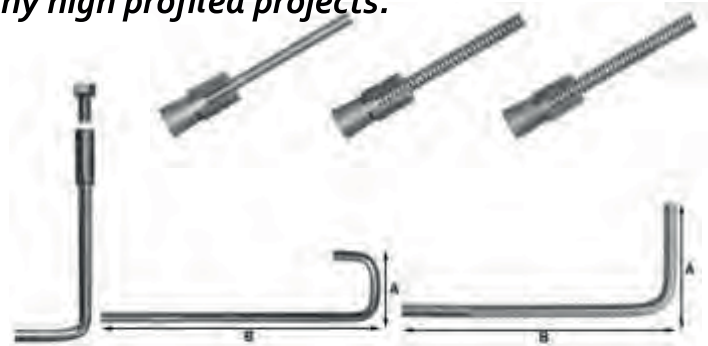
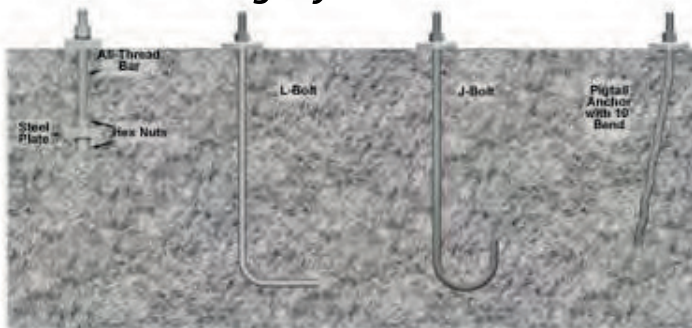


EFTCG ROCK BARS anchorage plates may be prepared in accordance with the demands and needs as a special production as well as the standard drilled holes. In addition, the plates may be manufactured from the stainless steel according to the demands for the projects including the sensitivity to corrosion. EFTCG ROCK BARS 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"	4"	3-1/2" (89 mm)
C 7.6	(114 mm)	(102 mm)	3-3/4" (95 mm)
C 12.6	6-5/8"	6"	5-3/8" (137 mm)
C 19.6	7-5/8"	7-1/8"	6-1/2" (165 mm)
C 22.6	8-5/8"	7-7/8"	7-1/2" (191 mm)
C 27.6	(219 mm)	(200 mm)	8" (203 mm)
C 31.6	10-3/4"	10"	8-1/2" (216 mm)
	(273 mm)	(254 mm)	

Concrete Anchorage Systems

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



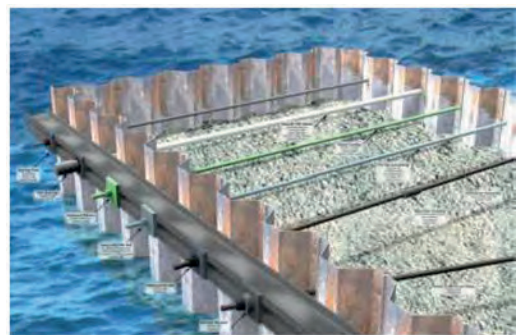
EFTCG ROCK BARS column anchorage systems are designed to be used in the constructions, especially in the machine, column or electricity pole montages. It contributes to the ability to place in the same line with the concrete during the concrete placing by its double-piece feature. Our products are high Standard and manufactured from the cold-rolled steel in accordance with the standards of ASTM, A 708 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

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 - SAE7008T 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*
- 13 • *The opportunity of stocking in different sizes.*



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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.