



PHYSICAL PROPERTIES

GRADE	FE-500	FE-550	FE-600	FE-700
YIELD STRESS (N/mm ²)Min	500D	550D	600	700
Tensile Strength (N/mm ²)Min Ratio	≥1.10More Than Actual 2.0% Proof Stress/Yield Stress But not less than 565 N/mm ²	≥1.08More Than Actual 2.0% Proof Stress/Yield Stress But not less than 600 N/mm	≥1.06More Than Actual 2.0% Proof Stress/Yield Stress But not less than 660 N/mm	≥1.04More Than Actual 2.0% Proof Stress/Yield Stress But not less than 760 N/mm

CHEMICAL PROPERTIES

GRADE	FE-500D	FE-500D	FE-550D	FE-550D	FE-600D	EQR600	FE-700	FE-700
(%) Max	BIS:1786	RS VIRLA	BIS:1786	RS VIRLA	BIS:1786	RS VIRLA	BIS:1786	RS VIRLA
CARBON	0.25	0.18-0.25	0.25	0.18-0.23	0.30	0.18-0.25	0.30	0.18-0.25
SULPHUR	0.040	0.030-0.035	0.040	0.025-0.035	0.040	0.025-0.035	0.040	0.025-0.035
PHOSPHORUS	0.040	0.028-0.035	0.040	0.025-0.035	0.040	0.025-0.035	0.040	0.025-0.035
S+P	0.075	0.062-0.070	0.075	0.062-0.070	0.075	0.062-0.070	0.075	0.062-0.070

PRODUCT RANGE

NOMINAL SIZE (mm)	BIS STANDARDS WEIGHT PER METER IN KG	RS VIRLA EQR600 PER METER IN KG	BIS TOLERANCE	RS VIRLA EQR600 BIS TOLERANCE
8	0.395	0.397-0.390	±7%	±4%
10	0.615	0.592-0.600	±7%	±4%
12	0.888	0.861-0.880	±5%	±3%
16	1.580	1.532-1.560	±5%	±3%
20	2.470	2.420-2.450	±3%	±2%
25	3.850	3.773-3.840	±3%	±2%
28	4.830	4.735-4.800	±3%	±2%
32	6.310	6.184-6.300	±3%	±2%
36	7.990	7.800-7.900	±3%	±2%
40	9.860	9.663-9.860	±3%	±2%

RS VIRLA PRIVATE LIMITED

- 📍 **CORPORATE OFFICE :-**
Pinnacle Business Park, 405-B, 4th Floor, Corporate Road, Prahlad Nagar, Ahmedabad - 380015, Gujarat (India)
- 📍 **REGISTERED OFFICE :-**
Quest, 5th floor, Technopolis Knowledge Park, Mahakali Caves Road, Chakala, Andheri (East) Mumbai - 400093
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PRO BOND RIBBED BARS



RS VIRLA GROUP - Introduction

RS VIRLA Group is a powerful established Industries, with a vast Experience in steel production in two different states with Most advanced state of art For TMT Manufacturing. To match the global infrastructure market with India we are Launching our most Proficient & advanced construction Bars, with an Innovation after almost a decade in steel manufacturing Unit

RS VIRLA GROUP and its diversified business ventures



5 IN 1 QST BAR



SAY YES TO EARTHQUAKE RESISTANCE

Provides the best solution for structures subject to earthquakes, thanks to high dissipation of energy



SAY YES TO DUCTILITY

Higher ductility facilitates bending and guarantees higher levels of safety

SAY YES TO STRENGTH

Maximum bonding of cement mixture with the steel bar results in additional strength



Martensite

Tempered Martensite

Ferrite Pearlite

TRICORE



SAY YES TO CORROSION RESISTANCE

Higher ductility facilitates bending and guarantees higher levels of safety

SAY YES TO FIRE PROTECTION

Maximum bonding of cement mixture with the steel bar results in additional strength



PRO BOND RIBS



To achieve the best desired result and Stringent technical requirement, **RS VIRLA** Group has given birth to a unique "P" transverse rebar" with high mechanical property such as tensile strength & Yield strength, Weld ability, Bend ability & Ductility and the metallurgical properties in the rebar through controlled process in billet manufacturing where as mechanical properties are achieved by **HSE Thermex Germany Technology** (Quenching & Self Tempered) the world renowned process. Also to eliminate human error, the rolling of rebar is carried out in a high speed state of art rolling mill with PLC control designed in Italy and commissioned by them. The best technology with all around highly disciplined and controlled process mechanism, makes "P" transverse rebar" a product to envy and the best rebar available in the country.

Double Rib Pattern Pro Bond Technology

- **Pro bond** Having High Ductility
- **Pro Bond** creates more Strength.
- **Pro Bond** creates max Corrosion Resistance.
- **Pro bond** Generates max Yield Strength.
- **Pro Bond** having greatest Fire Protection.
- **Pro Bond** provides long life to the Build Structure.
- **Pro Bond** designed to face Earthquake Resistance 6.5 to 8 Reactor Scale.



Thermex Germany Technology

Combination of
Japanese, German
& Italian
Technology

To match the Global infrastructure market with India, We are Launching our most Proficient & advanced construction TMT Bars, with an Innovative research for "P" Ribbed pattern Specially for more than 6.5 to 8 reactor scale seismic Zones, after almost the two decades in our research & development, We proudly Introduced:-

"P" Ribbed QST Bars " with Japanese & German Technology going to launch in Indian Market.