



TMT
BARS

The true identity of
construction's
Strength & longevity

Fe
500

A large, stylized graphic of the text 'Fe 500'. The 'Fe' is in white, and '500' is in orange. The 'e' and '500' are formed by a silver, ribbed metal pipe that curves and loops around a bridge structure, symbolizing the strength and longevity of the product.

www.ssitmt.com



PROVIDING BEST SERVICE TO OUR CLIENTS FOR MORE THAN THREE DECADES!!

200+ Dealers

1300+ Projects

150+ Clients

300+ Employees



Driven by the passion to serve the construction industry and provide greater reinforcement to the structures of future India, SSI TMT a chief division of Sakthi Group at an exponential pace achieved its dominant position in the primary steel market. Striving for quality and enduring strength SSI TMT constantly delivers the supreme grade TMTs.

SSI TMT is the steel for the superior quality & strength!

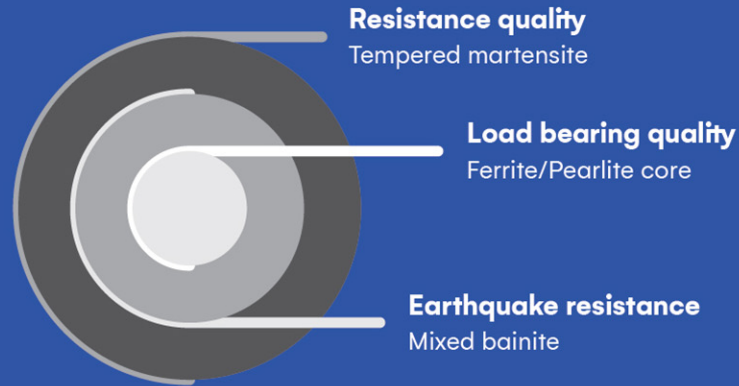
Accreditation



GOVERNMENT OF TAMIL NADU PUBLIC WORKS DEPARTMENT



Three layers depicting the international quality



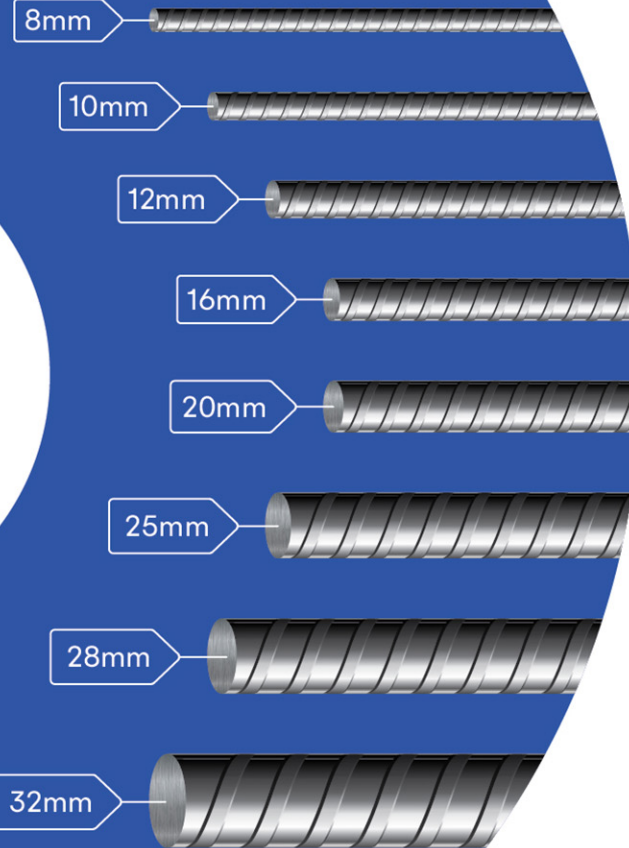
Fe 500D

Fe stands for Iron out of which the TMT bars are made.

500 implies the minimum yield stress in MPa.

D implies ductility which means that the steel bars have a higher percentage of elongation.

Fe 500D with lower quantities of carbon, sulphur and phosphorous, helps in preserving the steel and resisting earthquake shocks and fatigue. **Thus making it as the best variant possible made to build futuristic structures.**



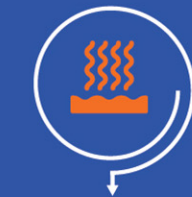
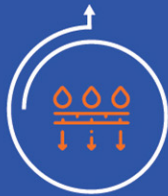
Product advantages

Enhanced strength & durability



World class & leading - edge technology

Corrosion resistant



High thermal & fatigue resistance

Good ductility



Earthquake resistant

Tempcore Technology the most effective processes in the production of TMT bars developed by the Centre de Recherche Metallurgiques (CRM) Belgium.

1

Passing the steel wires through a rolling mill stand

2

Rolled steel wires are again passed through the **Tempcore water cooling system**

3

Through the **water cooling system**, the water pressure is optimised.

4

Sudden quenching and drastic change in temperature toughen the outer layer of the steel bar

5

In order to equalise the temperature difference between the soft inner core and the tough exterior the **atmospheric cooling process** is done

6

Tuning the bars into ferrite-pearlite structure by slowly cooling down and then compressed to expand and strengthen them

7

Manufacturing process

Mechanical Properties

BIS Standard vs SSI TMT Fe 500 D

Properties	IS: 1786	SSI TMT
Yield Stress - N/mm ² (Min.)	500	530
Tensile Strength - N/mm ² (Min.)	565	600
Elongation % (Min.)	16	18
Total Elongation % (Min.)	5	7

Chemical Specifications:

BIS Standard vs SSI TMT Fe 500 D

Constituent (%)	IS: 1786	SSI TMT
Carbon (Max.)	0.25	0.17-0.23
Sulphur (Max.)	0.040	0.040
Phosphours (Max.)	0.040	0.040
S & P (Max.)	0.075	0.075

NOTE: As per BIS, above mentioned mandrels are to be used for bend and rebend the bars. If not use, It will affect the Quality of the Bars.

Clients



Sakthi Ferro Alloys (INDIA) Pvt. Ltd.
No. 18/26, 2nd Street, Loganathan Nagar,
Choolaimedu, Chennai - 600 094.

+91-44-4505 8403

sales@sakthigroup.co

www.ssitmt.com

Authorised Dealer