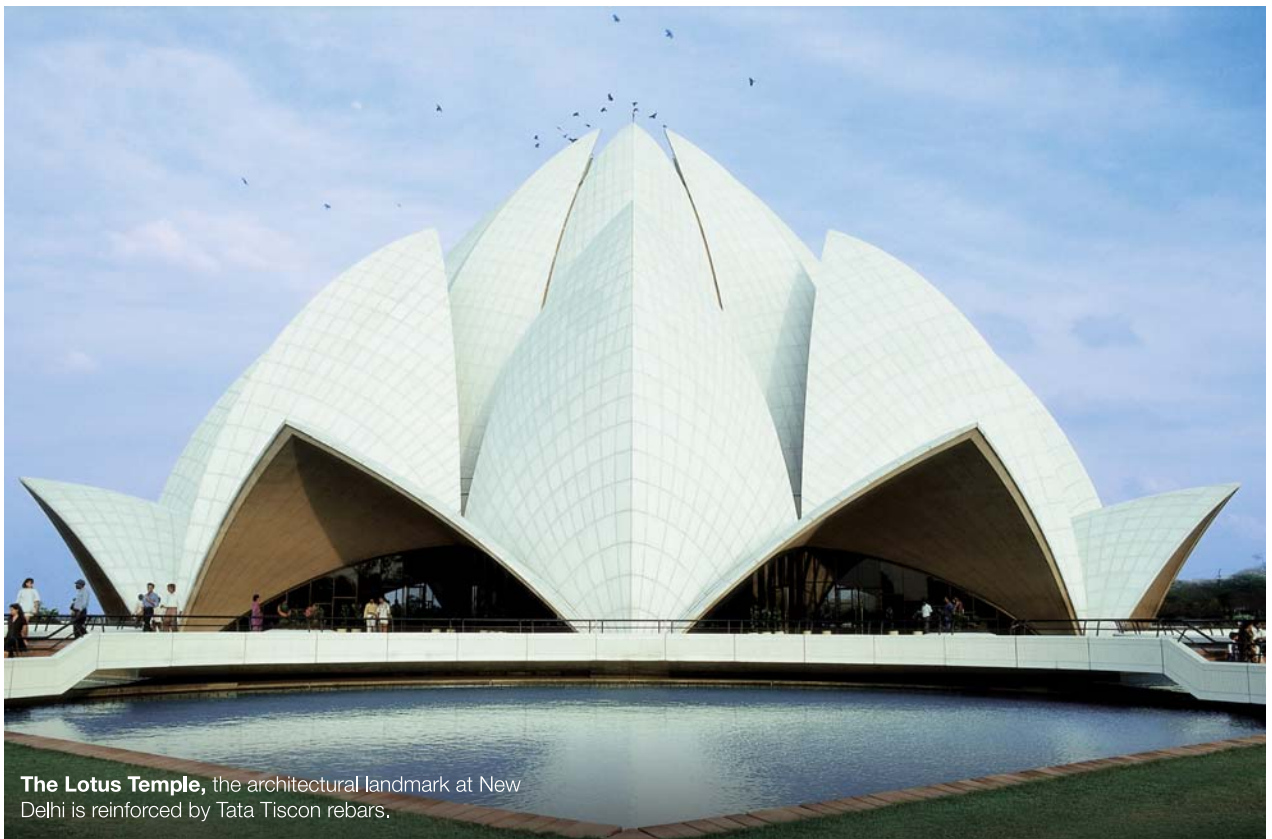


TATA TISCON



Solutions for your Business



Tata Tiscon CRS— the corrosion fighter



Tata Tiscon CRS (Corrosion Resistance Steel) rebars is a breakthrough innovation by Tata Steel to help builders fight the deadly menace of corrosion. Wherever there is salinity in the air, along the coastline, in sea water, in ground water or

where there are acid particles in the air, corrosion strikes like a virus. It eats into RCC structures like buildings, bridges, dams, industrial plants and more.

Tata Tiscon CRS rebars with their unique protective chemistry, keep corrosion at bay and protect the life of concrete structures. It is available in the following diameters: 8, 10, 12, 16, 20, 22, 25, 28, 32, 36 and 40 mm, in grade IS 1786, Fe 500.

Tata Tiscon CRS-mechanical properties

	IS : 1786 Fe 500D	Tata Tiscon Fe 500 CRS * (Typical values)
Mechanical Properties (min.)		
Yield Stress-YS (N/mm ²)	500	520
% Elongation	16	16
Ultimate Tensile Stress-UTS (N/mm ²) (min)	565	580

*(Typical Values for 90% of batches)



Tata Tiscon CRS process technology

Tata Tiscon CRS rebars are produced, using a judicious selection of corrosion resistant elements (Cu, P & Cr) complemented by a special Thermo Mechanical Treatment (TMT) route.

The microstructure resulting from the TMT process, leads to higher corrosion resistance on account of:

- being free from torsional stresses:
- presence of self-tempered lath martensitic layer on surface known to inhibit corrosion attack and
- homogeneous distribution of corrosion resistant elements from core to surface



Chemical composition of Tata Tiscon CRS, %

C	S	P	CRE
0.15	0.04	0.12	0.5
max.	max.	max.	min.

Advantages of Tata Tiscon CRS



The Thyagaraja Indoor Stadium, New Delhi. Tata Tiscon has been used in various structures that are being built for the 2010 Commonwealth Games.

- Longer life due to superior corrosion resistance
- High yield strength, coupled with good ductility and bendability
- No extra precaution required in material handling and transportation
- No maintenance during fabrication
- Ideally suited to poor working conditions at site
- No extra precaution during welding
- Can be bent and rebent around very small mandrels

