

## International Standards

JIS 3536

Size	Tolerance	Nominal Area	Unit Mass	Breaking Load	0.2 % Proof Load	Min. Elongation	Bends		Relaxation Loss
mm	mm	mm <sup>2</sup>	kg/km	kn	kn	%		Nos	%
4	+/-0.04	12.57	98.7	21.1	18.6	3.50	4 min for smooth wire and 3 min for indented wire	(R = 10 mm)	2.5 max at 70% of specified min breaking load after 1000 hrs
5	+/-0.05	19.64	154	31.9	27.9	4.00		(R = 15 mm)	
6	+/- 0.05	28.27	222	44.1	38.7	4.00		(R = 15 mm)	
7	+/- 0.05	38.48	302	58.3	51	4.50		(R = 20 mm)	
8	+/- 0.06	50.27	395	74	64.2	4.50%		(R = 20 mm)	
9	+/- 0.06	63.62	499	90.2	78	4.50%	(R = 20 mm)		

BS 5896

Size	Tolerance	Nominal Area	Unit Mass	Breaking Load	0.2 % Proof Load	Min. Elongation	Bends		Relaxation Loss
mm	mm	mm <sup>2</sup>	kg/km	kn	kn	%		Nos	%
4	+/- 0.04	12.6	98.7	21	17.9	3.50	4 min for smooth wire and 3 min for indented wire	(R = 10 mm)	2.5 max at 70% of specified min breaking load after 1000 hrs
4	+/- 0.05	12.6	98.7	22.3	19	3.50		(R = 10 mm)	
4.5	+/- 0.05	15.9	12.5	25.8	21.9	3.50		(R = 15 mm)	
5	+/- 0.05	19.6	15.4	32.7	21.8	3.50		(R = 15 mm)	
5	+/- 0.05	19.6	154	34.7	29.5	3.50		(R = 15 mm)	
5	+/- 0.05	19.6	154	36.5	31	3.50		(R = 15 mm)	
6	+/- 0.05	28.3	222	47.3	40.2	3.50		(R = 15 mm)	
6	+/- 0.05	28.3	222	50.1	42.6	3.50		(R = 15 mm)	
7	+/- 0.05	38.5	302	60.4	51.3	3.50		(R = 20 mm)	
7	+/- 0.05	38.5	302	64.3	54.7	3.50		(R = 20 mm)	

ASTM A881

Size	Tolerance	Nominal Area	Unit Mass	Breaking Load	0.2 % Proof Load	Min. Elongation	Bends		Relaxation Loss
mm	mm	mm <sup>2</sup>	kg/km	kn	kn	%		Nos	%
5.03	+/- 0.08	19.86	155.9	30.8	27.7	3.00	4 min for smooth wire and 3 min for indented wire	(R = 15 mm)	2.5 max at 70% of specified min breaking load after 1000 hrs
5.03	+/- 0.08	19.86	154	32.2	29	3.00		(R = 15 mm)	
5.03	+/- 0.08	19.86	154	34.3	30.9	3.00		(R = 15 mm)	
5.5	+/- 0.08	23.7	187.4	42.6	38.3	3.00		(R = 15 mm)	

UNE 36094

Size	Tolerance	Nominal Area	Unit Mass	Breaking Load	0.2 % Proof Load	Min. Elongation	Bends		Relaxation Loss
mm	mm	mm <sup>2</sup>	kg/km	kn	kn	%		Nos	%
4	+/- 0.04	12.6	98.7	23.4	19.9	3.50	3 min	(R = 10 mm)	2.5 max at 70% of specified min breaking load after 1000 hrs
5	+/- 0.05	19.6	154	36.5	31	3.50		(R = 15 mm)	



**Ramsarup Industries Limited**  
Unit : Ramsarup Nirmaan Wires

## ROBUST INFRASTRUCTURE FOR TOMORROW



Manufacturing single line low relaxation prestressed concrete wires



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## group profile

Ramsarup Group – the manufacturer of steel wires and TMT bars in India is a name resounding reliability and quality in the country's wire and steel space. Since its inception in 1966, Ramsarup has charted commendable progress. The group is currently pursuing its project of setting up an integrated steel plant aimed at a capacity of 0.7 million MTS per annum.

Ramsarup has a networth of Rs.550 crores (US \$115 million) and registered a total group turnover of more than Rs.2000 crores (US \$415 million) in the fiscal of 2008-2009. This is a Rs.150 crores leap from the 2008 figure of Rs.1850 crores (US \$385 million).

## about single line LRPC

We may call this the livewire of public and industrial infrastructure. Its utilization fosters development and ensures quality. The LRPC wires cast out of thermo-mechanically treated high carbon steel come with enhanced durability, improved stiffness and minimal deformation. Developed countries use LRPC wires extensively in construction of pre-stressed concrete girders for roads, river & railway bridges and flyovers, pre-stressed atomic reactor domes, slabs, silos, hangars, aqueducts, high-rise buildings and railway sleepers. The LRPC cast provides upgraded property even with thinner sections. Ramsarup has carved a niche in the Indian industry as a pioneer, introducing this high tech and cost effective product along with the latest technology and machines.



## the quality quotient

The name Ramsarup surfaces in the industry due to its strict adherence to quality control. Uncompromising standards of inspection guarantee congruity and trustworthiness for the LRPC product. The stages of production that undergo strict monitoring range from covering steel to the final yield, sequencing of testing equipments to effective training sessions for enhanced and updated sets of employees. The internal audit also comes under the purview of quality standardization.



## coil size & packing

Coil: ID 900mm to 2000mm

Coil Weight: Upto 2000Kg - can be adjusted as per customers' requirement

Packing: PP/ HDPE Film/ Water Proof

## products applications:

- Railway Sleeper
- Telegraph Pole
- Pipeline
- Hollow Core Block
- Bridge
- Tunnel Fixation

