



# GARWARE-WALL ROPES LTD.

## GEOSYNTHETICS DIVISION

### Specifications of High Strength Steel Wire Rope Nets

ISO 9001:2008 Company

Garware High strength steel wire rope nets comprise galvanized steel wire ropes in both vertical and horizontal directions. At the intersections vertical and horizontal chords have a tucked joint fixed with special clamps. The nets comprise an upper hang portion with only vertical chords for anchorage and a lower net portion with both vertical and horizontal chords so as to retain the boulders. The appropriate aperture size and the length of the hang and net portions are selected to suit site requirements.

To make the infrastructure more secure, it becomes necessary to protect the road and the rails lines from rockfall. Given the height of the cuttings and the small free space available, the best possible option is to drape the cutting with these nets. These systems of rockfall protection are practical solutions and have been widely adopted across the country as protection measures

Property	Test Method	Unit	Tolerance	Type 1	Type 2	Type 3	Type 4
Mesh opening size	Physical	mm	(±) 5%	300x300	400x400	450x450	450x600
Rope Diameter	IS 2266	mm	+4 %, -1 %	9	9	9	9
Linear Density of the Rope	IS 2266	kg/100m	(+) 8%	30.2	30.2	30.2	30.2
Breaking Strength of Rope	IS 2266	kg	Min.	4790	4790	4790	4790
Rope Net Strength, Horizontal	Annex B	kg/m	Min.	12500	9000	8500	8500
Rope Net Strength, Vertical	Annex B	kg/m	Min.	12500	9000	8500	6700
Punching Shear Strength	Annex B	kg	Min.	9000	8000	7500	7000
Construction of Rope	6 x 19 S (9-9-1) with Fibre (Polypropylene) core or 6 x 19 M (12-6-1) with Fiber (Polypropylene) core as per IS 2266						
Rope Grade of wire & Zinc coating	1770 N/mm <sup>2</sup> as per per IS 1835□						
Construction of the net Joints	Tucked in one direction and clamped						

#### Remarks

1. The given values are indicative which are derived from tests carried out in our In-house test facilities & verified by independent Accredited laboratories.
2. Length, width and hang sizes are as per site conditions and customer requirements.
3. The diameter of rope can be altered as per requirement. The technical parameters will be altered relevant to the applicable standard.
4. Garware-Wall Ropes Ltd. reserves the right to change the specifications before prior notice.

Regd. Off & Factory:

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**International Geosynthetic Society**