

Product Technical Data Sheet

Mechanically woven Double Twisted Hexagonal shape wire mesh Gabion Box Zinc+Pvc 2.70/3.70mm Mesh Wire, 100X120mm Mesh Opening

Sr.No	Description	Requirements			Compliance
		Mesh	Selvedge	Lacing	
A	Wire Diameter				
	Zinc Coated Wire Diameter (mm)	2.70	3.40	2.20	IS 16014:2018 table 8
	Tolerance level in diameter (mm)	{+/-}0.07	{+/-}0.09	{+/-}0.06	
B	Tensile Strength & Elongation				
	Tensile Strength Requirement N/mm ²	350-550 N/mm ²			IS 16014:2018 clause 6.1
	Elongation Requirement (%)	Minimum 10%			IS 16014:2018 clause 6.1
C	Zinc Coating Requirement (gm/m²)	Min 260	Min 270	Min 240	IS 16014:2018 table 8
D	Advance Polymer / PVC Coating Thickness (mm)				
	Requirement of Coating in mm	0.50	0.50	0.50	IS 16014:2018 table 1
	Min.requirement of coating in mm	0.40	0.40	0.40	
E	Adhesion Test	No Flakes After Testing			IS 16014:2018 clause 7.1.2
F	Mesh Opening (Test as per IS 16014)				
	Mesh Size, D (mm)	100			IS 16014:2018 table 9
	Tolerance	(+ 10%) TO (-10%)			
G	Minimum Strength Requirement of Mesh Panel				
	(i) Tensile Strength Parallel to Twist	32.00 kN/m			IS 16014:2018 Clause 6.2 and 11.2 and table 7
	(ii) Tensile Strength Perpendicular to Twist	15.50 kN/m			
	(iii) Selvedge Strength	10.20 kN/m			
	(iv) Punch Strength	17.80 kN/m			
	(v) Panel to Connection Strength (Lacing wire/ Fasteners)	10.20 kN/m			
H	Tolerance in Gabion Box Sizes				
	Length and width	(+ 5%) TO (-5%)			IS 16014:2018 table 1
	Height > 0.3 meter	(+ 5%) TO (-5%)			
	Height < 0.3 meter	(+ 10%) TO (-10%)			
I	Typical Gabion Sizes				
	Length X Width X Height (In meter) / Number of Centre Diaphragms	4X1X1 (3nos), 3X1X1 (2nos), 2X1X1 (1nos), 1.5X1X1 (0 nos), 4X1X0.5 (3nos), 3X1X0.5 (2nos), 2X1X0.5 (1nos), 4X1X0.3 (3nos), 3X1X0.3 (2nos), 2X1X0.3 (1nos)			IS 16014:2018 table 1