

Product Technical Data Sheet

**Mechanically woven Double Twisted Hexagonal shape wire mesh Green Securemesh System Zinc+Pvc
2.70/3.70mm Mesh Wire, 80X100mm 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)	80			IS 16014:2018 table 9
	Tolerance	(+ 10%) TO (-10%)			
G	Minimum Strength Requirement of Mesh Panel				
(i)	Tensile Strength Parallel to Twist	42.50 kN/m			IS 16014:2018 Clause 6.2 and 11.2 and table 7
(ii)	Tensile Strength Perpendicular to Twist	20.50 kN/m			
(iii)	Selvedge Strength	16.32 kN/m			
(iv)	Punch Strength	21.36 kN/m			
(v)	Panel to Connection Strength (Lacing wire/ Fasteners)	16.32 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	3X2X0.63(45),3X2X0.76(60),3X2X0.83(70), 4X2X0.63(45),4X2X0.76(60),4X2X0.83(70), 5X2X0.63(45),5X2X0.76(60),5X2X0.83(70), 6X2X0.63(45),6X2X0.76(60),6X2X0.83(70)			IS 16014:2018 table 5