

## Product Technical Data Sheet

**Mechanically woven Double Twisted Hexagonal shape wire mesh Gabion Box Zinc 2.70mm Mesh Wire, 80X100mm Mesh Opening**

Sr.No	Description	Requirements			Compliance
		Mesh	Selvedge	Lacing	
<b>A</b>	<b>Wire Diameter</b>				
	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>B</b>	<b>Tensile Strength &amp; Elongation</b>				
	Tensile Strength Requirement N/mm <sup>2</sup>	350-550 N/mm <sup>2</sup>			IS 16014:2018 clause 6.1
	Elongation Requirement (%)	Minimum 10%			IS 16014:2018 clause 6.1
<b>C</b>	<b>Zinc Coating Requirement (gm/m<sup>2</sup>)</b>	Min 260	Min 270	Min 240	IS 16014:2018 table 8
<b>D</b>	<b>Adhesion Test</b>	No Flakes After Testing			IS 16014:2018 clause 7.1.2
<b>E</b>	<b>Mesh Opening (Test as per IS 16014)</b>				
	Mesh Size, D (mm)	80			IS 16014:2018 table 9
	Tolerance	( + 10%) TO (-10%)			
<b>F</b>	<b>Minimum Strength Requirement of Mesh Panel</b>				
(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			
<b>G</b>	<b>Tolerance in Gabion Box Sizes</b>				
	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%)			
<b>H</b>	<b>Typical Gabion Sizes</b>				
	Length X Width X Height (In meter) / <b>Number of Centre Diaphragms</b>	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