

**SPECIFICATION “D”**  
**Zn Coated 3.0 mm Mesh Wire**  
**8x10 cm Mesh**

**Zn Coated Mechanically Woven Double Twisted Wire Mesh Gabion**

**1. Mechanical Properties:**

- a. *Tensile Strength* : The tensile strength of wire used for mechanically woven, double twisted hexagonal shaped mesh, lacing wire and stiffener, when tested shall be in accordance with the requirements of specification IS 280 : 2006 (350 - 500)N/mm at a minimum elongation of 10%.
- b. *Tensile Strength of Mesh Panel*: The minimum tensile strength of the mesh panel must be 51.0 kN/m in the parallel to twist direction and 26.5 kN/m in the perpendicular to twist direction in accordance with the requirements of IS 16014 : 2012.

**2. Physical Properties:**

- a. *Zinc Coating*: The coating weight shall be *Heavily coated and soft type conforming to the requirements of specification IS 4826 : 1972.*
- b. *Adhesion of Zinc Coating*: No flakes or crack shall be observed while testing for adhesion of zinc coating as per IS 4826 : 1972.

**3. Specifications:**

The specification and standards followed are as per below table.

| Particulars                          | Specifications / Test Methods                                 |                 |
|--------------------------------------|---|-----------------|
| <b>Mesh Type</b>                     | <b>8 x 10</b>   |                 |
| Mesh Opening 'D' (mm)                | 80  | IS 16014 : 2012 |
| Mesh Tolerance (%)                   | ± 16 to - 4   | IS 16014 : 2012 |
| Unit Dimensions                      | L X W XH  |                 |
| Tolerance in sizes of units          | L & W ± 5 %,<br>H > 0.3 m ± 5 %<br>or<br>± 10 % for H = < 0.3 | IS 16014 : 2012 |
| <b>Characteristics</b>               | <b>Zn Coated</b>  |                 |
| <b>Mesh Wire Dia (mm)</b>            | <b>3.0</b>  | IS 16014 : 2012 |
| Tolerance (+/-) mm                   | 0.08  | IS 16014 : 2012 |
| Zn coated min (gsm)                  | 270   | IS 16014 : 2012 |
| <b>Selvedge / Edge Wire Dia (mm)</b> | <b>3.9</b>  | IS 16014 : 2012 |
| Tolerance (+/-) mm                   | 0.1   | IS 16014 : 2012 |
| Zn coated min (gsm)                  | 280   | IS 16014 : 2012 |
| <b>Lacing Wire Dia mm</b>            | <b>2.2</b>  | IS 16014 : 2012 |
| Tolerance (+/-) mm                   | 0.06  | IS 16014 : 2012 |
| Zn Coated min (gsm)                  | 240   | IS 16014 : 2012 |