

Gabion Box

Galvanized (GI)



A rectangular cage of machine-woven double twisted hexagonal mesh, divided into 1 m cells by diaphragms, filled on site with hard stone. Stacked and laced, boxes form flexible, free-draining gravity structures: retaining walls, river bank protection, spurs and check dams.

Wire and mesh

	2.70 mm mesh wire	3.00 mm mesh wire
Mesh type	10×12 (D = 100 mm) or 8×10 (D = 80 mm)	same
Mesh wire	2.70 mm	3.00 mm
Selvedge wire	3.40 mm	3.90 mm
Lacing wire	2.20 mm	2.20 mm

Sizes

Size L × W × H (m)	Volume (m³)	Diaphragms	Weight, 2.70 / 3.00 mm (kg)	Stone (t, approx.)
1.5 × 1 × 1	1.50	0	11.0 / 13.9	2.5
2 × 1 × 1	2.00	1	15.1 / 18.9	3.4
3 × 1 × 1	3.00	2	21.7 / 27.0	5.1
4 × 1 × 1	4.00	3	28.3 / 35.1	6.8
2 × 1 × 0.5	1.00	1	10.6 / 13.4	1.7
3 × 1 × 0.5	1.50	2	15.4 / 19.2	2.5
4 × 1 × 0.5	2.00	3	19.9 / 24.9	3.4
2 × 1 × 0.3	0.60	1	8.8 / 11.2	1.0
3 × 1 × 0.3	0.90	2	12.8 / 16.0	1.5
4 × 1 × 0.3	1.20	3	16.6 / 20.8	2.0

- Minimum zinc on the core wire (IS 16014:2024 Table 8, = IS 4826 heavy coated): 2.20 mm → 240 g/m², 2.70 mm → 260, 3.00 mm → 270, 3.40 mm → 270, 3.90 mm → 280.
- Tolerances: L and W ±5%; H ±5% above 0.3 m, ±10% at 0.3 m; mesh opening D ±10%.
- Weights: empty box with diaphragms and 3% lacing wire, 10×12 mesh; stone at 1.7 t/m³ (IS 14458-6).

Typical uses

Retaining and breast walls on hill roads · river training and bank protection · spurs and launching aprons · check dams and weirs · landscape walls

Standard: IS 16014:2024 · **Quality:** ISO 9001:2015, Cert. No. 305024011282Q
HSN: 7314 41 10 · **GST:** 18%

