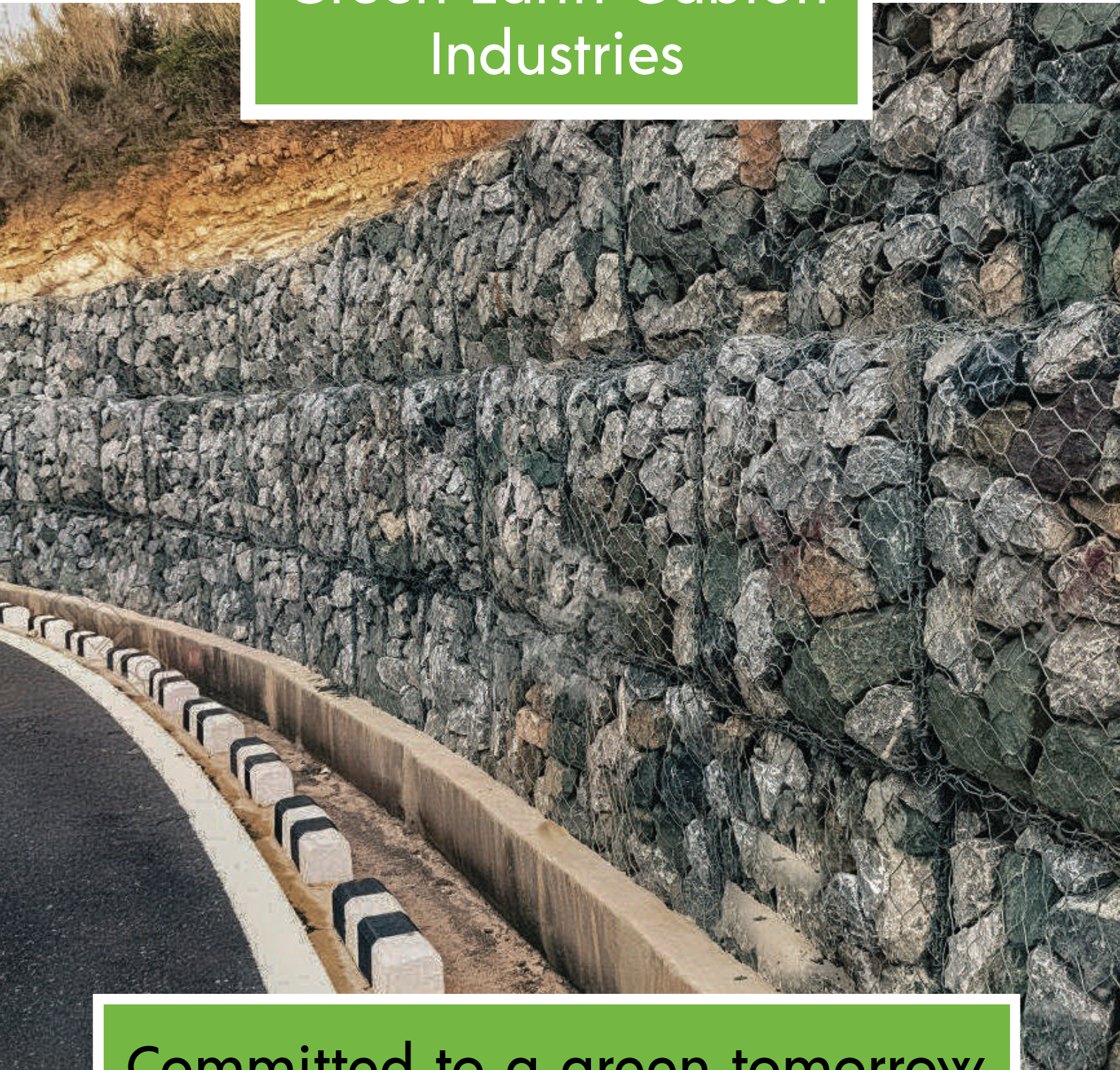


Green Earth Gabion Industries



Committed to a green tomorrow



Manufacturers of Gabion, Gabion Box and Chain Link Fence





About us:

Green Earth Gabion Industries is a professional Geo-Technical and Environmental Engineering solutions provider. Located at Paonta Sahib , nestled in devbhumi Himachal Pradesh, we are a team committed to protecting the environment and nature. We at Green Earth believe in providing best quality products to help achieve our goal of Environment protection and nature conservation , going alongside infrastructure development of our beautiful country.

We're proud to be a part of the Make in India initiative of the Government of India and our greenfield manufacturing facility at Paonta Sahib, nestled in the midst of beautiful lush green trees is a proof of our commitment.

We are manufacturers of Gabion, Gabion box and Chain link (both Zinc and PVC coated) manufactured by highly automated, state of the art imported machines that adhere and conform to IS 16014: 2012 , MORTH and ASTM specifications.

Our upcoming laboratory is being set up as per guidelines laid down by Bureau of Indian Standards (ISI) and shall ensure class-leading quality of our products. We offer customized solutions as per client and site requirements.

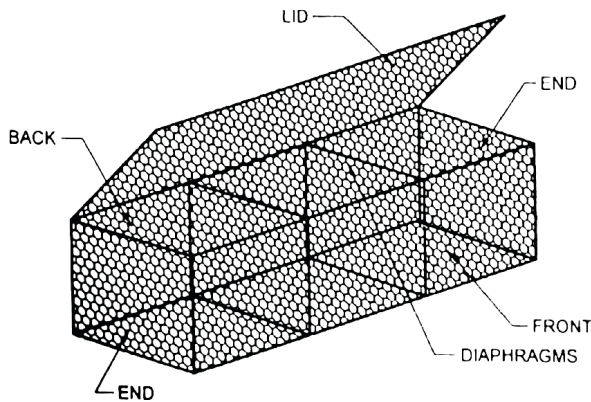
About The promoters

Green Earth Gabion Industries is a partnership firm promoted by Mr. Kapil Anand who has 15 years industry experience. He is a third generation entrepreneur having diverse interests in the field of Mining (limestone), transportation and Logistics, Fuel stations, land excavation and hill-slope stabilization. Green Earth Gabion Inds is his greenfield venture , an attempt to further diversify into a related yet different industry. Further his love for preserving the environment , further inclined him to set up this venture. He was joined by his dear friend and old business associate Mr. Vimal Sharma to make this dream a reality. Mr. Vimal Sharma has 15 years of vast business experience in the field of transport and fuel stations. He owns a fleet of trucks which are deployed in a number of industries such as mining, Oil marketing companies etc.

Gabion and its Benefits:

GI and PVC Double Twisted Hexagonal

Gabion Boxes

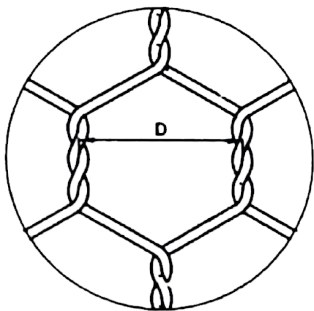


Gabion Boxes are rectangular structures made of double twisted, hexagonally woven steel wire mesh. They comprise of compartments separated by internal diaphragm walls. The boxes are filled with natural stone at the project site to form structures that are solid, flexible, durable and permeable.

Gabion boxes are applicable wherever there is a requirement for earth retention and reinforcement. They are used as retaining walls, water channel linings, river barriers, for protection of railways and roadways, weirs, revetments, slope protection and for flood control and erosion control. Their anti-corrosion properties make them immensely suitable as environmental and geo-technical building blocks.

Our Gabion Boxes are as per ISI Standards. They come in a variety of sizes and are either PVC coated or Zinc coated according to the project requirement. We take particular care to conform to technical specifications and strength requirement for each Gabion box project that we are entrusted with. Our attention to detail and firm commitment to quality makes us a world-class manufacturer of Gabion boxes.

Min Mass of Zinc coating for Heavily Coated, Soft type for different wire used in Gabion, Revet Mattress & Rockfall Netting



Mesh Type and Nominals

S.No	Nominal Diameter of GI Wire (mm)	Mass of Zinc Coating (g/m ²)	Permitted Tolerances on Wire Diameters (mm)
I	2.00	240	±0.05
ii	2.20	240	±0.06
iii	2.40	260	±0.06
iv	2.70	260	±0.07
v	3.00	270	±0.08
vi	3.40	270	±0.09
vii	3.90	280	±0.10

Mesh & Box Characteristics

S.No	Characteristics			
1	Mesh Type	100x120		
		D = 100mm		
		Only Zinc Coating	Zn + PVC Coated	
2.	Mesh Wire Dia (mm)	2.70	3.00	2.70/3.70
3.	Edge / Selvedge Wire Dia (mm)	3.40	3.90	3.40/4.40
4.	Lacing Wire Dia (mm)	2.20	2.20	2.20/3.20
5.	PVC Coating Thickness (mm)	N/A		Nominal - 0.50
				Minimum - 0.40
6.	Minium Tensile Strength (Parallel to Twist) KN/m	32.00	40.00	32.00
7.	Minium Tensile Strength Prependicular to Twist (KN/m)	15.50	20.50	15.50

Flexibility and durability:



Being made of flexible wire, gabion structures are partially flexible unlike rigid cement concrete structures, naturally adjusting to variations in earth settlements without the structure getting fractured or collapsing. Being filled up with natural stones, water flows through the gaps thereby avoiding water and soil pressure to build up on the structure. Further, with passage of time ,the gaps are filled with silt/mud which results in growth of natural grass and shrubs which provide bonding of the stones , further increasing the strength and durability of the structures.

Economical:



Compared to concrete structures, gabion structures are much more economical as the filler is natural stones found in vicinity. No foundation and casting is usually required.

Extendable:

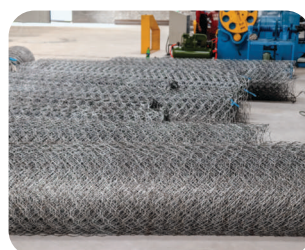


As per site requirement, these strucures can easily be extended simply by attaching additional boxes to the existing ones. Likewise, these structures are very easy to maintain by simply attaching additional mesh and binding with wire.

Environment friendly:



Gabion structures have a pleasing natural appearance and since no cement etc is used they carry virtually no carbon impact on the environment. Since these structures can be erected by unskilled labour quickly, no machines are required further reducing use of fuel used.



Commonly Used Gabion Boxes

s.no	L X W X H	Diaphragm	Sq. Mt
1	1.00 *1.00*1.00	6
2	1.50*1.00*1.00	8
3	2.00*1.00*0.30	1	6.1
4	2.00*1.00*0.50	1	7.5
5	2.00*1.00*1.00	1	11
6	2.50*1.00*1.00	1	13
7	3.00*1.00*0.30	2	9
8	3.00*1.00*0.50	2	11
9	3.00*1.00*1.00	2	16
10	3.00*1.00*1.50	2	21

Tolerance in Size of Gabion Boxes

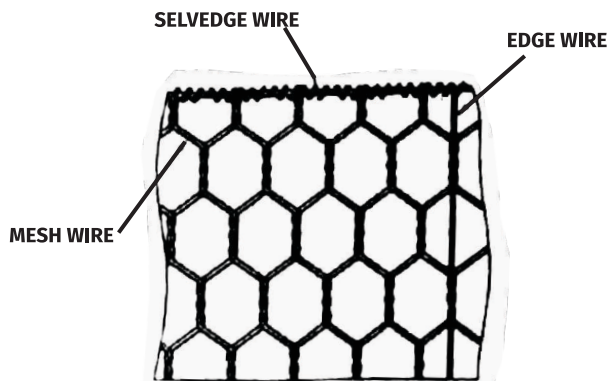
Length \pm 5 percent* Width \pm 5 percent
 Height $>$ 0.3m... \pm 5 percent
 Height \leq 0.3m... \pm 10 percent

Area Calculation

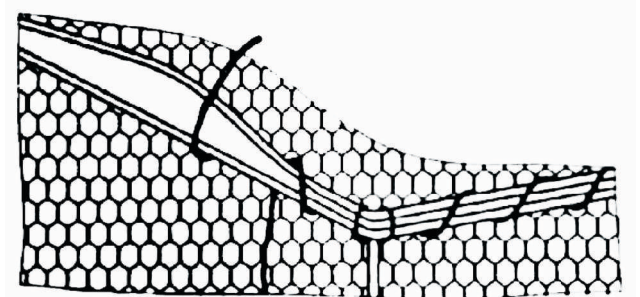
$L \times 2 (w+H) + (2 + \text{No of Diaphragm}) \times W \times H$

Example

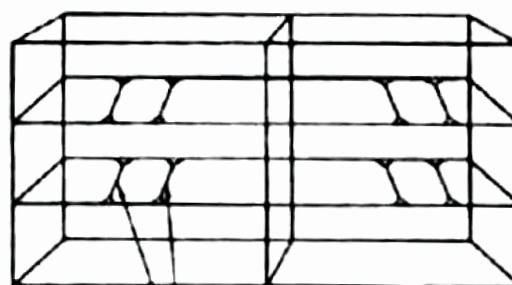
Box Size: 3.00*1.00*0.30
 $3 \times 2(1+0.3) + (2+2) \times 1 \times 0.3 = 9$



MESH WIRE, SELVEDGE
AND EDGE WIRE



LACING WIRE FOR TYING



BRACING WIRE

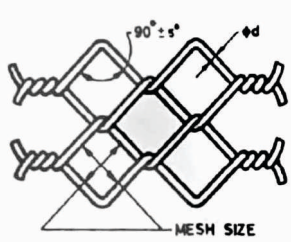
BRACING WIRE/STIFFNER

GI and PVC chain Link Fence

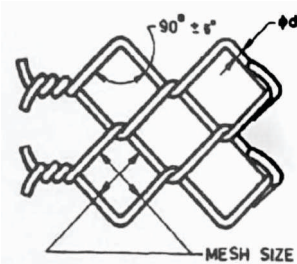


Produced from high tensile steel wires our top quality chain link fencing are produced by helically combining the wires into a continuous fibre. Available with two different coatings 1) Zinc 2) PVC all the fences material manufactured by us can be customized according to your needs.

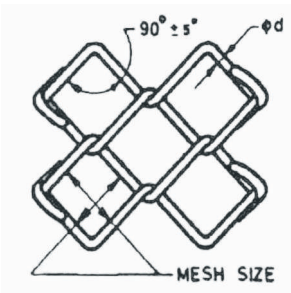
Zinc and PVC coating protects the fences from corrosion and other external pressures further adding long life to it. With high tensile strength and quality added to the fences it is applicable for all such places where a secure, strong and durable arrangement of fencing is required.



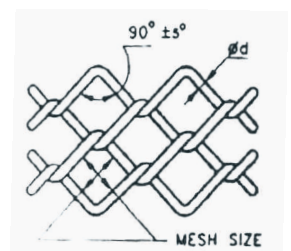
a) Both End Twisted



b) One end twisted & one end Knuckled



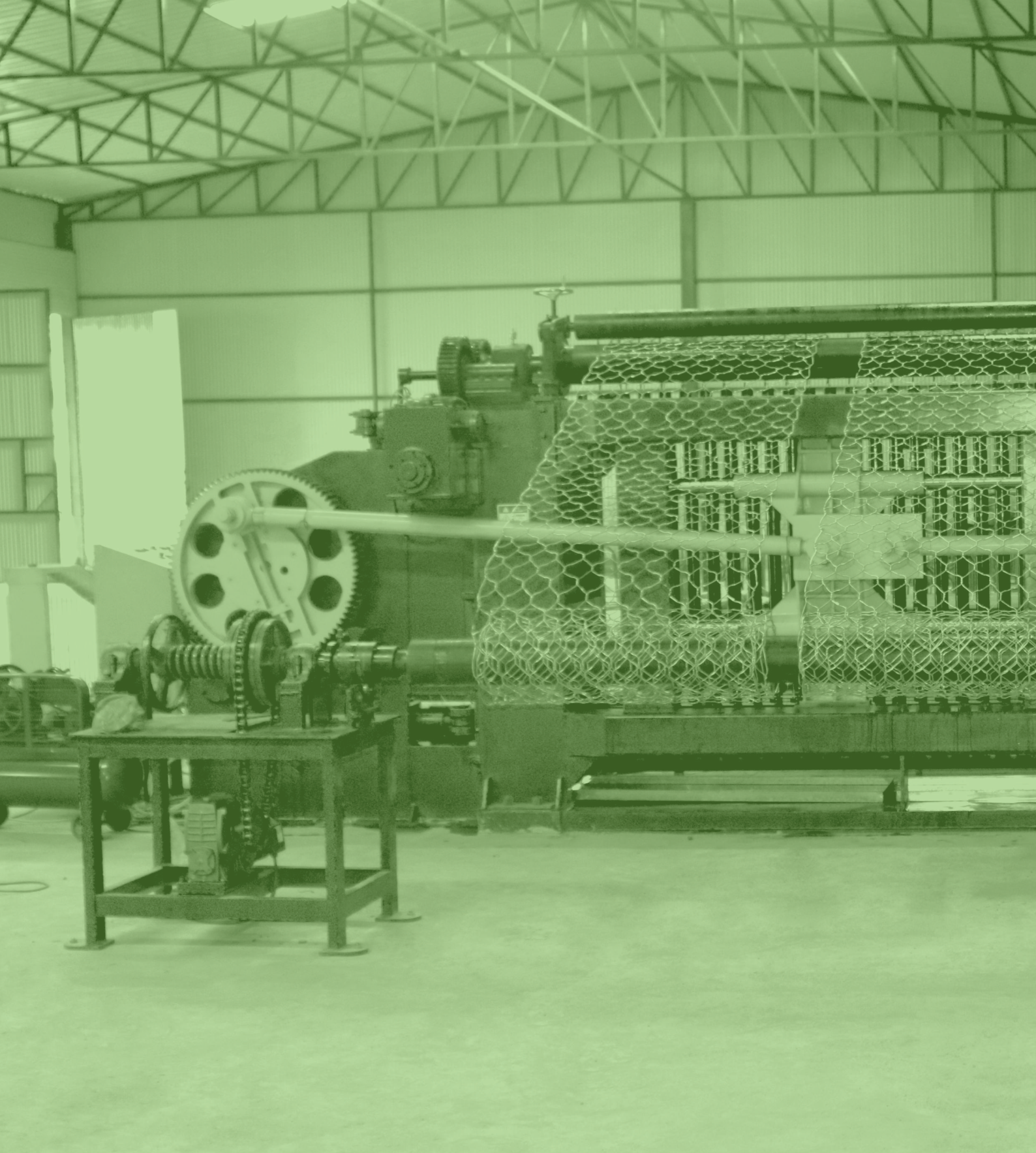
c) Both end Knuckled



d) Both end without twisted/Knuckled

Dimensions and Tolerances				
Mesh Size(mm)	Nominal Dia of Mesh Wire(mm)	Number of wires		
		Diameter (mm)	Upto & including 2m width	Above 2m Width
25 ± 3	2.00	2.50	2	3
	2.50	3.15	2	3
	3.15	4.00	2	3
40 ± 4	2.00	2.50	2	3
	2.50	3.15	2	3
	3.15	4.00	2	3
	4.00	4.50	2	3
50 ± 4	2.50	3.15	2	3
	3.15	4.00	2	3
	4.00	4.50	2	3
	4.50	5.00	2	3
63 ± 4	3.15	4.00	2	3
	4.00	4.50	2	3
	4.50	5.00	2	3
75 ± 4	3.15	4.00	2	3
	4.00	4.50	2	3
	4.50	5.00	2	3
	5.00	5.50	2	3
100 ± 5	3.15	4.00	2	3
	4.00	4.50	2	3
	4.50	5.00	2	3
	5.00	5.50	2	3
125 ± 5	4.00	4.50	2	3
	4.50	5.00	2	3
	5.00	5.50	2	3
150 ± 5	4.00	4.50	2	3
	4.50	5.00	2	3
	5.00	5.50	2	3

P.S : Sizes other than those mentioned above shall be supplied subjected to agreement.



GREENEARTH GABION INDUSTRIES

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