



GTI Tailmesh
Gabion Fascia Units

**Strong
Economic
Sustainable**

www.gabionindia.com



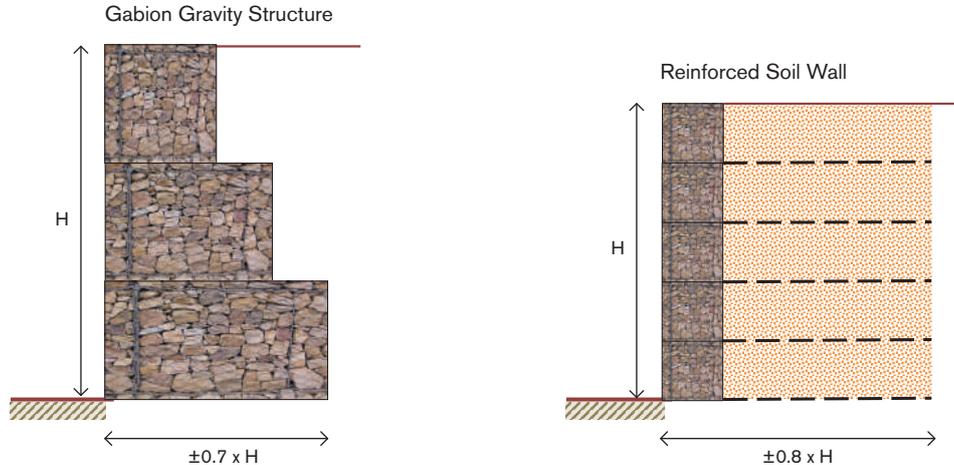
Bringing perfection with experience

We at GTI, are a global service provider of geo-synthetics, geotechnical engineering and ground improvement techniques. We offer best-suited solutions for a variety of projects ranging from roads, railways, hydraulics, mining & geo-environment sector. Various certifications held by us are a testament to our quality assurance systems that are considered industry benchmarks. Our clientele involves all major Government institutions & industry majors like L&T, Tata Projects, Vedanta.

For over a decade, we have been devoting a great deal of time and effort to bring ease and innovation in the field of Geo-synthetics. We embrace the challenges along our way and are fascinated by them and that is what has enabled us to grow as market leaders in the field of Geo-technical Engineering. Seeking exceptional solutions to unconventional problems is what drives us every day at GTI.



GTI Tailmesh Gabion Fascia Units



The Tailmesh is the reinforcing element of the RSW. Layers of soil sandwiching the Tailmesh are compacted to a required degree to form the RSW. It is to be noted that Tailmesh reinforcement is suitable in RSWs of relatively low heights only. For sizable walls, higher strength reinforcement provided by Geogrids is required.

GTI Tailmesh Gabion Fascia Units are used to build Reinforced Soil Walls (RSW) as an alternative to Gabion Gravity Walls. The essential feature of GTI Tailmesh Gabion Fascia Units is a 'tail' made of the same hexagonal-shaped double twisted wire mesh (DT mesh) as the body of the gabion box, and the tail is an integral part of the base of the unit, i.e. there is no joint, it is a continuous sheet of DT mesh. Hence the name 'Tailmesh'.



Factors for choosing Tailmesh RSW over Gabion Gravity Wall

Soil Filling Requirement

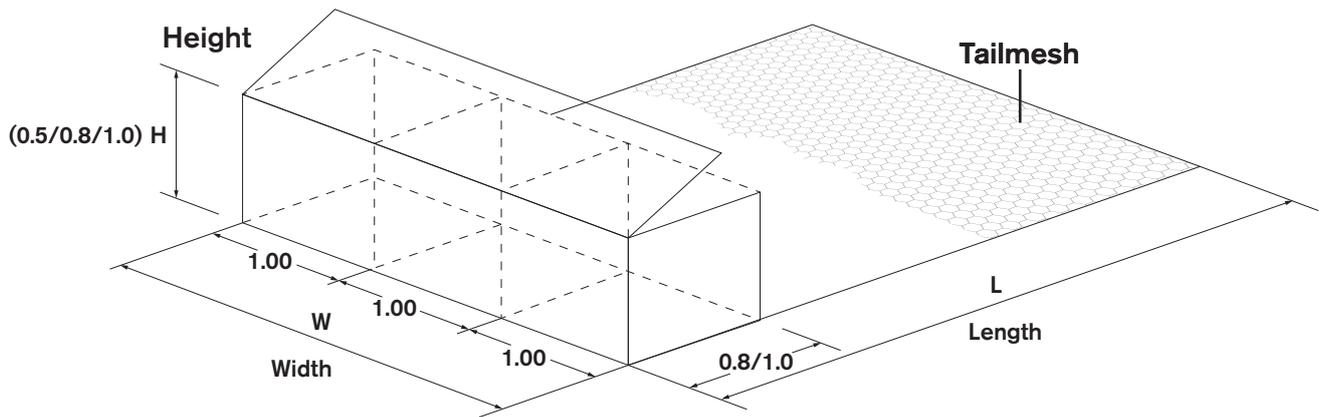
Often, the purpose of the Gabion structure is to retain earth to be filled in a location to form a road or any form of the base at the top of the structure. In such constructions, it is convenient to fill in the soil layers from the foundation and compact and reinforce with Tailmesh of the Gabion Fascia Units and build to the top.

Stone Scarcity

Some locations simply have stones very hard to come by. So, to minimize the use of stone, Tailmesh RSW is chosen over Gabion Gravity Wall.

Economy

When earthmoving and compacting machinery is easily available at a site, it can be economical for the contractor to build an RSW. GTI Tailmesh Gabion Fascia Units are the preferred option at such times.





GTI Green Tailmesh Gabion Sloping Fascia Units

While GTI Tailmesh Gabion Fascia Units form a nearly vertical wall, it is often required to build a wall of less than vertical angle, more in the range of 60° to 70°. In such walls, the stability requirements become less stringent and the rigidity provided by the stone-filled gabion boxes can be replaced by a sloping fascia and a soil fill with a vegetative cover developing on the sloping fascia. Thus the name GTI 'Green' Tailmesh of these sloping fascia units.

The 'Green' Tailmesh Gabion Sloping Fascia Unit is made from DT mesh, the sloping fascia part of which is reinforced with steel Weldmesh to provide rigidity in the absence of a stone fill. Also embedded in the sloping fascia part is GTI Geo-mat made up of rigid biological fibres to allow sodding/turfing/hydroseeding and growth of vegetation on the fascia.

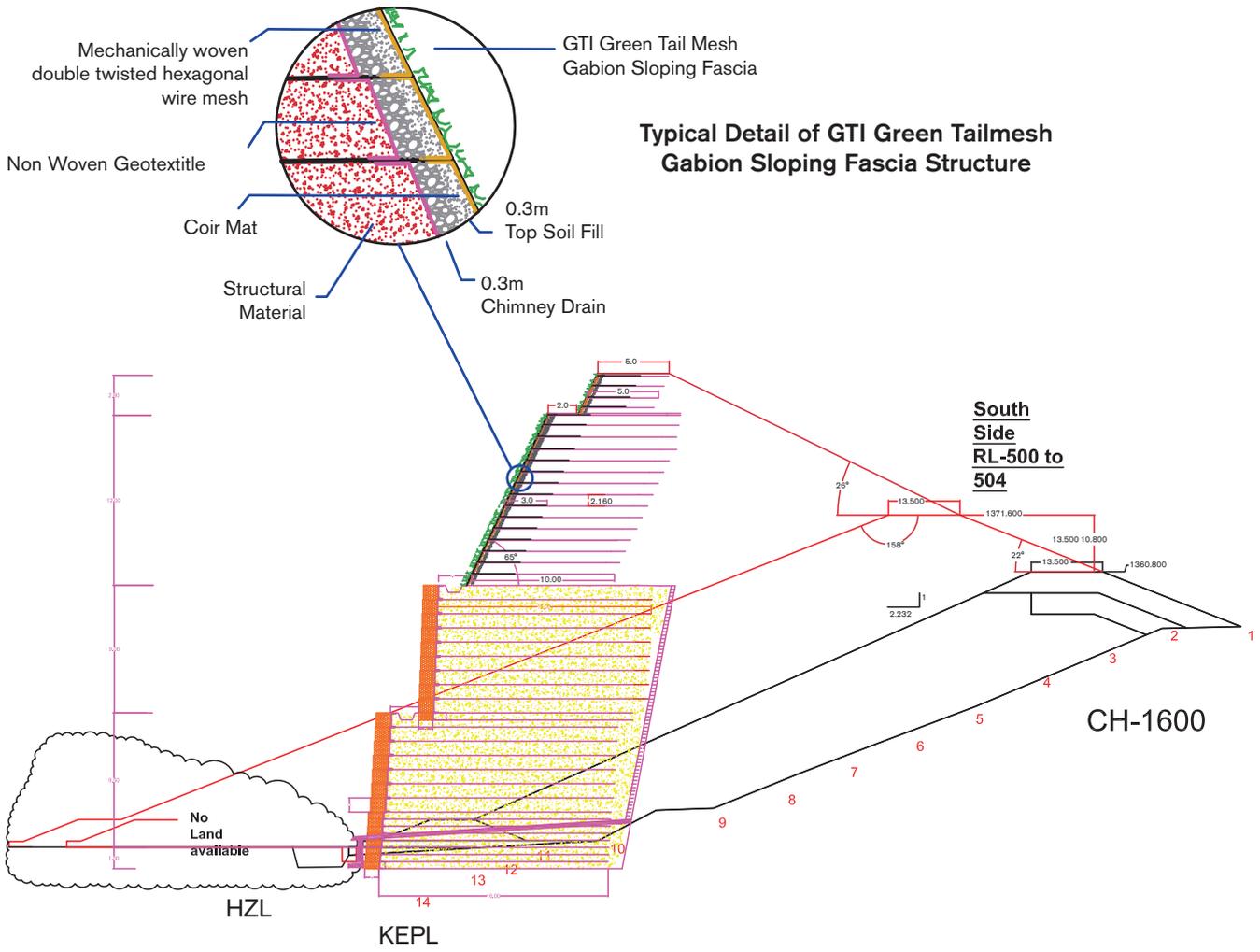


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In high RSWs, a 'Green' Tailmesh sloped wall is used on top of a vertical Gabion Fascia RSW to provide a stable structure. Below is an illustrative design showing typical details of a 'Green' Tailmesh Gabion Sloping Fascia RSW.



Typical Sizes and Mesh Characteristics of GTI Tailmesh Gabion Fascia Units

Sr. No.	Characteristics	Mesh Type	
		10 x 12 D = 100mm Zinc/Zinc Alloy ² +Polymer Coated	8 x 10 D = 8mm Zinc/Zinc Alloy ² +Polymer Coated
1	Mesh Wire dia, mm	2.70/3.70 ¹⁾	2.70/3.70 ¹⁾
2	Edge/Selvedge wire dia, mm	3.40/4.40 ¹⁾	3.40/4.40 ¹⁾
3	Lacing wire dia, mm	2.20/3.20 ¹⁾	2.20/3.20 ¹⁾
4	Polymer coating thickness, mm	Nominal—0.50 Minimum—0.40	Nominal—0.50 Minimum—0.40
5	Typical Sizes Length x width x Height (m) (Number of diaphragms)	3 x 2 x 0.5 (1 No.), 3 x 3 x 0.5 (2 Nos.), 4 x 2 x 0.5 (1 No.), 4 x 3 x 0.5 (2 Nos.), 5 x 2 x 0.5 (1 No.), 5 x 3 x 0.5 (2 Nos.), 6 x 2 x 0.5 (1 No.), 6 x 3 x 0.5 (2 Nos.) 3 x 2 x 1 (1 No.), 3 x 3 x 1 (2 Nos.), 4 x 2 x 1 (1 No.), 4 x 3 x 1 (2 Nos.), 5 x 2 x 1 (2 Nos.), 5 x 3 x 1 (2 Nos.) 3 x 2 x 1 (1 No.), 6 x 3 x 1 (2 Nos.) 3 x 2 x 0.8 (1 No.), 3 x 3 x 0.8 (2 Nos.), 4 x 2 x 0.8 (1 No.), 4 x 3 x 0.8 (2 Nos.), 5 x 2 x 0.8 (2 Nos.), 5 x 3 x 0.8 (2 Nos.), 3 x 2 x 0.8 (1 No.), 6 x 3 x 0.8 (2 Nos.)	
6	Tolerances in size of Units	Length & Width... ±5 %, Height > 0.3 m... ±5 % & Height < 0.3 m... ± 10%	

1) Internal Diameter/external diameter of polymer coated wire.

2) Zinc Alloy shall consist of 90 percent zinc +10 percent aluminium or 95 percent zinc +5 percent Aluminium

Typical Sizes and Mesh Characteristics of GTI 'Green' Tailmesh Gabion Sloping Fascia Units

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4	Polymer coating thickness, mm	Nominal—0.50 Minimum—0.40	Nominal—0.50 Minimum—0.40
5	Typical Sizes Length x width x Height (m) (Face Angle)	3 x 2 x 0.63 (45), 3 x 2 x 0.76 (60), 3 x 2 x 0.83 (70), 3 x 3 x 0.63 (45), 3 x 3 x 0.76 (60), 3 x 3 x 0.80 (65), 3 x 3 x 0.83 (70), 4 x 2 x 0.63 (45), 4 x 2 x 0.76 (60), 4 x 2 x 0.80 (65), 4 x 2 x 0.83 (70), 4 x 3 x 0.63 (45), 4 x 3 x 0.76 (65), 4 x 3 x 0.83 (70), 5 x 2 x 0.63 (45), 3 x 2 x 0.76 (60), 3 x 2 x 0.80 (65), 5 x 2 x 0.83 (70), 5 x 3 x 0.63 (60), 5 x 3 x 0.80 (65), 5 x 3 x 0.83 (70), 6 x 2 x 0.63 (45), 6 x 2 x 0.76 (60), 6 x 2 x 0.80 (65), 6 x 2 x 0.83 (70), 6 x 3 x 0.63 (45), 6 x 3 x 0.80 (65), 4 x 3 x 0.83 (70),	
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Uncompromised quality standards

GTI Tailmesh Gabion Fascia Units are manufactured in the factories of **M/s Gabion Technologies India Private Limited, New Delhi** in strict adherence to the standards laid out by the Bureau of Indian Standards, New Delhi in IS 16014: 2018. This standard is equivalent to relevant British and American Standards.





Head Office

38, 2nd Floor, Mohammadpur,
Near Bhikaji Cama Place, New Delhi

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