

Terra Aqua

Terra-Force Revetment Units for Force Protection

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Product Description:

Terra-Force are collapsible cellular confinement units designed for fast deployment in the construction of force protection berms and revetments used in high security barricades for military field applications. The **Terra-Force** units are manufactured from bi-axially reinforced double twisted hexagonal woven wire mesh. The flexibility of the woven wire mesh provides superior strength and versatility in nearly any site condition. For containment of a variety of possible infill materials each individual cell is lined with a non-woven, permeable type geotextile. For temporary applications, U-clips may be used to join adjacent units together. For permanent structures and for stacking individual units, the use of steel hog rings or interlocking fastening clips are recommended.

Product Specifications:

The structural shell of the **Terra-Force** unit is manufactured from steel wire mesh. The lining is manufactured from a non-woven needle punch geotextile for maximum permeability and material confinement. The mesh type is referred to as type 8x10 galvanized as per ASTM A975-97 with the following characteristics.

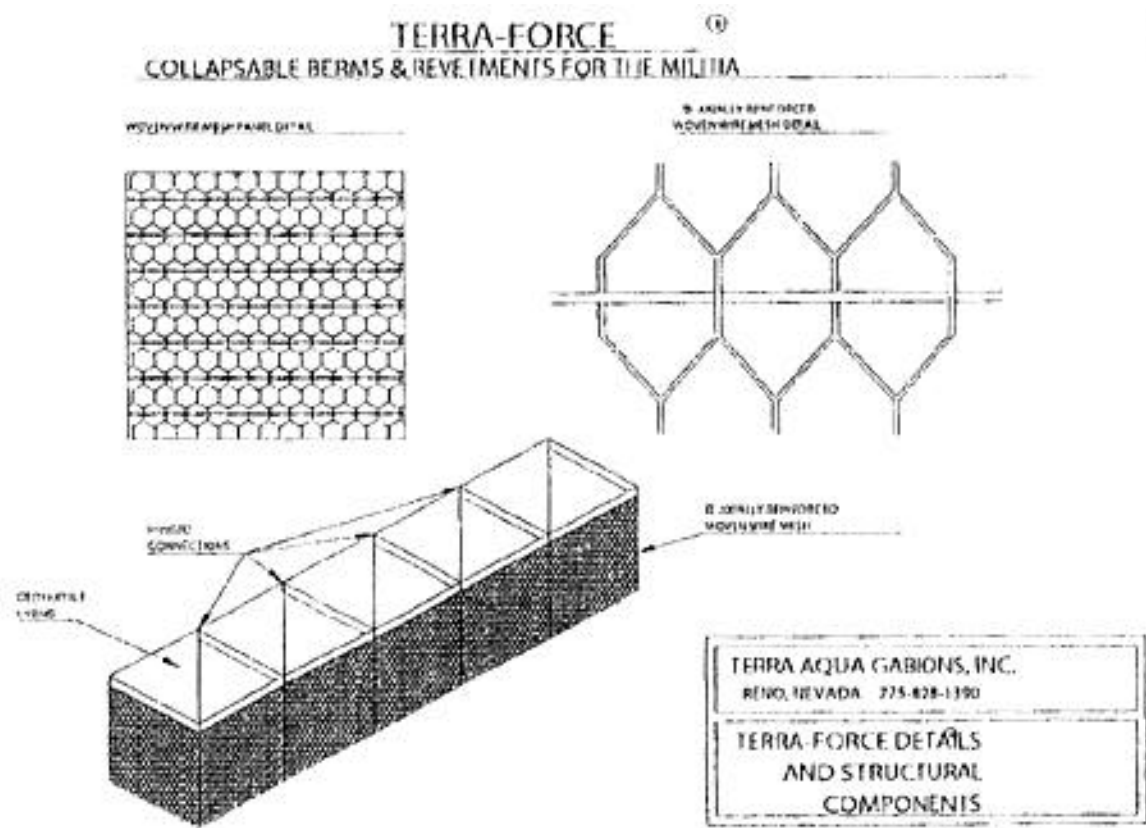
Technical specifications of galvanized wire mesh 8x10

Properties	Test Results	Test Method
Tensile strength	60,000 – 75,000 psi	ASTM A641-97
Elongation	≥ 12%	ASTM A370-92
Zinc coating	Class III soft temper	ASTM A641-97
Adhesion of zinc coating	No cracking or flaking, 6 turns by manual contact	ASTM A641-97
Corrosion Creep	Max 1 inch @ 2000 hrs, HCl 50% solution	ASTM A975-97

Deployment Guide:

Terra-Force units are supplied in a collapsed form, bundled for shipping and for maximum portability in the field. Once unbundled, the unit is easily deployed with one or two persons. The unit is expanded by setting the folded bundle upright and by generating opposite force to each end. The expanded unit is then placed into position and additional units may then be set into place if required. U-clips or fastening clips may be used to attach adjacent units together prior to filling. The filling process is performed either manually or with any available excavation type machinery. Filling is performed such that the infill material is equally displaced in all adjacent cells. Care is taken to insure that the

units expand uniformly during the filling operation. For multi-layer structures, the lower units are filled prior to placement of the overlaying unit. The perimeter of the base of the upper unit is fastened to the top edge of the lower unit with fastening clips or ties. For structures higher than two layers, a 3-2-1 pyramid configuration is recommended where the base width of the structure is equal to the height of the structure.



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