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	2.70/3.70mm PVC coated Gabion	
	Mattress	
	Spec. No. 270370Matt Issue 6	08.02.06

Format:

Betafence Ltd mattresses are manufactured from double twist woven hexagonal wire netting comprising hard drawn mild steel wires in the galvanised and PVC coated condition.

Betafence Ltd mattresses: are supplied “flat packed” complete with sufficient galvanised and PVC coated lacing wire for assembly on site.

Pneumatic “Hog ring” clipping tools are available for hire on request for mattress assembly.

Specification:

Mesh Aperture	Mesh Wire Diameter	Selvedge wire diameter	Wire Tensile	Corrosion Protection	PVC	Durability
80mm x 100mm (nominal)	2.70mm ID 3.70mm OD	3.40mm ID 4.40mm OD	51 Kg/mm ² min	Galvanised 240g /m ² min. with an extruded PVC coating of nominal 0.50mm thickness	Colour Grey RAL 7037 Type: 1A Spec gravity: 1.3-1.35gm/cm ³ Strength: 20.6MPa min Hardness : 50-60 Shore "D" Brittleness :Test method D746 Resistance to abrasion: Test method D1242 Salt Spray: Test method B117 (3000hrs) UV Stability: Test method D1499 & G23 Modulus of elasticity: Test method D412	120 years in a mild environment
References						
ASTM A975-75	BS1052 1980	BS1052 1980	BS 1052-1980 table 3 "Mild Steel Wires"	BS EN 10244 -2	Complies with ASTM 975-97 inc. 9.4, 9.6 & 9.8	

Rock-fill:

Gabion fill shall be a hard durable and non-frost susceptible (rock or stone type), block size of 75mm – 150mm.

Construction:

All rock-fill shall be packed tightly to minimise voids and the rock-fill on the exposed face of the gabion is to be hand-packed.

Assembly:

After filling of the mattress, the lid panel should be firmly secured along all outer edges and diaphragms, by either continuous lacing with PVC coated lacing wire or clipped using stainless steel hog rings. Hog rings should be placed at every other mesh aperture.

Modification:

To install mattresses on curves or over embankments, the preferred method of modification is to cut or overlap necessary panels and reconnect using either lacing wire or clips as previously described.

For curves, the base and lid panels of the mattress are cut or overlapped, any diaphragm panels are cut down to length.

For mattresses laid over embankments, the side and diaphragm panels are cut and overlapped. Lid and base panels are bent to achieve the curve.

