FLEXIFORM REVETMENT MATTRESSES

Flexiform revetment mattresses can be factory or site assembled using purpose built moulds into panel sections to required sizes to meet specific applications to suit the geometry of the location. Flexiform revetment mattresses are suitable for applications in:

Total Versatility

- Harbours
- Docks
- Lakes
- River Banks
- Break Waters
- Weirs
- Temporary roads
- Sea Defense
- Slipways
- Outfalls
- Reclamation applications
- Environmental applications
- Slope Stabilisation
- Rail embankments

Flexiform revetment mattress is a flexible concrete mattress used for protection against river and sea embankment erosion. Its flexible construction ensures the flexiform revetment mattress can be laid to cope with variations in embankment profile to afford maximum protection against erosion.

The submat flexible concrete mattress was introduced in 1991 and has established an impressive record in combating erosion. Following installation the flexiform revetment mattress may be filled in between the concrete blocks with material to promote growth with a seed mixture suitable for the application.

Flexiform revetment mattresses consist of high strength concrete segments linked together with a network of polypropylene rope to form a continuos flexible concrete barrier to sizes up to 10m x 3m.

Flexiform revetment mattresses are profiled to enable a high degree of flexibility in two plains and provide protection in various applications.

300mm thick mattresses in storage

150mm thick mattresses in storage

150mm thick mattresses being lifted

Coastal protection mattress installation

Revetment Mattress lining coastal Protection

Temporary Road Surface

TECHNICAL DATA

Flexiform revetment mattresses are manufactured with a mix design strength conforming to grade C30 / table 9 BS 5328.

STANDARD THICKNESSES

150mm, 300mm, 450mm

STANDARD DENSITY

2.4 Tonnes / Cubic Metre.

Lightweight and Heavy Density options are available from 1.8 - 3.6 Te / Cubic Metre.

WEIGHTS (Standard Density)

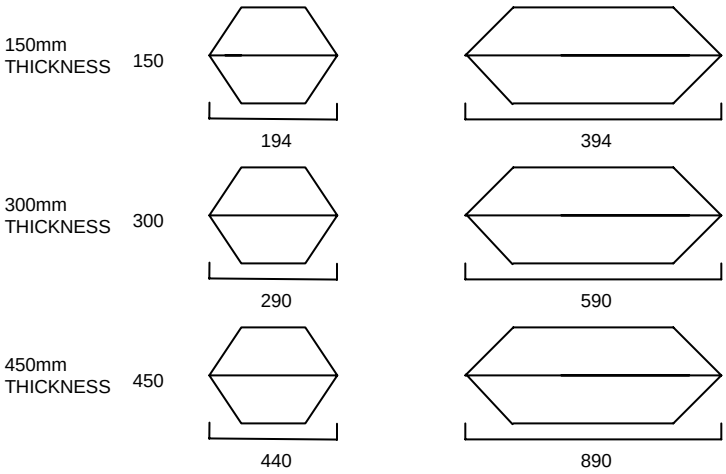
Approx. Weights / m² (Tonnes)	In Air	Submerged
150mm	0.275	0.152
300mm	0.510	0.279
450mm	0.770	0.430

STANDARD REVETMENT MATTRESS SIZES

Standard mould sizes are 10m x 3m plan area. Flexiform revetment mattresses may be manufactured in any size within mould dimensions subject to standard block sizes. Mattresses in excess of standard mould sizes may be manufactured to suit application.

STANDARD BLOCK SIZES (N.T.S)

MEASUREMENT IN MM



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