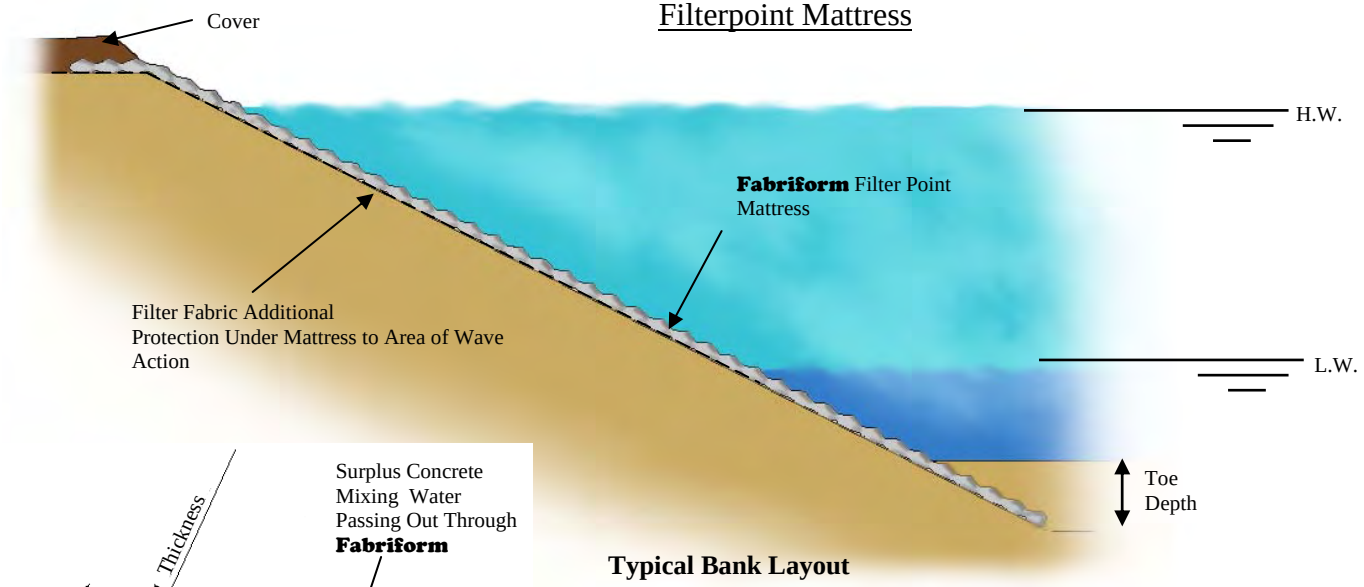
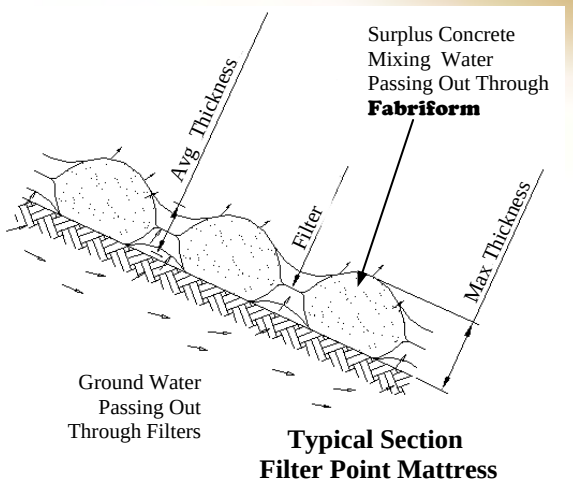
Fabriform Mattress Protection—Against Wave Action

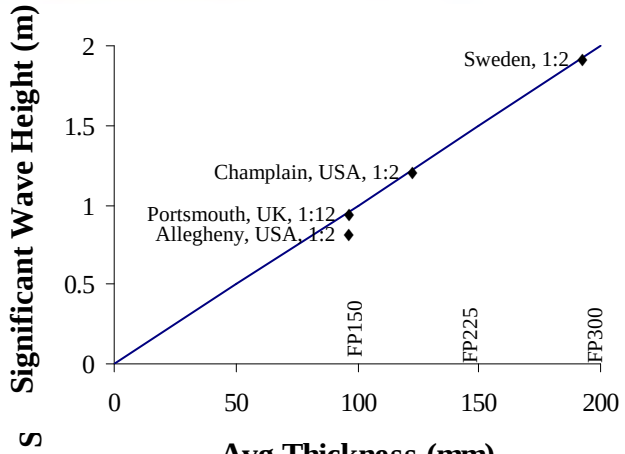
Filterpoint Mattress



Typical Bank Layout



Typical Section Filter Point Mattress



(Period of Exposure 20-30 Years)

Design Performance of Filter Point Mattress

The above graph can be used to determine mattress thickness where mattress permeability is greater than that of the underlying soil.

Mattress permeability = $5x10^{-3}$ m/s and allowing for a degree of silt clogging is taken effectively as $1x10^{-3}$ m/s. Filter point mattress is therefore effective over sands, silts & clays for wave action.

Proserve Ltd.
80 Priory Road,
Kenilworth,
Warwickshire, CV8 1LQ,
England

UK: 01926 512222
Int: 00 44 1926 512222
office@proserveltd.co.uk
www.proserveltd.co.uk

Fabriform

Sub-soil Permeability from CIRIA/CUR Rock Manual

Particle Type	Range of Diameters (mm)	Order of Permeability K_s (m/s)
Large Stone	2500-850	1.00 (turbulent)
One-man Stone	300-100	0.30 (turbulent)
Gravel	80-10	0.10 (turbulent)
Very Coarse Sand	3-1	0.01
Coarse Sand	2-0.5	0.001
Medium Sand	0.5-0.25	0.001
Sand & Gravel	10-0.05	0.0001 (more than 10% sand)
Fine sand	0.25-0.05	0.00001
Silty Sand	2-0.005	0.000001
Sandy Clay	1-0.001	0.0000001