

ProFab SILT CURTAIN

DESCRIPTION

Global Synthetics ProFab silt curtain has been specifically developed for Australian marine and civil contractors providing a balance between price, quality, effectiveness and durability.

The float casing is constructed from PVC coated polyester which is longitudinally reinforced with polyester webbing. Floats are integrated into the casing using oil resistant, crumble proof closed cell PE foam block. A webbing reinforced PVC coated chain pocket is attached to the bottom of the skirt.

Standard skirt fabric is 270gsm non woven polyester however a range of alternative materials are available including woven and non woven geotextile, high strength woven polyester, impermeable coated fabrics and various mesh configurations.

Curtains are available in 10, 15 or 20m sections. A joining system has been developed to provide simple but effective removal and attachment of sections both on land or in the water. The system uses ASTM 962 pattern connectors to join the floats, tension members and D rings use galvanized shackles and skirts are joined using marine zippers or eyelets and ties. Long length curtains are factory pre-joined to provide easily deployable bundles minimizing the on site installation time.

TYPICAL PROPERTIES

SILT CURTAIN FLOAT MODELS

MODEL NO.	FLOAT SIZE	FREEBOARD	CASING WGHT	BALLAST CHAIN	SKIRT RANGE
SC150TII	100x100mm	150mm	610gsm	6-8mm	0.5-6m
SC200TII	150x150mm	200mm	610-900gsm	8-12mm	1-10m
SC300TII	200x200mm	300mm	900gsm	8-16mm	1-20m
SC200HS	150x150mm	200mm	1000gsm	10-12mm	1-10m
SC300HS	200x200mm	300mm	1000gsm	10-20mm	1-20m

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SILT CURTAIN SKIRT FABRICS

MODEL NO.	COMPOSITION	CONSTRUCTION	WEIGHT	TENSILE KN/M	FLOW RATE I/M ² /MIN
PE8	Polyester	Non woven	270gsm	22x22	6200
PP8	Polypropylene	Non woven	270gsm	18x18	8400
PP22	Polypropylene	Woven	250gsm	40x40	36600
PP46	Polypropylene	Woven	>450gsm	80x120	48600
PET100	Polyester	Woven	>400gsm	100x100	4560
PET200	200x200	Knitted	>700gsm	200x200	7634

- Curtains are configured by applying the appropriate floats model to the most suitable skirt material. Floats are costed per lineal metre, skirts are costed per square metre. Contoured end price is determined at max skirt depth eg. 1 to 4m contour over 20m is charged at 20 x 4m.
- Float models designated HS (High Strength) are normally configured with PP46 or PET Skirts.

SPECIFYING SILT CURTAINS

Global Synthetics is able to configure a silt curtain to meet the anticipated environmental and hydraulic conditions, however, the ultimate effectiveness is only as good as the base information provided by clients. the primary factors to be considered are:

- **Environmental loadings:** When determining an appropriate silt curtain for a location waterflow and wind loading will determine the required longitudinal strength and anchoring arrangements.
- **Wind loading**
- **Current loading**
- **Deploying silt curtains:** in tidal areas where there is little tidal stream, there will still be impoundment loadings effecting the curtain. This is the effect of the water either entering and exiting the area, contained by the curtain and is determined by the area impounded multiplied by the tidal range the resulting water volume which is then interpolated against a tidal curve for the area to estimate the flows.

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When specifying silt curtains:

- Set clear achievable objectives with your client and environmental regulators
- Properly anticipate the loadings and configure curtain accordingly
- Limit skirt depth to minimum possible required
- Remember strength and durability is a function of price. The cheapest price is not necessarily the cheapest solution

DEPLOYING THE SILT CURTAIN

When deploying Global Synthetic silt curtains:

- Determine appropriate locations and strength for the shore mooring having determined the combined curtain loadings. Shore moorings may be configured a number of ways by either using: driven posts, precast or cast insitu blocks or deadman anchors.
- Curtain bundles should be located close to the shore mooring in a location which allows for the curtain to be towed off the shore using an appropriately sized and powered water craft.
- The curtain (with the skirt furled and tied to the floats) is towed into position and the anchors are then deployed. The holding capacity and location of these are determined using the loading calculation.
- Once the curtain has been anchored in position the furled skirt is dropped

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