



CHATOYER ENVIRONMENTAL SEDIMENT CURTAINS TOOLKIT

protecting the
environment

SPILMAX PRODUCTS CATER FOR YOUR DAY TO DAY CLEAN UP NEEDS, AS WELL AS FOR THE CONTAINMENT AND CLEAN UP OF MOST EMERGENCY SITUATIONS.

The extensive range of SpilMax silt and sediment curtains possess a wide range of applications. Our systems are used by some of the world's largest mining, constructing, dredging and infrastructure companies.

Sediment loss into a waterway results in long term suspension of sediment. In time, the suspended sediment may travel long distances and affect widespread areas. A sediment curtain is designed to deflect and contain sediment within a limited area providing enough residence time so particles will fall out of suspension and not migrate. Our silt and sediment curtains are used to:

- Control sediment on water based or adjacent construction sites
- Control sediment from dredging operations and dredge deposition
- Reduce the suspended solids in mine tailing dams
- Pre-filter potable water to remove leaf litter and fire debris
- Control toxic algae
- Control aquatic plants
- Screen large solids in effluent treatment ponds



Curtains types must be selected on flow conditions within the water body with consideration also given to the direction of the water movements.

Standard curtain specifications:

- Type I: used in protected areas
- Type II: used in areas where there may be a slow to moderate running current (3 knots)
- Type III: used in areas where considerable current (>3 knots) may be present, tidal action may be present, and/or the curtain is potentially subject to wind and waves
- Type III-HD: where a type III curtains is deployed permanently (greater than 6 years)



All sediment curtains contain the following components:

- Flotation: a means of suspending the permeable curtain vertically through the water
- Skirt: a suspended permeable curtain made from woven, non-woven or combination geo-synthetics
- Ballast: our products use galvanised proof coil chains or sediment filled tubes to weight the skirt through the water channel
- Tension members: Type I curtains rely on the integrated strength of the flotation chamber and the skirt to provide sufficient longitudinal strength. Type II and III curtains use integrated wire rope and webbing to provide sufficient strength.

For further product or technical information, please contact Chatoyer Environmental on 1300 880 623 or our website www.chatoyer.com.au

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CURTAIN FLOAT SELECTION MATRIX

Construction Type & Float Size	Suitable Environment	Skirt Strength and Skirt
Type II SC125	Sheltered waters, harbours, rivers, lakes etc	➤ 270gsm non woven skirts to 2m ➤ Woven skirts to 4m
Type II SC150	Sheltered waters, harbours, rivers, lakes etc	➤ 300gsm non woven skirts to 6m ➤ Woven skirts to 4m
Type II SC200	Exposed waters, harbours, rivers, lakes etc	➤ 300gsm non woven skirts to 12m ➤ Woven skirts to 4m
Type II SC300	Exposed waters, harbours, rivers, lakes etc, some ocean applications	➤ 500gsm non woven skirts to 10m ➤ Woven skirts to 16m
Type III SC300	Open Ocean	➤ 500gsm non woven skirts to 10m ➤ Woven skirts to 16m
Type HDP	Sheltered waters, long term installation	➤ 500gsm non woven skirts to 4m ➤ Woven skirts to 8m
Sea Curtain	Open ocean, high durability, permanent installation	➤ 500gsm non woven skirts to 20m ➤ Woven skirts to 30m

Heavier skirt materials require a larger float to support entrained sediments in fabric skirts exceeding 12m.

CURTAIN SKIRT MATERIAL SELECTION MATRIX

Fabric No	Type	Weight (gsm)	TS (kN)	Pore Size	Flow Rate (L/s)
NW20	Non woven polypropylene	270	18	0.09	140
NW30	Non woven polypropylene	330	23	0.08	120
NW40	Non woven polypropylene	400	27	0.08	100
NW50	Non woven polypropylene	500	34	0.07	100
NW60	Non woven polypropylene	620	40	0.06	80
WCP2	Woven polypropylene	120	25	0.2	10
WCP6	Woven polypropylene	260	60	0.2	10
WCP8	Woven polypropylene	360	80	0.2	20
WCP16	Woven polypropylene	520	160	0.2	25
WCP10	Woven polyester	500	100	0.08	30
CS-#	Knitted polyolefin	A range of knitted and woven fabrics available with apparent opening sizes ranging from 0.5mm to 2mm.			

Non woven fabrics (NW) may be subject to blinding in areas of fine sediment.

Woven fabric (W) are not as likely to blind but have reduced flow rate due to the weave incorporated.

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