LAYFIELD

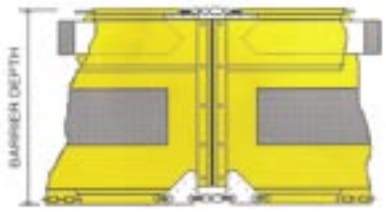
TURBIDITY CURTAINS

TURBIDITY CURTAINS

A turbidity barrier is a synthetic fabric curtain, suspended within a body of water, supported by floatation material in the top edge and held in a vertical position by a ballast in the bottom edge. It is also known as a floating turbidity barrier. Floating turbidity barriers are designed to restrict the flow of silt laden runoff from a land disturbance, keep it confined to a limited area, and allow the silt and sediment to be collected before being carried in to adjacent or adjoining watercourses. They are designed to prevent the spread of silt and sediment into downstream or connecting watercourses by keeping the material in a static holding area until it can settle out of suspension and be removed.

Type 1

Type 2



Type 3

TURBIDITY CURTAIN RAPID SELECTION CRITERIA

1. Type 1 barriers are for waters with low currents (no more than one foot per second) and light winds: lakes, ponds, small streams, marshes.
2. Type 2 curtains are for higher current waters (up to five feet per second): Deeper lakes, intercostals and tidal areas. These barriers have an encapsulated steel load cable along the top of the barrier and wear stress points are reinforced with shields.
3. Type 3 is similar to Type 2 barriers except that a polypropylene filter fabric is permanently inserted into the barrier skirt to meet some jurisdictions' specifications. Application conditions are the same as the Type 2 barrier.

Layfield also carries a light duty floating silt curtain (FSC). Layfield's standard FSC units are available in nominal heights of 7 ft, 13 ft and 19 ft. The standard FSC body is constructed of Typar 3401 filter fabric, a strong, high filtration material exclusive to Layfield. The float and bottom sleeve of the FSC are wrapped with UV stable, high strength RPE materials for durability. Our specialty Type 1, 2 and 3 are primarily custom made; project specific. Please call your Layfield representative for a curtain design to meet your requirements.

FEATURES:

Curtain Components		Type 1	Type 2	Type 3
Floatation Buoyancy (Expanded Polystyrene Foam)		9 lbs/ft	19 lbs/ft	29 lbs/ft
Floatation Size		6″	8″	12″
Curtain Body Fabric Characteristics and Properties:				
Properties	ASTM Test Method	18 oz/yd^2; Yellow Vinyl laminated on 1300 denier, 9x9 polyester scrim	18 or 22 oz/yd^2; Yellow Vinyl coated on a 6 oz/yd^2 polyester scrim. Specifications below are for 22 oz fabric	Type 3 curtain has a 7 oz/yd^2 Geotextile Filter sewn to the body fabric
Grab Tensile	D-5034	397 x 373 lbs	500 x 400 lbs	350 x 250 lbs
Tongue Tear	D-2261	96 x 86 lbs	132 x143 lbs	95 x 55 lbs
Adhesion	D-751-95 Sec 43.1.2	15 lbs	15 lbs	N/A
Hydrostatic resistance	D-751-95, Sec 34.2	385 psi	881 psi	N/A
Connectors	On both ends of the curtain, a 5/8″ polypropylene rope is heat sealed into a pocket. Sections are laced together through grommets		Curtain edge construction is identical to Type 1. Type 2 and 3 have a galvanized steel safety snap for top load line connection and aluminum stress plates to connect the ballast chain	
Bottom Load Chain/ Weight (min)	1/4″ Galvanized Chain / 0.63 lbs/ft		5/16″ Galvanized Chain / 0.95 lbs/ft	

Standard Sizes Available	Type 1	Type 2	Type 3
	3′ x 50′ 4′ x 50′ 5′ x 50′ 6′ x 50′ 7′ x 50′ 8′ x 50′ 9′ x 50′ 10′ x 50′	3′ x 50′ 4′ x 50′ 5′ x 50′ 6′ x 50′ 7′ x 50′ 8′ x 50′ 9′ x 50′ 10′ x 50′	Mostly custom

Curtain Depth	Typical depths range – 3 to 30 feet (0.9 mtrs to 9.14 mtrs).
Seams	All seams are heat sealed.

Note: The abo

SALIENT FEATURES:

Buoyancy provided by the floatation units is sufficient to support the weight of the curtain and maintain a freeboard of at least 3″ above the water surface level. Buoyancy will increase in greater depths. Please call a Layfield representative for a product recommendation and pricing. Our Barriers are made from bright yellow coated or laminated polyester scrim recommended by USACE in BMP 27.

For more information on any of Layfield's Turbidity Curtains, please contact your local Layfield representative

ISO 9001:2000

QMI REGISTERED

0011979 104436-41
0021527 1047016

LAYFIELD