terrafibre™

Specification Sheet - Hemp Erosion Control Blanket

DESCRIPTION

Terrafibre Erosion control blankets use 100% Canadian grown fibres decorticated and cleaned in Vegreville, Alberta and manufactured in Drayton Valley, Alberta. Once cleaned, the fibres are needle punched into a biodegradable cellulose scrim backing, creating a non-woven mat with a consistent thickness.

Erosion control blankets provide a mechanically stabilized form of immediate cover, functioning as a barrier against both the detachment and transportation phase of the erosion process until vegetation or reinforced vegetation assumes this function. Typically these mats are made from straw and/or coconut fibres with a non-biodegradable polypropylene netting. Terrafibre blankets are 100% biodegradable and are created without the use of polypropylene netting. The Scrim Backing consists of 100% recycled material with a minimum 40% being post consumer content. String reinforcement is made of 100% biodegradable rayon with three openings per lineal inch.

Fibre blankets produced from agricultural fibres such as hemp are used to combat weeds and to prevent erosion on and around newly constructed berms and steep highway banks by motorways. Hemp fibres greatly accelerate the establishment of vegetation. Vegetation can develop easily on the Terrafibre blankets, thus ensuring a fast rooting in the ground which greatly helps stabilize the subsoil. Over time, the natural fibre will decompose completely and vegetation coverage reduces erosion. Typically, blankets are used for the following applications: slope protection, channel and ditch linings, reservoir embankments and spillways, culvert inlets and outfalls, dikes, levees and riverbanks. Blanket has a functional longevity of 12-24 months and are rated on slopes up to 1H:1V.

Test Description	Test Method	Test Results
Water Absorption	ASTM D 1117/ ECTC	1049.3%
MD- Tensile Properties	ASTM D 6818	10.3 lb/in
TD- Tensile Properties	ASTM D 6818	7.9 lb/in
MD- Elongation	ASTM D 6818	84.4%
TD- Elongation	ASTM D 6818	61.5%
Thickness	ASTM D 6535	0.205 inches
Light Penetration	ASTM D 6567	55%
Mass/Unit Area	ASTM D 6475	300g/sq meter
Germination Improvement	ASTM D 7322	386%
Shear Stress	ASTM D 7207	2lbs/sq.ft.

Standard Roll Sizes		
Width	4.0 ft (1.2 m)	8.0 ft (2.4 m)
Length	100 ft (30.5 m)	100 ft (30.5 m)
Weight	24.58 lbs (11.15 kg)	49.16 lbs (22.30 kg)
Area	400 sq ft (37.16 sq m)	800 sq ft (74.32 sq m)
Material		
Fiber	100% Hemp Fiber	0.479 lbs/sq yd (0.260 kg/sq m)
Scrim Backing	Rayon String Recycled Pulp Tissue	0.073 lbs/sq yd (0.040 kg/sq m)

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