

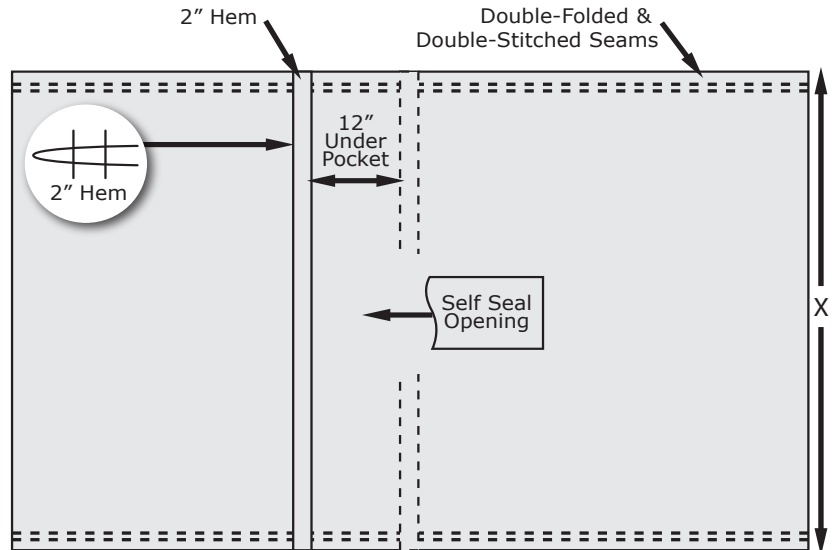
Indian Valley Industries, Inc.

Technical Data Sheet

IVI Self-Sealing Grout Bag

A proven construction system for erosion control, flood protection, and underwater repairs. IVI Grout Bags offer a proven protection system utilizing high strength geotextile bags as forms for casting grout (concrete) blocks in place, underwater or in-the-dry. IVI Grout Bags offer a unique and innovative process for construction and repair of bridge abutments, dikes, jetties, floodwalls, breakwaters and other sub-aqueous structures.

IVI Grout Bags are made of high strength water permeable fabric that allows excess water to bleed out increasing the "set" rate of the grout.



Fabric:	Carthage 6% - woven monofilament geotextile
Construction:	Polyester webbing reinforced "J" seams
	Seams are folded and doubled stitched with bonded polyester thread
Self-closing Inlet Valve:	Remove the hose when the bag is full. The weight and pressure of the grout (or material) will push the fill opening together and seal the bag.
Stock sizes:	4'x10', 4'x20', 6'x10', 6'x20' - with custom sizes available

The IVI Self-Sealing Grout Bag fabric meets or exceeds the following specifications:

Physical Property	Test Method	Data
Grab Tensile Strength	ASTM D-4632	370 x 250 lbs (1.65 x 1.11 kN)
Grab Tensile Elongation	ASTM D-4632	15%
Wide Width Tensile Strength	ASTM D-4595	225 x 145 lbs/in 2700 x 1740 lbs/ft (39.41 x 25.40 kN/m)
Mullen Burst Strength	ASTM D-3786	450 psi (3100 kPa)
Trapezoid Tear Strength	ASTM D-4533	100 x 60 lbs (0.45 x 0.27 kN)
Puncture Strength	ASTM D-4833	120 lbs (0.53 kN)
CBR Puncture	ASTM D-6241	950 lbs (4.23 kN)
UV Resistance (@ 500 hrs)	ASTM D-4355	90% strength retained
Permittivity	ASTM D-4491	.28 sec ⁻¹
Flow Rate	ASTM D-4491	18 gal/min per sq ft (733 l/min per sq m)
Percent Open Area	CW-22125	4-6%
Apparent Opening Size	ASTM D-4751	70 US Sieve (0.212 mm)

- Unless otherwise stated, all values stated here are Minimum Average Roll Values (MARV), are calculated as the Typical minus two standard deviations and are based on a 97.7% confidence level.
- The properties reported above are effective 08/01/10 and are subject to change without notice.

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