

HUESKER CANAL³® LINER DATA

GEOCOMPOSITE LINER FOR CANALS AND WATER CONTAINMENT

CANAL³® is a geosynthetic / membrane geocomposite, offering an easy, reliable and cost-effective canal lining solution. Canal³® is manufactured using varying weights and types of nonwoven materials that are fully adhered to a polyethylene liner of varying thickness to suit the application..

The top and bottom layers of the nonwovens not only provide increased puncture protection, but also increased interface friction.

Canal³ geocomposite is inert to biological degradation and naturally occurring chemicals, alkalis and acids.

Canal³® is neither affected by changing temperatures nor frost which typically can cause cracks in concrete lining solutions or by animals which often cause damage to membrane liners. Can be installed in exposed, ballasted or buried applications. Shotcrete can be applied onto Canal³® for additional protection from vandalism and ultraviolet light.

TYPICAL APPLICATIONS

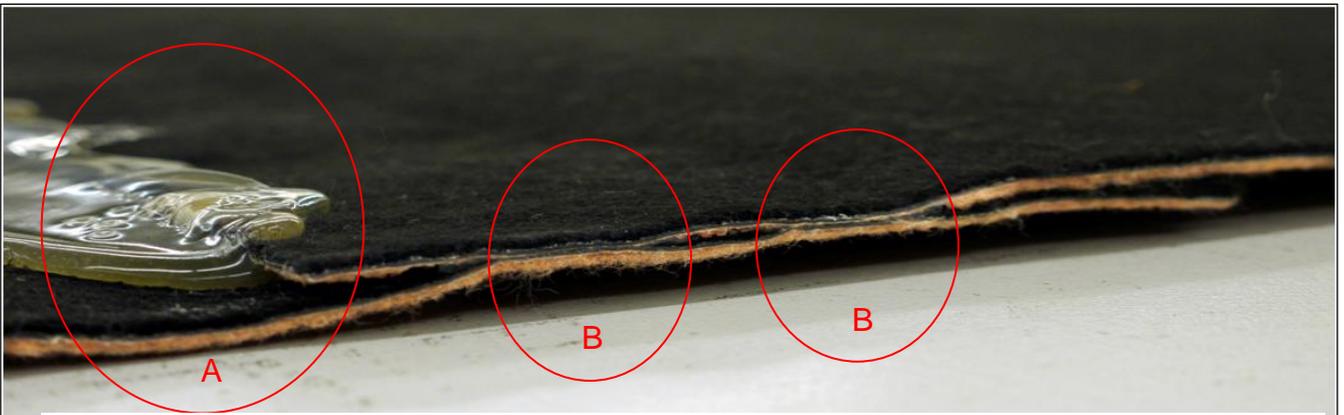
- Irrigation and power generation canal lining
- Waste water & storm water pond lining
- Landfill capping
- Cutoff walls for gas collection and dams.

PRODUCT			CANAL ³ 8208	CANAL ³ 123012	CANAL ³ 82012	
MECHANICAL	TEST	UNIT				
Ultimate tensile strength Longitudinal Transverse	EN ISO 10319	kN/m	≥ 18 ≥ 20	≥ 25 ≥ 30		
Strain @ ultimate tensile strength Longitudinal Transversal	EN ISO 10319	%	≥ 50 ≥ 50	≥ 40 ≥ 40		
CBR puncture resistance	EN ISO 12236	N	≥ 3500	≥ 4000		
Permeability	ASTM D-4491	--	Non measurable	Non measurable		
PHYSICAL						
Raw material Membrane Non woven geotextile	--	--	PE PET	PE PET		
Mass Geocomposite Non woven geotextile	EN ISO 9864	g / m ²	~1200 220	~1400 340		
Overall thickness under 2kPa load	EN ISO 9863-1	mm	4.5	5.2		
Membrane Thickness	EN ISO 9863-1	mm	0.5	0.75		
PACKAGING						
Roll width x length (see note 2) Roll weight		M kg	5.2 x 100 720	5.2 x 100 830		

Notes

5. Canal³ can be manufactured to order to accommodate any type of subgrade condition
6. Canal³ can be supplied in rolls 7.6 m wide x up to 91.4 m long.
7. Each roll of Canal³ geocomposite delivered to the project site is labelled with a roll label that indicates manufacturer's name, product identification, lot number, roll number and roll dimensions.
8. Canal³ liner is rolled on a 150mm internal diameter composition core.
9. All rolls of Canal³ are encased in a sturdy polyethylene wrap to shield the product from rain, dirt, dust and ultraviolet light.
10. Special roll lengths can be produced to order minimize waste on large projects
11. Unless stated otherwise all values quoted are mean values, tolerance +/- 10%.
12. The information listed in this data sheet is subject to periodic review and could be changed without notice.
13. Installation, see Huesker Installation instructions.
14. The information contained herein is furnished without charge or obligation
15. No responsibility is accepted for any change in installed Canal³ properties due to environmental influences and or improper application or handling.

**CANALS, WATERWAYS, HOLDING TANKS, PONDS AND BURIED LINERS GENERALLY.
ALL LAP SEAMS SEALED BY THE DOUBLE WEDGE WELDING WITH A GLUED SEAM FACE (TRIPLE SEALED)
SEE HUESKER LAB TEST RESULTS FOR PERMEABILITY AND TENSILE STRENGTHS**



TYPICAL CANAL³ 150mm LAP TRIPLE SEAL WATERPROOF SEAM
 'A' SHOWS HOT MELT ADHESIVE SEALING AT OPEN EDGE OF LAP
 'B' SHOWS DOUBLE SEAL 'WEDGE WELED' LAP SEAM

