

Building Australia's future



InfraClay® LiteRoll

InfraClay® LiteRoll is a heavy-duty geosynthetic clay liner (GCL) with a compact, smaller and lighter roll format than our standard GCL rolls, making it easier to handle and install on site. It combines high-grade sodium bentonite with dual geotextile layers and a bonded HDPE poly liner backing. On hydration, the needle-punched composite swells to form a low-permeability barrier, providing reliable below-grade waterproofing and vapour control for basements, under-slabs and retaining structures in demanding Australian conditions.

APPLICATIONS

- ☑ Basements
- ☑ Under-Slabs
- ☑ Retaining Walls

Technical Specifications

Material Property	Testing Method	Units	Specification
SODIUM BENTONITE	ASTM D5993	g/m ²	5000
SWELL INDEX	ASTM D5890	ml/2g	≥24
FLUID LOSS	ASTM D5891	ml	≤18
GEOTEXTILE PROTECTION LAYER	Needle-punched Nonwoven Geotextile		
GEOTEXTILE CARRIER LAYER	Woven geotextile		
HDPE LINER BACKING	Polyethylene liner Fused to Nonwoven Side		
HYDROSTATIC RESISTANCE	ASTM D5385M	m	60
PERMEABILITY	ASTM D5084	m/s	≤ 1 × 10 ⁻¹²
TENSILE STRENGTH (MD/TD)	ASTM D6768	kN/m	≥ 11
STATIC PUNCTURE RESISTANCE	ASTM D6241	kN	1.8
PEEL ADHESION TO CONCRETE	ASTM D903M	kN/m	1.6
LOW-TEMPERATURE FLEXIBILITY	ASTM D5887	- / °C	Unaffected at -32 °C
WATER VAPOUR TRANSMISSION RATE	ASTM D1970	grains/hr/ft ²	0.03
ROLL DIMENSION	ASTM E96	m	1.65 × 7.5 or 1.10 × 5.0
ROLL MASS		kg	68 or 31

Notes:

1. Product must be installed on a sound substrate free of sharp projections and not in standing water or over ice.
2. Groundwater with high salinity, acids, alkalis or conductivity ≥ 2,500 µS/cm should be assessed by the designer to confirm suitability of this GCL type.