Shoebox Membrane and Geotextile

Data Sheet

PRODUCT INFORMATION

Shoebox Membrane

Product code: PVSBOX

The Polypipe Shoebox Membrane is used alongside our geocellular Polystorm product range converting them from soak-away solutions to impermeable attenuation tanks.

Supplied by liquid containment specialists Butek™ the synthetic membrane of plasticised PVC features a layer of polyester fabric for dimensional stability. It is also resistant to weathering and ultraviolet rays.



Key Benefits

- Puncture resistant
- Rotproof
- No dimensional shrinkage
- Adaptable to structural movements
- Remains flexible at low temperatures

Installation

For full installation guidance and fitment instructions please consult the installation instructions found on our website and delivered alongside the products.

TESTED PROPERTY	TEST METHOD	VALUES (*)	
Base Cloth	-	HT Polyester	
Coating	-	Flexible PVC both sides	
Total Weight	-	900gsm	
Tensile Strength	EN ISO 1421	Warp - 4,000 N/50mm, Weft - 4,000 N/50mm	
Tear Strength	DIN 53363	Warp - 600N, Weft - 500N	
Coating Adhesion	DIN 53357	90 N/50mm	
Temperature Resistance	-30 to +70 Deg C	DIN EN ISO 1876-2	

WATERPROOFING **UNDER PROTECTION**

WATERPROOFING UNDER PLOTS & **PAVERS**

WATERPROOFING **UNDER EXTENSIVE GREEN ROOF SYSTEMS**

MECHANICALLY FIXED WATERPROOFING

FULLY ADHERED WATERPROOFING WATERPROOFING FOR DETAILS

Technical Support

For further information, please contact our Technical Team on +44 (0) 1509 615100 or email civils@polypipe.com or visit www.polypipe.com/civils



DISCLAIMER: The information herein is based upon data obtained by the manufacturer and is considered accurate. However, no warranty is expressed or implied regarding the accuracy of this data. This information is furnished upon the condition that the person receiving it shall evaluate its suitability for the specific application.





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PRODUCT INFORMATION

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Shoebox Geotextile

Key Benefits

Puncture Resistant Geotextile

- Separation
- Filtration
- Protection
- Drainage

Applications

Suitable for use in the following applications:

- Roads (EN 13249:2000)
- Railways (EN 13250:2000)
- Foundations & retaining walls (EN 13251:2000)
- Drainage systems (EN 13252:2000)
- Erosion control systems (EN 13253:2000)
- Reservoirs & dams (EN 13254:2000)
- Canals (EN 13255:2000)
- Tunnels & underground structures (EN 13256:2000)
- Solid waste (EN 13257:2000)
- Liquid waste (EN 13265:2000)

MATERIAL PROPERTIES	UNIT	TEST METHOD	TYPICAL VALUES	TOLERANCE
MECHANICAL PROPERTIES				
ensile strength MD	kN/m	- EN ISO 10319	17.80	-2.30
ensile strength CMD	kN/m		17.80	-2.30
longation MD	%	- EN ISO 10319	50.00	±11.50
longation CMD	%		55.00	±12.70
tatic puncture resistance (CBR)	kN	EN ISO 12236	3.10	-0.62
)ynamic perforation resistance - Cone drop	mm	EN ISO 13433	13.00	+3.30
yramid puncture	N	EN ISO 14574	275	-55.00
rotection efficiency	%	EN ISO 13719	1.50	-0.30
HYDRAULIC PROPERTIES				
Vater permeability normal to the plane	m/s	- EN ISO 11058	80 x 10 ⁻³	⁻ 24 x 10 ⁻³
Vater flow normal to the plane (*)	l/m²/s		80	-24.00
Vater flow capacity in the plane @20 kPa	m²/s	EN ISO 12958	7 x 10 ⁻⁶	-10% log g
haracteristic opening size (AOS)	μm	EN ISO 12956	70.00	±21.00
PHYSICAL PROPERTIES				
hickness under 2 kPa (*)	mm	EN ISO 9863-1	2.20	±0.44
Veight (*)	g/m²	EN ISO 9864	2.50	±25.00
Composition	100% Polypropylene non-woven geotextile			
Durability	Predicted to be durable for a minimum of 25 years in natural soil with 4 <ph<9 <25°c<="" and="" soil="" td="" temperatures=""></ph<9>			



1137-CPD-61511

Butek Landline

Containment Solutions

(*) Not mandated characteristics for CE marking.

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