

**JUTA GP<sup>®</sup>H - High Performance Hydrocarbon and Gas Barrier** is a mono layer, High-density polyethylene membrane specifically designed and manufactured to perform as a robust Hydrocarbon protection system, which is suitable for use in various demanding geomembrane applications where Hydrocarbons are present. GP<sup>®</sup> H is chemically resistant to a range of Hydrocarbons, acids and aggressive ground salts, providing a solution for a range of demanding applications.

GP<sup>®</sup>H complies with the latest codes of practice as published by BRE and CIRIA. Suitable for use as gas and vapour protection for NHBC GREEN and AMBER 1 site characterisations. JUTA GP<sup>®</sup>H is also suitable as a HYDROCARBON barrier for attenuation tanks, permeable paving and structural waterproofing.

GP <sup>®</sup> H Geomembrane				
Characteristic	Test Method	Unit	GP <sup>®</sup> H	
<b>Physical Properties</b>				
Thickness	EN 1849-2	mm	1.0	1.5
Width	EN 1849-2	M	5.1 OR 2.5	5.1 OR 2.5
Length	EN 1849-2	M	100 OR 35	100 OR 25
Density	EN ISO 1183	g/cm <sup>3</sup>	0.939	
<b>Hydraulic Properties</b>				
Permeability to liquids	EN 14150	m <sup>3</sup> /(m <sup>2</sup> .d)	1.0 X 10 <sup>-6</sup>	
Water Vapour transmission	EN 1931	M	300	
Water tightness (60 kPa)	EN 1928	-	PASS	
<b>Mechanical Properties</b>				
Resistance to Static Load	EN 12730 - B	Kg	>20	>20
Tensile Strength (MD)	EN 12311 -1	N/50mm	850	1000
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Tensile Elongation (MD)	EN 12311 -1	%	950	950
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Puncture Resistance	EN 12236	N	3200	4300
Resistance to impact	EN 12691 (A)	mm	>700	
Tear Strength	ISO 34-1	N	140	
Shear resistance of welded joint	EN 12317 - 2	N/50mm	850	
<b>Durability and Chemical Resistance</b>				
Transmission rate of volatile liquids - Diesel	ISO 6179:2010 (B)	g/m <sup>2</sup> /h	0.047	0.026
Transmission rate of volatile liquids - Xylene	ISO 6179:2010 (B)	g/m <sup>2</sup> /h	1.886	0.549
Transmission rate of volatile liquids - Toluene	ISO 6179:2010 (B)	g/m <sup>2</sup> /h	4.432	0.987
Transmission rate of volatile liquids - Petrol	ISO 6179:2010 (B)	g/m <sup>2</sup> /h	2.318	0.623
<b>Gas Permeability</b>				
Methane Permeability	BS EN ISO 15105 - 1	ml/m <sup>2</sup> /day/atm	<55	
Carbon Dioxide Permeability	BS EN ISO 15105 - 1	ml/m <sup>2</sup> /day/atm	<55	
Radon Permeability	K124/02/95	m <sup>2</sup> /s	1.1 X 10 <sup>-11</sup>	
<b>Compliance and Certification</b>				
CE Mark - EN13967:2012				
CE Mark - EN13361, EN13362, EN13492, EN13493, EN13382				
Conforms to Ciria C697 and C753 as an Attenuation membrane.				

# Additional Information

Containment  
Engineering

## Application

GP<sup>®</sup>H is a robust weldable geomembrane suitable for attenuation tank encapsulations, porous sub-base installations, containment and cut-off trenches, structural waterproofing. GP<sup>®</sup> H is suitable for use where sites are affected by various Hydrocarbons and VOCs. GP<sup>®</sup>H is a chemically inert membrane offering designers and specifiers a range of critical properties that meet the needs of today's demanding geomembrane applications including high water table sites. GP<sup>®</sup> H can be fully welded where required.

Note - Where design and usage require compliance to B58485:2015, B58102:2009 and C748 for protection of Inhabitants against ground gases and VOC's, It is recommended to use our GP<sup>®</sup> TITANFLEX membrane system, which provides additional mitigation against the Ingress of harmful gases and VOC's.

## Additional System Components

GP<sup>®</sup>H Top Hat Unit - preformed pipe sleeve unit for sealing around pipe penetrations

300TT - non-woven geotextile protector for use following GP<sup>®</sup>H Installation to protect the membrane from damage against backfilling. Typically used In attenuation tank encapsulation.

PF 2000 - non-woven geotextile protector for light weight protection from backfilling.

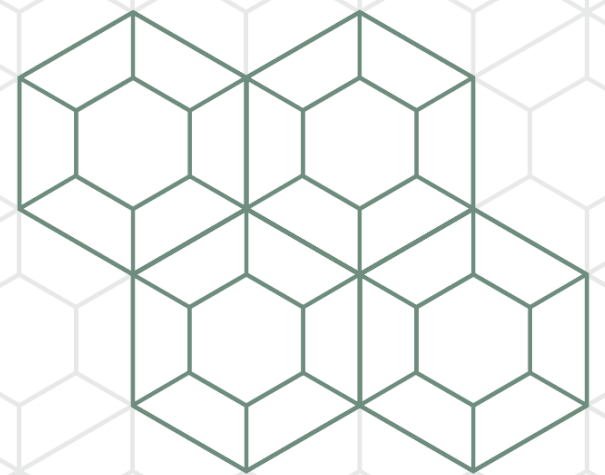
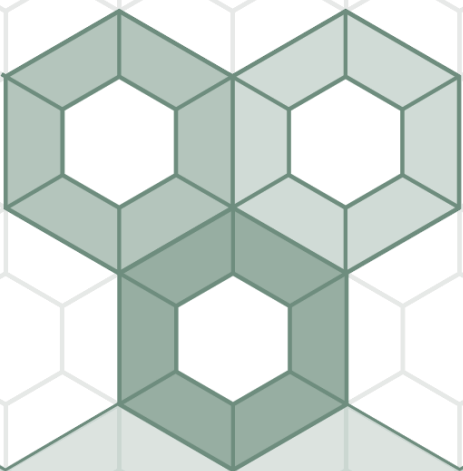
## Installation

GP<sup>®</sup>H should be installed on a blinded or smooth surface, free from sharp protrusions (typically maximum permissible particle size in direct contact with the membrane should be <10mm). Avoid areas of unsupported membrane. Where required, adequate protection should be applied over the membrane to prevent damage after installation. GP<sup>®</sup>H exhibits superior welding properties, making it ideal for on-site welding of joints.

## Storage and Handling

Store in a warm clean and dry environment, with rolls stacked no more than 5 units high. GP<sup>®</sup>H is Classified as non-hazardous. It is chemically inert and is not affected by acids and alkalis that may be present in the subsoils. The material is not recommended for uses where it will be exposed to long periods of outdoor weathering, such as exposure to ultraviolet light that will embrittle the product. Care should be taken to avoid accidental damage when handling the membrane on site.

**PLEASE CONTACT JUTA UK DIRECTLY FOR MORE INFORMATION ON GP<sup>®</sup> H.**



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