

Geomembranes and Geotextiles

General information

Geomembrane



Impermeable geomembranes are for retention and detention applications. For 'non sensitive' applications taped joints are usually acceptable. ACO recommends installation by professional lining contractors for environmentally sensitive applications to achieve a geomembrane system with 100% watertight welded joints.

Geotextile



Permeable geotextiles are for use in infiltration applications. They permit the passage of water into and out of the ACO StormBrixx® system. Geotextiles are also used to protect the geomembrane from mechanical damage due to ground and thermal movement. They are placed on the outer side of geomembrane.

Selection guide

Non-sensitive retention/detention	Site-sensitive retention/detention	Infiltration
<p>Geomembrane Geotextile Double sided tape</p>	<p>Welded geomembrane Geotextile Double sided tape for geotextile</p>	<p>Geotextile Double sided tape</p>
<p>A taped geomembrane system should only be used where ground conditions can accept minor leakages from the tank.</p> <p>They are not recommended to be used in sensitive applications such as, but not limited to:</p> <ul style="list-style-type: none"> ▪ Within 5m of any building line ▪ Where there is a high groundwater table ▪ Where land is contaminated or risk of contamination from surface water is high. 	<p>Correct choice of geomembrane is essential to the overall performance of retention/detention systems. In applications that are site-sensitive, consult a specialist geomembrane supplier, and ensure it is installed by an accredited contractor.</p> <p>Site sensitive applications include:</p> <ul style="list-style-type: none"> ▪ High groundwater table ▪ Contaminated ground ▪ Within 5m of any building line ▪ Where risk of contamination to groundwater from polluted surface waters exists. 	<p>A non-woven geotextile with filtration and drainage properties should be used to minimise sediment build up within an infiltration (soakaway) system. The geotextile should completely wrap the ACO StormBrixx® system.</p>
		