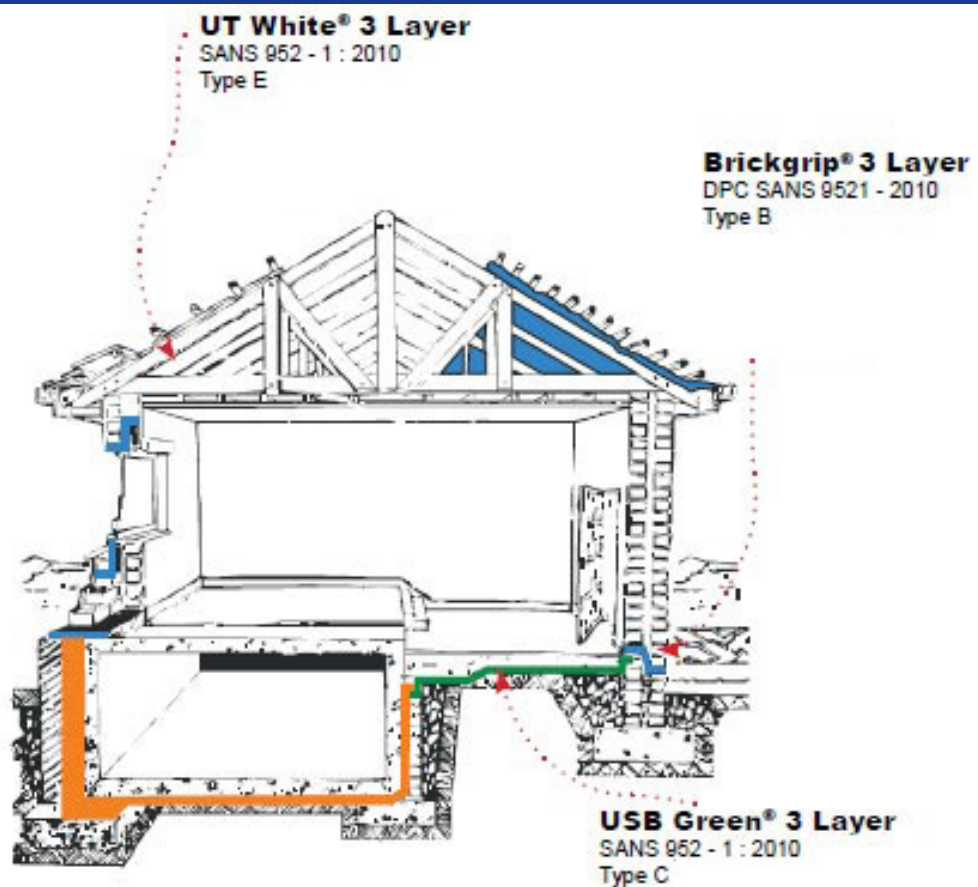


# GUNDLE SABS RANGE OF 3 LAYER CONSTRUCTION MEMBRANE

Multi-layer co-extrusion has the following advantages:

- It has a cross-linking effect between the different layers, which gives the sheeting added strength. This means that co-extruded sheeting of 170 or 180 microns in thickness is stronger than a mono-film of 250 microns in thickness.
- Each layer can have a different formulation. For instance, the top layer can be UV stabilised while the bottom layer can contain anti-oxidants to prevent breakdown caused by heat exposure.

## GUNDLE API CERTIFIED PRODUCTS – DAMP AND WEATHERPROOFING MEMBRANES



## CO-EXTRUDED FILMS

The following is an extract from the SABS 952 specification covering co-extruded films.

MECHANICAL AND PHYSICAL PROPERTIES FOR CO-EXTRUDED (3 LAYER) FILM	1	2	3	4	5	6
	Property	Requirement				Test method subsection
		Film type				
		A Hyperlastic Orange	B Brickgrip DPC	C USB Green	E UT White	
Thickness*, µm, min.	250	250	170	180	6.5.1 OR 6.5.2 as relevant	
<b>Tensile properties</b>						
a) Breaking strength, N/mm of width, min.	3,75	3,76	2,16	2,16	6.6	
b) Elongation at break, %, min.	350	350	200	200	6.6	
Puncture resistance, N/mm of thickness, min.	30,5	25,0	35,0	29,0	6.7	
Tear strength, N/mm of thickness, min.	53,5	43,0	75,0	65,0	6.8	
<b>Resistance to accelerated aging, % property retention, min.</b>						
a) Breaking strength	-	-	-	90	6.9	
b) Elongation at break	-	-	-	90	6.9	
<b>Resistance to accelerated weathering, % property retention, min.</b>						
a) Breaking strength	50	50	50	80	6.10	
b) Elongation at break	50	50	50	80	6.10	
Water vapour transmission rate, g/m <sup>2</sup> 24 h, max.	1,6	1,9	2,9	2,9	6.11	
Water penetration under hydrostatic pressure	Nil	Nil	-	-	6.12	

## USB MEMBRANE 170 CO-EXTRUDED

### UNDER-SURFACE BEDS

USB GREEN 3 LAYER 170® is co-extruded, consisting of the following: Outer layer – Black low-density polyethylene containing carbon black, which is a natural ultra-violet inhibitor. Middle layer – Black low-density polyethylene. Outer layer – Green low-density polyethylene, which allows for easy identification on site and has enhanced puncture resistance.

Note: Because of their high carbon content, USB Green 3 LAYER 170® can also be used where SABS black sheeting is specified, as it exceeds the minimum specification required for SABS black. SPECIFICATION

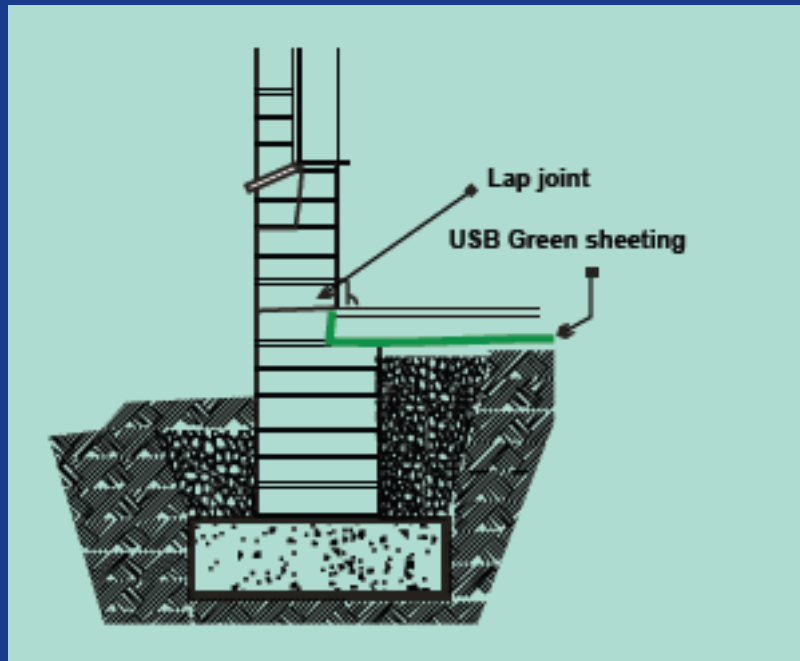
One layer of USB Green 3 LAYER 170® damp proof sheeting bearing SABS 952 – 1 : 2011 shall be laid in the widest practical widths to minimise joints and shall be turned up, dressed to load bearing walls, and lapped with Brickgrip SABS DPC. Gunplas USB Green 3 layer 170® may be lapped according to specifications.

### BENEFITS

- Prevents rising damp
- Prevents contamination of concrete

- Prevents efficiency loss of under-floor insulation
- Specially formulated as a damp-proof membrane
- Good puncture resistance
- Good tear strength
- Wide widths

## SOLID WALL CONSTRUCTION



## INSTALLATION OF CO-EX MEMBRANES

