FLOW

Geocomposite drainage sheet

FLOW is a geocomposite drainage sheet consisting of a recycled HDPE dimpled core and a filter geotextile laminated to the core. The FLOW 8, FLOW 8+ and FLOW 10+ series offer different compressive strengths and geotextile properties. The product range forms drainage layers around buildings and within hard landscape details. Selection takes account of the installation orientation, loads from the overlying layers and the project drainage arrangement.

≈8 / ≈10 mm

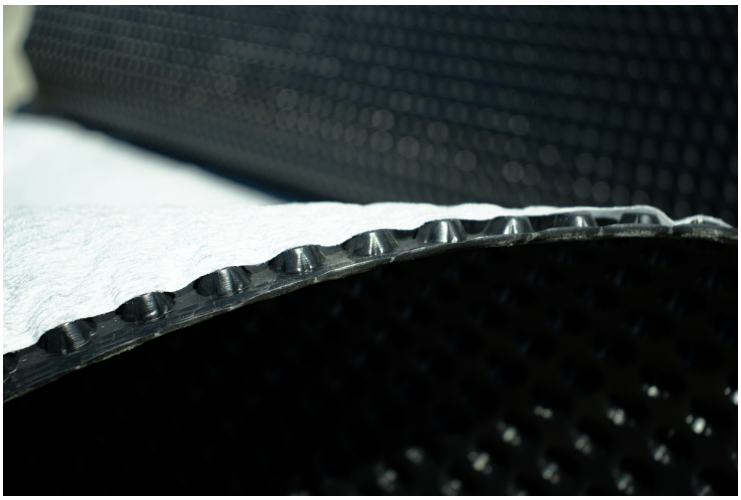
Dimple height

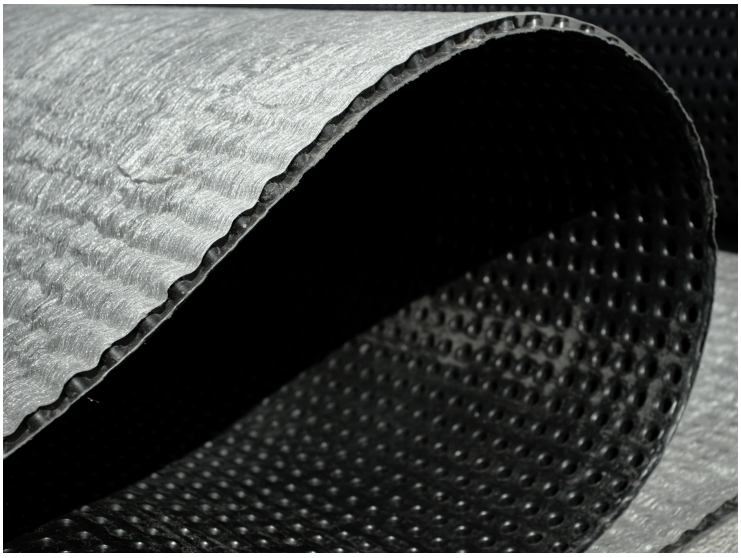
150 - 650 kN/m²

Compressive strength range

FLOW 8, FLOW 8+, FLOW 10+

Series





System benefits

It combines filtration and drainage functions in one product. The geotextile allows water to enter the drainage core while limiting the migration of fine soil particles into the flow spaces. The voids formed by the dimpled core allow filtered water to move towards the discharge points specified in the project. FLOW works together with the drainage line and other construction layers. Its role within the system is considered alongside the properties of the supporting surface and the route taken by the discharged water.

Applications

It is used on foundation and retaining walls, around basements, in hard landscape drainage and in drainage details for structures in contact with soil.

FLOW does not replace the waterproofing layer.

FLOW

TECHNICAL PROPERTIES

Component	Technical property	Method / conditions	Unit	FLOW 8			FLOW 8+			FLOW 10+	
SHEET	**Dimple height**	Geometrical measurement	mm	8						10	
	Polymer type	Manufacturer declaration	-	Recycled HDPE							
	Roll width × length	EN 1848-2	m	2.00 (±1%)x 20 (±1%)							
	Compressive strength	EN ISO 25619-2	kN/m²	150 (±10%)	200 (±10%)	250 (±10%)	150 (±10%)	200 (±10%)	250 (±10%)	400 (±10%)	650 (±10%)
GTX (GEOTEXTILE)	**Geotextile colour**	Manufacturer declaration	-	White			Grey				
	Tensile strength MD/CMD	EN ISO 10319	kN/m	MD 8 (-1.5) CMD 7 (-1.5)			MD 6.6 (-0.7) CMD 6.6 (-0.7)				
	Static puncture resistance (CBR)	EN ISO 12236	N	1300 (-260)			950 (-110)				
	Characteristic opening size O90	EN ISO 12956	µm	105 (±33)			150 (±30)				
	Dynamic perforation / hole diameter	EN ISO 13433	mm	34 (+8)			40 (+7)				
	Water permeability normal to the plane VH50	EN ISO 11058	m/s	0.08 (-0.024)			0.08 (-0.015)				
GCO (GEOCOMPOSITE)	**In-plane water flow / 20 kPa**	EN ISO 12958-1 i=1	L/(s·m)	1.8 (-0.2)	1.9 (-0.3)	2 (-0.2)	1.9 (-0.2)	2 (-0.2)	2.2 (-0.2)	3.85 (-0.4)	4 (-0.4)
	In-plane water flow / 50 kPa	EN ISO 12958-1 i=1	L/(s·m)	1.7 (-0.2)	1.8 (-0.2)	1.9 (-0.2)	1.8 (-0.2)	1.9 (-0.2)	2.1 (-0.2)	3.75 (-0.38)	3.9 (-0.4)
	In-plane water flow / 100 kPa	EN ISO 12958-1 i=1	L/(s·m)	1.3 (-0.15)	1.5 (-0.15)	1.7 (-0.2)	1.6 (-0.15)	1.8 (-0.2)	2 (-0.2)	3.6 (-0.35)	3.75 (-0.35)
	Tensile strength MD/CMD	EN ISO 10319	kN/m	MD 9 (-2) CMD 7 (-2)	MD 10 (-2) CMD 8 (-2)	MD 12 (-2) CMD 10 (-2)	MD 9 (-2) CMD 7 (-2)	MD 11 (-2) CMD 9 (-2)	MD 13 (-2) CMD 11 (-2)	MD 13 (-1.3) CMD 12 (-1.2)	MD 17 (-1.7) CMD 15 (-1.5)
	CE marking	EN 13252	--	Yes							
	Operating temperature	Manufacturer declaration	°C	-30 / +80							
	Durability	EN 13252 Annex B	-	Durable for 50 years in natural soil at 25°C and 4≤pH≤9, provided there is no attack by substances or organisms.							