

DuoDrain Range

DuoDrain Range consists of a thick HDPE impermeable cusped core with a geotextile filter fabric bonded to one side, thus creating a highly effective drainage void. The geotextile filter fabric prevents penetration of the drain by unwanted soils, fines etc which can block the drain. The impermeable core provides a void to relieve hydrostatic pressure and build up.



Geosynthetics
Engineered Solutions



Property	Method	Units	Duodrain 6	Duodrain 12	Duodrain 25
Drain					
Polymer	High Density Polyethylene (HDPE)				
Thickness	BS EN ISO 9864-1	mm	6	12	25
Compressive strength		kPa	700	500	200
Geotextile					
Geotextile Type	Heat-bonded, Non-woven				
Polymer	Polypropylene				
CBR puncture resistance	BS EN ISO 12236	kN	1.5	1.5	1.5
Tensile strength (md)	BS EN ISO 10319	kN/m	8	8	8
Tensile strength (xmd)	BS EN ISO 10319	kN/m	9	9	9
Pore size O_{90}	EN ISO 12956	μm	85	110	110
Water flow	BS EN ISO 11058	$\text{l/m}^2/\text{s}$	80	160	145
Composite					
In-plane flow capacity with hard platens					
$i = 1.0 @ 20\text{kPa}$	EN ISO 12958	l/s/m width	-	7.0	20.0
$i = 1.0 @ 100\text{kPa}$	EN ISO 12958	l/s/m width	-	6.0	19.0
$i = 1.0 @ 200\text{kPa}$	EN ISO 12958	l/s/m width	-	5.0	18.0
$i = 0.1 @ 500\text{kPa}$	EN ISO 12958	l/s/m width	0.5	-	-
$i = 1.0 @ 500\text{kPa}$	EN ISO 12958	l/s/m width	2.0	-	-
Biological resistance	HDPE does not support bacterial growth				
Chemical resistance	HDPE is highly resistant to acids & alkalis				
Roll dimensions (w x l)		m	0.97 x 100 5.75 x 100	1.0 x 50	0.9 x 50
Roll Weight		kg	50	58	74

Values are Typical. Typical indicates the mean value derived from the samples taken for any one test as defined in the BS EN ISO standard - Usually the mean of five samples.

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