



QDRAIN ZW8 100 10F

Year of last update: **2019**

Function: **Drainage**

STRUCTURE: drainage geocomposite made by a 3-dimensional, high void ratio monofilaments core heat bonded with two filter geotextiles

FILTER GEOTEXTILES

Raw material	Polypropylene					
Weight	ASTM D 5621	g/m ²	100	oz/yd ²	2.9	±5%
Permittivity	ASTM D 4491	sec-1	1			-0.35
Water Flow Rate	ASTM D 4491	L/min/m ²	6095	gal/min/ft ²	150	-20%
CBR Puncture Strength	ASTM D 6241	kN	0.778	lbs	175	-15%
AOS	ASTM D 4751	mm	0.3	US Sieve	50	
Grab Tensile Strength	ASTM D 4632	N	355	lb	80	-15%
Tensile strength MD/CMD	ASTM D 4595	kN/m	6/6	lb/in	34/34	-15%
Elongation at max load MD/CMD	ASTM D 4595	%	50/60			-30/+40

DRAINAGE CORE

Raw material	Polypropylene					
Weight	ASTM D 5621	g/m ²	1000	oz/yd ²	29.5	±10%
Width		m	2	ft	6.6	±3%

GEOCOMPOSITE

Weight	ASTM D 5621	g/m ²	1200	oz/yd ²	35.4	±10%
Thickness	ASTM D 5199	mm	9	in	0.354	±15%
Tensile strength MD/CMD	ASTM D 4595	kN/m	13/13	lb/in	74/74	±20%
Elongation at max load MD/CMD	ASTM D 4595	%	80/80			±25

HYDRAULIC PERFORMANCES

Plane flow capacity MD (418 psf, S/S, i=1)	ASTM D 4716	l/(ms)	2.5	gal/ft/min	12.08	-20%
Plane flow capacity MD	ASTM D 4716					-20%
	<i>Hydraulic gradient</i>	<i>Contact</i>		<i>i = 0,04</i>	<i>i = 0,10</i>	<i>i = 1</i>
	<i>Load: 418 psf</i>	S/R	gal/ft/min	2.27	4.11	14.50
	<i>" 1044 psf</i>	S/R	gal/ft/min	2.17	3.62	13.77
	<i>" 2088 psf</i>	S/R	gal/ft/min	1.93	3.38	13.29
	<i>" 4177 psf</i>	S/R	gal/ft/min	1.69	2.90	10.87
	<i>" 8354 psf</i>	S/R	gal/ft/min	1.45	2.42	8.70

S/S: Soft/Soft Contact - S/R: Soft/Rigid Contact - R/R: Rigid/Rigid Contact

STANDARD DIMENSIONS

Width	m	2	ft	6.6	±3%
Length	m	40	ft	131.2	±2%
Filter overlapping	cm	10	in	4	
Rolls/pallet	#	4			

Other sizes may be available upon request.

The information given in this data sheet is to the best of our knowledge true and correct. TeMa srl reserves the right to change its product specifications at any time. It is the responsibility of the specifier and purchaser to ensure that product specifications used for design and procurement purposes are current and consistent with the products used in each instance.



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