



# QDRAIN ZW8 50 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 <sup>2</sup>	<b>100</b>	oz/yd <sup>2</sup>	<b>2.9</b>	±5%
Permittivity	ASTM D 4491	sec-1	<b>1</b>			-0.35
Water Flow Rate	ASTM D 4491	L/min/m <sup>2</sup>	<b>6095</b>	gal/min/ft <sup>2</sup>	<b>150</b>	-20%
CBR Puncture Strength	ASTM D 6241	kN	<b>0.778</b>	lbs	<b>175</b>	-15%
AOS	ASTM D 4751	mm	<b>0.3</b>	US Sieve	<b>50</b>	
Grab Tensile Strength	ASTM D 4632	N	<b>355</b>	lb	<b>80</b>	-15%
Tensile strength MD/CMD	ASTM D 4595	kN/m	<b>6/6</b>	lb/in	<b>34/34</b>	-15%
Elongation at max load MD/CMD	ASTM D 4595	%	<b>50/60</b>			-30/+40

## DRAINAGE CORE

Raw material	Polypropylene					
Weight	ASTM D 5621	g/m <sup>2</sup>	<b>500</b>	oz/yd <sup>2</sup>	<b>14.7</b>	±10%
Width		m	<b>2</b>	ft	<b>6.6</b>	±3%

## GEOCOMPOSITE

Weight	ASTM D 5621	g/m <sup>2</sup>	<b>700</b>	oz/yd <sup>2</sup>	<b>20.6</b>	±10%
Thickness	ASTM D 5199	mm	<b>8</b>	in	<b>0.315</b>	±15%
Tensile strength MD/CMD	ASTM D 4595	kN/m	<b>13/13</b>	lb/in	<b>74/74</b>	±20%
Elongation at max load MD/CMD	ASTM D 4595	%	<b>80/80</b>			±25

## HYDRAULIC PERFORMANCES

Plane flow capacity MD (418 psf, S/S, i=1)	ASTM D 4716	l/(ms)	<b>1.9</b>	gal/ft/min	<b>9.18</b>	-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	1.70	2.66	10.63
	<i>" 1044 psf</i>	S/R	gal/ft/min	1.45	2.42	9.18
	<i>" 2088 psf</i>	S/R	gal/ft/min	1.21	1.93	6.77
	<i>" 4177 psf</i>	S/R	gal/ft/min	0.24	0.58	0.97

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

## STANDARD DIMENSIONS

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

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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