



# IPP Geo Composite Drainage System

Year of last update: **2014**  
 Reference norms: **EN 13252**  
 Certificate number: **1213-CPD-4006**  
 Function: **Drainage**



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

## FILTER GEOTEXTILES

Raw material			
Weight	EN ISO 9864	lb/ft <sup>2</sup>	<b>.0204816</b>
Thickness	EN ISO 9863-1	in	<b>.0255906</b>
Tensile strength MD/CMD	EN ISO 10319	lb/ft	<b>1348.55/19.68</b>
Elongation at max load MD/CMD	EN ISO 10319	%	<b>55/60</b>
CBR puncture resistance	EN ISO 12236	lbs	<b>1224.8089</b>
Cone drop test	EN ISO 13433	in	<b>1.3385</b>
Water permeability normal to the plane	EN ISO 11058	in/s	<b>3.5433</b>
Opening size	EN ISO 12956	in	<b>.00374</b>

## DRAINAGE CORE

Raw material			
Weight	EN ISO 9864	psf	<b>11.86518</b>
Width		ft	<b>6.56' x 6.56'</b>

## GEOCOMPOSITE

Weight	EN ISO 9864	psf	<b>.12289</b>
Thickness	EN ISO 9863-1	in	<b>.31496</b>
Tensile strength MD/CMD	EN ISO 10319	lb/ft	<b>47941539</b>
Elongation at max load MD/CMD	EN ISO 10319	%	<b>80/80</b>

## HYDRAULIC PERFORMANCES

Plane flow capacity MD (20kPa, S/S, i=1)		EN ISO 12958			
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	Hydraulic gradient	Contact	i = 0.04	i = 0.10	i = 1
	Load: 2.900 PSI	S/R	0.38	0.58	2.25
"	7.251 PSI	S/R	0.33	0.53	1.93
"	14.5037 PSI	S/R	0.28	0.43	1.43
"	29.0075 PSI	S/R	0.08	0.15	0.23

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

## DURABILITY

Forecast of minimum durability (natural soils 4<pH<9 and T<25°C)	years	<b>25</b>
Product to be covered within 2 weeks after installation		

## STANDARD DIMENSIONS

Width	ft	<b>6-56'</b>
Length	ft	<b>131'</b>
Rolls/pallet		<b>4</b>

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