

TECHNICAL DATA SHEET

Product Name **ROCK GRID⁺ PC**
 Reference No: DS REIN 0642-05/2015 REV
 Date of Issue 25 June 2015
 Description High strength composite geotextile offering high modulus characteristics for reinforcement applications, with the additional benefits of in-plane drainage capacity and high installation survivability

			50/50	100/100	200/200		
Material		200 g/m ² needle punched, polyester nonwoven					
Short Term Tensile Strength (T _u)	Machine	kN/m	50	100	200	SANS 1525:13 / ISO 10319	
	Across	kN/m	50	100	200		
	Elongation	%	10	10	10		
Long Term Design Strength (LTDS) ^① (114 yrs)		kN/m	30	60	120		
Creep Limited Strength (10 ⁶ hrs or 114 yrs) ^②		kN/m	35	70	140	ISO 13431	
Water Flow Rate	Normal to Plane @50mm head	l/s/m ²	60			SANS 11058:13 / ISO 11058	
	In Plane 20 kPa (i=1)	l/hr/m-width	112			ISO 12958:10	
Roll Dimensions		m	5 x 100				

$$\textcircled{1} \quad LTDS = \frac{T_u}{f_c \cdot f_d \cdot f_e \cdot f_m}$$

f _c (creep)	=	1.40	(10 ⁶ hrs or 114 yrs) ^②
f _d (damage)	=	1.05	(sand, silt, clay, yarn facing soil)
f _e (environment)	=	1.10	(pH 4-9)
f _m (material)	=	1.00	

② Report No: 2010-0595 "Creep Tests on RockGrid[®] PC composite Geotextile, by Era Technology Cobham Leatherhead, Surrey, UK

The above results represent laboratory averages
 Kaytech reserves the right to make technical modifications to its products

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