

# TECHNICAL DESCRIPTION

## TEMABENT Geosynthetic clay liners (GCL)

**CE 1415-CPR-151 –(C-3/2012)**

			Temabent-3300	Temabent-3800	Temabent-4300	Temabent-4800
<b>Geotextile properties</b>						
	Standard	Unit				
Cover layer	EN ISO 9864		200 g/m <sup>2</sup> PP nonwoven geotextile			
Carrier layer	EN ISO 9864		100 g/m <sup>2</sup> PP woven geotextile			
<b>Bentonite properties</b>						
Type			Na bentonit			
Montmorillonit content		%	> 65			
Swell index	ASTM D5890	ml/2g	min. 16			
Water Absorption	ASTM E946	%	>550			
Bentonite content		g/m <sup>2</sup>	3000	3500	4000	4500
<b>Composite features</b>						
Weight	EN 14196	g/m <sup>2</sup>	3300	3800	4300	4800
Thickness of 2 kPa in dry condition	EN ISO 9863-1	mm	4,4- 6,1	5,5- 6,3	5,9- 6,7	6,3- 7,0
Thickness of 2 kPa in swollen state	EN ISO 9863-1	mm	8,30	10,0	11,0	12,0
Peel strength	ASTM D 6496	N/10 cm	3,5			
Tensile strength md/cmd	EN ISO 10319	kN/m	>9,0			
Elongation at break md/cmd	EN ISO 10319	%	28 / 22			
Static puncture strength	EN ISO 12236	kN	>2,0			
Permeability ( k )	DIN 18130	m/s	< 2x10 <sup>-11</sup>			
<b>Roll dimensions</b>						
Length		m	30			
Width		m	5,0			
Area		m <sup>2</sup>	150			
Weight		kg	495	570	645	720



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