

## ORGANIC BLANKETS FOR EROSION CONTROL

- Absorb the kinetic energy produced by the erosive particle –water drops, wind, snow, etc.-
- Increase water retention capacity of the soil since they avoid water loss due to evaporation.
- Regulate the soil temperature since they protect it from heat and cold exposure.
- Become a component of the soil itself developing into an organic horizon.
- Complement to auxiliary elements in the public work like curbs, ditches, etc
- Reduce the conservation costs because they avoid soil losses which filled and damaged drainages and ditches.
- High performance and complete landscaping integration.
- Easy installation and low costs

### BONTERRA K3D

(THREE – DIMENSIONAL COIR ORGANIC BLANKET)

#### TECHNICAL DATA

<b>Applications</b>	- Laminar and high ditch erosion ( $v < 2.5$ m/s)		
	- 1:1 Slopes, unfertile soils, - Environmental restoration		
<b>Composition</b>	<b>Natural:</b> 100% coir. Approx. density 600 g/m <sup>2</sup> <b>Synthetical:</b> polipropylene 71,68 g/m <sup>2</sup>		
<b>Presentation</b>	In Rolls	<b>Length:</b> 25m. <b>Width:</b> 2m <b>Approx. Diameter:</b> 0,50m	
<b>Structure</b>	<b>Thread:</b> Polipropylene (PP)1000 den	<b>Weight:</b> 3,33g/m <sup>2</sup> . <b>Colour:</b> negro. <b>Toughness:</b> 4,12g/den	
	<b>Polipropylene netting (pp) on both sides and one intermediate coir netting</b>	<b>Bottom netting:</b> Black polipropylene <b>Weight:</b> 19,53g/m <sup>2</sup> <b>Mesh size:</b> 19,54 mm x 19,54mm <b>Lengthwise tensile strength:</b> 2,106 KN/m <b>Crosswise tensile strength:</b> 2,163 KN/m	
		<b>Intermediate netting:</b> coir netting <b>Weight:</b> 400 g/m <sup>2</sup>	
		<b>Top netting:</b> Black polipropylene <b>Weight:</b> 48,82g/m <sup>2</sup> <b>Mesh size:</b> 31,75 mm x 31,75mm <b>Lengthwise tensile strength:</b> 3,829 KN/m <b>Crosswise tensile strength:</b> 4,763 KN/m	
<b>Thickness</b>	9,5 mm		
<b>Average breaking strength</b>	<b>Lengthwise</b> 15.52 KN/m		
	<b>Crosswise</b> 9.96 KN/m		

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## WIDE – WIDTH TENSILE TEST

Standard: UNE EN ISO 10319:1996

Apparatus: INSTRON Dynamometer

Direction	Average breaking strength (KN/m)	C.V.(%)	Extension at max. Load (%)	C.V.(%)
Lengthwise	15.52	5.0	21.09	6.9
Crosswise	9.96	25.3	26.29	10.8

Direction	Percentage	Average secant module (KN/m)	C.V. (%)
Lengthwise	2%	27.75	9.6
	5%	55.2	9.2
	10%	85.6	5.8
Crosswise	2%	22.75	42.36
	5%	36.1	22.2
	10%	43.7	21.0

Direction	Rate of deformation (%/ min.)
Lengthwise	19
Crosswise	19

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