



**SOLENO**  
MASTERING WATER SUSTAINABLY

# DATA SHEET

## ROUTE X II

**PRODUCT DESCRIPTION :** Geocomposite combining a nonwoven needled geotextile reinforced with a woven geotextile.

**MAIN FUNCTION :** Reinforcement

**PRODUCT CERTIFICATION :** Standart BNQ 7009-210/2017, using protocol BNQ 7009-910/2018 and the grade R1.  
Compliant with the CCDG of MTQ.

**RAW MATERIAL :** Polypropylene

## TECHNICAL DATA TABLE

	PROPERTIES	TEST METHOD	VALUES	
			Metric	Imperial
<b>PHYSICAL</b>	Thickness <sup>(1)</sup>	ASTM D5199	≥ 0.8 mm	≥ 32 mils
	Mass per unit area <sup>(1)</sup>	ASTM D5261	-	-
	Wide width tensile strength, at break, at < 5 % of CVMS*	ASTM D4595	≥ 13.0 kN/m	≥ 74.1 lb/po
<b>MECHANICAL</b>	Wide width tensile strength, at break, at 5 % to < 10 % of CVMS*	ASTM D4595	≥ 13.65 kN/m	≥ 77.8 lb/po
	Wide width tensile strength, at break, at 10 % to < 15 % of CVMS*	ASTM D4595	≥ 14.3 kN/m	≥ 81.5 lb/po
	Wide width tensile strength, at 5% elongation, at < 5 % of CVMS*	ASTM D4595	≥ 5.0 kN/m	≥ 28.5 lb/po
	Wide width tensile strength, at 5% elongation, at 5 % to < 10 % of CVMS*	ASTM D4595	≥ 5.78 kN/m	≥ 32.9 lb/po
	Wide width tensile strength, at 5% elongation, at 10 % to < 15 % of CVMS*	ASTM D4595	≥ 6.05 kN/m	≥ 34.5 lb/po
	Elongation at break	ASTM D4632	< 30 %	
	Puncture strength (CBR)	ASTM D6241	≥ 2300 N	≥ 517 lb
<b>HYDRAULIC</b>	Permeability <sup>(1)</sup>	ASTM D4491	≥ 0.01 cm/s	
	Permittivity	ASTM D4491	≥ 0.05 s <sup>-1</sup>	
	Filtration opening size (FOS)	CAN/CGSB-148.1 - No 10-94	45 - 150 µm	
	Transmissivity	ASTM D6574	≥ 10 <sup>-7</sup> m <sup>2</sup> /s	
<b>PERFORMANCE AND DURABILITY</b>	UV** resistance (500 hours)	ASTM D4355	≥ 70 %	
<b>DIMENSIONS</b>	Standard width <sup>(1)</sup>	-	3.5 m	11.5 ft
	Standard length <sup>(1)</sup>	-	100 m	328 ft

Note 1: Property not part of the product certification by the BNQ.

\* CVMS : Coefficient of variation of mass per unit area.

\*\* UV : Ultraviolet.

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**APPLICATIONS :** Temporary roadway  
Permanent public roadway  
Permanent private roadway  
Public access road  
Commercial parking areas

Storage and loading areas  
Roadway widening  
Airport runways  
Railway tracks

