

# StrataGrid™ Biaxial



StrataGrid™ BX is a polyester (PET) geogrid reinforcement for soil. These high performance geogrids are constructed of high molecular weight and high tenacity knitted polyester yarns with a proprietary coating. StrataGrid™ BX is engineered to be mechanically and chemically durable, in both the harsh construction installation phase and in the aggressive soil environments.

	Unit	BX 30	BX 40	BX 50	BX 60	BX 80	BX 100
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## Mechanical properties

<b>Tensile strength</b> (ASTM D 6637 – Method A)	MD	kN/m	30	40	50	60	80	100
	CMD	kN/m	30	40	50	60	80	100

<b>Creep reduction factor</b> (at 20°C, 114 years design life)			1.47	1.47	1.47	1.47	1.47	1.47
<b>Creep limited strength</b>	MD	kN/m	20.4	27.2	34.0	40.8	54.4	68.0
	CMD	kN/m	20.4	27.2	34.0	40.8	54.4	68.0

## **Partial factor-installation damage** (ASTM D 5818)

In clay, silt or sand			1.07	1.07	1.07	1.07	1.07	1.07
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## **Partial factor-environmental effects** (GRI-GG7, GRI-GG8)

Environment, $4 \leq \text{pH} \leq 8$			1.10	1.10	1.10	1.10	1.10	1.10
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## Molecular properties

<b>Molecular weight</b> (ASTM D 4603 / GRI GG8)	gm/mol	min. 25,000						
<b>Carboxyl End Group (CEG)</b> (ASTM D 7409 / GRI GG7)	mmol/kg	max. 30						

## Physical properties

<b>Roll dimensions</b> (width x length)	m	3.8 x 100	3.8 x 100	3.8 x 100	3.8 x 100	3.8 x 100	3.8 x 100
<b>Roll Area</b>	sqm	380	380	380	380	380	380
<b>Product weight</b>	g/sqm	250	300	340	419	558	624
<b>Weight per roll</b>	kg	105	124	139	170	222	247

### Notes:

Roll weights are average values including shipping cores. Actual roll weights may vary.  
 MD = machine direction/ CMD= cross machine direction  
 The properties might change at the time of manufacturing, storing, handling or shipping  
 The above values are subject to change as per discretion of the company.



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