

FEICHENG LIANYI ENGINEERING PLASTICS CO.,LTD

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Biaxial Geogrid

Product Introduction

Biaxial Geogrid is made of high molecular polymer through extrusion, forming and punching before longitudinal and lateral stretching. This material has considerable tensile strength in longitudinal and lateral directions. This chain structure can effectively bear and diffuse forces on soil and is applicable to large area permanent load bearing foundation as a reinforce.

Product Features

1. Increase the bearing capacity of the roadbed and foundation and prolong their service life.
2. Prevent road surface and foundation from sinking or flawing, keep clean and beautiful ground surface.
3. Convenient construction saves time and labor, reduce mounting time and decrease maintenance expense.
4. Prevent culverts from flawing.
5. Enhance earth slope and prevent water loss and soil erosion.
6. Decrease underlayer thickness and save manufacturing cost.
7. Enhance the stability of side slope turf net patch to improve greening.
8. Replace wire netting used in mine as intermediate ceiling netting.

Product Function

1. It can be applied in all kinds of roads, railways, airports to enhance the roadbed.
2. It can be applied in a large car park and terminal freight yard, etc. to strengthen the foundations of a permanent load;
3. It can be applied in rail, road slope's protection;
4. It can be applied to enhance the culvert;
5. It can be applied as a secondary enhancement after the uniaxial geogrid soil enhancement, further enhancement to the soil; prevent soil erosion;
6. It can be applied in mining, tunnel reinforcement.

Specification & index:

Specification	Test Method		BX1515		BX2020		BX2525		BX3030		BX4040		BX1100		BX1200		BX3030L	
Index		Unit	MD	XMD	MD	XMD	MD	XMD	MD	XMD	MD	XMD	MD	XMD	MD	XMD	MD	XMD
Ultimate Tensile strenth	D6637	KN/m	15	15	20	20	25	25	30	30	40	40	12.4	19.0	19.2	28.8	30	30
Aperture Size		mm	39	39	39	39	39	39	39	39	39	39	25	33	25	33	65	65
			36	36	36	36	36	36	36	36	36	36						
			33	33	33	33	33	33	33	33	33	33						
			31	31	31	31	31	31	31	31	31	31						
Minimum Rib Thickness		mm	1.0	0.8	1.5	1.1	1.8	1.4	2.2	1.7	2.5	2.0	1.0	0.8	1.4	1.27	1.7	1.5
Tensile Strength @2% Strain	D6637	KN/m	6	6	7	7	9	9	11	11	15	15	4.1	6.6	6	9	11	11
Tensile Strength @5% Strain	D6637	KN/m	11	11	13	13	17	17	21	21	27	27	8.5	13.4	11.8	19.6	21	21
Junction Efficiency		%	95		95		95		95		95		95		95		95	
Flexural Stiffness	D7748	mg-cm	690,000		780,000		860,000		960,000		1,000,000		250,000		750,000		960,000	
Aperture Stability		m-N/deg	0.30		0.50		0.62		0.75		0.85		0.32		0.65		0.75	
Resistance to Installation Damage		%SC/%SW/%GP	95/93/90		95/93/90		95/93/90		95/93/90		95/93/90		95/93/90		95/93/90		95/93/90	
Resistance to Long Term Degradation		%	100		100		100		100		100		100		100		100	
Resistance to UV Degradation	D4355	%	100		100		100		100		100		100		100		100	
Minimum Cabon Black		%	2		2		2		2		2		2		2		2	
Unit Weight		g/m2	175-210		220-250		260-300		300-340		450-500		180-210		280-310		320-360	
Rolls Dimensions (Length, Width)		m	100*3.95		50*3.95		50*3.95		50*3.95		50*3.95		75*3.95		50*3.95		50*3.95	
			100*5		50*5		50*5		50*5		50*5		75*5		50*5		50*5	
			100*5.95		50*5.95		50*5.95		50*5.95		50*5.95		75*5.95		50*5.95		50*5.95	

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