

CONFORMITY OF PRODUCT

TME GeoTech Biaxial Geogrid



Purpose of Usage

Pp Plastic 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.

Application Locations

Roads, railways, airports. Large car parks, terminal freight yards to strengthen the foundations of a permanent load. As a secondary enhancement after the uniaxial geogrid soil enhancement. Further enhancement to the soil; prevent soil erosion. Mining and tunnel reinforcement.

Specification	Test Method	Unit	TME-BX 1515		TME-BX 2020		TME-BX 2525		TME-BX 3030		TME-BX 4040		TME-BX 1100		TME-BX 1200		TME-BX 3030L		
			MD	XMD	MD	XMD	MD	XMD	MD	XMD	MD	XMD	MD	XMD	MD	XMD	MD	XMD	MD
Index																			
Ultimate Tensile strength	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									
			33	33	33	33	33	33	33	33									
			31	31	31	31	31	31	31	31									
Minimum Rib Thickness		mm	1.0	0.8	1.5	1.8	1.1	1.8	1.4	2.2	1.7	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	11.08	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 Carbon 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		

Product Features

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