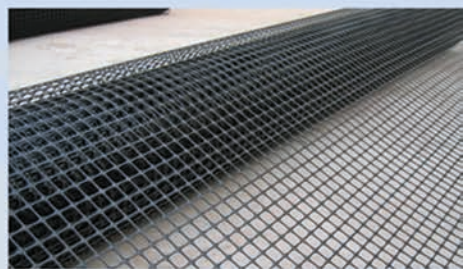


PP Biaxial Geogrid

BBM Biaxial Geogrids improve long-term performance and reduce cost in road construction

BBM Biaxial Geogrids are single layer regular grid structures formed by the process of extruding, punching, heating, longitudinal stretching and transverse stretching. BBM Biaxial Geogrids have high flexural rigidity and high tensile modulus in relation to the material being reinforced and have high continuity of tensile strength through all ribs and junctions of the grid structures.

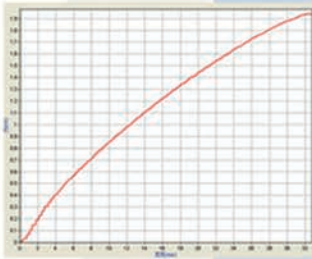
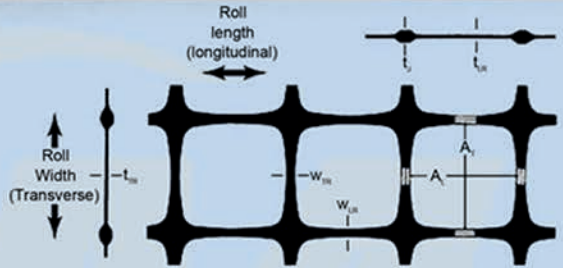


BBM Biaxial Geogrids are used to improve the performance of aggregate base course materials supporting both paved and unpaved roadway surfaces. The geogrids provide confinement (lateral stability) of unbounded base courses, thus improving their vertical stress distribution characteristics. Confinement is achieved by the geogrids restraining the lateral and vertical deformation of the aggregate, which is locked into the aperture openings of the product during placement and compaction of the aggregate. The reinforcement action (strength) of the geogrids is generated by the application of vertical stress causing lateral and vertical deformations of both the aggregate and the geogrids.





PP Biaxial Geogrid



Product	A _L	A _T	W _{LT}	W _{TL}	t _{LT}	t _{TL}	t _L
GG1515	30	30	3.0	3.2	0.9	0.7	2.5
GG2020	36	38	3.0	3.2	1.3	1.0	3.0
GG2020L	65	65	5.6	5.5	1.2	0.9	3.5
GG3030	34	36	3.8	4.0	2.2	1.5	4.6
GG3030L	65	65	5.6	5.5	1.6	1.2	5.0
GG4040	34	36	3.8	4.5	2.6	1.6	5.0

* unit = mm

Index Properties	Test Method	Unit	GG1515		GG2020		GG3030		GG4040	
			MD	TD	MD	TD	MD	TD	MD	TD
• Polymer	-	-	PP		PP		PP		PP	
• Minimum Carbon Black	ASTM D 4218	%	2		2		2		2	
• Tensile Strength @ 2% Strain	ASTM D 6637	kN/m	5	5	7	7	10.5	10.5	14	14
• Tensile Strength @ 5% Strain	ASTM D 6637	kN/m	7	7	14	14	21	21	28	28
• Ultimate Tensile Strength	ASTM D 6637	kN/m	15	15	20	20	30	30	40	40
• Strain @ Ultimate Strength	ASTM D 6637	%	13	10	13	10	13	10	13	10
Structural Integrity										
• Junction Efficiency	GRI GG2	%	93		93		93		93	
• Flexural Rigidity	ASTM D 1388	mg-cm	700,000		1,000,000		3,500,000		10,000,000	
• Aperture Stability	COE Method	mm-N/deg	646		707		1432		2104	
Dimensions										
• Roll Width	-	m	3.95		3.95		3.95		3.95	
• Roll Length	-	m	50		50		50		50	
• Roll Weight	-	kg	39		50		72		105	

MD denotes Machine Direction; TD denotes Transverse Direction.

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