

Track Bed Stabilisation

ArmaGrid - BXDD

ArmaGrid – $\mathrm{BX}_{\mathrm{pp}}$ is a biaxial geogrid made from polypropylene by accurate punching, and then stretching in two directions under strictly controlled conditions with a continuous orientation through the nodes. ArmaGrid – BX_{pp} is inert to chemicals, including acids, alkalis and salts, normally found in soils. ArmaGrid – BX_{PP} does not suffer any attack by microorganisms in

Applications

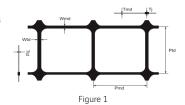
- Railways: Enhancing the ballast performance in railways and stabilisation of track foundation layers with reduced ballast degradation and settlement.
- Roadways: Subbase and sub-grade improvement by reinforcement and stabilisation; and increase in durability of flexible pavement and unpaved roads.
- Airport Runways and Taxiways: Subbase and sub-grade improvement for the runway and taxiway pavements of airfield.
- Ports: Sub-grade reinforcement and load distribution for container yards, under warehouse or similar load carrying platforms.

Technical Parameters

Properties		Test Method	Unit	AG-BX _{pp} 1616	AG-BX _{pp} 2020	AG-BX _{pp} 3030	AG-BX _{pp} 4040	AG-BX _{pp} 2020L	AG-BX _{pp} 3030L	AG-BX _{pp} 4040L
Physical Properties										
Material				Polypropylene						
Pitch Size	Pmd ^{vi}		mm	40	40	40	38	66	66	61
Pitch Size	Ptd ^{vi}		mm	40	40	40	38	66	66	61
Rib Width	Wmd ^{vi}		mm	2.3	2.3	2.4	2.6	4.4	4.4	4.7
Rib Width	Wtd ^{vi}		mm	3.1	3.1	3.7	4.5	5.5	5.6	6.1
Rib Depth	Tmd ^{vi}		mm	1.2	1.3	2.4	2.8	1.4	2	2.8
Rib Depth	Ttd ^{vi}		mm	0.6	0.7	1	1	0.7	0.9	1.1
Tj ^{vi}		-	mm	1.7	2.1	2.5	3.5	3	3.6	4.5
Mechanical Properties										
				Minimum Average Roll Value (MARV)"						
Ultimate Tensile Strength	MD ^v	ASTM D6637 B	kN/m	16	20	30	40	20	30	40
	CD ^v	ASTM D6637 B	kN/m	16	20	30	40	20	30	40
Maximum Elongation (±6)	MD ^ν	ASTM D6637 B	%	15	15	15	15	15	15	15
Maximum Elongation (±3)	CD ^v	ASTM D6637 B	%	10	10	10	10	10	10	10
Tensile Strength @ 2% Strain	MD ^ν	ASTM D6637 B	kN/m	5.6	7	11	14	7	11	14
	CD ^v	ASTM D6637 B	kN/m	5.6	7.4	11	14	7.4	11	14
Tensile Strength @ 5% Strain	MD ^ν	ASTM D6637 B	kN/m	11.2	14	21	28	14	21	28
	CD ^v	ASTM D6637 B	kN/m	11.2	14.6	21	28	14.6	21	28
Junction Efficiency		ASTM D7737/D6637	%	95%	95%	95%	95%	95%	95%	95%
Radial Stiffness ^{iv}		ASTM D6637	kN/m	280	350	550	700	350	550	700
Standard Packaging							,			,
Roll Width ^{vii}			m	3.9	3.9	3.9	3.9	3.9	3.9	3.9
Roll Length ^{vii}			m	100	51.3	51.3	30.8	51.3	51.3	30.8
Standard Roll Area ⁱⁱⁱ			m²	390	200	200	120	200	200	120

All the values are Nominal values

These values are subject to ±1% variation



- A. These properties may change at the time of handling, storage and shipping
- B. The values can be customized.
- C. The above values are subject to change as per discretion of the company
- D. All mechanical properties are based on the manufacturer's laboratory test results at 21±1°C.
- E. Carbon black content ≥ 2%
- F. ASTM D7737 performed at 10% per minute strain rate.
- G. Expressed as a comparison of ASTM D7737 strength to ASTM D6637 strength of the same sample.
- H. Using specimens 2 ribs wide with ribs transverse to the specimen cut flush with the exterior edges of the ribs in the direction of the specimen

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Values shown are minimum average roll values determinate in accordance with ASTMD4759.

^Ⅲ Other weight option available [№] At 2% strain under 360° radial loading. Determined from tests in accordance with ISO10319

MD= Machine Direction, CD= Cross Machine Direction

Refer to figure 1