

PAVEMENT STABILISATION GEOGRID

Kontain BG Series

Integrally formed biaxial polypropylene geogrid

APPLICATION	Granular pavement stabilisation, aggregate confinement and load distribution for unbound roads, hardstands, haul roads and working platforms.
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Technical data

Directional values are shown machine direction / transverse direction. Apertures and roll dimensions are nominal.

Property	Test method	Unit	BG15	BG20	BG30	BG40
Ultimate tensile strength	ASTM D6637	kN/m	15 / 15	20 / 20	30 / 30	40 / 40
Strength at 2% strain	ASTM D6637	kN/m	5 / 5	7 / 7	10.5 / 10.5	14 / 14
Strength at 5% strain	ASTM D6637	kN/m	10.5 / 10.5	14 / 14	21 / 21	28 / 28
Strain at ultimate	ASTM D6637	%	13 / 13	13 / 13	13 / 13	13 / 13
Junction efficiency	GRI-GG2	%	93	93	93	93
Flexural rigidity	ASTM D7748	mg-cm	250,000	750,000	2,000,000	4,800,000
Aperture stability	COE method	m-N/deg	0.32	0.50	0.75	0.98
Nominal aperture	Nominal	mm	36 / 36	35 / 35	34 / 34	33 / 33
Typical roll	Nominal	m	3.95 x 75	3.95 x 50	3.95 x 50	3.95 x 50

Range selection

Grade	Typical position
BG15	Designer-selected light-duty stabilisation; excluded from Kontain's no-design fallback screen.
BG20	Starting class for assessed formation CBR >=4%, subject to traffic duty and specification.
BG30	Higher-stiffness fallback for CBR >3% to <4% and demanding permanent or high-pass duty.
BG40	Starting class for CBR 2-3%; project review of cover, plant, drainage and separation is required.

Selection and installation

Control	Kontain field requirement
Selection	Use design CBR, aggregate grading and Dmax, traffic duty, drainage, first-lift thickness and construction plant. Do not select on ultimate tensile class alone.
Overlap	CBR >2%: 300-450 mm. CBR 1-2%: 600-900 mm. CBR 0.5-1%: 900 mm. All roll ends: 900 mm minimum unless project documents require more.
Placement	End-dump onto previously placed fill and spread forward. Do not allow uncontrolled traffic on exposed grid or composite.
Cover	Maintain at least 200 mm compacted cover on firm formation and 300 mm or more for CBR <=2%, pumping risk or visibly unstable ground, unless the design requires more.
Stop work	Stop for progressive rutting, lateral wave, pumping, opened laps, movement, tears, delamination or exposed product. Correct the cause before continuing.

MRTS58	MRTS58 Type 1 and Type 2 project selections are supported for suitable applications. Kontain will nominate the proposed class and provide the project compliance schedule for the exact grade and configuration offered.
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Product identification and use

Kontain product numbers are house identifiers. Final supply is governed by the Kontain quotation, approved project specification, certificate of analysis and terms of sale. This TDS provides product data and general installation guidance; it is not a pavement design or authority approval. Any pavement thickness reduction or structural benefit must be supported by the project designer.