

PAVEMENT STABILISATION GEOGRID

Kontain BGC Series

Biaxial PP geogrid - nonwoven geotextile composite

APPLICATION

Combined granular stabilisation, separation and filtration for fine-grained, wet, soft or contamination-prone subgrades.

Grid component

Property	Test method	Unit	BGC20	BGC30	BGC40	BGC50
Ultimate tensile strength	ASTM D6637	kN/m	20 / 20	30 / 30	40 / 40	50 / 50
Strength at 2% strain	ASTM D6637	kN/m	7 / 7	10.5 / 10.5	14 / 14	17.5 / 17.5
Strength at 5% strain	ASTM D6637	kN/m	14 / 14	21 / 21	28 / 28	35 / 35
Strain at ultimate	ASTM D6637	%	13 / 13	13 / 13	13 / 13	13 / 13

Nonwoven backing options

Specify GT150 or GT200 after the grid grade, for example BGC30-GT150. GT150 and GT200 are Kontain backing class designations. Filtration selection must consider the project soil grading, hydraulic conditions, chemistry and construction survivability.

Backing class	Primary functions	Project release
GT150	Separation and filtration	Backing property schedule provided with the proposed system.
GT200	Separation, filtration and increased construction survivability	Backing property schedule provided with the proposed system.

PLACEMENT

Place the nonwoven side against the subgrade unless the approved project detail states otherwise. Prevent wrinkles, opened laps and delamination during rollout and cover placement.

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.

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.