

PAVEMENT STABILISATION GEOGRID

Kontain TGC Series

Triaxial geocomposite - polymeric geogrid with nonwoven geotextile

APPLICATION Multi-directional aggregate interaction with an integral separation and filtration layer for soft, fine-grained, wet or contamination-prone formations.

Grid component

Property	Basis	Unit	TGC145	TGC185	TGC225	TGC295
Radial secant stiffness at 2%	Declared	kN/m	145	185	225	295
Junction efficiency	Declared	%	100 +/-10	100 +/-10	100 +/-10	100 +/-10
Hexagon pitch	Nominal	mm	75 +/-3	75 +/-3	75 +/-3	75 +/-3
Mass per unit area	Declared	g/m2	200	250	320	400
Typical roll	Nominal	m	3.95 x 50	3.95 x 50	3.95 x 50	3.95 x 50

Nonwoven backing options

Order as TGC[radial class]-GT150 or TGC[radial class]-GT200. GT150 and GT200 are Kontain backing class designations.

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. Maintain continuous overlaps and prevent wrinkles or delamination.

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.