PRODUCT INFORMATION SHEET

BX SERIES

REINFORCEMENT SOLUTION FOR SOILS WITH LOW BEARING CAPACITY

BENEFITS:

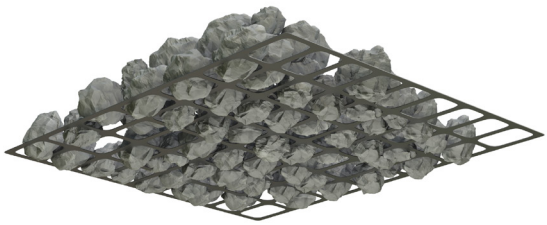
Increase in soil bearing capacity;

Significant reduction in the amount of granular material required to achieve the same bearing capacity;

Reduction in road construction costs;

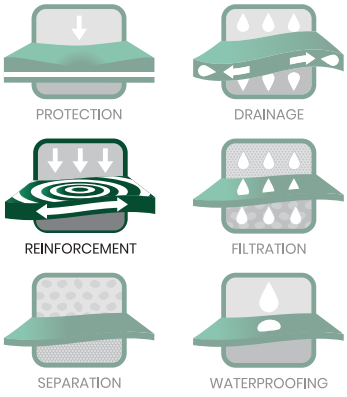
Increased lifespan of structures subjected to heavy loads.

BX series biaxial geogrids are polypropylene structures with rectangular openings, forming an open and regular network of tension-resistant elements. The openings in the geogrid allow aggregate interlock, creating a strong composite system that increases the bearing capacity of the soil. The use of BX series geogrids provides the necessary reinforcement, extends the lifespan of infrastructure built on weak soils, and reduces the amount of granular material required.



BX SERIES

FUNCTIONS



SECTORS

- Municipal and Architectural
- Roads and Transportation
- Natural Resources and Energy
- Industrial and Waste Management

THE USE OF BIAXIAL GEOGRIDS, A SOURCE OF COST SAVINGS:

- Reduction in the thickness of granular materials required (purchase and transportation costs);
- Reduction in the amount of excavation required (excavation and hauling costs);
- Acceleration of project timelines (time and labor savings);
- Extended lifespan of infrastructure;
- Reduced environmental impact (CO_2) of the structure.

BX SERIES

GEOGRID INSTALLATION METHOD:

- Prepare and level the subgrade soil;
- Position the roll and unroll it manually over the granular layer;
- Stretch the geogrid after unrolling to eliminate waves and folds;
- Anchor to keep the roll under tension;
- Overlap rolls by a minimum of 30 cm.;
- If required, secure adjacent rolls using self-locking ties (tie wraps);
- Place the specified fill material according to the selected grid and spread it carefully to avoid creating waves or folds.

INFRASTRUCTURE REINFORCEMENT THROUGH CONFINEMENT MECHANISM

Whether for subgrade reinforcement or foundation layer reinforcement, for paved or unpaved roads, biaxial geogrids offer numerous advantages.

SUBGRADE AND FOUNDATION LAYER REINFORCEMENT

hear failure of a weak subgrade or an inadequate foundation leads to rapid deterioration of the riding surface. The use of a BX series geogrid combined with granular backfill material allows to:

- Distribute loads over a larger area;
- Reduce the risk of shear failure;
- Maximize the bearing capacity of the subgrade;
- Reduce the amount of backfill required to achieve the same bearing capacity;
- Save time and money by reducing the amount of granular material required;
- Speed up project execution;
- Extend the service life of the pavement.

Biaxial geogrids are ideal for reinforcing: streets, roads, highways, forest roads, mining roads, and more.

SPECIFICATIONS	**Description**	**Product type**	**Format**
	BX Geogrid	Biaxial polypropylene geogrid	Roll

BX GEOGRID: PERFORMANCE-DRIVEN PROPERTIES THAT MAKE A DIFFERENCE

Measured properties		Test method	Unit	Interpretation
Mechanical	Tensile strength	ASTM D6637	kN/m	Indicates the product's tensile strength
	Junction efficiency	ASTM D6241	%	Indicates the product's junction efficiency.
Physical	Flexural stiffness	ASTM D7748	mg-cm	Indicates the product's tensile strength when subjected to flexural loading.
	UV resistance	ASTM D4355	%	Indicates the product's resistance to UV rays.

This table provides a summary of the specifications. Users are advised to consult the up-to-date detailed technical data sheet available on our website at www.texel.ca.

WANT TO LEARN MORE?

Feel free to contact one of our representatives to discuss your project. 1 800 463-8929 | texel.ca

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FORM A-6142
Effective 07/25