

StrataGrid™

PRODUCT GUIDELINES



Overview of StrataGrid™

StrataGrid™ is a geogrid used for soil reinforcement, especially in reinforced soil walls. It is constructed of high molecular weight and high tenacity, knitted polyester yarns with a proprietary coating. It is engineered to be mechanically and chemically durable in harsh conditions.

StrataGrid™ is manufactured in the state-of-the-art plant located in India. Strata Geosystems is ISO 9001-2008 accredited and Strata products have the CE mark. All testing is conducted in GAI-LAP certified laboratories across USA, UK, and India.



StrataGrid™ Handling

StrataGrid™ is packed in rolls and is delivered to the site in varying dimensions and weights based on the customer requirements. The packing material (HDPE) ensures minimal damage to the StrataGrid™. However, a few precautions should be taken:

- a) The rolls should be handled with care during unloading and transport to the installation sites
 - b) The rolls should not be dragged/bent or rolled over any surface during transportation
- The inner core (plastic or cardboard) allows for fork-lifts to be used while unloading the rolls. The core's inner diameter is approximately 4".



StrataGrid™ Storage

StrataGrid™ can be sensitive to harsh climates (if exposed). It is important to adhere to certain steps to maintain the quality of the product:


- a) StrataGrid™ rolls should be stored horizontally in a clean and secure location.
- b) StrataGrid™ should be kept in its protective packaging as supplied until it is ready to be used
 - i. Up to six layers of StrataGrid™ rolls can be stacked on top forming a triangular shape
 - ii. There should be no additional load stacked on top
 - iii. Soft wedges should be appropriately used to prevent collapse of the stack
 - iv. The rolls at the ends should be soft-wedged to prevent rolling off
 - v. The advantage of this stacking is that it allows for fork-lifts to be used to move the rolls
- c) The material is subject to deformation under stress so should be supported uniformly to protect it from excessive vertical load.
- d) The rolls should be stacked by style in a well-illuminated area to avoid errors in product identification.


StrataGrid™ Identification

StrataGrid™ labels are placed in five places on each roll:

- a) Two on the inside of the plastic core (one on each side)
- b) Two on the outside of the plastic core (one on each side)
- c) One on the top of each roll.

Each roll is colour coded based on the style of the roll.

Product Grade	StrataGrid SG 500		
Manufactured by	Strata Geosystems (I) Pvt. Ltd.		
Manufactured in	India		
Distributed by	Cirtex Industries Ltd.		
Roll Number	52260500360101		
Roll Size	380.0 Sq. Metres		
Roll Weight	135.0 Kgs	Roll Dimensions: 3.8m (width) x 100m (length)	
NZTA Product Acceptance Certificate No 1			
			
52260500360101			





StrataGrid™ Unwrapping

The StrataGrid™ wrapping should only be removed once the rolls are on site and ready to use. The wrapping should be removed systematically and with utmost care. Avoid the use of any sharp objects such as a knife, to prevent damage to outer layers of the geogrid. The removed wraps should be kept to cover the partially used StrataGrid™ roll.



StrataGrid™ Installation

Step 1: Ensure the foundation on which the StrataGrid™ is laid is flat without ruts. The weather conditions should be dry.

Step 2: The StrataGrid™ should be laid with the machine (longitudinal) direction along the direction of principal stress, i.e., perpendicular to the wall face.

Step 3: The roll should be rolled out with small amounts at a time in the direction of the run, ensuring that no folds occur while it is being laid.

Step 4: The loose end which is exposed should be tensioned by hand in order to remove the slacks and then secured by nailing to the ground at the ends.

Step 5: The infill material in immediate contact with the product should be placed and spread in the longitudinal direction only.



StrataGrid™ Installation (Continued)

Step 6: The length of the geogrid should be continuous. It should be well stretched and anchored to the compacted soil while also eliminating any wrinkles.





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StrataGrid™ Installation Steps to Avoid

1. Once the StrataGrid™ rolls are laid, ensure at least 150mm of soil cover is placed over the StrataGrid™ before machinery drives over it.
2. Ensure that the StrataGrid™ is never curled back due to soil dumping or rolling.
3. StrataGrid™ geogrids laid side by side should be overlapped in accordance with the project specification. If no overlap is specified, an overlap of 100mm is recommended to obtain 100% coverage.
4. StrataGrid™ should be not exposed to the sunlight (without the infill) for a prolonged period of time.





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