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**GEOTEXTILE**

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INSTALLATION GUIDE

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TITAN ENVIRONMENTAL CONTAINMENT

**TE-GHS**  
**HIGH STRENGTH WOVEN GEOTEXTILE**



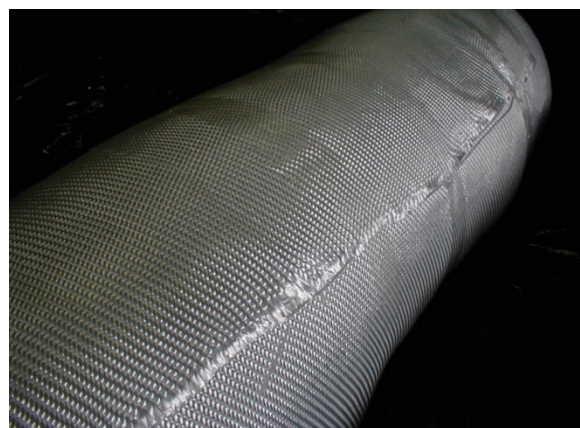
## TITAN ENVIRONMENTAL CONTAINMENT

### TE-GHS High Strength Woven Geotextile Installation

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#### Surface Preparation:

- Prepare surfaces to receive geosynthetic reinforcement as indicated in the Plans or as directed by the Engineer.
- Prepare soil foundation soil preparation.
- Verify correct orientation of geosynthetic reinforcement.



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#### Installation:

- Install geosynthetic reinforcement to heights, locations and extent as indicated or as directed by Engineer.
- Place geosynthetic reinforcement horizontally on compacted backfill.
- Pull geosynthetic reinforcement taut and free of wrinkles prior to placement of soil fill. Secure with staples, pins, sandbags, or fill as required according to fill properties, fill placement procedures, weather conditions, or as directed by Engineer.
- Extend geosynthetic reinforcement to terminate at slope face.
- Utilize consistent procedures for tensioning geosynthetic reinforcement throughout slope length and height.
- Do not overlap geosynthetic reinforcement in design strength. Place as one continuous piece of material.
- If overlaps are required, install in accordance with the requirements on the graph in Figure #1.
- Install geosynthetic reinforcement in continuous lengths except at curves where indicated.
- Place reinforced fill material in maximum 200-mm (8-in) compacted lifts or as directed by Engineer.
- Pretension geosynthetic reinforcement by hand or remove wrinkles. Apply constant tension to each section until soil fill has been placed. Place, spread and compact soil fill to prevent development of wrinkles and movement of geosynthetic reinforcement.

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#### Protection:

- Limit exposure of the geotextile to the elements to 2 days following laydown to prevent damage.
- Do not operate tracked construction equipment directly on geosynthetic reinforcement.
- Place minimum 200 mm (8in) of fill prior to operating tracked vehicles over geosynthetic reinforcement.
- Minimize turning of tracked vehicles.
- Rubber-tired equipment may pass over the geosynthetic reinforcement at low speeds of less than 16 km/h (10mph). Avoid sudden braking and sharp turning.
- Provide surface drainage during and after construction of wall to minimize water infiltration in reinforced soil zone.

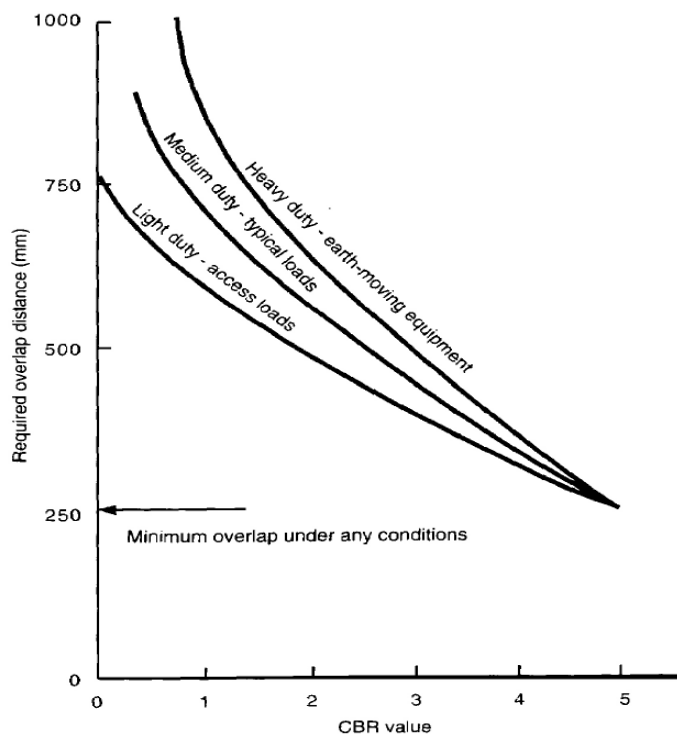


# TITAN ENVIRONMENTAL CONTAINMENT

## TE-GHS High Strength Woven Geotextile Installation

### Figure #1:

Recommended overlap for TE-GHS High Strength Geotextiles used in unpaved roads as a function of unsoaked soil sub-grade CBR value.



Ref: Koerner, Robert M, Designing with Geosynthetics (Fifth Edition, Prentice Hall, 2005)

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