STRATATEX HSR™ GEOTEXTILE

INSTALLATION GUIDE

ISO: 100 007 | SEPTEMBER 2026 | VER. 02

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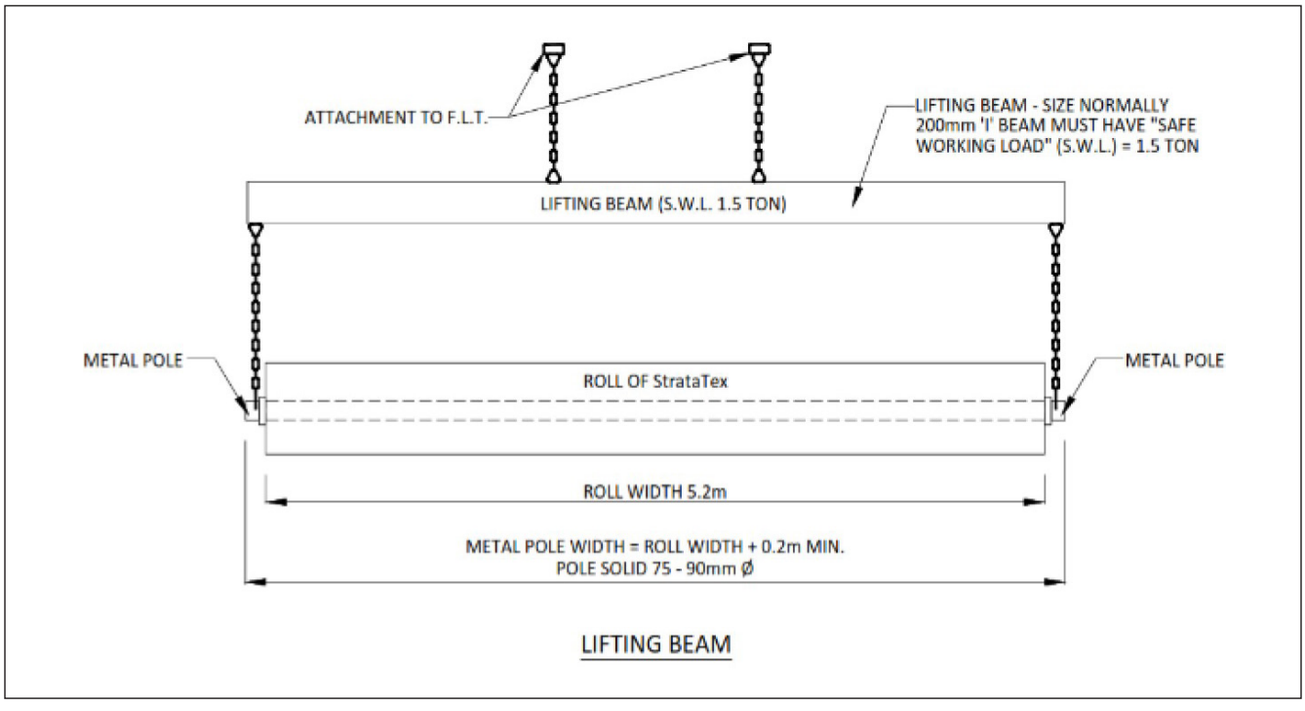
OVERVIEW

The following guidelines give a detailed description of the steps needed to install StrataTex HSR™ geotextile.

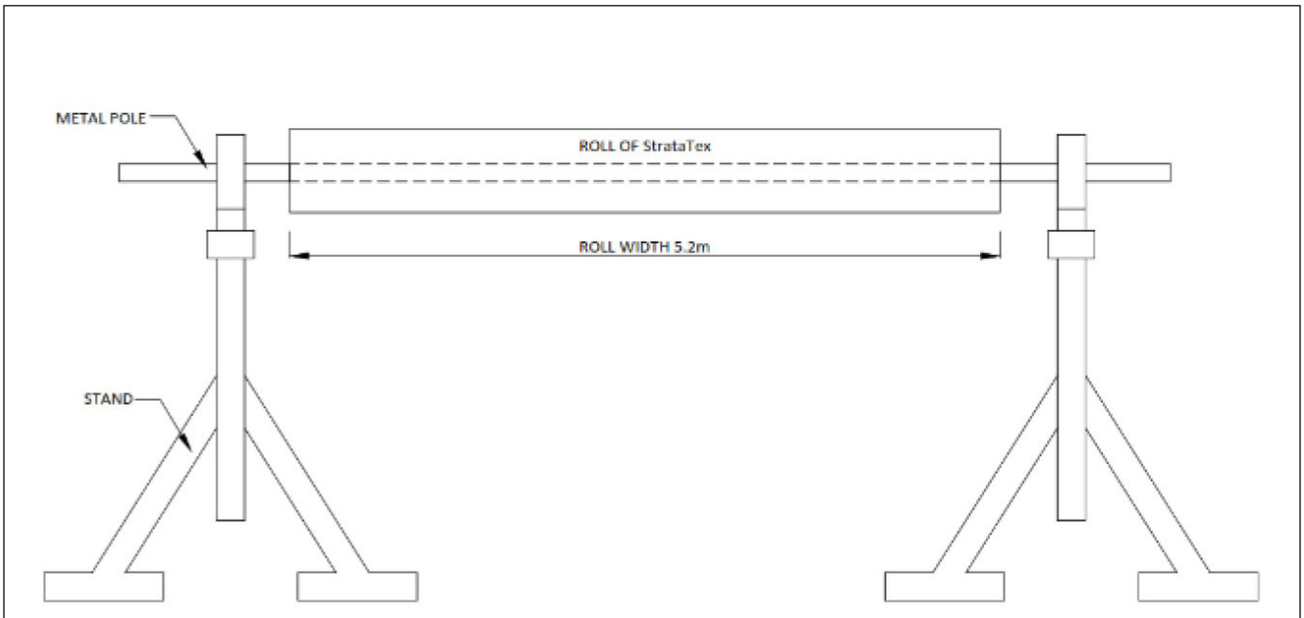
1 StrataTex HSR™ geotextile rolls come in various dimensions 5.2m & 5.8 m wide & 100m & 200m long.

2 The roll weights vary from 200 kg to 1200 kg, so it is crucial that the roll weight is evenly distributed during the lifting operations.

3 The general lifting arrangements consists of a solid metal pole which is threaded through the hollow core of the geotextile roll. A typical arrangement can be made of a metal pole which is threaded through the roll core should be in conjunction with the lifting beam. The lifting beam will normally be 200mm deep I –beam with a typical safe working load of 1 ton. This lifting beam supports the lifting chains at each end of the roll and spreads the load uniformly across the roll width. The beam and the metal pole are usually lifted by the bucket of the excavator for installation purposes and for all on-site handling.



4 StrataTex HSR™ geotextiles can be also installed on site using the stand and metal pole arrangement. The StrataTex HSR™ geotextile roll shall be placed symmetrically on the stands at each end of the roll and the roll can be manually pulled and laid on the site.



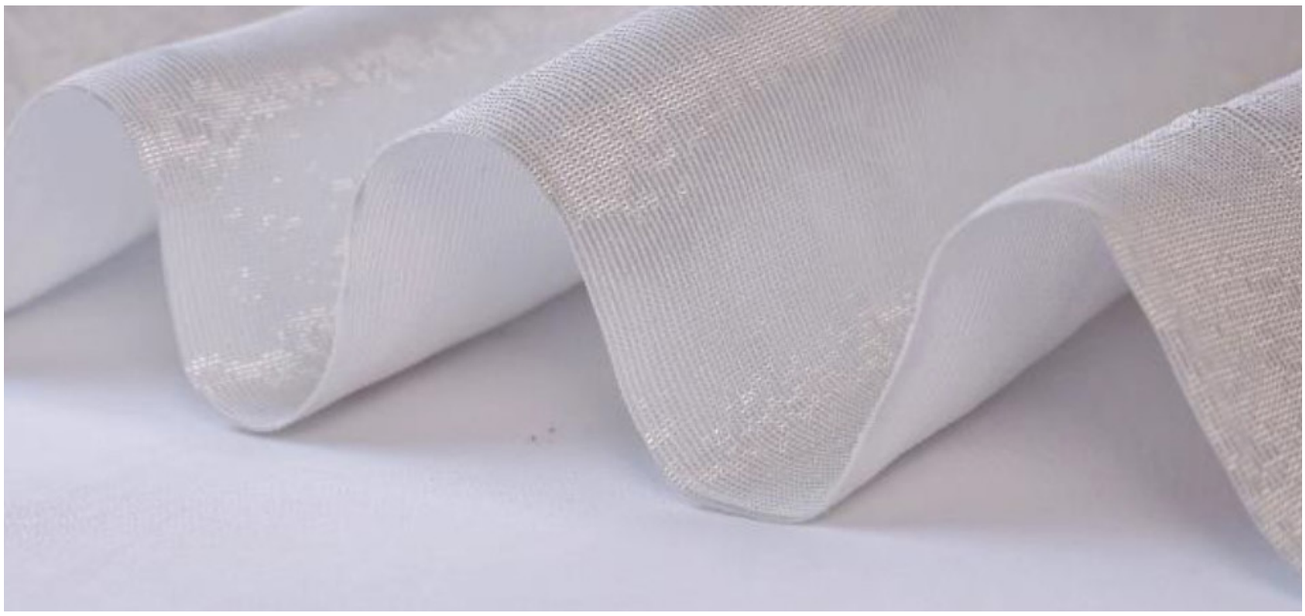
STAND AND METAL POLE ARRANGEMENT

5 Additionally, an all-terrain forklift with a boom of 4m can be used to load and unload from the container and also transport within the construction site storage areas.

6 The StrataTex rolls consist of a core which would be made of either plastic or metal pipe. In case where the core is made of plastic, it is not recommended to place the lifting straps around the ends of the rolls during the unloading or installation process due to the excessive weight of the geotextile rolls and flexible nature of the rolls.

7 The StrataTex geotextile rolls should be stored on a timber surface or a levelled ground to keep the rolls flat. When handling from the storage area, the pole and lifting beam should be adopted.

8 StrataTex HSR™ geotextile can be cut using a sharp blade, or scissors. However, the most efficient method is to use, and electric hot knife or pine tipped blow torch. This method seals ends of the fabric to prevent fraying during subsequent handling.



9 The first step involves the preparation of the formation. This includes any further excavation required or any filling up of hollows in the formation and removal of any foreign objects (e.g., tree stumps). The removal of vegetation or stripping of the topsoil is recommended prior to the installation of StrataTex geotextile.

10 StrataTex HSR™ geotextiles shall be laid directly on the compacted formation.

11 The StrataTex HSR™ geotextile rolls shall be unrolled and laid flat on the formation. Care shall be taken that the laid geotextile is free from any wrinkles.

12 The StrataTex HSR™ geotextile shall be stretched manually at intervals and shall be held in positions using deadweight / sandbags until placement of backfill to maintain stretched condition of geotextile before placement of fill.

13 No vehicles shall be allowed to operate directly on the laid StrataTex HSR™ geotextile without placement of backfill material.

14 Care shall be taken that the StrataTex HSR™ geotextiles are overlapped in both the longitudinal and transverse directions. Overlaps in the longitudinal direction of geotextile (i.e., along the length of geotextile) shall be minimum 300mm. The overlaps in the transverse direction of the geotextile (i.e., at the ends of rolls) are generally not permitted unless specified by the design engineer.

15 Overlaps shall be oriented in the direction of the fill placement to avoid any uplift.

16 The fill material shall be placed by the end tipping method so to prevent any damage to the installed StrataTex HSR™ geotextiles by the construction vehicles.

17 The StrataTex HSR ™ geotextile shall be backfilled in less than 24 hours as the geotextile is uncoated.

18 The exact thickness of the first fill layer and the compaction method shall be specified regarding the compacted material and compaction level required at the site.

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