

Material description

MACTEX® W2 geotextiles are planar woven structures manufactured by weaving high tenacity polyester yarns in the warp and weft directions.

Site Unloading, Handling & Storage

While unloading or transferring the rolls of MACTEX® geotextile from one location to another, prevent damage to the wrapping and to the geotextile itself.

During storage, the rolls of MACTEX® geotextile shall be elevated off the ground and adequately covered to protect them from site construction, precipitation, extended UV radiation including sunlight, chemicals, flames including welding sparks, high temperatures, and any other environmental condition that may damage the property values of the product.

The rolls of MACTEX® geotextile shall be protected from long-term exposure to direct sunlight during transport and storage. Once unrolled the MACTEX® geotextiles should be covered as soon as possible.

Installation

The following is the Maccaferri recommendation for the successful installation of the products range:

1. Care should be taken in the handling, lifting and positioning of the MACTEX® rolls. The weight of the rolls is such that mechanical lifting arrangements are necessary, the use of a lifting beam is recommended.
2. To ensure ease of installation, and proper performance of the MACTEX® geotextiles, the formation on which it is to be installed should be flat without ruts, vegetation and sharp undulations. Clean the ground from debris, tree trunks, etc. Smooth and level the subgrade to the prescribed elevation as required by the contract.
3. The rolls of MACTEX® geotextile should be placed such that overlaps, laying directions and alignments are made easy in advance of unrolling the product otherwise corrections would be difficult.
4. Unroll the MACTEX® geotextile on site in the direction of laying in the direction of traffic/road. The MACTEX® geotextile should be rolled in line with the placement of the new aggregate. The MACTEX® geotextiles should not be dragged on the subgrade, but placed smoothly, to minimise wrinkles.
5. Parallel rolls should be overlapped, sewn or joined. The unrolled flat MACTEX® layer overlap requirements, either side by side or end to end, shall depend on the strength of the subgrade. See Table 1 for guidance.

CBR (%)	Min. Overlap
>2	300-450 mm
1-2	600-900 mm
0.5-1	900 mm or sewn
<0.5	Sewn
All roll ends	900 mm or sewn

Table 1 - MacTex® W1 overlap requirements

Overlaps should not be placed along the anticipated primary wheel paths location. Sewn seams should meet the same tensile strength as required for the geotextile itself. For basal reinforcement application, no overlaps are permitted in the primary roll direction.

6. Secure the MACTEX® geotextile from wind forces i.e. by placing small bags with sand on the fabric to keep it in place.
7. Before covering, the MACTEX® geotextile should be checked by an inspector for extensive damage (holes, tears) and be repaired by placing a new layer on top of the damaged area or replaced.

8. Tracked vehicles should not be driven directly on the MACTEX[®] geotextile. A minimum of 200mm of structural fill material should be placed between the MACTEX[®] geotextile and the tracks.
9. Base course material should be placed in lift thicknesses and compacted in accordance with the design requirements.

Cutting

The MACTEX[®] geotextile can be easily cut with sharp shears to accommodate manhole covers, curves, etc.

Backfilling

Driving vehicles or machinery directly over the geotextile can cause damage and must be avoided.

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