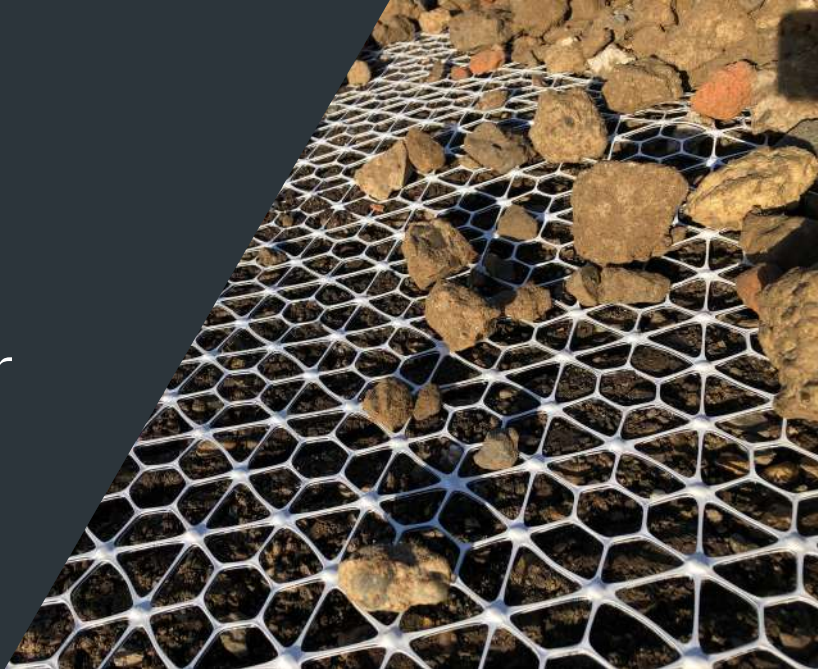


## Installation Guideline for Tensar® InterAx™ geogrid

**for stabilisation of granular fill over  
weak subgrades.**



This Installation Guideline provides a step by step guide for Contractors installing Tensar® InterAx™ geogrid supplied by Tensar International or any of its appointed distributors.

The guideline applies to both the permanent and temporary mechanical stabilisation of areas over which vehicular access is to be provided.

## Installation Guidelines

### Subgrade Preparation

***For a subgrade over which construction plant cannot safely traverse:***

Tensar InterAx geogrid shall be laid directly on the site, having removed major protrusions such as rocks and tree and bush stumps and also having filled local hollows and depressions with the approved fill but otherwise retaining the vegetation and topsoil covering the site.

***or where site conditions permit:***

The subgrade shall be levelled in accordance with UK Highway Agency, Manual of Contract Documents for Highway Works (MCDHW), Specification for Highway Works, Clause 616, or as specified in the Contract Documents.

### Placing Tensar InterAx Geogrid

***Heavy duty gloves should be worn when handling Tensar InterAx geogrid.***

Tensar InterAx geogrid may be placed on the subgrade either parallel to the road centre line or in the transverse direction. If a geotextile separator has also been specified to accompany the Tensar InterAx geogrid, then the geogrid must be placed above the geotextile (so that the placed fill can interlock with the apertures of the geogrid).

### Overlaps

The width of overlap between adjacent Tensar InterAx geogrid lengths is dependent upon the grading and thickness of fill and the stiffness of the subgrade.

The minimum overlap shall be 300mm and the maximum normally required shall be 600mm or as directed within the Contract Documents.

Overlaps must be secured and maintained during the filling operation. This is generally achieved by placing small heaps of granular fill locally over the overlaps ahead of the main filling operation.

### Granular Fill

A well graded aggregate fill is suitable for the unbound granular fill. Type 1 or 2 is recommended, as described in UK Manual of Contract Documents for Highway Works (MCDHW) Volume 1 Specification for Highway Works, Series 800, clauses 803 and 804 respectively, or as specified in the Contract Documents.

Specifiers are requested to contact Tensar International or a local Tensar Distributor for specific advice when fill other than the above is to be used.

BS Sieve Size (mm)	PERCENTAGE BY MASS PASSING	
	Sub-base Type 1	Sub-base Type 2
75	100	100
31.5	75-99	75-99
16	43-81	50-90
8	23-66	30-75
4	12-53	15-60
2	6-42	
1	3-32	0-35
0.063	0-9	0-9
The size fraction of the unbound mixture passing the 0.425 mm size test sieve shall be non-plastic as defined by BS 1377-2 and tested in compliance therewith.		The size fraction of the unbound mixture passing the 0.425 mm size test sieve when tested in compliance with BS 1377-2 shall have a plasticity index of less than 6.

Table 1 Subbase Type 1 and Type 2 — UK Manual of Contract Documents for Highway Works (MCDHW) Volume1 Series 800



## Placing Granular Fill

Lorry loads of granular fill material shall be tipped into stockpiles on placed fill and not tipped directly onto the Tensar InterAx geogrid. The fill stockpiles shall be spread by mechanical plant which causes the aggregate to cascade onto the geogrid, such as an excavator bucket or dozer with an opening bucket.

Fill shall be spread in layers of not less than 150mm thickness. The initial layer thickness to be placed on the geogrid shall be specified in the contract documents along with the maximum layer thickness.

In the stabilisation of wide and broad areas, fill shall be spread such that the first layer advances across roll widths rather than along roll lengths.

Care shall be taken to avoid damage to the Tensar InterAx geogrid. No traffic or site plant shall be permitted to travel on the geogrid prior to covering them with a minimum 150mm layer of granular fill.

The information in this document supersedes any and all prior Installation Guideline for the products/system designated above and is supplied by Tensar International Limited without charge. Tensar International Limited excludes to the fullest extent lawfully permitted any and all liability whatsoever for any loss or damage howsoever arising out of the use of and reliance upon this information. It is your sole responsibility and you must assume all risk and liability for the final determination as to the suitability of any Tensar International Limited product and/or design for the use and in the manner contemplated by you in connection with a particular project.

Tensar and InterAx are registered trademarks.

## Compaction

Compaction of granular sub-base shall normally be carried out in accordance with UK Manual of Contract Documents for Highway Works (MCDHW) Volume 1 Specification for Highway works, Series 800, or as specified in the Contract Documents.

Compaction of other fills shall be carried out in accordance with (MCDHW) Volume 1 Specification for Highway works, Series 600, or as specified in the Contract Documents.

Over exceptionally soft subgrade the degree of compaction applied to the lowest layer of fill may have to be reduced from standard requirements. Details shall be specified within the Contract Documents.

## Contact Tensar International for specific advise.

**Tel: +44 (0) 1254 262431 | Fax: +44 (0) 1254 266867**  
**E-mail: [sales@tensar.co.uk](mailto:sales@tensar.co.uk) | UK Head Office: Tensar International Limited, Units 2-4 Cunningham Court, Shadsworth Business Park, Blackburn, BB1 2QX**