Base Build Up using 'Cellweb™' (SuDS)

Typical base build up using a Cellular Confinement System, for particular use in Tree Protection Order (TPO) areas

Recommended specification for all Addagrip Resin Bound products:
0.5mm diameter glass grit lightly broadcasted onto uncured surface for antislip.

Surface Course
Hand applied and troweled to a smooth finish by Addagrip approved installers. See table for recommended depths



Cell Web Sub-base
Laid by others in well compacted layers to a minimum fall of 1.5% (1 in 66) A suitable depth of well compacted, non-frost susceptible Type 1X or Type 3 granular sub-base to SHW clause 805 or 4/40mm, 4/20mm graded crushed concrete aggregate to BS EN12620 or locally available secondary or recycled aggregates which comply with the requirements of the specifications for Highway works for sub-bases. Apply in conjunction with a suitably deep 'Cellweb™' or similar standard cellular confinement blanket and a 25mm aggregate surcharge.

Optional membrane Sub-grade
A 'Cellweb™ fibretex F4M Geotextile Separation fabric' to prevent upward migration of fine soil particles (optional).

Sub-grade
CBR at least the minimum strength specified in the below table. If below, capping layers are required to strengthen soil.

System	Pedestrian	Light Vehicle (<6T)	Heavy Vehicle (>6T)
Surface Course	Minimum 30mm	Minimum 45mm	Minimum 45mm
Sub Base	75mm CellWeb filled +25mm aggregate surcharge	100mm CellWeb filled +25mm aggregate surcharge	150mm CellWeb filled +25mm aggregate surcharge
Geotextile Membrane	Optional	Optional	Optional
Sub Grade	CBR > 2%	CBR > 3%	CBR > 5%

For further information regarding the Cellweb system, please consult the GeoSyn website:

Note:

1. **Existing Binder Course**
   - 1.1. Existing asphalt or concrete must be sound and suitable for the anticipated use.
   - 1.2. Any movement or construction joints in concrete must be reflected through the finished surface.
   - 1.3. Cracks should be broken out where necessary and filled using an appropriate polymer or cement-based crack repair material.
   - 1.4. The base must be level, with a maximum tolerance of 3mm under a 1m straight edge.
2. **Drainage & Falls**
   - 2.1. Where non-permeable build-up layers are used or there is a risk of ponding, the surface must be laid to suitable falls.
   - 2.2. Adequate subsurface drainage must be installed to manage surface water.
   - 2.3. The suitability and compliance of all base build ups and drainage arrangements must be assessed and designed by a suitably qualified drainage or civil engineer.
3. **Sub-base & Ground Conditions**
   - 3.1. If plastic or silty sub-grade is present, a capping layer must be installed in accordance with the Highways Agency Design Manual for Roads and Bridges (CD225).

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3.2. Total sub-base thickness will depend on loading requirements and any attenuation needs. Structural capacity and hydraulic performance must be confirmed by the project appointed structural and drainage engineers.

4. **Edging**

4.1. Suitable edging (steel, timber, brick, stone, or aluminum) must be provided to ensure a clean and durable finish

All advice and recommendations provided by Addagrip Terraco Ltd are based on practical experience and are believed to be accurate at the time of publication. No liability is accepted for the use of this information. No assessment is undertaken by Addagrip Terraco Ltd in respect of site wide drainage capacity, extreme rainfall events or compliance with statutory drainage approval or consent processes. Figures quoted are typical values only and do not constitute a specification.