Addastone Plus Asphalt Build Up

Typical base build up suitable for various uses.

Recommended specification for Addastone over asphalt:

Surface Course
Hand applied by Addagrip approved installers. Addastone PLUS Resin Bonded typical depth 5-7mm using 1-3mm aggregate.

Binder Course
Laid by others in well compacted layers to a minimum fall of 1:40 to 1:60. Vacuum Assisted Captive Shot Blasting to remove dirt and residue from the surface to ensure a good key. Appropriate depth of AC6 Dense Surf 100/150 or AC10 Dense Surf 100/150 (+/- 6mm) - see table.

Base Course
Laid by others. Appropriate depth of asphalt base - see table.

Sub-base
Laid by others. As per the table below, or as specified for the site conditions by a qualified engineer.

Soil
CBR>5% required. If below, capping layers are required to strengthen soil.

System	Pedestrian	Light Vehicle (<6T)	Heavy Vehicle (>6T)
Surface Course	5-7mm Addastone Plus	5-7mm Addastone Plus	5-7mm Addastone Plus
Binder Course	Minimum 25mm	Minimum 30mm	Minimum 40mm
Base Course	50-60mm AC20 Dense Bin 100/150	60-70mm AC20 Dense Bin 100/150	100-200mm AC32 Dense base/Bin 100/150
Sub-base	100-150mm MOT	100-150mm MOT	100-150mm MOT
Soil	CBR > 5%	CBR > 5%	CBR > 5%

Note:

1. **Existing Binder Course**
   - 1.1. Existing asphalt must be sound and suitable for the anticipated use.
   - 1.2. Cracks should be broken out where necessary and filled using an appropriate polymer or cement-based crack repair material.
   - 1.3. The base must be level, with a maximum tolerance of 3mm under a 1m straight edge.
2. **Drainage & Falls**
   - 2.1. 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).
   - 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

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