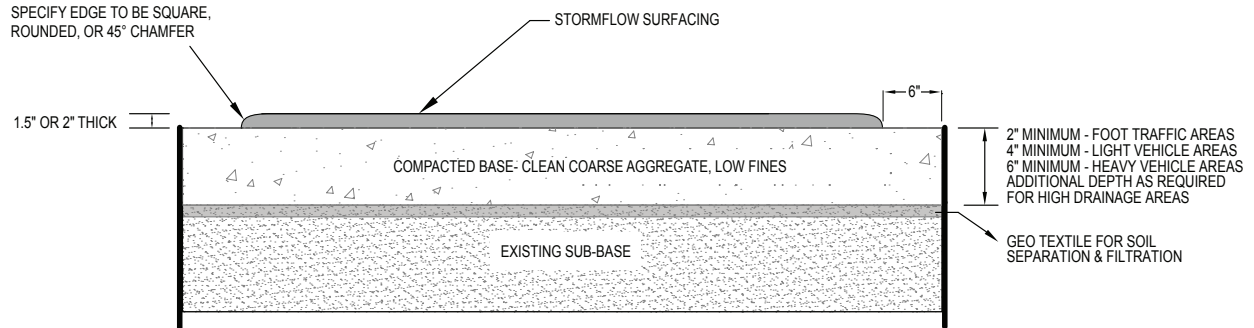


Aggregate Base Preparation



The base preparation under Stormflow Surfacing is very important. The porosity and effectiveness of Stormflow Surfacing to allow storm water to infiltrate into the ground is based on the porosity of the base and the substrate below the base. Areas of heavy soil will require thicker base to increase the holding capacity of water or may require installation of drain tile to carry excess water away.

Base Material

A graded aggregate material, low in fines, angular in shape, ranging in size from $\frac{3}{8}$ " to $\frac{3}{4}$ " is required under Stormflow Surfacing material. Graded aggregate material of uniform quality throughout shall be substantially free from vegetable matter, shale, lumps and clay balls, etc. Base material cannot be of round nature as this will not lock together when compacted and will not provide adequate support under the installation. Base should be of a granite material, not limestone or other softer materials.



Aggregate Base Preparation - continued

Base Thickness

For structural support the base must be a minimum of:

2" thick in non load bearing applications such as patios, walkways and other non vehicular areas

4" thick in driveways, parking areas and other applications with passenger vehicle type loads

6" thick in applications with heavy loads such as truck docks, delivery alleys, etc.

Base may be required to be much thicker in applications where high water holding capacity is needed. Crushed rock, as specified above, has approximately 18% void space. One square foot of base, 4" thick will hold approximately 100 cubic inches of water. Consult a qualified engineering service to determine base thickness needed in areas of high water infiltration.

Installation of Base

Base material should be installed using equipment capable of spreading the material in an even fashion. Areas of base where sand or silt become mixed together with the base during installation should be removed and redone to ensure adequate compaction and support.

Compacting Base

Finished base must be compacted uniformly to a density of not less than 95% of the maximum density as determined by AASHTO T-180, Method D. Ensure that base is installed and compacted a minimum of 6" beyond the proposed area of Stormflow Surfacing installation. If the base material does not have the proper moisture content to ensure the required density, wet or dry the base as necessary to achieve 95% compaction uniformly throughout the entire area.

