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Specification of Gabion Fill

The stability of a gabion wall is provided by the mass of the gabion structure. The fill material must be specified and it must have suitable compressive strength and durability to resist the loading, as well as the effects of water and weathering.

Different types of fill have different densities

Typical gabion bulk density values used in design are as follows :-

Flint rejects and whole stone 14.5kN/m³

Crushed concrete 15kN/m³

Sandstone 15.5kN/m³

Limestone 16kN/m³

Granite 17kN/m³

Basalt 18 kN/m³

Aggregate fill 16kN/m³ (Geotextile lined units)

The gabion fill must be greater in size than the mesh aperture so that the entire fill is retained by the mesh. Gabion fill must not be too large to avoid creating voids.

Gabion infill stone shall be hard durable and frost resistant. The grading of the stone must be 150mm nominal size but not less than 100mm and not greater than 200mm.

The grading can be reduced to 80-150mm.

The selection of type of stone fill should be made on the visual appearance required and the availability of stone / rockfill locally.