Intermesh

Specification for Gabion In-fill Material

PREAMBLE

The critical factors for stone fill are:

1. Particle Size.

and

2. Hardness and durability.

In order to achieve dense compartments the percentage of voids should be minimised by using a graded stone, however, the minimum size should be 75mm in order to ensure that the stone is retained by the mesh and particles larger than 200mm are not practical.

For gabions and 300mm deep mattresses with a nominal mesh size 80mm, an ideal stone size is 100mm to 150mm. On non-marine structures a tolerance of 5% by weight of smaller stone is acceptable.

For 170mm and 230mm deep mattresses with a nominal 60mm mesh size a typical grading would be 75mm to 100mm. The maximum size should never be greater than two thirds (67%) of the mattress depth.

Dense materials provide greater mass and are likely more durable. Frost susceptible and argillaceous materials should be avoided.

Crushed stone of an angular mature is preferable. Rounded marine sources materials should be crushed before use in order to provide the necessary friction across the gabion cage.

The Highways Agency Specification for Highway Works, specifies gabion fill as a Class 6G material complying with Table 6/1 with the size in steps of 25mm being stated in the standard item description. For full details see:

http://www.standardsforhighways.co.uk/mchw/vol1/pdfs/series_0600.pdf