





- Unfold the gabion basket and remove all kinks. When lacing closed make sure that all of the gabions are level along the top. Ensure that diaphragms (compartment partitions) are lifted up vertically and are at a 90-degree angle to the structure and not leaning at an angle. Wire closed, using the selvedge bits first and then lace the edges using the double and single loop method, starting from the top of the basket and finishing at the bottom with a double loop. (Alternating every 100mm with the 2.2mm class A galvanised binding wire already supplied).
- Stretch the basket horizontally using fencing standards and labour on either end of the basket.
- Make up enough baskets to complete the length and width of the bottom layer of the structure and lace together using the double and single loop method along all adjoining edges.
- Make sure the ground upon which the structure is to be installed on is level. It must rather lean slightly to the rear (maximum 8 degrees) and not lean forward. Now place the geotextile in position.
- Place baskets into position. Fill one of the compartments at either end with rock, making sure to brace at 1/3rd and 2/3rd height with 1m high gabions, if 0,5m high only brace ½ height, in order to stop the structure from bulging. (Bracing is only necessary for baskets and not mattresses.)
- Once this compartment has been filled, stretch the completed structure again using poles and manual labour from the other end of the filled structure, or else by using a Tirfor or any other method that will ensure that the structure is pulled into a tight, straight line. This process is very important to ensure a sound and neat appearance.
- Place a wooden or steel frame in position along the front of the structure. This will ensure that the front of the structure remains nice and neat during the rock packing.
- Now start filling the structure with rock (of suitable size and specification). Start from the already filled compartment and fill the entire length and breadth of the structure to 1/3rd full. Make sure that the face visible to the eye is packed very neatly in order to provide a superior finish to the structure.
- Install binding wire (bracing) along the length of the structure (at 1/3rd height of structure. i.e. the top of the partially filled structure). Also make sure that the compartments are crossbraced at the opposite ends of the structure.
- Fill the structure to 2/3rd full and repeat bracing as in step 9.
- Pack the remaining structure to a height of about 40mm overfull and lace down using wrecking bars to pull the lids into position and the same double and single looping method is used to lace baskets and structure together. Ensure that they bulge up slightly between diaphragms (especially for mattresses), to ensure tight packing and prevent movement of rock with high water velocities. The lids must be laced down along all edges as well as across the top of diaphragms / compartments in order to form a solid structure. Note: - Do not allow the use of small rock and dust in the top level of the gabions to provide a level finish as this could easily be washed out by high water velocities and cause a void in the gabion, always use rock of the correct size.
- Place empty gabions on top (if applicable) of newly completed ones, and lace down along all edges to the structure below. The procedure is then repeated as indicated in steps 5 to 11.