HY-TEN
GABION SOLUTIONS

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CASE HISTORY :- HARLOW WATER GARDENS

DEVELOPER	WILSON BOWDEN
GABION CONTRACTOR	SMALLWOOD CONSTRUCTION
CONSTRUCTION	SEPTEMBER 2002
GABION WALL DESIGN	HY-TEN GABION SOLUTIONS

The gabion wall to the new Asda Store car park, comprises of 2200cum of gabions and varies in height from 3m to 7m.

The upper 3 courses were machined filled with 200mm to 300mm graded limestone whilst the lower courses were hand faced off with a 100mm to 200mm stone. This was required by the architect to give a variation in textures to the wall and also the tightly packed stone on the face in the lower courses would prevent climbing of the wall.

In the lower courses the gabions were manufactured with 3 cells across the unit width :-

The facing cell 500mm wide filled with 100mm to 200mm of limestone.

The inner cell varied in width from 0.7m to 2.25m and was site lined with a geotextile separating membrane to the inner vertical longitudinal panels which were filled with a site won compactable hoggin fill.

The rear cell 0.5m wide was filled with crushed concrete that provided a free drainage medium to the rear of the wall with a collector land drain at the base.

This form of construction saved £50,000 over the cost of a fully rock filled structure.

The gabions supplied for this project were HY-TEN'S 700 system. With this system the units are 700mm in depth, 2m in length and of a width to suit the required course. Each 2m length is sub-divided into three equal cell length of 700mm, thereby giving a maximum area of 0.5 sqm efface area to each cell compared to I sqm of a standard gabion.

This reduction in face area reduces the possible deformation to 25% of a 1m deep unit. To reduce possible deformation further the mesh to the face and rear panels is of a heavier 4.0mm wire with the body of the unit in 3.0mm wire.

If you would like Hy-Ten to design and supply gabions and land reinforcement products for you, please contact us on 01902 712200.

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