

CASE HISTORY :-TOWER GATEWAY STATION DOCKLANDS LIGHT RAILWAY

ARCHITECT BERE ARCHITECTS
MAIN CONTRACTOR DURKAN
SUB CONTRACTOR SMALLWOOD CONSTRUCTION
CONSTRUCTION SPRING 2004

GABION WALL DESIGN HY-TEN GABION SOLUTIONS



THE USE OF GABION STRUCTURES TO IMPROVE THE URBAN ENVIRONMENT IN INNER CITY AREAS.

The complex gabion structure was constructed using the gabion 700 system. The form of the structure was two free standing independent walls, the rear wall was vertical on the face and the front wall had an inclined face of 9 in 1 up to 2metres in height and then battered at a steeper angle. The walls were constructed either side of a new access stairway to the station platforms.

The lower 2metres of the front wall was faced in triple life 3inch x 0.5 inch x 4mm wire diameter mesh to prevent climbing with the battered face in triple life 3inch x 3inch x 4mm wire to facilitate the transition from near vertical to the required batter. All internal mesh was triple life 3inch x 3inch x 3mm

For the rear face of the front wall and the face of the rear wall a 3inch x 3inch x 5mm for achieving a good face on a vertical wall as well as to prevent possible vandal damage.



Construction of the rear wall, a fire access had to be incorporated in the stucture, this was achieved by spanning the opening with lintels supported on mass concrete filled cells within the gabion structure.

Either side of the stairway is a stainless steel mesh which left a gap of approx 150mm between the stairs and the gabion structure which was infilled with 3inch x 0.5 inch mesh.

Helicals were used for the assembly of the gabions so as to provide the strongest consistent joint and also to encompass the cut ends of the wire mesh for health and safety reasons.



Hy-Ten Gabion Solutions also provides design services and technical support, for further information please contact :

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