

3. SPECIFICATIONS

The wall stem should be constructed from hollow concrete blocks filled with poured concrete to strength C35.

Please refer to APPENDIX A for retaining wall dimensions.

The concrete base should be constructed from C35 Strength Concrete.

2 layers of A252 Mesh should be placed at the top of the foundation slab with 50mm of concrete cover.

2 layers of A252 Mesh should be placed at the bottom of the foundation slab with 50mm of concrete cover.

T16 bars should be placed vertically and spaced at 200mm centres in the wall stem and foundation upstand.

Coarse gravel should be used at backfill to the wall.

The back face, i.e. the retained ground facing side should be lined with a waterproof damp proof course. The damp proof course should not cover the drainage pipes.

A filter membrane should be placed above and behind the backfill material in order to prevent silt and fine aggregate from permeating into the fill that could prevent proper drainage of the retained ground.

50mm diameter plastic pipes should be placed at the bottom of the walls's stem from front face to back, at approximately 1.5m spacing along the length of the walls to provide drainage. Rodent screens can be put on the front face of each pipe.

A 150mm diameter perforated drain should also be placed behind the wall, near the stem bottom.

Expansion joints should be spaced at 6m intervals along the length of the walls and 3m from any corners. The joints should be filled with expansion joint filler and poly-sealant should be used on the exposed face of the expansion joint. The wall sections on either side of the expansion joint should be tied using slip ties at each block layer.

It is advised that coping be placed on top of the walls to prevent the ingress of rainwater. A high bonding layer of damp proof course should be placed between the coping and the wall stem material.