

HOUSING DEVELOPMENT COPPENHALL, STAFFORDSHIRE

RETAINING STRUCTURES

Product: MacWall

Problem

Maccaferri were approached by Redfern Developments to offer an engineered retaining wall solution to provide vehicular access over rising ground on a development of 11 new homes.

In addition, the ability to gently curve the structure to enhance the aesthetics would be an advantage.

Solution

The chosen solution was MacWall, a segmental engineered retaining wall system. The system comprises a “split face” concrete fascia block with Paragrid 80/15s geogrids and compacted backfill to form a reinforced soil block.

A key consideration for the new homes was to create an elegant curved driveway to the homes.

Constructed on a steep slope, the development comprised eight converted barns leading up to three new town houses built on the site of an old farm house.

MacWall blocks were finished in a mellow red colour which complemented the old stock bricks used elsewhere on the development, and the gravel driveway.

In addition to providing the design and supply of materials, Maccaferri also provided advice and support during construction of the wall, which was undertaken by Redfern Developments’ site workers.

Due to its dry build, “mortarless” construction, and a locator lug and cam on each block, the system is very easy and quick to install; an experienced contractor is not necessarily required



Post construction



Post construction



Post construction

Client name:

REDFERN DEVELOPMENTS LTD

Main contractor name:

REDFERN DEVELOPMENTS LTD

Designer:

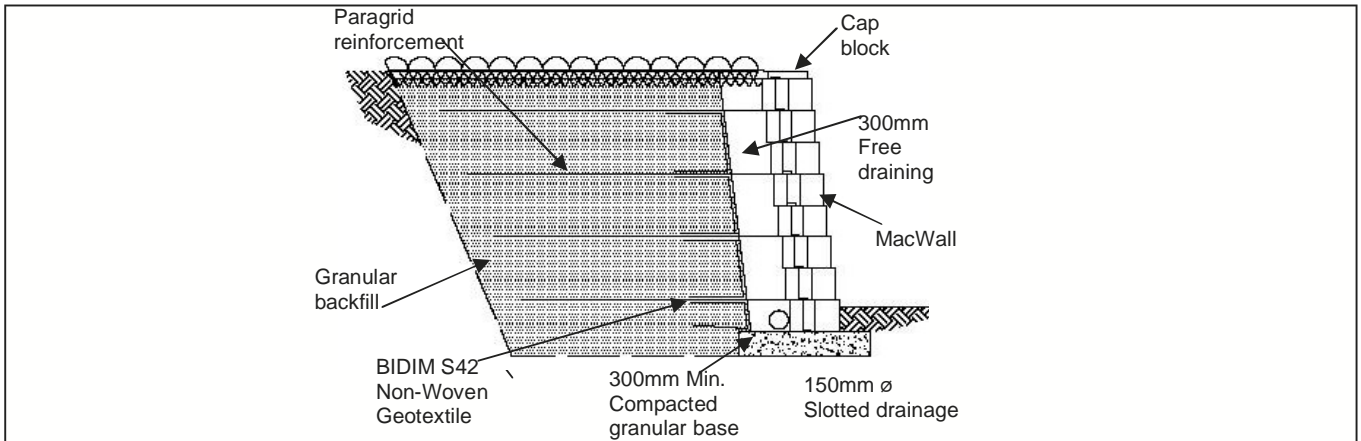
MACCAFERRI LTD

Product used:

MACWALL “VERTICA”, PARAGRID

Construction date:

SEPTEMBER 2004



Typical section

The near vertical 7° face provided by the system maximises land gain behind, and minimises land loss in front of the wall. Additionally, the high quality “split face” concrete block finish can be supplied in a range of colours. As a final detail, a capping block is secured to the top course of blocks with an epoxy adhesive.



Post construction



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