

TESCO STORE HASLINGDEN, LANCASHIRE

RETAINING STRUCTURES

Product: MacWall

Problem

Pinnacle Consulting Engineers Ltd approached Maccaferri for assistance in the design and supply of materials for a retaining structure within a 'split level' car-park for a supermarket.

The 130m long wall would retain the upper car parking area and support a vehicle ramp between two parking areas.

The structure had to be rapid to build and complement the aesthetics of the adjacent supermarket building.

Solution

The chosen solution was MacWall; a segmental engineered retaining wall system. The system comprises a "split face" concrete fascia blockwork wall in conjunction with Paragrid™ geogrids. The geogrids reinforce the granular backfill to form a reinforced soil block capable of retaining the ground behind it.

The 3m high wall at Haslingden, required multiple layers of Paragrid™ 80/15S polyester geogrids to provide adequate soil reinforcement.

MacWall blocks were supplied in a Sandstone colour, matching the masonry walls used elsewhere on the site. 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. William Ogilvie of Rawenstall, installed the walls under sub-contract to earthworks contractor, Allan Plant & Civil Engineering Ltd.

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



Post construction



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Client name:

TESCO LTD

Main contractor name:

DUDLEY CONSTRUCTION LTD

Designer:

PINNACLE CONSULTING ENGINEERS LTD

Earthworks Subcontractor

DUDLEY CONSTRUCTION LTD

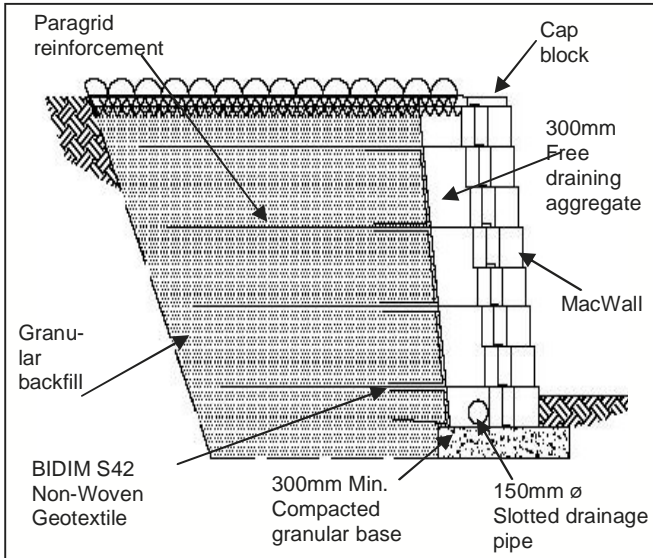
Product used:

MACWALL "VERTICA", PARAGRID

Construction date:

SPRING 2005

MACCAFERRI



Typical section

colours. As a final detail, a capping block is secured to the top course of blocks with an epoxy adhesive.

Maccaferri also assisted main contractor Dudley Construction and designer, Pinnacle, with the design of vehicle crash barriers for the upper level, ensuring that the MacWall offered a suitable foundation for the barrier.



Post construction



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Maccaferri Ltd - Head Office
 7600 The Quorum,
 Oxford Business Park, North,
 Garsington Road, Oxford, OX4 2JZ
 Tel: 01865 770555
 Fax: 01865 774550
 Email: oxford@maccaferri.co.uk
 Web: www.maccaferri.co.uk

Area offices
Perth:
 T: 01738 621317 F: 01738 442283 E: perth@maccaferri.co.uk
Belfast:
 T: 028 9026 2830 F: 028 9026 2849 E: belfast@maccaferri.co.uk
Dublin:
 T: 01 885 1662 F: 01 885 1601 E: dublin@maccaferri.ie
 Web: www.maccaferri.ie



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