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# **BONHILL, STIRLING ROAD**WEST DUNBARTONSHIRE, SCOTLAND, UNITED KINGDOM

### Mass Gravity Retaining Walls

#### **Problem**

Housing developer Barratt Homes started a project in Bonhill in West Dunbartonshire, Scotland. The site had a series of areas with uneven ground that needed retaining and stabilising in order to build new homes successfully and the use of retaining walls to terrace the different areas.

#### Solution

Maccaferri was approached by Barratt Homes to come up with a suitable solution for the posed site problems. It was agreed that there needed to be a series of retaining walls.

One large wall and two smaller mass gravity walls would terrace the area around the houses.

Wall one would see a Terramesh® System which was 250m in length with a face area of 1082m2. Maccaferri's Terramesh® System is a modular system used to create a rock-faced reinforced soil wall, it is globally used successfully. We use our primary geogrids for reinforcement within the structure at different levels, ParaGrid is laid in between layers providing high-strength reinforcement. Which can support extreme loads. The units are double twisted wire mesh which is formed into a cage and then filled— normally with locally sourced rocks. The backfill for this structure was site won fill.

The two lower-height gabion walls were a total length of 144m with a volume of 430 m3.

Our systems are simple and rapid to install, we offer clientspecific solutions. We are unlike 'mono-product' companies in the fact that we offer plenty of types, we offer a solution which is optimised to your needs. Client: Advance Construction

Designer / Consultant: Maccaferri Ltd

**Contractor:** Barratt Homes **Products used (Qtv.)** 

Gabions 600m2
Terramesh N/A
Date of construction: 05/2017 - 09/2017

Google Maps Google Earth



Retaining wall around the housing development

## **MACCAFERRI**





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