



CASE STUDY

Reinforced Soil Retaining Wall Design

Carrfield Mill, Hyde

THE PROJECT

An Eccleston Homes housing development on the remediated site of an old mill in Hyde.

THE PROBLEM

Dealing with poor ground to provide an efficient, practical, aesthetic and economic retaining wall solution to enable the creation of development plateaus on the sloping site.

REMEDY'S SOLUTION

An integrated retaining wall design package encompassing the requirements of the developer, remediation contractor and retaining wall contractor.

When contractor Barton Civil Engineers realised they needed to design and construct a series of retaining walls for a new residential development at Carrfield Mill in Hyde, Greater Manchester, they knew they wanted something aesthetically pleasing, efficient but sufficiently robust. Recognising the expertise of Remedy Geotechnics in the design of block faced reinforced structures, they engaged them to design approximately 100m length of retaining wall.

The site, the former home of Christy Towels, world-renowned manufacturers of the first industrially produced looped cotton towel, presented a number of engineering challenges in the form of soft and variable made ground beneath the line of the retaining wall. By working closely with the developer, Eccleston Homes, remediation contractor Urban Regen and Barton Civil Engineers, Remedy was able to embrace the site challenges in providing an integrated design solution. Remedy's approach was

to have the poor ground excavated and replaced by engineered fill followed by immediate verification testing so that Barton could quickly and efficiently verify that the foundation design requirements had been met.

Remedy provided the full design package along with clearly laid out construction drawings and an earthworks specification allowing for the use of recycled aggregates reclaimed from the demolition of the mill. The Allan Block reinforced soil walls were designed using Remedy's in-house developed software in accordance with BS 8006-1.

Barton Civil Engineers were pleased with the end product commenting that *'...the walls look really well. Thanks for your help on this project'* - Chis Sims.

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