Plate Load Test on the mechanically stabilised layer incorporating Tensar InterAx geogrid (right)

Working Platforms
№ 473

Charlemont Square Development

Dublin, Ireland

CONSTRUCTED IN 2023

Benefits

A 50% thickness reduction
in the working platform, saving €5,000 in material costs

60 fewer truck deliveries
into a busy city centre location

A estimated 40% CO_2 reduction
due to reduced aggregate volumes

Consultant's use of Tensar+™ for piling platform keeps cost down

A piling platform was needed for this mixed-use 7-storey block, part of Charlemont Square, a high-end development in a prestigious central quarter of Dublin. The designer used Tensar+™ software and a mechanically stabilised layer solution, to drastically reduce the working platform thickness, thereby saving cost and reducing truck deliveries in a busy area.

CLIENT'S CHALLENGE

The ground conditions were challenging with variable loose made ground over soft clay. The initial piling platform design required a thick layer of aggregate. The designer, CP Consulting needed to reduce the cost and disruption from importing this material.

TENSAR SOLUTION

CS Consulting were able to use Tensar+™ software to design the working platform. Their design for a mechanically stabilised layer incorporating Tensar InterAx geogrid was 50% thinner than the non-stabilised alternative. Tensar InterAx, Tensar's next generation geogrid, offered the greatest saving in thickness.

