

Shawfield Walkway Embankment

Glasgow, Scotland



TYPE OF PROJECT
**Reinforced Soil Walls And
Slope Reinforcement**

YEAR OF CONSTRUCTION
2024

CLIENT
Clyde Gateway

CONTRACTOR
Cab Group Ireland

DESIGNER
LUC

PROD. RELATED

Challenge

As part of the ongoing regeneration initiatives under the Shawfield Masterplan, Clyde Gateway commissioned essential remedial works to address structural instability along a section of the River Clyde's southern bank. These works included riverbank reinforcement and associated landscaping improvements, aimed at enhancing both the environmental integrity and long-term resilience of the area. The site in question is strategically located between Rutherglen Bridge and the Dalmarnock Smart Bridge, forming a key interface within the broader redevelopment zone. Clyde Gateway refers to a comprehensive regeneration programme targeting a significant expanse of urban land encompassing over 840 hectares. This includes major parts of Glasgow's East End, such as Bridgeton, Dalmarnock, and Parkhead, as well as Rutherglen and Shawfield within South Lanarkshire. Recognised as Scotland's foremost regeneration priority in the National Planning Framework, the Clyde Gateway initiative seeks to deliver transformational social and environmental renewal, positioning the region as a vibrant, sustainable urban district for future generations.

Solution

A reinforced earth embankment structure was constructed, incorporating a total of 255 Terramesh units and 114 Green Terramesh units. The system is further stabilised using highstrength ParaGrid soil reinforcement and a MacTex geotextile separator layer to ensure structural integrity and durability. This engineered solution has been specifically designed to provide long-term flood resilience, offering protection against extreme hydrological events, including a 1 in 100-year flood scenario associated with potential River Clyde water level surges.



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