



LECA® LWA PROVIDES DRAINAGE SOLUTION FOR A STEEP EMBANKMENT



Leca recently collaborated with WSP and Alun Griffiths Contractors to pneumatically deliver Leca® LWA as a drainage solution for a remedial work on a steep embankment in Newport, Wales. This unusual project assembled by the Government in South Wales required a lightweight drainage solution to be delivered to a

difficult to access area with heavy oncoming traffic area from the A4042. The average depths of lightweight fill required on site was around 2.3m.

The busy highway section of the A4042 meant there was no opportunity for the contractors to stockpile material, so the ability to pneumatically deliver Leca® LWA provided an effective solution, with a pneumatic delivery system which could reach up to 50m and be blown to a high tier of the hillside.

To compound this was the major concern of any potential damage to the delicate underground filter drainage system which was to be surrounded by the lightweight fill. There was concern that any alternative material installed at a 600mm thickness would impose excess weight on the delicate filter drain piping system – resulting in insufficient support around the pipe. Through specifying Leca® LWA, this issue was solved simply and effectively – thanks to Leca® LWA’s lightweight properties.

As it was identified early in the process that Leca® LWA as a material did not meet the MCDHW Specification for Highways work, a departure was required and this aligned with Leca’s own standard Departure document - this was checked and completed quickly and work could begin.

FACTS

Product: [LECA LWA \(10-20mm\)](#)

Interesting Fact: Ground remediation issues were faced and a lightweight and robust solution was required to provide a fill for a delicate embankment which faced serious groundwork issues.

Delivery Method: Delivered on walking floors, Leca® LWA was delivered directly to site, from our stock pile in Garston.

Main Contractor: Alun Griffiths Contractors