



A51 TARVIN TO CHESTER IMPROVEMENT SCHEME HIGHWAY WIDENING



2000m³ of LECA LWA was specified for the A51 Tarvin to Chester improvement scheme road widening project for a new highway development (500 m long x 7m wide x 3m deep). The project was developed by Highway England to create a series of major junctions and roundabout improvements, with the aim of

developing additional lanes at the Stamford Bridge traffic lights, widening the existing bridge over the River Gowy and capacity improvements at the Tarvin roundabout.

The social aims of the development were to create improved facilities for pedestrians, cyclists and public transport links in the form of new crossing points.

Furthermore, the project is expected to improve travel times and increase resilience and reliability of the highway network in the area. This project aims to also indirectly support the regeneration and inward investment of the neighbouring areas, such as Chester Northgate and Chester Business Quarter.

In terms of environmental factors, it is expected to improve air quality through better movement of traffic. This will benefit people's health and the environment, while reducing the number of accidents on this stretch of road.

During the design phase of this development the designers Mott Macdonald, required a suitable lightweight fill material to initiate the widening of the existing single carriageway embankment which was approximately 3m in height, and required a solution to reduce differential settlements between the existing and proposed new embankment.

FACTS

Amount of material: 2000m³ of [LECA® LWA \(10-20mm\)](#)

Interesting Fact: Mott Macdonald, required a suitable lightweight fill material to initiate the widening of the existing single carriageway embankment which was approximately 3m in height

Delivery Method: Walking Floor

Main Contractors: D Morgan PLC