



H23 STRAFORD BRIDGE DEVELOPMENT - LONDON RAIL LINE



The new H23 Stratford Bridge, which spans the main London rail line, provides access to an area of significant regeneration. The bridge construction utilised 13,000m³ of 10-20mm Leca® LWA to backfill against the high retaining wall abutments reducing the loading by 75% over traditional fill materials.

Leca® LWA is a lightweight expanded clay formed by heating and firing natural glacial clay. Its high volume by weight reduced the expected number of truck deliveries onto this busy and difficult to access construction site. Leca® LWA is also very easy to handle on site, allowing the simultaneous spreading and compaction of the Leca® LWA with the same tracked machine. Leca® LWA 10-20mm is a free draining, lightweight fill material which has an average density of 300kg/m³ which is just a seventh of the weight of sand, gravel or crushed rock. It also offers good resistance to moisture retention allowing installation during wet weather.

FACTS

Amount of material: 13000m³ of [LECA® LWA \(10-20mm\)](#)

Interesting Fact: The differing depths of the planters which at its deepest reached depths of 15 feet meant that the pneumatic delivery provided through the agile pneumatic delivery piping proved to be the most effective solution.

Delivery Method: Pneumatic Delivery