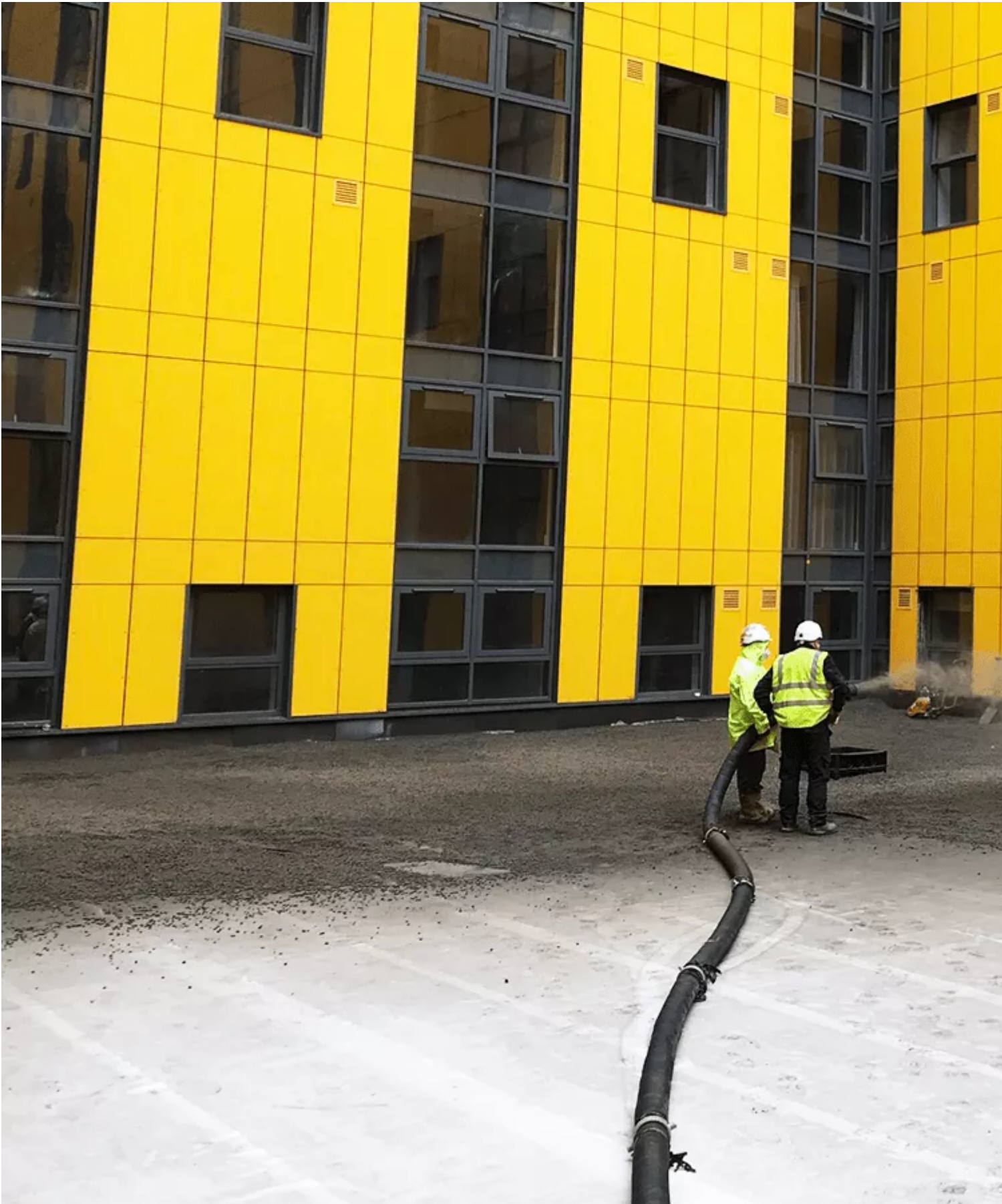




## NEW LIVERPOOL STANLEY DOCK TOBACCO WAREHOUSE APARTMENT COMMUNAL AREA



The Stanley Dock Tobacco Warehouse is a grade II listed building and is the world's largest brick warehouse. It is adjacent to the Stanley Dock, in Liverpool, England. Standing 125 feet high, the building was, at the

time of its construction in 1901, claimed to be the world's largest building in terms of floor space and the number of bricks used for the building.

The warehouse has been recently developed into luxury apartments. For the new development, a new shared communal area has been developed which will be a shared area for all the residents. This will incorporate new planters and create an attractive communal area.

For the groundwork development, polystyrene and crushed concrete (MOT/6f2) aggregate was originally proposed. But it was through the research into the groundwork properties of LECA LWA and the ability to be pneumatically delivered in a confined space that the specification changed to LECA's lightweight expanded clay aggregate.

## FACTS

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**Amount of material:** 250m<sup>3</sup> of [LECA® LWA \(10-20mm\)](#)

**Interesting Fact:** For the groundwork for the communal area, polystyrene and crushed concrete (MOT/6f2) aggregate was originally proposed.

**Delivery Method:** Pneumatic Delivery

### Restricted Access to Courtyard

The key factors for the use of the LECA LWA was the lightweight nature of the material which would impose minimal impact on the ground, provide natural compaction and could be delivered in a difficult to access courtyard, which could utilise the ability of LECA LWA to be pneumatically delivered. For the delivery for this project, the development fully utilised the 50m piping system over a 10m wall obstacle and delivered over 250m<sup>3</sup> of LECA LWA.

Over 250m<sup>3</sup> of Leca Lightweight Aggregate (10-20mm) was delivered through using 5 x deliveries onto a delicate and difficult to access residential area. This particular project would have required an additional eleven deliveries to carry the crushed concrete. Thus cutting back on Co2 emissions, cost and protecting the surrounding environment as a result.





Through using our pneumatic blowing delivery for this project, capable of carrying on average 55m<sup>3</sup> per load. The vehicle was able to blow distance of up to 50 metres – this allowed the Leca Lightweight Aggregate material to reach the central courtyard with ease - allowing greater flexibility and aiding environmental consideration to a variety of access and constructional challenges.