



OUTDOOR SWIMMING POOL INSTALLATION (SURREY)



Surrey Pools and Water required a safe, efficient solution to infill the deep end of an existing swimming pool, reducing the overall depth to a uniform level. Due to limited site access and handling restrictions, a lightweight, flowable material with distance placement capability was essential.

The original enquiry was made directly via the Leca® UK website, triggering a rapid response from the technical and logistics teams. A quote was provided the same day, with delivery scheduled and completed within a short window — showcasing Leca’s responsiveness and streamlined service.

Leca® LWA was selected for its proven performance as a lightweight, free-draining void fill. Its low density (<5kN/m³) ensures minimal load on surrounding structures — perfect for use in retrofitting and pool conversions where settlement or overloading is a concern.

FACTS

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

Interesting Fact: Infill of deep-end void to create uniform pool depth - delivered though a 40m pneumatic hose.

Delivery Method: Pneumatic Delivery

Main Contractor: Surrey Pools and Water

Pneumatic Delivery: Efficient, Precise, Minimal Disruption

To avoid the need for bagged material or on-site machinery, the team utilised Leca®’s pneumatic delivery system, blowing the aggregate 40 metres through a 5" hose directly into the pool shell.

Key Advantages:

- Direct placement into the void with no manual handling
- Fast installation — up to 1m³/min delivery rate
- Clean operation with minimal site disruption
- Adaptable reach for confined or restricted access areas

“What a brilliant team you have — this made the whole process so easy. Thank you and your team.”

— *Surrey Pools and Water (Nigel Beaven MISPE)*

Results

- Overcame access limitations without heavy lifting equipment
- Reduced labour and time on site

- Provided a lightweight, stable base for follow-on construction
- Demonstrated the speed and flexibility of Leca® LWA's delivery and service

Conclusion

This project highlights how Leca® LWA and pneumatic delivery offer a smart, sustainable solution for void fill applications in tight-access or sensitive environments. Whether used in large-scale infrastructure or bespoke architectural projects, Leca® delivers speed, precision, and structural performance — from enquiry to installation.