

MARINE AGGREGATES IN CONSTRUCTION

THE SHARD - LONDON



BACKGROUND

At 1,016 feet and the tallest building in Europe, the Shard provides 900,000 square feet comprising office space, hotel, residential apartments, restaurants and viewing galleries with unparalleled views of south east England.

Located in a busy part of London, the constrained site is in close proximity to London Bridge Station, a hospital, and a fully operational bus station.

CONSTRUCTION NOTES

Various mixes were supplied including high rise and high strength slipform to 259m. It was the largest single pour in the UK at 5,500 cubic metres with a specifically designed low heat concrete mix.

In total 50,000 cubic metres of concrete were used in the construction. For the lightweight flooring concrete, marine sand was used in conjunction with lightweight coarse aggregate.

CONSTRUCTION CATEGORY

Structural concrete, visual concrete, slip form

END USE CATEGORY

Built environment, leisure

CASE STUDY 8

This case study forms part of a library of case studies demonstrating the successful use of marine aggregates in construction