



LIGNACITE
Sustainable Masonry

“Architects, designers and contractors have been inspired to use Lignacite masonry products since 1947”.

History & Values

Lignacite is a family run business that has been around for over 65 years. The company is firmly founded on old fashioned values without being stuck in the past. It strives to combine a keen eye for design, a love of materials and a view to the future. With a desire to meet modern day requirements and to use natural, recycled and renewable products, Lignacite has become the market leader for innovation and sustainable masonry.

The business manufactures two main product types: Commodity blocks and Architectural Facing Masonry.

Our aim is to work alongside designers, engineers and contractors to produce world class buildings for future generations.

Our products have been used in a number of iconic buildings, such as The Gherkin, The Olympic Stadium, The Athletes Village, The Shard and both Heathrow and Stansted airports.



Working with nature to protect the environment

Sustainable development is a fundamental aspect of architectural and urban design. It is an imperative which is now high on the agenda due to national and international concerns surrounding climate change and the environment.

Working closely with you, we can help to maximise the sustainability criteria of any building project; both in terms of its energy efficiency and carbon footprint.

Benefits of timber

Since the company was founded we have always sought to use recycled materials in our products.

- Lignacite, our original block, contains 50% recycled material including Graded Wood Particles, a selected waste wood product from the British timber industry
- Our Lignacite blocks achieve an A+ rating in the BREEAM guide
- 1m² of 100mm Lignacite blockwork locks up 12.3kg of CO₂
- The timber content regulates the air by absorbing excess moisture when it is damp and releasing it when conditions are dry. This is significant given the increasing emphasis on healthy living environments
- Recent German research has shown that bird boxes made out of a combination of concrete and wood enable Blue Tits to fledge more young
- Lignacite achieves a better fire rating than conventional concrete blocks which shatter in a fire. The wood content in Lignacite calcifies, so the wall remains intact
- Our Waste Not Warrior (Ashlite) contains more than 90% recycled material including ash, glass, wood and GGBS (Ground Granulated Blast-furnace Slag), a replacement for OPC



- Warm
- Light
- Smooth
- Good in a fire
- Locks up CO₂
- Renewable

Landmark Buildings



30 St Mary Axe.
Architect: Foster & Partners

High strength
Lignacite was used
to build the central
core of The Gherkin.

The Shard
Architect: Renzo Piano

The Shard sits on
4 floors of Lignacite
blocks that were used
under the ground to
provide a firm
foundation for Europe's
tallest building.

*"The advances that Lignacite
are making with their sustainable
masonry products will go a long
way towards helping designers
and the construction industry
improve their sustainability
targets and achieve zero
carbon buildings".
Ken Shuttleworth*



London Olympic Projects



The Velodrome, Architect: Hopkins Architects

Over 2 million blocks were supplied to 6 Olympic projects including:

- The Stadium
- The Velodrome
- The Handball Arena
- The Orbit Tower
- The Olympic Village
- The Westfield Shopping Centre

Over 24,000 tonnes of CO₂ have been captured and permanently 'locked up' in Stratford.

Crossrail



Crossrail is among the most significant infrastructure projects ever undertaken in the UK. Building the new railway involves 8 new stations in central London and Docklands.

Lignacite's full range of sustainable masonry has been specified on multiple sites.





Excavation area, now being returned to a natural habitat of reed swamp, ideal for otters and marshland birds.

The Quarry

Our state of the art plant in Brandon uses water from our own bore hole which is then recycled.

Our adjoining quarry provides much of the aggregate we use in our blocks and this has saved an estimated 36,000 HGV movements over 8 years.



Local raw materials



The original 1950's factory converted from the old railway engine shed, now replaced by our modern facility.

State of the Art

Our Brandon kiln is highly insulated enabling our blocks to cure naturally with no additional heat or energy.

Our blocks have half the embodied energy of brick.



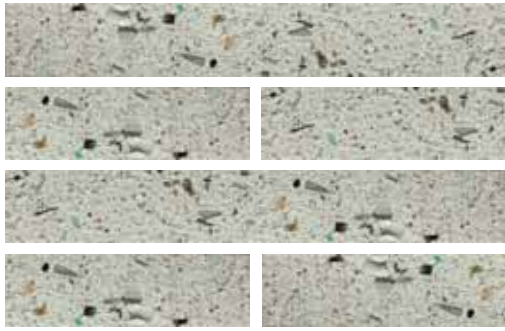
Cured blocks are de-palletised and cubed prior to despatch.

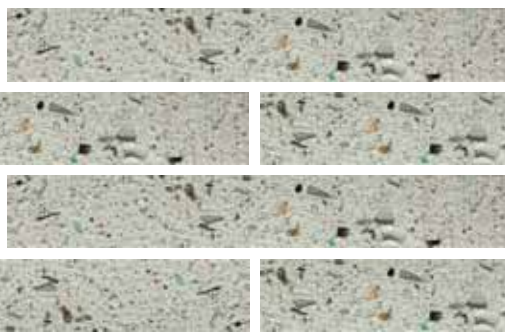
Diamond headed masonry saw slicing through Roof Block

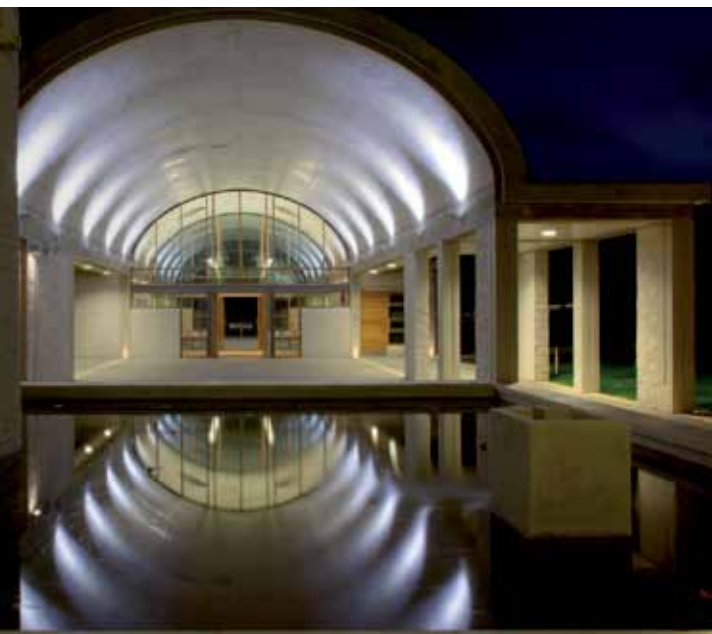


Polished masonry being hand finished.











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