

Case Study

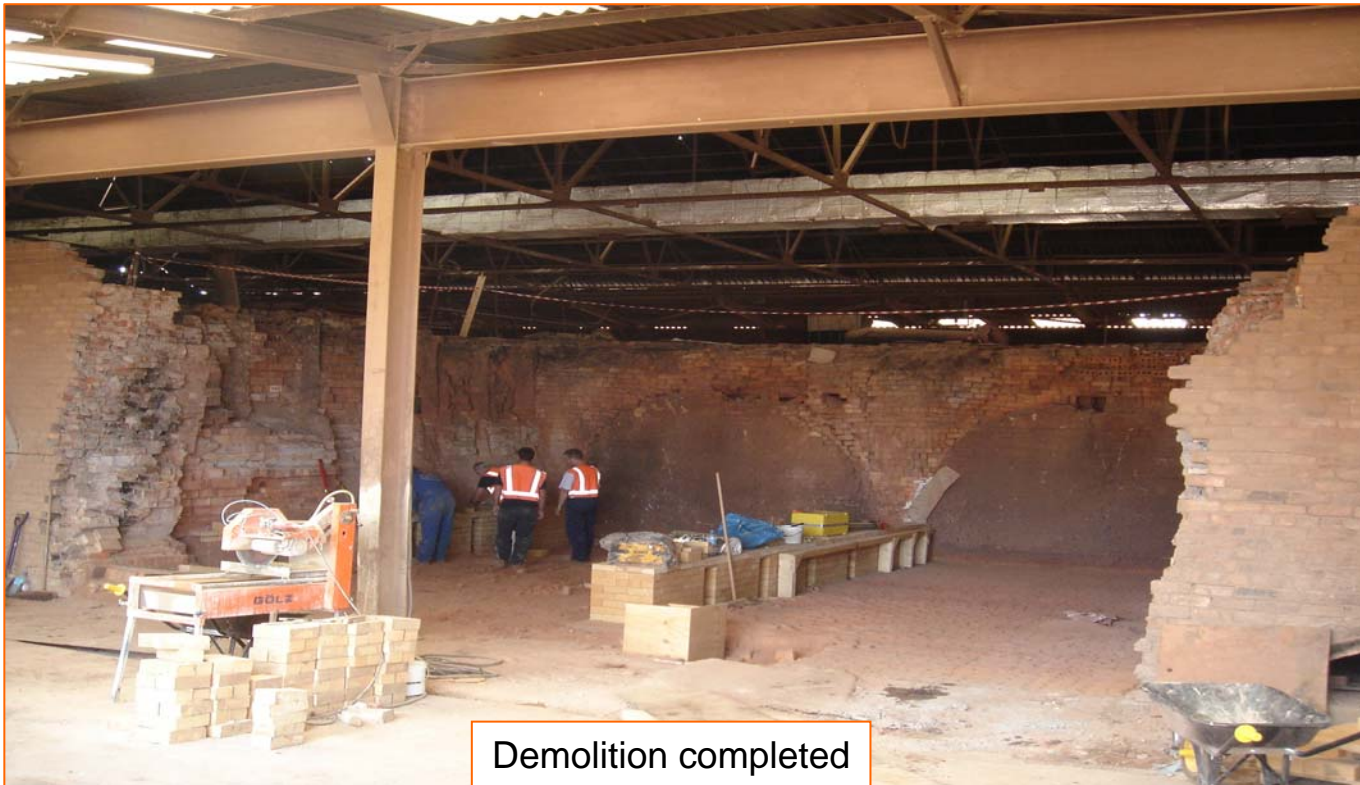
WALKERS RISE — HEDNESFORD
STAFFORDSHIRE • WS12 5QU
TEL: 01543 877977
FAX: 01543 877911
E: INFO@LLOYD-RIS.CO.UK



SPECIALISTS IN REFRACTORY BRICKWORK

Industry: Traditional Chamber/ Hoffman Kiln
Location: UK
Operating Temperature: 1200°C
Scope of Works: Complete thermal redesign & rebuild of two chambers

This contract was undertaken for Swarland Brick, Northumberland, the contract Completed in a 4 week timescale, two weeks ahead of the forecasted 6 weeks. Due to the volume of materials to be removed 5MT diggers were used to remove The redundant refractory. Due to the condition of the remaining chambers, great Care was needed during the demolition. Adjacent chambers were supported by Means of acro props, some 650 props were used for this.



The kiln chambers were very inefficient during the firing process, so whilst the kiln was down, we took advantage of this and increased it's thermal efficiency some Four fold, by utilising new up to date refractory materials. Hotface linings were increased from 230mm firebrick to 344mm thick, insulation Materials used were insulation castables and ceramic fibres rather than 1MT lumps Of terracotta clay from the local clay pit.

QUALITY REFRACTORY LININGS

Case Study

WALKERS RISE — HEDNESFORD
STAFFORDSHIRE • WS12 5QU
TEL: 01543 877977
FAX: 01543 877911
E: INFO@LLOYD-RIS.CO.UK



SPECIALISTS IN REFRACTORY BRICKWORK

Industry: Traditional Chamber/ Hoffman Kiln
Location: UK
Operating Temperature: 1200°C
Scope of Works: Complete thermal redesign & rebuild of two chambers



Dwarf/ Springer wall construction



Main arch construction

QUALITY REFRACTORY LININGS

Case Study

WALKERS RISE — HEDNESFORD
STAFFORDSHIRE • WS12 5QU
TEL: 01543 877977
FAX: 01543 877911
E: INFO@LLOYD-RIS.CO.UK



SPECIALISTS IN REFRACTORY BRICKWORK

Industry: Traditional Chamber/ Hoffman Kiln
Location: UK
Operating Temperature: 1200°C
Scope of Works: Complete thermal redesign & rebuild of two chambers



Wicket wall construction



Wicket wall/ arch construction

QUALITY REFRACTORY LININGS

Case Study

WALKERS RISE — HEDNESFORD
STAFFORDSHIRE • WS12 5QU
TEL: 01543 877977
FAX: 01543 877911
E: INFO@LLOYD-RIS.CO.UK



SPECIALISTS IN REFRACTORY BRICKWORK

Industry: Traditional Chamber/ Hoffman Kiln
Location: UK
Operating Temperature: 1200°C
Scope of Works: Complete thermal redesign & rebuild of two chambers



Just Complete – 110,000 bricks later

Kiln Type – Brick Kiln

Combustion System – Gas, Coal & Wood

Customer/ Area – Swarland Brick, Northumberland

Contract Duration – 4 weeks

Material Quantities – 40,000pcs Firebrick shapes

- 70,000pcs common brick

- 40,000kg 1400c rated Castable

QUALITY REFRACTORY LININGS