

CASE STUDY /

Alexandra Palace House



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The project involves the conversion of two flats into a single, family home in North London. The ambition was to create a sustainable residence with real architectural merit. The existing end-of-terrace house is built from traditional load-bearing masonry with timber-joisted floors.

The proposals consolidate the building into one dwelling and add a single-storey rear extension. Sustainability and structural expression are central, reusing much of the existing building fabric alongside an exposed block structure supporting a low carbon LVL timber roof.

The scheme also incorporates 0.7 tonnes of reclaimed steel for a box frame enabling an opening in a load-bearing wall and a column in the ground floor extension.

TEAM

Client: Private

Structural engineer: Heyne Tillett Steel

Architect: Andy Matthews Studio

MEP engineer: C020 Consulting

Main contractor: Gesti Builders

Steelwork fabricator and supplier:
Cleveland Steel and Tubes



REUSE FACTS

0.7 tonnes of reclaimed steel sourcing through Cleveland Steel and Tubes.

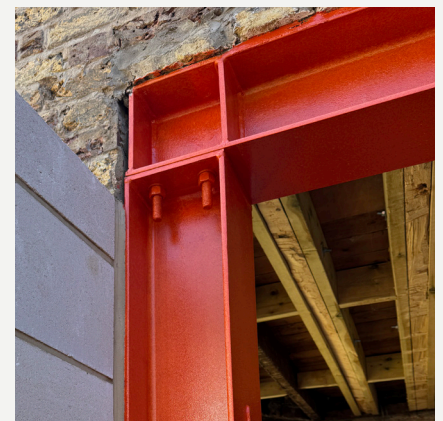
Cleveland Steel and Tubes undertook all testing, following the guidance set out in SCI P427.

Decision taken very early in the project to use reclaimed steel as a part of the low carbon design strategy.



SUCCESS FACTORS

The ease of sourcing reclaimed steel was a key success factor. A simple email to Cleveland initiated the process, and they carried out all minor fabrication to produce the required elements.



CHALLENGES

The steel came partially primed, requiring additional site-applied primer. Given the exposed nature of the design, this provided an opportunity to apply a primer compatible with the selected intumescent paint.

