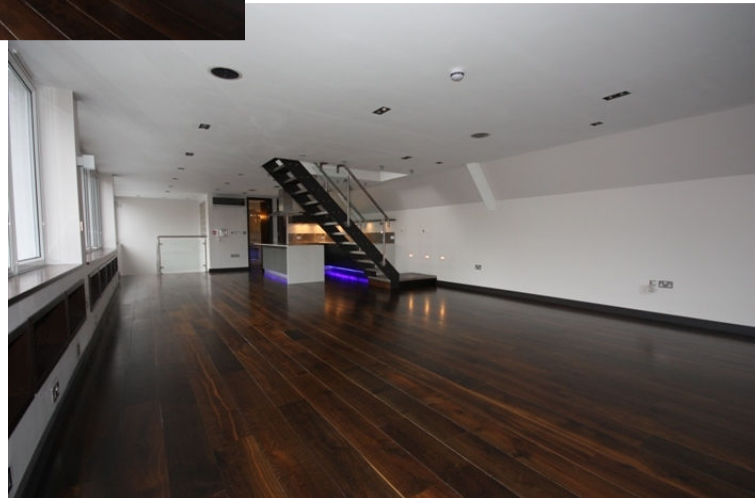




Project Overview

Client: [Billingford Construction](#)
Architect: MBGa
Manufacturer [WABrowne](#)
Status: Complete



Charlotte Road, EC2

The project is a two storey penthouse extension to an existing three story building. The frame erection took two weeks, and required road closures in central London.

The apartment is a rented property, commanding £1000 / week, and as such is finished to a very high standard.

The hot rolled frames were clad with light gauge steel infill framing, and the floor was constructed using two hundred millimetre deep lattice trusses from seventy five millimetre profile sections.

Due to the nature of the new building being sat on an existing building the 'foundation' loads were kept to an absolute minimum by using the lightest possible hot rolled sections and light gauge steel infill walls (as opposed to blockwork), whilst still keeping the required 'quality feel' by ensuring that the stiffness of the finished frame was comparable to traditionally built structures.

As can be seen from the image to the right, courtesy of W A Browne, Charlotte Road is a typically narrow London street. This combined with the new structure being erected three story's up would have made for an extremely challenging project for traditional build techniques. As the frame was erected in a matter of two weeks the local road closures were kept to an absolute minimum. The same applied for the number of deliveries of raw materials. The



frames and floor trusses were assembled offsite in the factory environment which ensured quality, reduced risk from working at height and reduced the local environmental impact.

It was even possible for the architect's to include a small outside space, with roof top views of the surrounding city scape.

Hot rolled steel was used for the portalised frames at five metre centres along the length of the building, and to frame out the sliding patio doors, but the rest of the structure was light gauge steel manufactured by W A Browne in their factory to the north of Stockton, on the edge of the Cleveland Hills.

