

Winterton House, Watney Market Estate  
for the Greater London Council

**Architect**

Hubert Bennett, FRIBA, FSIA  
Architect to the Greater London Council

**Structural Engineers**

Steel Frame      Redpath Dorman Long Ltd

Central Core  
and Foundations      W. A. Mitchell, FI Struct E

**Steelwork Contractor**

Redpath Dorman Long Ltd

**Main Contractor**

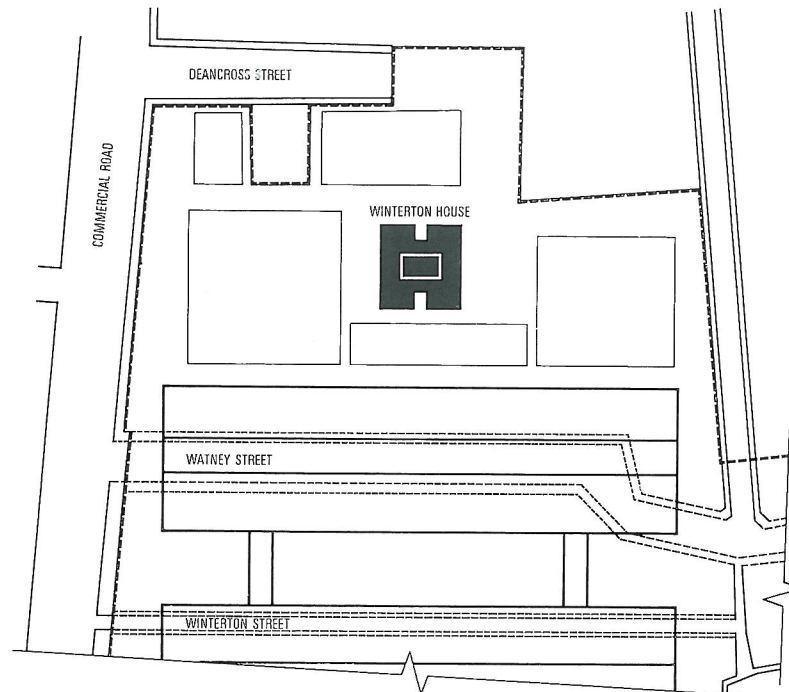
F. G. Minter Ltd

**Judges comments**

The SFI system is an excellent example of industrialised building, the main features of which are the steel-framed service core, encased in concrete to meet fire regulations, the external steel frame and the glass-fibre reinforced polyester cladding panels.

The accuracy necessary to ensure correct alignment and plumbing of the cladding was achieved by fabricating the components to close tolerance and welding frames three storeys high and two rooms wide together on special jigs.

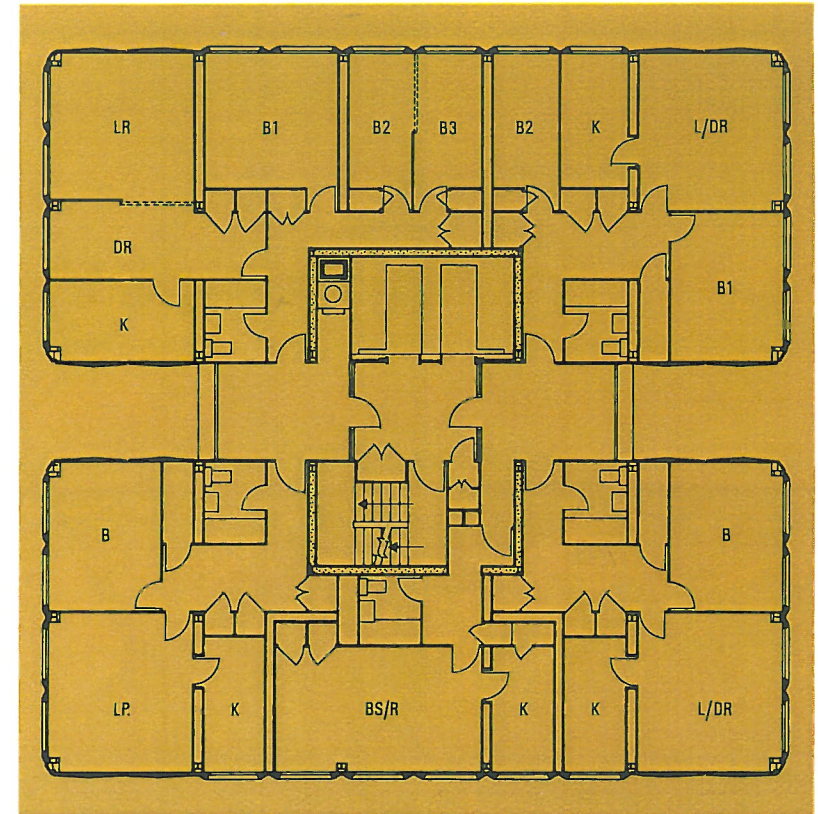




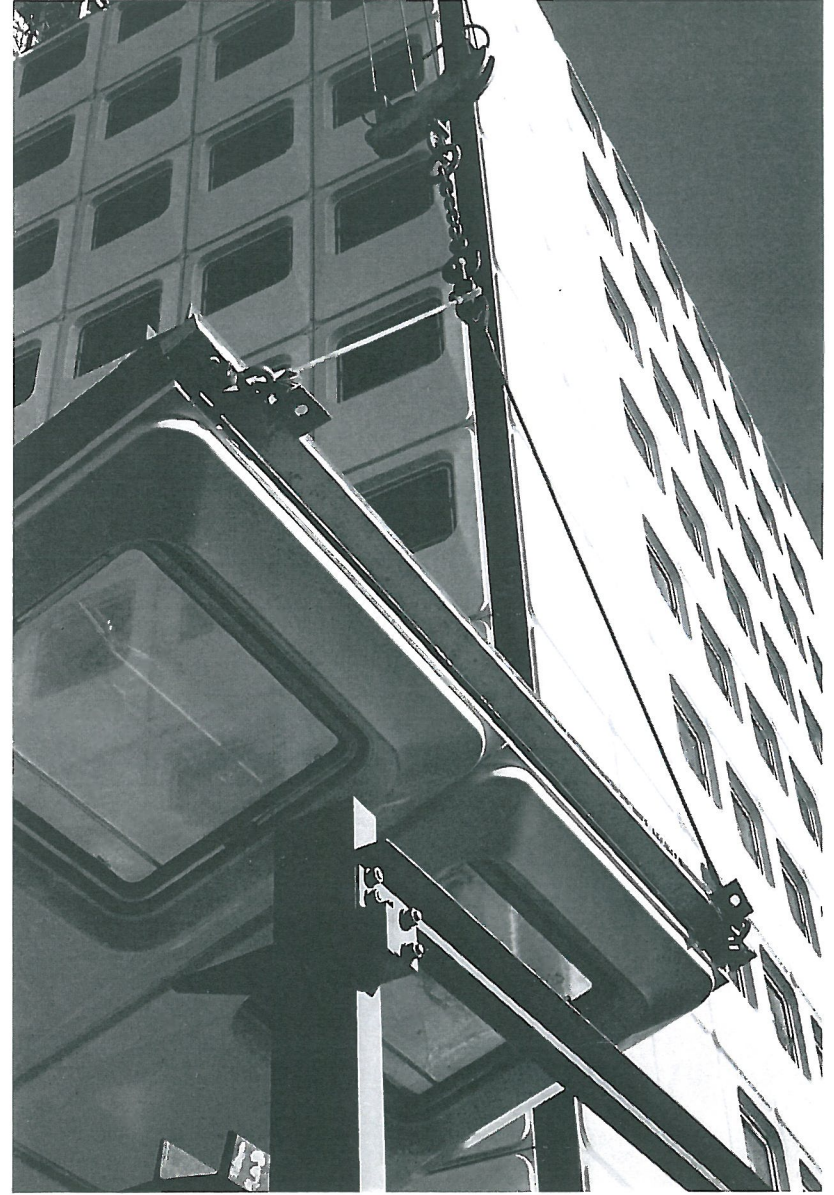
### Description

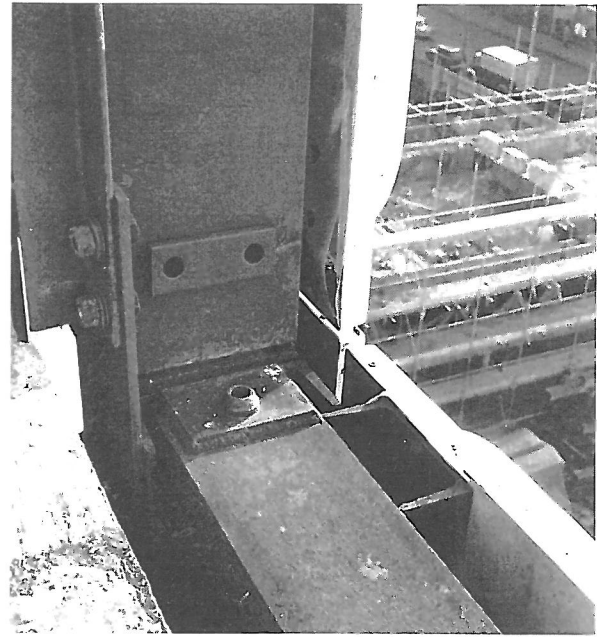
This 25-storey point block of flats in the London Borough of Tower Hamlets is 67ft  $\times$  69ft  $\times$  220ft high and is the first of two similar buildings on the site. The steelwork can be divided into three categories – core framing, periphery steel and inter-connecting floor beams. The core consists of light frames to support the shuttering for the concrete walls which are designed to resist the wind forces. The peripheral steelwork consists of prefabricated frames, the lower sections from high yield stress steel, and the upper from mild steel, thus maintaining constant dimensions throughout the columns. The floor beams link the frames to the core which has special drilled plates to receive them.

The cladding panels, complete with glazed windows, were fixed to the peripheral steel frames at Redpath Dorman Long's works in units each totalling approximately 360ft<sup>2</sup> so that complete assemblies could be delivered to the site and erected without scaffolding.



Below : Assembling the wall units at Redpath Dorman Long's yard.





Detail showing relationship of  
wall unit to main structure

