



Photo 1 – Basement Goods Hoist M12/20 serving ground to basement level

GOODS ONLY HOISTS
ALIMAK M12/20
CAGE SIZE – 2.0M X 1.5M
SWL CAPACITY –1200KGS

PROJECT – Imperial College Hospital, Hammersmith

CONTRACTOR – Bovis Lend Lease 142 Northolt Road, Harrow, Middlesex, HA2 0EE

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SCAFFOLD & HOISTS by Benchmark Scaffolding Limited

PROJECT OVERVIEW

The scheme comprises the demolition of two existing buildings located upon the site and the Construction of a new L Block approximating to circa. 12,084 m2 over 6 levels.



It is intended that the new building provide accommodation for both research activities and an element of transitional medicine. The new building will provide accommodation for laboratories and office / write up space, meeting rooms and circulation.

The ground floor of the building is to be used by the Wellcome Trust and includes facilities for in patients in six bed wards, which are located towards the west elevation of the building.

The upper floors of the building generally conform to a standard floor plan with laboratory areas to the west side of a central atrium and write up / office accommodation to the east side of the atrium. The 2nd floor is for the sole use of the MRC.

The plant is located mainly at roof level – some plant is located in the basement of the building where there is additionally an imaging suite with MRI and PET scanners.



Photo 2 - Alimak 650 FC 26/39 Driverless Passenger/Goods Twin Hoist

PASSENGER/GOODS HOISTS

ALIMAK 650 FC 32>39 Modular Hoist Extendable – Short cage 3 motor drive

CAGE SIZE – 3.2m X 1.5M

SWL CAPACITY –3000KGS



CAGE SIZE – 3.9m X 1.5M
SWL CAPACITY –2600KGS

C GATE – side loading via C gate in cage & enclosure max 2.5m wide

TRAVEL SPEED – variable 0>54mtrs/min

FC CONTROL – Soft Start lower power requirements – programmed landing levels

ALCII DRIVERLESS CONTROL

There are many benefits from using Driverless Hoists in terms of efficiency and cost savings. The Hoist supplier must be able to provide a safe system to include additional control measures in the absence of a full time operator, but there is still a requirement of the contractor to manage the process on site.

This is no more or less onerous than the existing requirements for Driver operated Hoists.

All Driverless Hoists should have as a minimum:

- 1.** A safe means of emergency lowering fitted inside the Hoist cage to eliminate the need to access the cage top to release the motor brakes – this should be supplemented with centrifugal brakes to control the lowering speed.
- 2.** Overload sensing fitted as standard with either or audible/visible warning and cut out in the event of significant overload condition.
- 3.** 2 modes of operation controlled by a key switch – mode 1 being full driverless operation with cage & landing controls & mode 2 non-driverless with cage only control for material deliveries & also any awkward lifts.

Benchmark Hoists already meet these standards – we will provide a DVD/CD Rom training aid to be included in the site induction process – detailed signage for cage and landings and Hoists incorporating the latest ALCII ‘automated logic control’ system from Alimak, which is the computerised control system.



Photo 3 - Landing Level showing push button call station for driverless operation



Photo 4 - shows scaffold landing designed for maximum Hoist loadings - flush with Hoist cage floor