

SPECIFICATION

'MANWELL' DUMBWAITER

COMPLIANCE	Installation to conform to the requirements of the following. (1) SAA. Lift Code No. 1735 Part 4 (2) SAA. Wiring Rules No. 3000
TYPE	Chain Drive Dumbwaiter.
CAPACITY	30 kg, 50 kg and 100kg models
SPEED	0.25 mps.
SERVING LEVEL	Cab to be arranged to serve at 900mm above floor level at all levels served.
DRIVE	The lift is powered by an endless chain bi-directional drive. The lift cab frame is attached to an endless chain via a con-rod. The drive machinery is located below the ground floor serving hatch and is accessible by a locked door below the serving hatch.
POWER SYSTEM	The lift machine is comprised of a worm gear reducer with a flange mounted 3 phase 415 volt drive motor and integral disk brake. The assembly is mounted at the base of the combination guide rail at level 1 below the serving level. The drive shaft supports a sprocket with an idler sprocket at the top of the lift shaft which is connected by a ¾" pitch continuous ANSI 60 chain to which is attached via a con-rod to the lift cab.
CONTROLLER	A control panel will be provided designed to control operation of the power system and ensure the lift cab responds correctly to "call & send" service demand initiated at the landing stations located at each serving hatch. Panel includes main isolation switch.
GUIDE RAIL	A pressed steel combination guide channel assembly is provided and arranged to guide the lift car throughout its travel and support the lift machine and chain sprocket assembly.
CAB	Stainless steel.
CAB FRAME	A tubular steel frame is used to support the <i>lift cab</i> superstructure, which is supplied and fitted by Grant Elevator Sales. The frame will be fitted with self-aligning nylon guide shoes and con-rod complete with bearings and chain connecting pin.
CAB ENTRANCES	The cab entrances will be protected by vertical sliding bi-parting solid stainless steel door panels. Each door assembly will be fitted with electrical interlocks wired with the safety circuit.
SERVING HATCHES	Landing serving hatch entrances are protected by vertical sliding bi-parting stainless steel door panels. Each door assembly will be fitted with an electro-mechanical lock wired in series with the lift safety circuit. These locks will only allow the landing serving hatch doors to be opened when the cab is positioned adjacent to the entrance. An emergency lock release mechanism will be provided at each entrance.
LIMIT SWITCHES	Control limit switches are provided to stop the lift at each serving hatch.
LANDING STATIONS	A single 'Call' button, plus a 'Dispatch' button and a 'Lift Arrived' LED indicator is set in a flush suitably engraved face plate which is incorporated in the stainless steel serving hatch frame of each serving hatch.



SERVING HATCH	Electro – Mechanical door locks are provided for each vertical bi-parting serving hatch door.
DOOR LOCKS	Each door will be mechanically and electrically interlocked to prevent the lift moving until the serving hatch door is in the closed and locked position.
ANCILLARY ITEMS	General arrangement drawing of the lift installation. Site wiring diagrams. Solid impact absorbing buffer under cab.
WORK BY OTHERS	Refer to 'Schedule of Work by Others'.