

X12 VERTICAL PLATFORM LIFT SYSTEMS

To be read with Preliminaries/ General conditions.

GENERAL

- 110 VERTICAL PLATFORM LIFT SYSTEM – Gartec 9000
- System supplier: Gartec Ltd. Midshires Business Park Smeaton Close, Aylesbury, Bucks, HP19 8HL. sales@gartec.com Tel: 01296 397100 Fax: 01296 397600
 - Maximum vertical travel distance: 13000mm.
 - Number of levels served (including lowest): 6 maximum.
 - Arrangement: Free standing, mast support required to one long side.
 - Lubrication: Automatic.
 - Capacity: 400Kg
 - Speed: 0.15m/s.
 - Power pack: As clause 400x.
 - Secondary Power: Emergency battery lowering from platform.
 - Drive type: Stationary screw and rotating nut.
 - Machine room: Integral.
 - Pit: 75mm.
 - Lighting: Cabin ceiling light with battery back-up.
 - Controls: Automatic one touch push buttons on call stations and platform, emergency stop button, overload indicator and alarm button with siren.
 - Emergency: Electric winding facility accessed from electrical cabinet at top floor (emergency battery lowering from platform as standard).
 - Signs and notices: As clause 460.

SYSTEM PERFORMANCE

- 210 DESIGN
- Design: Complete the design of the vertical platform lift system.
 - Proposals: Submit drawings, technical information, calculations and manufacturers' literature.
 - User group: Ambulant and wheelchair users.
 - Environment: Internal
- 220 SYSTEM PERFORMANCE
- General: To BS EN81-41, BS8300 and ISO 9386-1:2000.
 - Machine Directive approval evidence (whole system): CE Marked in accordance with the Revised Machinery Directive (2006/42/EC) and EN81-41
 - Building Regulations approval evidence: Part M.
 - Rated load: 400KG .
 - Rated speed (maximum): 0.15m/s.
 - Duty cycle (maximum): 30.
 - Dwell time: Variable.
 - Lighting to landings and enclosed liftways (minimum): To BS EN81-41 and ISO 9386-1:2000.
 - Liftway fire rating: None.

PRODUCTS

310 PRODUCTS GENERALLY

- Standard: To BS EN81-41 and ISO 9386-1:2000.

350 LIFTING PLATFORM

- Manufacturer: Aritco.
- Cabin dimensions (wxdxh): 1100 x 1400 x 2100 (1000 x 1400 x 2100 Optional)
- Finish: Black embossed dots on COP wall, white grey for other sides (alternative colours and mirrors optional)
- Ceiling: Four LED spot lights with dimmer switch
- Car Doors: Automatic powered folding busmatic doors creating a fully enclosed cabin when in travel.
- Handrail: Stainless Steel (Oak optional)
- Floor: Choice of 8 Vinyl or Rubber floorings
- Lighting: Controls illuminated (battery backup)

351x LIFTING ENCLOSURE

- Width: 1565 mm (1465 on 1000mm wide cabin)
- Depth: 1630 mm
- Height: 2400 mm above FFL on top floor.
- Construction: White (RAL 9016) vinyl coated double skinned steel panels filled with EPS polystyrene. Toughened and laminated glass panels optional.
- Fire rating: None.

370 DOORS TO LANDINGS

- Manufacturer: Aritco.
- Arrangement: 3 sides available.
- Clear width opening: 900mm.
- Height: 2000 mm.
- Door frame: Integral to shaft enclosure.
 - Finishes: Door and frames white powder coated (RAL 9016)
 - Furniture: Natural anodized aluminium.
- Door operation: Manual opening with self closer electrically and mechanically interlocked. Automatic operation and concealed closers optional.
- Door fire rating: 1 hour fire doors available as option.

400x POWER PACK

- Supply: 400V, 3ph, 20A
- Type and location: Lockable isolator within 2 metres and in view of electrical cabinet.
- Motor: 3kW.
- Motor Voltage: 400V, 3ph, 50Hz.
- Starting current: 18Amps.
- Running current: 4.7Amps.
- Emergency lowering: Electrical winding facility accessed from electrical cabinet at top floor. Emergency battery lowering from platform.
- Initiation: Frequency Drive

410 SECONDARY POWER

- Type: Battery backup source and other power source forming component part of lift assembly.

420 LIGHTING

- General lighting requirements: Cabin ceiling with 4 LED spot lights with dimmer switch.
- Emergency lighting requirements: Battery.

430 OPERATIONAL CONTROLS

- Control system: Microprocessor based with service memory facility.
- Operation: Automatic from platform and landings.
- Auto park when not on call: No
- Audible indication: Arrival sounder. Voice synthesiser optional.
- COP: Stainless Steel with coloured text.
- Push buttons: Flush and tactile.
- Platform console: Destination, alarm and emergency stop buttons.
- Landing controls: Call button with green halo indication. (Key switches optional)
- Pit prop: Manual with electric interlock.
- Fire alarm interface: Normally open volt free contacts.
- Alarm: External audible sounder with battery backup.

440 EMERGENCY CONTROLS

- Emergency lowering: Electrical winding facility accessed from electrical cabinet at top floor. Emergency battery lowering from platform.

450 ACCESS CONTROLS

- Type: Self locking key locks.

460 SIGNS AND NOTICES

- Generally: As per regulations.

EXECUTION

620 INSTALLATION GENERALLY:

- By installation team of 2.

630 LAYOUT AND LOCATION

- General: As per site requirement.

COMPLETION

910 TESTING AND COMMISSIONING

- Standards: Machinery Directive & EN81-41
- Operational tests: Weight/load test
- Test certificate: 1 electronic copy

920 ELECTRICAL INSPECTION AND TESTING

- Electrical inspection and testing: Machinery Directive & EN81-41 & manufacturers recommendations

930 NOTICES AND INSTRUCTIONS

- Standard: As per regulations.
- Emergency lift evacuation procedure: In user's Manual
- Single line diagrams: In user's Manual
- Maintenance instructions: To Machinery Directive.

935 EQUIPMENT LABELLING

- Switches, controls, enclosures and terminations: Clearly and indelibly label describing their purpose. Identify the off position.970

DOCUMENTATION

- Operation and maintenance instructions: Yes.
- Record drawings: Yes.
- Certificates: Yes.
 - Number of copies: 1.
- Instruction manual: Yes.
 - Number of copies: 1.
- Content: Drawings and diagrams necessary for normal use of the lift, emergency use, rescue, maintenance, repair and periodic checking.
- Log book: Individual for each lift.

975 TRAINING

- Timing: On handover as standard (To end user optional).
- Scope to include:
 - Daily lift operation.
 - User routine and general maintenance.
 - Emergency passenger release procedure.

980 MAINTENANCE

- Servicing and maintenance: Included.
 - Duration: 2 per annum
- LOLER inspection and certificates included with first 2 maintenance visits.