

X12 VERTICAL PLATFORM LIFT SYSTEMS

GENERAL

110 VERTICAL PLATFORM LIFT SYSTEM: OPTIMUM 500

- System supplier: Ability Lifts Ltd, Khepera Business Centre, 9 Orgreave Road, Sheffield, S13 9LQ. Tel:0845 006 8803 sales@abilitylifts.co.uk
- Maximum vertical travel distance: 13000mm.
- Number of levels served (including lowest): 4 maximum.
- Arrangement: Free standing, self supporting structure- support walls are not required.
- Lubrication: Manual, guides and chains.
- Capacity: 400Kg
- Speed: 0.15m/s.
- Secondary Power: Emergency battery lowering from control cabinet optional.
- Drive type: Encapsulated drive chain, conventional gearbox and motor
- Machine room: Integral.
- Pit: 60mm (ramp optional)
- Lighting: Top of shaft and on console.
- Emergency: Yes – on platform
- **Controls:**
- Operational: Constant pressure buttons on platform, one touch from landings.
- Emergency: Manual winding facility accessed from electrical cabinet at top floor (Emergency battery lowering from platform (Required for travel 3M and above)).

SYSTEM PERFORMANCE

210 DESIGN:

- Design: Enclosed vertical platform lift system.
- User group: Ambulant and some wheelchair users.
- Environment: Internal or external with a separate Kingspan waterproof enclosure.
- Temperature extremes: Maximum 40 degrees.

220 SYSTEM PERFORMANCE:

- General: To BS 6440, BS8300 and ISO 9386-1.
- 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 6440 and ISO 9386-1.
- Liftway fire rating: None. Can be covered with plasterboard or fireboard to give fire rating.

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PRODUCTS

310 PRODUCTS GENERALLY:

- Standard: BS 6440, BS8300 and ISO 9386-1.

350 LIFTING PLATFORM:

- Manufacturer: Motala.
- **Platform floor dimensions:**
- Width: 1000 mm. (other sizes available)
- Depth: 800 mm. (other sizes available)
- Height: 1100 mm console to one long side. Powder coated white RAL 9010.
- Handrail: Stainless steel mounted on console.
- Floor: Non-slip vinyl (grey). Other colours and textures available
- Safety edge: Three sides of platform floor and to top edge of console.
- Lighting: Controls illuminated (battery backup)

351 LIFTING ENCLOSURE:

- Width: 1150 mm.
- Depth: 950 mm
- Height: 2200 mm above FFL on top floor
 - Construction: White (RAL 9010) powder coated, steel faced galvanised panels, filled with Isolamin insulation, other RAL colour optional, Toughened & laminated glass panels optional
- Lighting: Shaft ceiling with lighting (LED)
- Fire rating: None

370 DOORS TO LANDINGS:

- Arrangement: 3 sides available
- Clear width opening: 900mm
- Height: 2000 mm.
- Door frame: Integral to shaft enclosure
- Finishes: Door and frames powder coated in RAL 9010: White, other RAL colours optional
- Furniture: Natural anodized aluminium.
- Door operation: Manual opening with self closer electrically and mechanically interlocked. Automatic operation and concealed closers optional.
- Door fire rating: 30 minutes and 1 hour fire doors available as option

400 POWER:

- Supply: 230V, 1ph, 16A, 50Hz
- Type and location: Lockable isolator within 2 metres and in view of electrical cabinet located at the top landing
- Motor: 0.55kW asynchronous motor
- Motor Voltage: 240V, 1ph, 50Hz
- Starting current: 4.5 Amps running in the up direction empty(9.7 Amps fully loaded)
- Running current: 9 Amps with full load in the up direction.
- Emergency lowering: Manual winding facility accessed from electrical cabinet at top landing or emergency battery lowering from platform if travel height between floors is greater than 3m otherwise optional
- Initiation: Soft start

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410 SECONDARY POWER:

- Type: Battery backup source optional

420 LIGHTING:

- General lighting requirements: Ceiling with LED light fittings.
- Emergency lighting requirements: Battery backup

430 OPERATIONAL CONTROLS:

- Control system: Microprocessor based with service memory facility.
- Operation: Constant pressure buttons from platform with single press buttons from landings
- Audible indication: Arrival chime with voice annunciation
- Face plate: Stainless steel with coloured text.
- Push buttons: Flush and tactile.
- Platform console: Destination, alarm and emergency stop buttons.
- Landing controls: Call buttons with LED indication for "lift in use" or faulty circuit. (key switches optional)
- Pit prop: Manual with electric interlock.
- Fire alarm interface: Volt free contacts – automatic homing to ground on activation
- Alarm: External audible sounder with battery backup.
- Communication: telephone fitted as standard. Autodialler or intercom options.

440 EMERGENCY CONTROLS:

- Emergency lowering: Manual winding facility accessed from electrical cabinet at top floor (emergency battery lowering from landing for travels of 3 metres and above).

450 ACCESS CONTROLS:

- Type: Self locking key locks.

460 SIGNS AND NOTICES:

- As per regulations.

EXECUTION

620 INSTALLATION GENERALLY:

- By installation team of 2

COMPLETION

910 TESTING AND COMMISSIONING:

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

920 ELECTRICAL INSPECTION AND TESTING:

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

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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: 2.
- Instruction manual: Yes.
- Number of copies: 2.
- 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: At time of installation
- Scope to include:
 - Daily operation
 - Cleaning and daily care
 - Emergency passenger release procedure

980 MAINTENANCE:

- Servicing and maintenance: Optional
- Duration: Minimum 2 per annum