

X12 VERTICAL LIFT SYSTEMS

GENERAL

- 110 VERTICAL LIFT SYSTEM – Axess 2, Rafael Hydraulic
- Maximum vertical travel distance: 15000mm.
 - Number of levels served (including lowest): 8 maximum.
 - Arrangement: Support required to one side or self supporting structure.
 - Lubrication: Automatic.
 - Capacity: 500Kg
 - Speed: 0.15m/s to Machinery Directive, 0.3m/s lift directive.
 - Secondary Power: Battery back up for 24v system.
 - Drive type: Hydraulic 2:1 with Start elevator 2 speed pump unit with immersed motor and Bucher valve.
 - Machine room: Within 15mts of lift shaft.
 - Pit: 200mm standard, 100mm option available. Ramp optional
 - Lighting: In lift shaft and on lift car. -Emergency: Yes – on car.
 - Controls:
 - Operational: One touch controls.
 - Emergency: lowering and system from pump unit, hand pump

SYSTEM PERFORMANCE

- 210 DESIGN
- Design: Vertical lift system.
 - User group: Ambulant and wheelchair users, general.
 - Environment: Internal
- 220 SYSTEM PERFORMANCE
- General: To BS 6440, BS8300 and ISO 9386-1.
 - CE Marked in accordance with the Revised Machinery Directive (2006/42/EC).
 - Building Regulations approval evidence: Part M.
 - Rated load: 400KG
 - Rated speed (maximum): 0.15m/s or 0.3m/s according to regulations.
 - Duty cycle (maximum): 30/hour.
 - Dwell time: 5 seconds.
 - Lighting to landings and enclosed liftways (minimum): To BS 6440 and ISO 9386-1.
 - Liftway fire rating: 2 Hour fire rated doors telescopic.

PRODUCTS

- 350 Lift Cabin
- Manufacturer: Nova Cabina.
 - Platform floor dimensions:
 - Width: 1100 mm. (600,700,800,900 & 1000 mm available)
 - Depth: 1400 mm. (600,700,800,900, and1000 mm available)
 - Height: 2050 mm Full lift cabin enclosed. Full range of finishes available.
 - Handrail: Brushed stainless steel to 3 sides optional.
 - Floor: Standard Anti slip vinyl – light grey (10 colours available as standard, granite or aluminium finishes available or own floor up to 65kg).
 - Automatic cabin door Bus type manufacturer Wittur (Stainless steel, aluminium, or glass optional).
 - Steel skirting rail optional at floor mid and upper cabin
 - Lift cabin in skinplate with integrated COP, removable for servicing, (stainless steel, glass or bespoke cabin available) ½ Mirror to cabin wall
 - Removable ceiling with safety contacts for maintenance
 - Lighting: Controls illuminated including battery backup min 90 lux at controls.

351 LIFTING ENCLOSURE

- Width: 1550 mm (other sizes available)
- Depth: 1820 mm (other sizes available)
- Height: 2700 mm above FFL on top floor.
- Construction: Blockwork shaft in accordance with loadings or self supporting steel frame.
- Lighting: Shaft lighting to regulations.
- Fire rating: 2 Hour fire rated doors at landings.

370 DOORS TO LANDINGS

- Manufacturer: Ceita swing doors.
- Arrangement: 3 entrance sides available.
- Clear opening width opening: 900mm
- Height: 2000 mm.
- Frame: Steel with RAL painted (stainless steel, or special steel from Steel Color optional)
- Finishes: Door and frames RAL painted, (full glass, stainless steel, aluminium optional)
- Door operation: Manual Optional automatic opening and closing, electrically and mechanically interlocked. Integral automatic door operator, not surface mounted.
- Door fire rating: 2 hour fire doors available as option.

400 POWER

- Supply: 240V, 1ph, 30A, 50Hz
- Type and location: Lockable isolator within 2 metres and in view of electrical cabinet located at the designated area.
- Motor: 2.0kW.
- Motor Voltage: 240V, 1ph, 50Hz.
- Starting current: 18 Amps.
- Running current: 6 Amps.
- Emergency lowering: Manual lowering/raising facility accessed from electrical cabinet.
- Initiation: Soft start/stop controlled from Bucher valve.

410 SECONDARY POWER

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

420 LIGHTING

- General lighting requirements: Ceiling with LED light fittings for low power consumption
- Emergency lighting requirements: 24v Battery.

430 OPERATIONAL CONTROLS

- Control system: Microprocessor based CMUH with service memory facility with GSM 'dial in' diagnostics (optional).
- Operation: Automatic from landings and cabin
- Audible indication: Arrival sounder. On site programmable voice synthesizer with acknowledgments for direction, floor level, overload, emergency alarm, doors opening/closing.
- Face plate: Stainless steel with LCD display floor level, scrolling arrow, out of service, overload indication.
- Push buttons: Flush and tactile with Braille 50mm diameter.
- COP: Destinations, alarm, door re-open, overload indication, 6 inch LCD display with floor level indication, scrolling arrow, out of order, overload, autodialler acknowledgment.
- Landing controls: Call buttons with red halos to indicate lift at landing, fault/security circuit broken or lift in use. (key switches, key pad, swipe card) optional.
- Pit prop: Manual with electric interlock.
- Fire alarm interface: Volt free contacts – automatic homing to programmed floor on activation
- Alarm: External audible sounder with battery backup.
- Communication: Falt Com Autodialler integrated into COP with remote programming.

440 EMERGENCY CONTROLS

- Emergency lowering: Accessed from electrical cabinet at designated area with battery back up.

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
 - Operational tests: Weight/load test
 - Test certificate: 1 hard copy & 1 electronic copy on CD
- 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: 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: On completion.
 - 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.