X3 INCLINED PLATFORM LIFT:


Emergency Devices: Emergency stop switch on a control panel, under platform sensing, ramp sensing and grab rail.

Safeties: Overspeed governor on upper carriage drive, containing mechanical overspeed sensor and lock, with electrical drive cut-out protection.

Drive: Power Transmission: Worm gear reduction to a pinion moving on a fixed gear rack.

Motor: 374W (0.5 HP) – 24VDC.

Power Supply: 120 VAC / 1 PHASE – 50/60 Hz. Charges 2 x 12VDC, 18 Ah batteries behind conveyance.

Travel Speed: 4 m/min [13 ft/min] traveling up; 5 m/min [16 ft/min] traveling down.

Location: Indoor Lift – Commercial/Residential

Attachment: Tower Mount Unit – Freestanding

Platform: 800mm x 1220mm [31 1/2" x 48"] (Keyed)
The 16 ga. galvanized platform deck is finished with an electrostatically applied Non-Slip Black Sandex powder coat. The platform is equipped with a grab rail, hour counter and retractable passenger restraining arms.

Capacity: Maximum 250 kg [550 lb] operating load.

Color: Upper and lower rails and loading ramps are made of aluminum extrusions. The aluminum and steel components of the lift are finished with an electrostatically applied and baked powder ‘Silver Moon’ finish.

Ramps: Lower Ramp – Standard 200mm [7 7/8”]
Upper Ramp – Standard 200mm [7 7/8”]
Sideload Ramp – Not Required.

Call Stations: Lower Landing – Wireless Surface Mount c/w flush adapter (Keyed)
Upper Landing – Wireless Surface Mount c/w flush adapter (Keyed)

Custom Work: None.

Optional Items: Platform Key Switch, Fold Down Seat Kit, In-Hanger Alarm with Battery Back-up, Attendant Remote Control Kit, Towers (Mild Steel).
NOTE: VISIBLE, FUSED, LOCKABLE, INLINE DISCONNECT TO BE INSTALLED BY ELECTRICAL CONTRACTOR.
X3 LOADING DIAGRAM  N.T.S.

(Loads are based on a 800 x 1220 [31 1/2” x 48”] platform)

\[ F_1 = 129 \text{ kg} = 1265 \text{ N} \]
\[ F_2 = 250 \text{ kg} \times (550 \text{ Lb}) \text{ (max. loading capacity)} = 2452 \text{ N} \]
\[ d_1 = 360 \text{ mm} \text{ (14 1/8")} \]
\[ d_2 = 565 \text{ mm} \text{ (22 1/4")} \]
\[ x = 81.75 \text{ mm} \text{ (3 1/4")} \]
\[ F = F_1 + F_2 = 1265 + 2452 = 3717 \text{ N} \]

Moment Over F1 & F2:
\[ M = F_1 \times (d_1 + x) + F_2 \times (d_2 + x) = 2251 \text{ Nm} \]

Pulling Forces F3:
\[ F_3 = M \div (d_3 + d_4) = 2810 \text{ N} \]

Pushing Forces F4:
\[ F_4 = M \div d_4 = 3752 \text{ N} \]