

**VERTICAL WHEELCHAIR LIFTS  
COMMERCIAL INSTALLATIONS  
ASME 18.1b (2001) & OESC (2003)**

Site Name: \_\_\_\_\_ City: \_\_\_\_\_ Date: \_\_\_\_/\_\_\_\_/\_\_\_\_

VERTICAL WHEELCHAIR LIFTS	A18.1b Part 2	COMMENTS	Passed
Runway Enclosures N/A <input type="checkbox"/>	2.1.1	Runway construction for lifts that penetrate a floor & are allowed to serve more than 2 landings must comply with para. 2.1.1.	<input type="checkbox"/>
	2.1.1.1	1) Access required to runway enclosure.	<input type="checkbox"/>
	2.1.1.2/3	2) Must be enclosed to at least 1067 mm (42") above top landing. 3) Upper landing door to be solid with a smooth inside surface to a minimum height of 1067 mm (42") and be self-closing.	<input type="checkbox"/> <input type="checkbox"/>
	2.1.1.4	4) Upper landing door to be provided with a combination mechanical lock and electric contact.	<input type="checkbox"/>
	2.1.1.3	5) Door may only be opened if lift is within 51 mm (2") of floor level. 6) The lower landing door must provide a minimum 2.03 m (6'8") clearance and only openable within 51 mm (2") of floor level.	<input type="checkbox"/> <input type="checkbox"/>
	2.1.1.4	7) Combination mechanical lock and contact shall be provided.	<input type="checkbox"/>
	2.1.1.6	8) Running clearance shall be not less than 9.5 mm (3/8") nor more than 19.05 mm (3/4"). Actual _____" (Top) _____" (Bottom)	<input type="checkbox"/>
	2.1.1.7	9) If needed to prevent a shear potential, a sheet metal guard shall be provided under door header at angle between 60° and 75°. 10) Platform side guards shall be a minimum of 1067 mm (42") high. Openings of 13 mm (1/2") or less only for operation requirements.	<input type="checkbox"/> <input type="checkbox"/>
	2.1.1.8	11) A grab rail shall be provided at a nominal height of 813-864 mm (32"-34"). The rail shall conform to ADA requirements 31.75-38.10 mm (1 1/4" - 1 1/2" dia.) 12) The clearance between side guards and runway shall be not less than 51 mm (2"), nor more than 76 mm (3"). Actual _____". 13) Forced ventilation is required when: a) enclosure extends to a height of 2134 mm (7') at top landing; and b) contains transparent walls & is exposed to direct sunlight; and c) is enclosed at the top of the runway enclosure d) cannot exceed 90° F (32° C) e) auxiliary power supply required for 1 hour operation f) provide 2134 mm (7') overhead clear if ventilation/blower fans in enclosure.	<input type="checkbox"/> N/A <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>





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Hydraulic Driving Machines	2.3.2 (8.1)  (8.1)	1) Direct plunger systems must conform to Section 302. a) Plunger must be securely attached to platform. b) Plunger design shall conform to Req 3.18.2.1. Ensure that plunger appears sufficient to withstand loading, etc. 2) Roped hydraulic systems must conform to Part 3.18 as applicable. a) 2 ropes minimum; no greater than a 1:2 ratio of machine speed to car speed. b) Sheave guards to prevent ropes from leaving sheaves. c) Manually reset type slack rope switch required.	N/A <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> N/A <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Screw Drive Machines	2.3.3	1) Screw drive machines shall conform to Section 1804. a) Screws must be made of steel. b) Nuts may be of bronze or other materials. c) The screw shall be maintained in a vertical position. d) Belt or chain driven systems must be able to stop with 125% of rated load if the drive belt or chain breaks. e) Means to prevent the dislodging of the nut from screw. f) Manual operation from outside the tower is required.	N/A <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Machine Guarding	2.3.8	A solid enclosure shall be provided with no openings except that needed for operation. These openings shall reject a 38.10 mm (3/4") diameter ball.	<input type="checkbox"/>
Indirect-Drive Machines  Requirements of Req. 2.24.9.3 may be omitted when self-locking (lead screw, worm, positive gearing) systems are employed.	2.3.9	1) Indirect-drive Machines must conform to the following: a) Belts, chains and sprockets shall comply with Req. 2.24.9.2; i) guard shall be provided to prevent incidental contact with equipment ii) sprockets are to be provided on a common hub and teeth properly positioned to provide alignment for belts and chains b) Broken chain or belt monitoring must conform to Req. 2.24.9.3; i) device must stop operation of the unit if a chain or belt is broken ii) driving machine brake must be located on the drive sheave assembly side of the machine	N/A <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Driving Machine Brakes	2.4	1) Shall be of the mechanically set/electrically released type. a) Connected to shaft driving means through: i) continuous shaft ii) mechanical coupling iii) toothed gearing	N/A <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Suspension Means	2.5  2.5.1.3 2.5.1.4  2.5.7 2.5.4  2.5.1.4	1) Hoist ropes to be type: a) Steel; or b) Iron Wire Rope; or c) Aircraft Cable d) Minimum of 2 ropes e) Minimum of 6.35 mm (1/4") ropes for loads <= 227kg (<= 500 lbs.) f) Minimum of 31.75 mm (3/8") ropes for loads > 227kg (> 500 lbs.) g) Must be fastened by a suitable shackle. No crosby clips. h) Winding drum must have a minimum of 1 turn left on drum. 2) Roller Chain: a) Minimum 13 mm (1/2") pitch for loads < 227kg (<= 500 lbs.) b) Minimum 16 mm (5/8") pitch for loads > 227kg (>500 lbs.)	N/A <input type="checkbox"/> <input type="checkbox"/>
Cars and Platforms	2.6 2.6.1  2.6.4 2.6.5 2.6.6.1  2.6.6.3	1) Platform shall be constructed of: a) Steel; or b) Wood c) Non-skid surface d) No cast iron may be used in loading bearing construction. e) Maximum 1.67 m <sup>2</sup> (18 ft <sup>2</sup> ) net inside platform area. f) Minimum illumination on platform through travel; 54 lx (5 ftc.) g) Actual _____ ftc. h) Auxiliary illumination: i) not less than 2.2 lx (0.2 ftc) on platform & controls ii) automatically activated when normal ill. power fails iii) capable of maintaining above ill. for not less than 4 hrs	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> N/A <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

