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

 Site Name:
 Date:
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INCLINED	A18.1	Comments	Passed
WHEELCHAIR LIFTS	Part 3		
Means of Egress	3.1.1	Means of egress on stairway must be maintained as required by the building code and/or fire marshall.	
Clearances	3.1.2	 The clearances between platform and adjacent surfaces: a) 19.5 mm (³/₄") minimum Actual" b) 610 mm (24") maximum above each step Actual' 	
Pits & Ramps One of the following shall be provided: Pit Floor Ramp Retractable Platform Ramp NOTE: Ramps and landings must comply with ADA requirements. Refer to A117.1, ADAAG for requirements or the Oregon	3.1.4 OSSC, Chapter 11 3.1.4	 Pits shall comply with the following: a) Reasonable protection shall be provided to prevent normal stairway traffic from contacting the pit area. This protection shall be based primarily on the physical operating area of the lift. Floor ramps, when provided, shall conform to the following: a) The slope shall be not less than 12:1 b) Level landings are to be provided at top & bottom of ramp Retractable ramps shall conform to the following: a) For a height up 63.5 mm (2½?); 1:6 b) For heights more than 63.5 mm (2½?) to less than 76.2 mm (3"); 1:8 c) For heights 76.2 mm (3") or greater; 1:12 	
Structural Specialty Code for details. Wiring	3.1.6	1) Must comply with the Oregon Electrical Specialty Code:	
NOTE: OAR 918-305-0250(3) modifies NEC Art. 620-51 with respect to the disconnect location.	620-51(4)	 a) Certification to CSA B44.1/ASME A17.5 Lab/Label ID #:	
Guide Rails & Tracks	3.2	 Rails & tracks shall conform to the following: a) constructed of metal b) extended at each end to prevent lift from leaving guides. c) factor of safety of not less than 5 d) securely anchored to the wall, stairs and/or floor surface 	

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Driving Means 3.3 Must be one of the following	3.2.4	 The factor of safety must not be less than: a) 8 for steel & bronze 	
types:		b) 10 for cast iron	
Winding Drum		2) Other considerations:	_
Traction Roped Sprocket Chain Sprocket	3.3.1.2 3.3.1.3	 a) connections subject to torque must be pinned or keyed b) friction gearing, clutch systems, or couplings not allowed for drum or traction sheave units. (N/A) 	
Screw Drive	3.3.1.4	c) worm gears can not be made of cast iron (N/A)	
Direct Plunger Hydraulic	5.5.1.0	e) be not less than 30 times the diameter of ropes; or	
Roped Hydraulic Lever Hydraulic		 f) be not less than 21 times the diameter of ropes when 8x19 or 7x19 aircraft cable is used. 	
Friction		g) rope grooves shall be machined	
	3.3.2	 Hydraulic driving machines: a) a plugger does not better out with ear on buffere 	N/A 📋
		b) oil collection not more than 1.89 liters (5 gal.)	
		c) below ground installations are provided with:	
		d) Monitored cathodic protection	
		e) Cylinder coating	
		a) cylinder air and das relief	
		h) stop ring	
		4) Roped hydraulic systems (ref. para. 8.1):	N/A
		a) SOS switch	
	333	 b) governor switch c) Screw Drive Machines, must comply with para, 8.2 	
	3.3.5	d) Sheaves used for remote power units must be properly aligned	
		and guarded.	
Indirect-Drive Machines	3.3.6	1) Indirect-drive Machines must conform to the following:	N/A
		 a) Belts, chains and sprockets shall comply with paras 3.3.6.1-3; i) guard shall be provided to prevent incidental contact with 	
		equipment	_
Requirements of Req, 3,3,6,2		ii) sprockets are to be provided on a common hub and teeth	
locking (lead screw worm	3.3.6.1	2) Broken chain or belt monitoring:	N/A 🗖
positive gearing) systems are		a) device must stop operation of the unit if a chain or belt is broken	
employed.		b) driving machine brake must be located on the drive sheave	
Driving Machina Brakas	2.4	assembly side of the machine	
(not required on self-locking	5.4	released. mechanically set brake.	
systems; lead screw, worm or		2) The brake may be eliminated if the unit is provided with a self-locking	
positive gearing)		drive with a lead screw, worm or other positive gearing that will stop	
Suppopular Magna		and hold the car if power is removed.	
steel or iron wire rope	3.5	a) suspension means must not be less than 7:	
steel aircraft cable	0.0	b) chain used between machine and counterweight must not be less	
roller chain		than 8	
direct-plunger hydraulic		c) minimum wire rope size shall not be less than 6.4 mm $(1/4")$	
ropea-nyaraulic rack & pinion	351	 chain shall contact sprockets at least 140 deg. winding drum machines shall not have less than 1 full turn on drum 	
screw	3.5.5	4) wire ropes shall be properly secured inside drums	
	2001.5d	5) rope fastenings shall be of the babbitted socket type or other type	
	3.5.7	recommended by the rope manufacturer.	
	3.5.5	all moving suspension means must be adequately guarded.	

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LIFTS	Part 3		
Platforms	3.6.1	1) Platform size is limited to a maximum of 1.11 m ² (12 ft ²) (Inside net	
		 2) Glass, when used, must be laminated 	
	3.6.8	3) Platform guarding must comply with one of the following:	
	0.0.0	 b) opening of the door will cause the unit to stop if more than 51 mm 	
		(2") from landing if not locked; and	
		except that necessary for controls; and	
		 a hand grip extending the length of the side and 914 mm (36") high from platform shall be provided; or 	
	3.6.8.2.3	e) 152 mm (6") high guards on non-loading sides of platform:	
		f) automatically or manually retractable 152 mm (6") high metal guard on lower end access: and	
		g) guard shall be provided with an electric contact to stop movement	
	3.6.8.2.4	of the lift if not retracted within first 51 mm (2") of travel: h) retractable passenger restraining arms not less than 813 mm	
		(32") from floor.	
	3.6.8.2	 a hand grip shall be provided at a height of not less than 914 mm (36") 	
Obstruction Devices			
Obstruction Devices	3.6.9	a) unper platform edge	
		b) lower platform edge	
		c) entire under side of platform (operate in down direction only)	
		d) must stop platform within 51 mm (2") travel	
Pagaganger Postriction Sign	275	e) lift may operate in direction away from obstruction	
Fassenger Restriction Sign	3.7.5	reads: (minimum $\frac{1}{4}$ " lettering)	
		"MOBILITY IMPAIRED PERSONS ONLY. NO FREIGHT"	
Capacity, Speed, Angle of	3.7	1) The lift shall conform to the following requirements:	
Incline		a) minimum 204 kg (450 lbs.) Capacity	
		c) maximum rated speed shall not exceed 0.15 m/s (30 fpm)	
	3.7.2	d) maximum angle of incline shall not exceed 45°	
	3.7.3	2) capacity plate shall indicate:	
		a) rated load	
		b) letters 6.4 mm (¼") high	
	374	3) data plate:	
	0	a) rated speed	
		b) rated load	
		c) weight of car	
		d) suspension or support means	
		e) date of manufacture	
		a) letters 6.4 mm $(1/i')$ high	
		h) located conspicuously	
Safeties & Speed Governors	3.8	1) Safeties are required on all type units except direct plunger hydraulic	
		IIITS. 2) Maximum governor (when provided) tripping speed can not exceed	
		0.38 m/s (75 fpm.)	
		 Governor ropes shall not be less than 3.2 mm (1/8") diameter. 	

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Terminal Stopping Devices	3.9.4	1) Final terminal stopping devices are required at:	
	3.9.2	a) Must stop platform within 13 mm (1/2") tolerance of landing	
		b) Upper end	
	3.9.3	 c) Lower end (not required at lower end when machine or runway limit travel) 	
		d) Set to function after traveling past normal stopping device and	
		before striking any obstruction.	
		2) Drum machines shall:	
		 a) be provided with a manually reset slack cable device (may be 	
		used a lower final limit)	
	0.40	b) be provided with a machine limit	
Operating & Control Devices	3.10	1) Keyed Operation requires:	
Leasting of controls yourt		a) Upper landing key control;	
Location of controls must		D) Lower landing key control,	
COMONN TO ANSI ATT7.1		d) Kove removable only in "off" position	
		e) Constant pressure "Un" & "Down" control stations	
	3 10 2	2) Attendant Operation requires:	
	0.10.2	a) Lift attendant summoning means	
		b) Operation via a detachable pendant (1524 mm (5') maximum	
		length) station control with a manually operated stop switch	
		c) May be operable from top or bottom on a straight flight of stairs	
	3.10.6	d) Only emergency stop switch to be provided on platform	
Emergency Signal	3.11	If the lift is installed in an area not visible to personnel at all times,	
		emergency signaling devices shall be provided in accordance with the	
		requirements of para 3.11.1 or 3.11.2.	
Code Data Plate	3.12	 Located on mainline disconnect or controller. 	
		2) Indicate code for inspections and tests.	
		3) State ID tag may be used to supply such information when not	
		supplied by manufacturer.	