

## STANDARD INFORMATION

**Standard:** ASME A18.1

**Standard ID:** Safety Standard for Platform Lifts and Stairway Chairlifts [ASME A18.1:2020 Ed.8]

**Previous Standard ID:** Safety Standard for Platform Lifts and Stairway Chairlifts [ASME A18.1:2017 Ed.7]

## EFFECTIVE DATE OF NEW/REVISED REQUIREMENTS

**Effective Date:** **February 26, 2023**

## IMPACT, OVERVIEW, AND ACTION REQUIRED

**Impact Statement:** Per our accreditation, Intertek is required to review reports against the standard revisions to confirm compliance. Once compliance is confirmed, the standard reference in the report is updated to show continued compliance to the technical requirements of the standard.

### Overview of Changes:

- Addition of requirements for performance lifts
- Revised requirements for fascia
- Revised requirements for enclosures
- Revised requirements for rated speed of lifts

Specific details of new/revised requirements are found in table below.

***Current Listings Not Active? – Please immediately identify any current Listing Reports or products that are no longer active and should be removed from our records. We will do this at no charge as long as Intertek is notified in writing prior to the review of your reports.***



## STANDARD INFORMATION

CLAUSE	VERDICT	COMMENT
		<i>Additions to existing requirements are <u>underlined</u> and deletions are shown <del>lined out</del> below.</i>
2	Info	<b>Vertical Platform Lifts</b>
2.1		Runways shall be installed in accordance with para. 2.1.1, 2.1.2, 2.1.3, or 2.1.4 <u>through 2.1.4, or 2.1.6.</u> Runway construction for lifts that penetrate a floor must comply with para. 2.1.1 and with the building code. Lifts conforming to para. 2.1.4 shall be located in courtroom areas not open to the public and under the supervision of court officials. <u>Lifts conforming to 2.1.6 shall be located in performance areas only.</u>
2.1.7	Info	<b>Partial Runway Enclosure Provided</b>
2.1.2.7		A smooth vertical <del>fascias</del> <u>fascia of unperforated construction</u> shall be <del>securely fastened</del> <u>provided</u> from the top terminal landing sill and any intermediate landing sill <del>to the level of the bottom terminal landing sill.</del> They shall be equal to or stronger than 1.5 mm (0.0598 in.) sheet steel and guard the full width of the platform floor. <del>The fascias shall not be permanently deformed when a force of 550 N (125 lbf) is applied on any 100 mm (4 in.) by 100 mm (4 in.) area.</del> <u>not less than 25 mm (1 in.) below the level of the platform floor on the lower mechanical stop.</u> <u>Where a pit is provided and is less than 25 mm (1 in.) in depth, the surface shall extend to the pit floor.</u> <u>Openings necessary for operation shall reject a ball 12 mm (0.5 in.) in diameter.</u> <u>The surface shall be capable of withstanding a force of 330 N (75 lbf) on a 100 mm x 100 mm (4 in. x 4 in.) surface and have deflection less than 20 mm (0.75 in.) in any location.</u> <u>The surface shall not be permanently deformed when a force of 550 N (125 lbf) is applied on any 100 mm x 100 mm (4 in. x 4 in.) area.</u> <u>Projections from the vertical surface shall not exceed 5 mm (0.20 in.); projections exceeding 2 mm (0.08 in.) shall be beveled at an angle of 15 deg or less to the line of travel.</u> <u>The clearance between the platform edge and the landing sill or any vertical surface of the hoistway shall be not less than 10 mm (0.375 in.) nor more than 20 mm (0.75 in.).</u>
2.1.3	Info	<b>Runway Enclosure Not Provided</b>
2.1.3.3		A smooth vertical fascia shall be provided from the top terminal landing sill and any intermediate landing sill <del>to the level of the bottom terminal landing sill.</del> <del>Openings necessary for operation shall reject a ball 12mm (0.5 in.) in diameter.</del> A device to stop the platform if an object protrudes beyond the platform edge into the running clearance shall be provided if the fascia is perforated. <del>The device used shall be effective for the full width of the platform opening and for the full travel of the platform.</del> The fascia shall be equal to or stronger than 1.5 mm (0.0598 in.) sheet steel and guard the full width of the platform. <del>The surface shall not be permanently deformed when a force of 550 N (125 lbf) is applied on any 100 mm (4 in.) by 100 mm (4 in.) area.</del> <u>not less than 25 mm (1 in.) below the level of the</u>



CLAUSE	VERDICT	COMMENT
		<u>platform floor on the lower mechanical stop. Where a pit is provided and is less than 25 mm (1 in.) in depth, the surface shall extend to the pit floor. Openings necessary for operation shall reject a ball 12 mm (0.5 in.) in diameter. The surface shall be capable of withstanding a force of 330 N (75 lbf) on a 100 mm × 100 mm (4 in. × 4 in.) surface and have deflection less than 20 mm (0.75 in.) in any location. The surface shall not be permanently deformed when a force of 550 N (125 lbf) is applied on any 100 mm × 100 mm (4 in. × 4 in.) area. Projections from the vertical surface shall not exceed 5 mm (0.20 in.); projections exceeding 2 mm (0.08 in.) shall be beveled at an angle of 15 deg or less to the line of travel. The clearance between the platform edge and the landing sill or any vertical surface of the hoistway shall be not less than 10 mm (0.375 in.) nor more than 20 mm (0.75 in.).</u>
2.1.4	Info	<b>Courtroom Lifts</b>
2.1.4.4		<u>A vertical fascia shall be provided from the top terminal landing sill and any intermediate landing sill to the level of the bottom terminal landing sill. Openings necessary for operation shall reject a ball 12 mm (0.5 in.) in diameter. The fascia shall guard the full width of the platform. The surface shall not be permanently deformed when a force of 550 N (125 lbf) is applied on any 100 mm (4 in.) by 100 mm (4 in.) area. The clearance between the vertical fascia and platform edge shall be not less than 10 mm (0.375 in.) nor more than 20 mm (0.75 in.). <u>not less than 25 mm (1 in.) below the level of the platform floor on the lower mechanical stop. Where a pit is provided and is less than 25 mm (1 in.) in depth, the surface shall extend to the pit floor. Openings necessary for operation shall reject a ball 12 mm (0.5 in.) in diameter. The surface shall be capable of withstanding a force of 330 N (75 lbf) on a 100 mm × 100 mm (4 in. × 4 in.) surface and have deflection less than 20 mm (0.75 in.) in any location. The surface shall not be permanently deformed when a force of 550 N (125 lbf) is applied on any 100 mm × 100 mm (4 in. × 4 in.) area. Projections from the vertical surface shall not exceed 5 mm (0.20 in.); projections exceeding 2 mm (0.08 in.) shall be beveled at an angle of 15 deg or less to the line of travel. The clearance between the platform edge and the landing sill or any vertical surface of the hoistway shall be not less than 10 mm (0.375 in.) nor more than 20 mm (0.75 in.).</u></u>
		<b><i>New clause added;</i></b>
2.1.6		<b>Performance Lifts</b>  See standard for details.
2.3	Info	<b>Driving Means and Sheaves</b>
2.3.8		<u>The driving machine and suspension means shall be guarded to prevent accidental contact. Any opening required for operation shall reject a ball 20 mm (0.75 in.) in diameter. Access shall be provided for inspecting and servicing. Any guard(s) required to be removed for inspecting and servicing shall be <del>screwed, locked, or bolted in place.</del> <u>secured in place using tamper-resistant fasteners or other tamper-resistant means.</u></u>



CLAUSE	VERDICT	COMMENT
2.6	Info	<b>Platforms</b>
2.6.2		Added "Enclosures are required on all platforms, except for lifts complying with 2.1.6."  See standard for details.
		<b><i>New clause added;</i></b>
2.6.9		New requirements for use of glass in platform enclosures and in runways.  See standard for details.
2.7	Info	<b>Capacity, Speed, and Travel</b>
2.7.1		The rated load shall be not less than 250 kg (550 lb) nor more than 475 kg (1,050 lb). Platforms with a floor greater than 1.4 m <sup>2</sup> (15 ft <sup>2</sup> ) shall have a rated load of not less than 340 kg (750 lb). Platforms with a floor greater than 1.7 m <sup>2</sup> (18 ft <sup>2</sup> ) shall have a rated load of not less than 475 kg (1,050 lb). The lift shall be capable of sustaining and lowering a load as specified in Fig. 9.7. <u>The rated speed shall not exceed 0.15 m/s (30 ft/min).</u> The rated speed of lifts conforming to 2.1.6 shall not exceed 0.05 m/s (10 ft/min). Travel of lifts conforming to para. 2.1.1 or 2.1.2 shall not exceed 4 250 mm (168 in.). Travel of lifts conforming to para. 2.1.3 or 2.1.5 shall not exceed 1 500 mm (60 in.). Travel of lifts conforming to para. 2.1.4 shall not exceed 600 mm (24 in.). <u>Travel of lifts conforming to 2.1.6 shall not exceed 375 mm (15 in.).</u>
2.10	Info	<b>Operating Devices and Control Equipment</b>
		<b><i>New section added;</i></b>
2.10.10		See standard for details.
3	Info	<b>Runways</b>
3.3	Info	<b>Driving Means and Sheaves</b>
3.3.1	Info	<b>General Requirements</b>
		<b><i>New clause added;</i></b>
3.3.1.7		See standard for details.
3.10	Info	<b>Operating Devices and Control Equipment</b>
		<b><i>New clause added;</i></b>
3.10.10		See standard for details.
3.11	Info	<b>Emergency Signal</b>
		<b><i>New clause added;</i></b>
3.11.3		See standard for details.