



**E1.42 – 2018**  
**Entertainment Technology—**  
**Design, Installation, and Use of Orchestra Pit Lifts**

Approved by the ANSI Board of Standards Review on 06 November 2018

SL/2013-10010r44

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### Interest category codes:

CP = custom-market producer    DE = designer  
DR = dealer rental company    G = general interest  
MP = mass-market producer    U = user

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## Foreword

The purpose of this orchestra pit lift standard is to address single-platform, low-speed orchestra pit lifts installed in performance venues.

At the time of this standard's publication, there are no North American elevator standards that address orchestra pit lift design, construction, operation, or inspection.

Therefore, the hope is that this document will serve as the reference standard for the design, manufacture, installation, and inspection of orchestra pit lifts

This standard does not address the fall hazard presented at the stage edge when the lift platform is lower than stage floor level. An example of a stage edge fall protection plan is included in Annex B.

## Chapter 1 Administration

### 1.1 Scope\*

**1.1.1 Scope.** This standard covers the design, construction, operation, inspection, testing, maintenance, alteration and repair of permanently installed orchestra pit lifts and their associated parts, rooms, spaces, enclosures and hoistways, where located in a theatre or a similar place of public entertainment.

**1.1.1.1 Subsequent inspections\*** after installation are not covered in this standard.

**1.1.2 Equipment covered by this standard.** This standard covers the design, construction, operation, inspection, testing, maintenance, alteration and repair of orchestra pit lift equipment and its associated parts, rooms, spaces, and hoistways:

**1.1.2.1** operating at a speed of 15 feet (4.6 meters) per minute or less;

**1.1.2.2** not designed for passenger use;

**1.1.2.3** not for moving during performances;

**1.1.2.4** providing an orchestra pit performance location on the audience side of a proscenium arch;

**1.1.2.5** providing an extension of the stage as a forestage;

**1.1.2.6** providing an extension of the auditorium floor over the pit.

**1.1.3 Existing equipment\*** Existing orchestra pit lifts that do not comply with the provisions of this standard shall be permitted to be continued in service, provided that the lack of conformity with these documents does not present a serious hazard as determined by the Authority Having Jurisdiction.

**1.1.4 Equipment not covered by this standard.** Equipment not covered by this standard includes, but is not limited to, the following:

**1.1.4.1\*** Integrated payloads, such as chair-wagons, whose design is integrated with the design of the orchestra pit lift.

**1.1.4.2** Orchestra pit lifts designed to work at speeds greater than 15 feet (4.6 meters) per minute.

**1.1.4.3** Orchestra pit lifts with more than one separately movable part.

**1.1.4.4** Permanent stage lifts other than orchestra pit lifts such as piano and organ lifts, sound control cockpit lifts, on-stage lifts, orchestra and choral riser lifts.

**1.1.4.5** Lifts temporarily installed, for example for a single production.

### 1.2 Purpose

**1.2.1 Purpose.** The purpose of this standard is to establish the minimum requirements to safeguard health, safety, and general welfare.

**1.2.2 Alternative designs.** The provisions of this standard are not intended to restrict or prevent the use of alternative designs not specifically described herein, provided that such designs meet or exceed the intent of this standard's requirements.