

**Division 14.20.00 Elevators**

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**Part 1 – General**

- A. Standard applies to passenger elevators.

**Part 2 – Product**

- A. Basis-of-Design Product: Subject to compliance by one of the following:
  - 1. KONE Inc.
  - 2. Otis
  - 3. Schindler Elevator Corp.
- B. Performance Requirements:
  - 1. Regulatory Requirements: Comply with current ASME A17.1/CSA B44, NFPA 80 & NY Building Code.
  - 2. Accessibility Requirements: Comply with Section 407 in the U.S. Architectural & Transportation Barriers Compliance Board's ADA-ABA Accessibility Guidelines and with ICC A117.1.
  - 3. Regenerative systems shall limit total harmonic distortion of regenerated power to 5 percent per IEEE 519.
- C. Design Features:
  - 1. Controls: Shall be NON-PROPRIETARY using open protocol on-board diagnostics requiring no special tools for servicing. MCE or equal.
  - 2. Doors and Frames: Door and frame surfaces to be stainless steel with satin no.4 finish.
  - 3. Cab interiors: Wall panels to be removable 16 gauge textured stainless steel.
  - 4. Floor Finish: One piece heavy duty fusible non-slip material. Altro safety flooring or equivalent.
  - 5. Lighting: LED type with serviceable parts accessible from cab or car top without removing ceiling panel.
  - 6. Emergency & Firefighter Two-Way Communication: Flush mounted, handset-free.
  - 7. Rail Guides: Roller type (shoes not acceptable).
  - 8. Elevator keys: 5-Pin Medeco high security key & cylinder. See following University elevator key switch table for specific requirements. General key assignments as follows:
    - a. M100 for University personnel use functions
    - b. M102 for generator use functions
    - c. M117 for elevator service personnel use functions
    - d. H341 for fire service use functions
    - e. Otis-type dog-leg drop key for hoistway accessNOTE: Medeco key requires a deep back box for the car operating panel to accept key cylinder with switch.

9. Hydraulic Oil: Grade 32 compatible type hydraulic oil.
10. Lift Equipment Location: Locate to be easily accessible from floor level for service.
11. Travelling Cable: Must accommodate all elevator needs plus eight (8) additional conductors for a campus installed card reader and one (1) traveling type cable for closed circuit security camera or communication equipment. Provide an additional 10% spare wires for future use.
12. Call Buttons, Position Indicators & Car Operating Panel Buttons: All buttons and indicators to be lit with LED systems.
13. Door Safety Edges: To be non-proprietary for ease of stocking and replacement by all service providers.

### **Part 3 – Execution**

#### **A. Warranty:**

Contractor Warranty: Include requirements for contractor to maintain, repair, restore, and/or replace elevator work that fails in materials or workmanship within specified warranty period. Failures include, but are not limited to, operation or control system failure, including excessive malfunctions; performances below specified ratings; excessive wear; unusual deterioration or aging of materials or finishes; unsafe conditions; need for excessive maintenance; abnormal noise or vibration; and similar unusual, unexpected, and unsatisfactory conditions.

1. Warranty Period: One (1) year from date of Substantial Completion.
2. Maintenance Service: Provide all required preventative maintenance service during warranty period with monthly service visits . Maintenance service to be based on industry standards and code required inspections and scheduled at a frequency of no less than once per month. All maintenance service to be documented in accordance to code requirements.
3. Callback Service: Provide call-back services with response time of one (1) hour or less.  
NOTE: During normal business hours, at the discretion and direction of the University, the University elevator service mechanic will be authorized to respond to elevator emergencies on warranted elevators to release entrapped passengers or mitigate safety hazard, without making repairs or adjustments.
4. End of Warranty Inspection: Contractor to provide service technician to provide access and operate elevator(s) for annual inspection and end of warranty inspection by University agent(s) and campus service provider.

## University at Albany - Facility Standards

### Elevator Key Switch & Building Knox Box - February 2014

Standard Key Cylinder: Medeco switch lock, 5 pin tumbler high security

Key Switch Function	Key Switch Location	Key Switch Positions	Cylinder Code	Assignment
Service Cabinet Door	in car	open-close	M100	elev. mech. - Plant op's
Access Enable	in service cabinet	on - off	M117	elevator mechanic
Stop	in service cabinet	on - off	M117	elevator mechanic
Inspection	in service cabinet	on - off	M117	elevator mechanic
Hoistway Access	top & botton hallway landing	up-stop/down-off	M117	elevator mechanic
Lights	in service cabinet	on - off	M100	elev. mech. & Plant op's
Fan	in service cabinet	low - off - high OR off - low - high	M100	elev. mech. & Plant op's
Independent Service	in service cabinet	on - off	M100	elev. mech. & Plant op's
Door Hold	in service cabinet	on - off	M100	elev. mech. & Plant op's
Work Light	in service cabinet	on - off	M100	elev. mech. & Plant op's
Fire Service Phase 1	main lobby or fire response floor	on-off-reset	H341	elev. mech. - Plant op's - Fire Dept
Fire Service Panel	in car	open-close	H341	elev. mech. - Plant op's - Fire Dept
Fire Service Phase 2	in fire service panel	on-off	H341	elev. mech. - Plant op's - Fire Dept
generator panel	main lobby	open-close	M102	elev. mech. & Plant op's
generator switch	in generator panel	on-off	M102	elev. mech. & Plant op's
generator selector	in generator panel	auto - 1 - 2 - 3	M102	elev. mech. & Plant op's

#### Knox Box Keys:

Albany Fire Dept key - all buildings except: Indian Quad, SEFCU Arena, Physical Education

McKownville Fire Dept key - Indian Quad, SEFCU Arena, Physical Education

#### Building Knox Box Standard:

- Knox-Box 3200 Series - lift-off type, surface mount, w/ tamper switch, black color, part no. 3202
- quantity & location of Knox box(es) to be determined by UA EH&S on building by building basis
- typical mounting height of Knox box approximately 6' AFF (to be confirmed by EH&S)
- tamper switch to be wired to building fire alarm system to notify central station when activated
- Knox box procurement authorization form to be obtained from UA EH&S