

ASME A17.1

American Society of Mechanical Engineers

ASME A17.1 is the safety code for elevators and escalators: it governs the hoistway, the car and counterweight, the safety devices and the tests the equipment has to pass before it carries anyone. The acceptance test is run by the licensed elevator mechanic and witnessed by the authority having jurisdiction; RTI never certifies an elevator. The field role is to observe and document the install and the conditions around it so the licensed test has a clean record to build on.

What it covers

- Hoistway construction, clearances, pit and overhead space
- Car and counterweight, guide rails, ropes and buffers
- Safeties, governor, and the interlocks on hoistway doors
- Machine room, controller and the disconnect serving it
- The acceptance test regime the licensed mechanic and AHJ carry out

What a field inspection looks at

- Hoistway and pit conditions photographed: clearances, cleanliness and no foreign piping run through the shaft.
- Machine-room access, lighting and disconnect photographed, with the room kept to its dedicated use.
- Door interlocks and the pit stop observed operating, documented as observed rather than certified.
- The acceptance test left to the licensed mechanic and the AHJ; the field record notes the date witnessed, not a result RTI is not permitted to give.
- Any deficiency around the equipment photographed and handed to the licensed mechanic for correction before the test.

Adoption varies by jurisdiction. Confirm the edition your authority having jurisdiction enforces before you run a walk against it.