HydroFit

MACHINE-ROOMLESS
ELEVATOR SYSTEM

Job Site Requirements for General Contractors

HOISTWAY

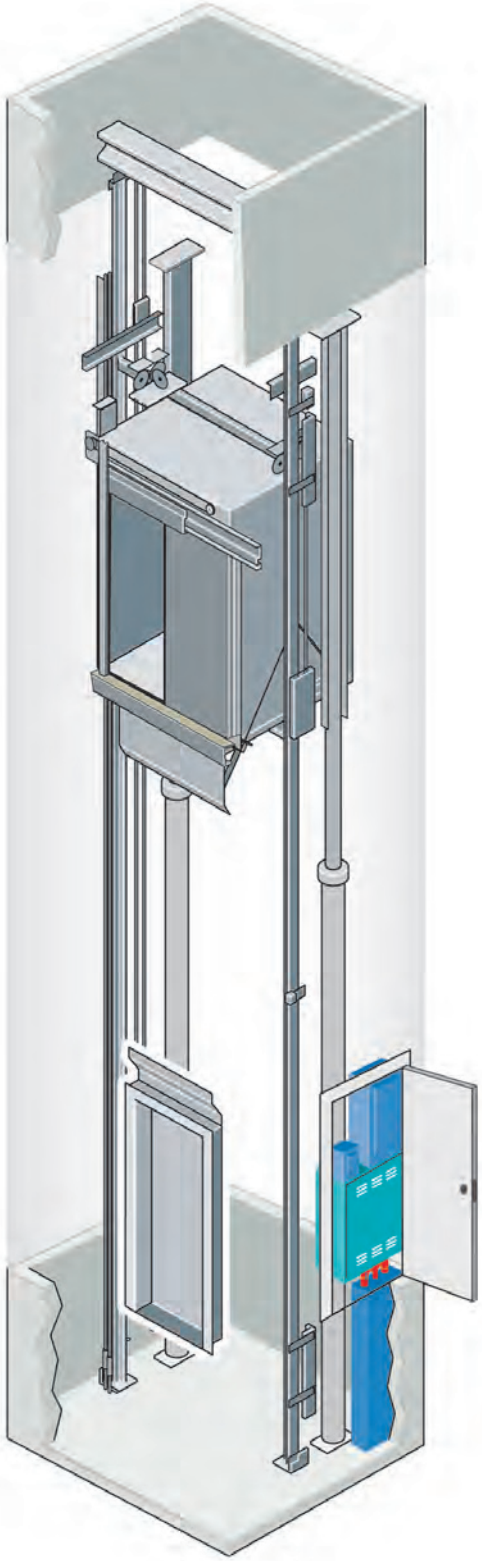
- Hoistway must be constructed per final layout drawings.
- An overhead beam must be provided at the location called out on the hoistway layout and designed to support 5,000 lbs per elevator.
- Provide a clear plumb hoistway. Variations from the size shown on the Otis layout not to exceed -0"/+1" (25mm) and not less than the clear dimensions.
- Prior to start of installation, provide dry, properly framed, enclosed and vented hoistway in accordance with all applicable codes.
- Front entrance wall at main landing is not to be constructed until all elevator equipment is installed in the hoistway.

MACHINE ROOM/SPACE

- Maintain temperature in machine room between 60° F and 100° F or in machine space between 32° F and 104° F. Relative humidity not to exceed 95% non-condensing.
- Install a permanent light fixture in the machine room or at the machine space landing entrance in the hall. Illumination specifications and location of the light switch are shown in the Otis layout.
- Provide fire-rated, self closing door.
- 42" minimum clear space is required in hallway in front of machine space door.
- Machine space door dimensions and location as shown in Otis layout and Confirmation of Access Door Location Document.

PIT

- Pit floor designed to sustain vertical forces on car rails and impact loads on car buffers as shown in Otis layout.
- Pit must be clean and dry prior to start of installation.
- Fixed ladders in each pit as required by governing code. Size of pocket and location as shown per Otis layout.
- Light must have an external guard and be located at a point where illumination on the pit ladder base is no less than 10 foot candles.



SMOKE DETECTORS

- Provide smoke detectors, located as required, with wiring from the sensing devices to the controllers as designated by Otis.
- If sprinklers are installed in the hoistway or machine space, a means to automatically disconnect the main line power supply upon or prior to the application of water is required, unless prohibited by local code.

ELECTRICAL REQUIREMENTS

- Provide a permanent suitable copper 3 phase electrical feeder with separate grounding conductor terminating in machine room/space.
- Disconnects for each elevator must be provided per National Electric Code (NEC) or Canadian Electrical Code (CEC) and located inside machine room/space.
- Provide a 125 volt, 15 amp single phase branch circuit for elevator car/light circuits.
- For machine-roomless applications, install Otis-provided shroud for mounting electrical disconnect(s) behind the 3' x 7' access door. Mainline disconnect to be mounted as shown in Otis General Contractor Guide.
- Provide electric power for lights tools, welding, hoisting, etc.
- Provide one dedicated outside telephone line, per elevator, and terminated at the controller.

BARRICADES MUST MEET OSHA MINIMUM REQUIREMENTS

- Provide guarding and protection of the hoistway during construction.
- Hoistway barricades shall be constructed, maintained, and removed by others.
- Provide a freestanding removable barricade at each hoistway opening at each floor.
- Barricades shall be 42" high, have centerboard and kick board and be able to withstand 200 lbs. of lateral force.
- Provide full entrance screening/mesh in front of all hoistway entrances.

OTIS

Contractor is responsible for all items listed here, the Otis layout page, the Confirmation of Power Supply document, the confirmation of HydroFit machine-roomless access door size and position document, and all code requirements. More stringent local building codes take precedence over elevator code.