Schindler 3300 MRL Traction Elevator
General Purpose

Standard Speeds: 100, 150 fpm (0.5, 0.75 m/s)
Stops, Openings: Max. 10 stops, 15 openings max
Travel: Up to 98’-5” (30.0 m)
Schindler 3300 MRL Traction Elevator
General Purpose

Standard Speeds: 100, 150 fpm (0.5, 0.75 m/s) 16 Openings max
Travel: Up to 98’-5” (30.0 m)

Hatch plans

Front opening
two-speed left opening
(2SSO)

Front opening
two-speed right opening
(2SSO)

Front opening
single-speed center opening
(SSCO)

Front/rear opening
two-speed left opening
(2SSO)

Front/rear opening
two-speed right opening
(2SSO)

Front/rear opening
single-speed center opening
(SSCO)

Hoistways

Front opening

Front/rear opening

Front/rear opening
Machine room-less traction elevator with frequency-controlled drive

Capacity 2100 – 3500 lbs, 13 – 21 passengers

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<tbody>
<tr>
<td>2100 (950)</td>
<td>13</td>
<td>100/150 (.5/.75)</td>
<td>10</td>
<td>15</td>
<td>5’-9 1/2” (1761)</td>
<td>4’-4 7/8” (1343)</td>
<td>7’-9” (2366)</td>
<td>Front or Front/ Rear</td>
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<tr>
<td>2500 (1135)</td>
<td>15</td>
<td>100/150 (.5/.75)</td>
<td>10</td>
<td>15</td>
<td>6’-9 1/2” (2066)</td>
<td>4’-4 7/8” (1343)</td>
<td>7’-9” (2366)</td>
<td>Front or Front/ Rear</td>
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<tr>
<td>3000 (1360)</td>
<td>18</td>
<td>100/150 (.5/.75)</td>
<td>10</td>
<td>15</td>
<td>6’-9 1/2” (2066)</td>
<td>4’-10 7/8” (1495)</td>
<td>7’-9” (2366)</td>
<td>Front or Front/ Rear</td>
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<tr>
<td>3500 (1590)</td>
<td>21</td>
<td>100/150 (.5/.75)</td>
<td>10</td>
<td>15</td>
<td>6’-9 1/2” (2066)</td>
<td>5’-6 7/8” (1699)</td>
<td>7’-9” (2366)</td>
<td>Front or Front/ Rear</td>
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Notes:
All dimensions are for information only and cannot be used for construction purposes without Schindler confirmation.
(i) 2SSO doors available with right or left opening.
(ii) Duplex operation available.
(iii) Areas in seismic zone 2 or greater may require up to 3 1/2” more hoistway width. Please contact your Schindler Sales Representative for details and options.
(iv) Clear overhead is defined from the lowest point below any obstruction such as: hoist beam(s), building beams, or roof structure to floor of top landing.
(v) Where permitted by code, no control closet is required. A 3-phase disconnect must be located in both the hoistway overhead and a location in the building outside of the hoistway. 110v disconnect should be located outside of hoistway. Disconnects are not required to be an elevator-dedicated space. Please confirm with local requirements.
(vi) Travel height max. varies depending on speed (FPM) and capacity (lbs).
(vii) Schindler recommends 8’-6” (2500 – 3500 lbs) and 7’-6” (2100 lbs), providing additional hoistway tolerances.
(viii) Please contact your Schindler Sales Representative for options less than 5’-0.
(ix) Please contact your Schindler Sales Representative for additional hatch options such as diagonal entrances.
(x) Shaft dimensions depend on if there are front or front/rear entrances.
Schindler 3300 MRL Traction Elevator

General Requirements

Requirements for installation vary by type of equipment selected. These general requirements assist you in preparing your building for the installation of Schindler elevators. All designs, clearances, construction, workmanship and materials, unless specifically excepted, shall be in accordance with the requirements of the latest published ASME A17.1 Code for electric traction elevators plus applicable building code and local codes. State or local requirements must be used if more stringent.

Items to be Provided — A complete installation includes the following items not included in the elevator contract:

1. Clear, plumb hoistway, with variations on a minimum dimension hoistway, not exceeding –0" (–25.4 mm) per side at any point. Tolerance may increase to variations not to exceed –1" (–25.4 mm) and +1" (25.4 mm) per side at any point when an additional 2" (50.8 mm) is provided on the hoistway width dimension.

2. Two-hour fire resistance of hoistway walls or rating to meet applicable local codes. 75" level guards on all projections, recessed chairtracks over 4" (102 mm) except on side used for loading or unloading. The overhead machinery space temperature at top of hoistway to be maintained between 41° F (5° C) and 104° F (40° C) and < 95% relative humidity, non-condensing.

3. Supports for rail brackets at pit, each floor and one or two locations above top floor in the hoistway (application dependent). Divider beams between hoistways at each floor level and one or two locations above top floor in the hoistway for guide rail bracket supports. Locate per layout.

4. A temporary work platform is required for installation. It is to be constructed at the top floor of the elevator shaft. Locate per layout. Hoist beam to be left in place after elevator installation.

5. A lockable, 13" x 15" x 3" (minimum), metal cabinet with group-1 key to house required disconnects or circuit breakers may also be located without panels in a Group 2 key-secured control, and a fused disconnect switch or circuit breaker for car lighting for each elevator in a building.

6. Lighting, light switch and duplex receptacle (GFCI) for each elevator, in the center of the hoistway (Continued).

7. Recesses, supports, and patching, as required, to accommodate hall button boxes, signal fixtures, etc. (if required).

8. All barricades outside elevator hoistways or between elevators inside hoistways.

9. Dry pit reinforced to sustain normal vertical forces from rails and buffers.

10. Drains in sumps in elevator pits, where provided, shall comply with the plumbing code, and shall be provided with a positive means to prevent water, gases and odors from entering the hoistway. The cover must be secured and level with the pit floor and located to clear elevator equipment. (Cannot be connected directly to storm drain or sewer.)

11. Pit ladders shall be provided wherever required.

Inspection and Test Panel

12. A switch placed adjacent to the jamb-mounted inspection and test panel enclosure shall control lighting in front of the panel. Minimum lighting to be 200 lux (19 fc).

13. A lockable, 13" x 15" x 3" (minimum), metal cabinet with group-1 key to house required electrical schematics and maintenance history documents, shall be wall mounted, adjacent to the disconnect switch, by others, at the top landing. The supplier, location, and mounting of the cabinet shall be coordinated with Schindler.

14. Provide, preferably on the same floor as the elevator inspection and test panel, a lockable panel with a fused disconnect switch or circuit breaker suitable for 3-phase power for the elevator control, and a fused disconnect switch or circuit breaker for car lighting for each elevator in a separate lockable panel adjacent to the 3-phase panel or within the 3-phase panel. The panel(s) must be accessible to qualified personnel (NEC NFPA req. 620.51[C]) with a Group 2 key (ASME A17.1 req. 8.1.3). Alternative locations for the panel(s) can be considered, provided they are located in accessible areas without obstructions to qualified personnel in compliance with NEC NFPA req. 620.51(C). Locate and mark the panels and disconnects with appropriate signage (ASME A17.1 req. 8.1.3). Alternative locations for the panel(s) can be considered, provided they are located in accessible areas without obstructions to qualified personnel in compliance with NEC NFPA req. 620.51(C). Locate and mark the panels and disconnects with appropriate signage (ASME A17.1 req. 8.1.3).

15. For all power circuits:
   a. If a sprinkler head is located in the hoistway or other disconnect location, any disconnect served by that sprinkler head must be NEMA 3 compliant. Sprinklers shall be located at the top and bottom of the hoistway per NFPA 12-2010 requirement 8.15.5.6 (see also 8.15.5.3 and A.8.15.5.3).
   b. In U.S. jurisdictions ONLY, if a sprinkler head is located in the hoistway, the building shall provide shunt trip activation of a) the main, or b) the feed to the main disconnect, triggered by contacts of the fire recall initiating devices (as defined by NFPA). These devices, located in the hoistway or other disconnect location, shall provide independent disconnection of electrical power to both main and auxiliary power circuits prior to sprinkler activation (ASME A17.1-2007/CSA B44-07 rule 2.8.3. and/or local code).

Control Spaces

16. Enclosed and protected control space at top landing adjacent to the hoistway wall closest to the elevator hoist machine. Two-hour fire rating of control space walls or rating to meet applicable building code and local codes.

17. Provide fire-rated, self-closing, self-locking door. Door must be capable of opening 180 degrees for access to control space.

18. 42" (1067 mm) minimum clear space is required in hallway in front of control space door and top hoistway entrance for service barriers. Additional hallway width may be required, subject to local building, fire and ADA codes.

19. The temperature in front of the control space must be maintained between 32° F (0° C) and 104° F (40° C) and less than 95% relative humidity, non-condensing, for proper operation of equipment.

20. Disconnects for each elevator must be provided per National Electrical Code (NFPA No. 70) and located inside the elevator control space.

Other Wiring

21. Suitable copper feeder, ground and branch wiring circuits for signal system and power operated door. Feeder and branch wiring circuits for car light and fan.

22. Telephone outlet provided at the inspection and test panel or in control closet (where applicable).

23. A conduit and wire runs remote from either the control space or hoistways (if required).

24. Heat, smoke or products of combustion-sensing devices connected to elevator control space terminals when such devices are required. Sprinklers shall be located at the top and bottom of the hoistway per NFPA 13-2010 requirement 8.15.5.6 (see also 8.15.5.3 and A.8.15.5.3). Shunt trip circuit breaker shall also be installed when sprinklers are present in the hoist way.

Emergency Provisions

25. Elevator Firefighter’s and other emergency services, depending on height of the building or number of landings, per ASME A17.1 Rule 2.27.3 and local codes.

26. Elevator firefighter’s and other emergency services’ wiring and interconnections to automatic sprinkler systems or heat and smoke-sensing devices furnished by others.

27. When emergency/standby power operation of elevators is required, the Electrical Contractor should coordinate with Schindler for operation requirements.

28. Provisions for earthquake protection, dictated by building code, are required in various sections of the country.

Entrances

29. Hoistway walls must have a fire rating per ASME A17.1 Rule 2.11.1.

30. Furnishing, installing and maintaining the required fire rating of elevator hoistway walls, including the control spaces and also the penetration of fire wall by elevator fixture boxes (if applicable), is not the responsibility of the elevator contractor.

31. The interface of the elevator wall with the hoistway entrance assembly shall be in strict compliance with the elevator contractor’s requirements.

32. Entrance wall and finished floor are not to be constructed until after door frames and sills are in place.

33. Where openings occur, all walls and sill supports must be plum.

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Schindler is a member organization of the U.S. Green Building Council.

Schindler has received renewal to ISO 9001 and ISO 14001 certificates.

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