

# 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)



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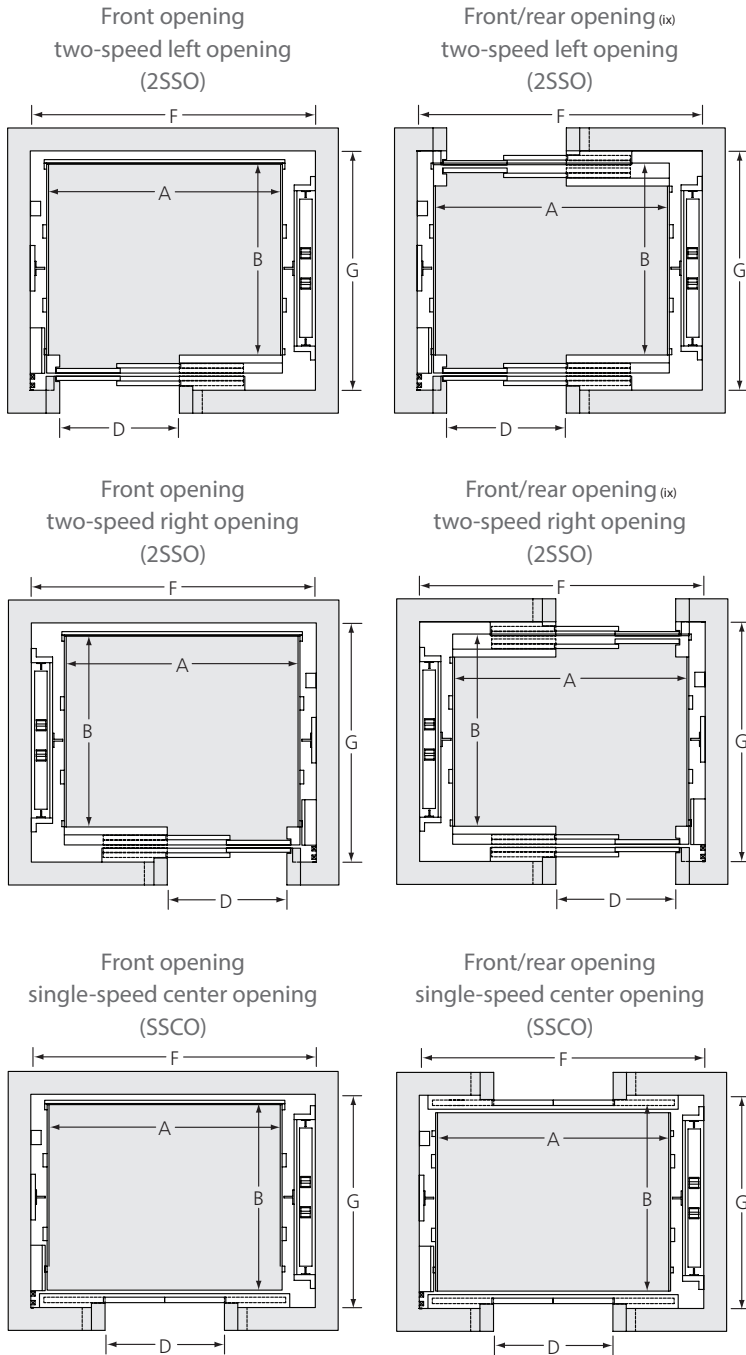
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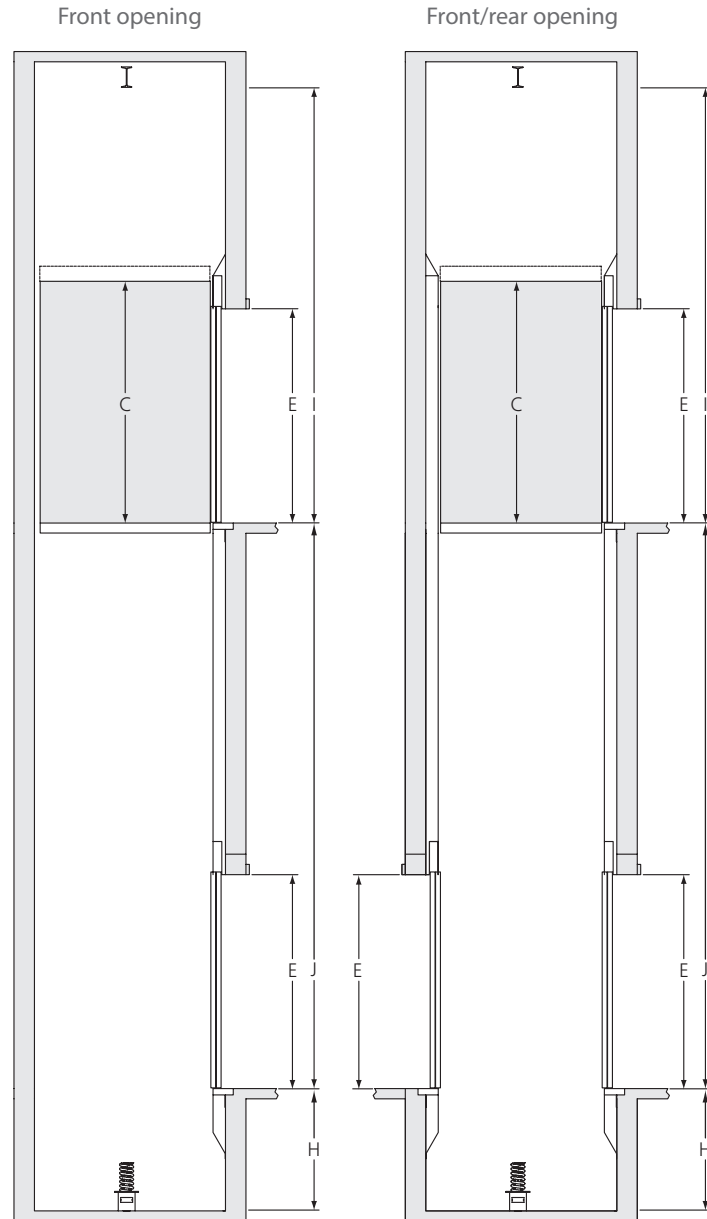
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Hatch plans



Hoistways



Machine room-less traction elevator with frequency-controlled drive

Capacity 2100 – 3500 lbs, 13 – 21 passengers

Capacity  lbs (kg)	Passengers max.	Speed  fpm (m/s)	Number of stops max.	Available entrances max.	Car (Inside)			Door		Shaft (Inside)				Travel height max.  J (vi) ft (m) / FPM (m/s)		
					A in (mm)	B in (mm)	C in (mm)	Door type	D in (mm)	E in (mm)	Entrance type (x)	F (iii)(vii) ft (mm)	G ft (mm)		H (viii) ft (mm)	I (iv) ft (mm)
2100 (950)	13	100/150 (.5/.75)	10	15	5'-9 <sup>5</sup> / <sub>16</sub> " (1761)	4'-4 <sup>7</sup> / <sub>8</sub> " (1343)	7'-9" (2366)	2SSO	3'-0" (915)	7' (2134)	Front or Front/ rear	7'-4" <sup>(vii)</sup> (2235) 7'-4" <sup>(vii)</sup> (2235)	5'-9" (1755) 6'-5 <sup>5</sup> / <sub>8</sub> " (1972)	5'-0" (1524) 5'-0" (1524)	12'-7" (3835) 12'-7" (3835)	98'-5" (30.0) / 150 (.75)
2500 (1135)	15	100/150 (.5/.75)	10	15	6'-9 <sup>5</sup> / <sub>16</sub> " (2066)	4'-4 <sup>7</sup> / <sub>8</sub> " (1343)	7'-9" (2366)	2SSO/ SSCO	3'-6" (1067)	7' (2134)	Front or Front/ rear	8'-4" <sup>(vii)</sup> (2540) 8'-4" <sup>(vii)</sup> (2540)	5'-9" (1755) 6'-5 <sup>5</sup> / <sub>8</sub> " (1972)	5'-0" (1524) 5'-0" (1524)	12'-7" (3835) 12'-7" (3835)	98'-5" (30.0) / 150 (.75)
3000 (1360)	18	100/150 (.5/.75)	10	15	6'-9 <sup>5</sup> / <sub>16</sub> " (2066)	4'-10 <sup>7</sup> / <sub>8</sub> " (1495)	7'-9" (2366)	2SSO/ SSCO	3'-6" (1067)	7' (2134)	Front or Front/ rear	8'-4" <sup>(vii)</sup> (2540) 8'-4" <sup>(vii)</sup> (2540)	6'-3" (1905) 6'-11 <sup>5</sup> / <sub>8</sub> " (2124)	5'-0" (1524) 5'-0" (1524)	12'-7" (3835) 12'-7" (3835)	98'-5" (30.0) / 150 (.75)
3500 (1590)	21	100/150 (.5/.75)	10	15	6'-9 <sup>5</sup> / <sub>16</sub> " (2066)	5'-6 <sup>7</sup> / <sub>8</sub> " (1699)	7'-9" (2366)	2SSO/ SSCO	3'-6" (1067)	7' (2134)	Front or Front/ rear	8'-4" <sup>(vii)</sup> (2540) 8'-4" <sup>(vii)</sup> (2540)	6'-11 <sup>1</sup> / <sub>16</sub> " (2110) 7'-7 <sup>5</sup> / <sub>8</sub> " (2328)	5'-0" (1524) 5'-0" (1524)	12'-7" (3835) 12'-7" (3835)	98'-5" (30.0) / 150 (.75)
					A	Inside cab width		2SSO 2-speed side opening (i)		F				Shaft width		
					B	Inside cab depth		SSCO Singlespeedcenter opening		G				Shaft depth		
					C	Inside cab height to underside of roof. [Inside cab height to finished ceiling is 7'-5 <sup>3</sup> / <sub>16</sub> " (2265).]		D Door Width E Door Height		H				Pit depth		
									I				Overhead			

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.

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### 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 to exceed -0" and +1" (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° bevel guards on all projections, recesses or setbacks 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 overhead (application dependent). Divider beams between hoistways at each floor level and one or two locations above top floor in the overhead for guide rail bracket supports. Locate per layout. For masonry block hoistway construction, Schindler will provide rail bracket inserts for installation by others, located per the Schindler final layout drawings. Where inserts are not used, hollow masonry blocks are not acceptable for bracket fastening. Provide 125 mm (5") concrete belt around hoistway or other acceptable support at each floor, in overhead, and intermediate levels (if required). For max. rail bracket vertical spacing, contact your local sales representative.
4. Supply hoist/safety beam for elevator construction and service work. Beam to run across the width of the elevator shaft. Locate per layout. Hoist beam to be left in place after elevator installation.
5. A temporary work platform is required for installation. It is to be constructed at the top floor of each elevator. It must comply with applicable governing codes and regulations. The platform shall be securely fastened to the building structure. Erection, maintenance, and removal are by others. (Reference Schindler drawing TD440.)
6. Lighting, light switch and duplex receptacle (GFCI) for each elevator, in the center of hoistway pit and in the elevator overhead/machinery space, as indicated by Schindler. The pit light switch located adjacent to access door.
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 & 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 where 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 1/2" x 15 1/2" x 3 1/2" (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 only (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, (NEC NFPA 70 req. 620-22 and 620-51, or CSA C22.1-02 sections 38-022 and 38-053). The disconnects or circuit breakers may also be located without panels in a Group 2 key-secured room identified and dedicated to elevator apparatus only, and in all cases must be capable of being locked in the open position with a lock that cannot be removed from the devices or panel(s). FOR DRIVE IN HOISTWAY CONFIGURATION ONLY: Electrical contractor to supply an additional lockable auxiliary non-fused disconnect in the hoistway at the location of the drive (motor controller), along with wiring from the main disconnect to the auxiliary disconnect (see also NEC NFPA 70 - 2008 req. 620.51(C)(1)). This disconnect must also be lockable in the open position with a secured lock that cannot be removed from the device.

### 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, when a sprinkler head is located in the hoistway, the building shall provide shunt trip activation of a) JH, the main disconnect 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 2.8.3.3. and/or local code).

Control spaces (When specified in lieu of an Inspection and Test Panel, a partial or full body entry space/room shall be provided.)

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 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. All 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 2.1.1.1.
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.
  - a. Where front walls are of reinforced concrete, the concrete openings must be minimum 16" (406 mm) wider [8" (203 mm) on each side] and 8" (203 mm) higher than the clear opening.
  - b. Where drywall or sheet rock construction is used for front walls, it shall be of sufficient strength to maintain the doors in true lateral alignment. Drywall contractor to coordinate with the elevator contractor.  
Note: A support member must be provided for floor heights greater than 15'-0" (4572 mm) to support entrance header struts.
  - c. Door frames are to be anchored to walls and properly grouted in place to maintain legal fire rating (masonry construction).
33. Filling and grouting around entrance by others.
34. Where openings occur, all walls and sill supports must be plumb.

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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.



Schindler prints with vegetable-based ink on paper containing post-consumer waste fiber.