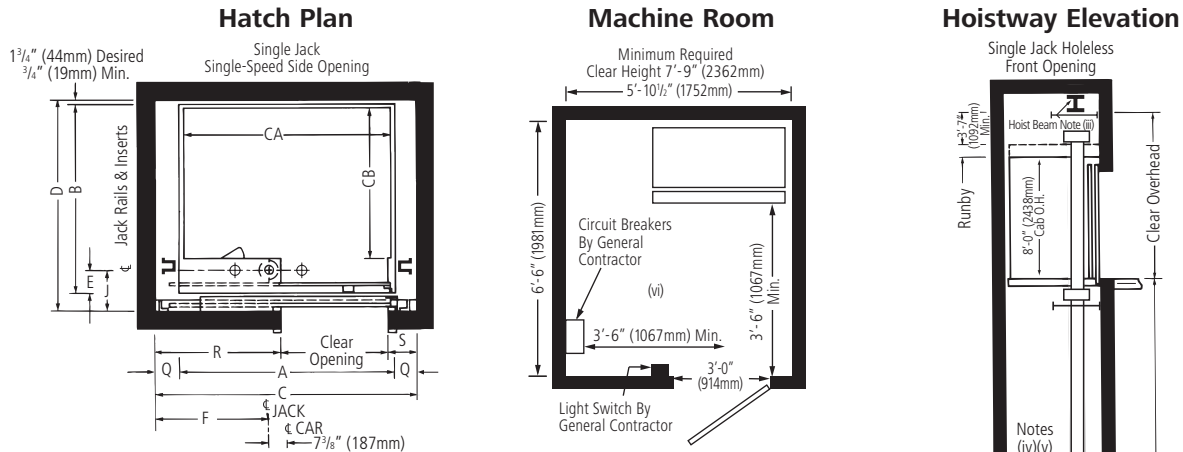


# Schindler 330A Holeless Hydraulic Elevator

## General Purpose, Single Jack, Front Opening

Standard Speeds: 100, 125, 150 fpm (0.5, 0.6, 0.8 m/s). Maximum Openings: 4 Front.



### Notes

- Dimensions shown are for U.S. applications. For specific requirements in Canada, please consult your local Canadian sales office.
- (i) Maximum travel based on 8'-0" (2439mm) high cab, with overhead and pit dimensions as shown in the table.
  - (ii) SSSO doors available with right or left opening.
  - (iii) Hoist beam to be removed by others after elevator installation if minimum cab clearance is not available. Consult your local sales representative for hoist beam requirements.
  - (iv) For maximum car guide rail bracket vertical spacing, consult your local sales representative.
  - (v) Adequate steel or concrete beam or concrete wall supports are required for car guide rail mounting brackets based on elevator shop drawing loadings at each floor per ASME A17.1 Code and CAN/CSA-B44. Mounting and interface between building support and car rail brackets to be in agreement between customer and elevator contractor.
  - (vi) Larger area is required in California or when two or more power units are used for elevators with common machine room.
  - (vii) For 2500lb (1134kg) capacity in seismic zones 0 and 1, 39' (11.9m) travel is achieved with SC02 ceiling (lighter weight). Max travel with heavier ceilings is 27' (8.2m). In seismic zones 2 and greater, max rise with SC02 ceiling is 29' (8.8m). Max travel with heavier ceilings is 20' (6.1m).
  - (viii) For areas in seismic zone 2 or greater, provide additional 2" (50mm) width.

### Dimensions

Capacity lb (kg)	Max. Travel ft (m) (i)	Opening Type (ii)	Clear Opening Width ft (mm)	Platform Size		Min. Clear Cab Inside		Hoistway		E in (mm)	J in (mm)	Q in (mm)	R SSSO Doors in (mm)	S SSSO Doors in (mm)
				A Width ft (mm)	B Depth ft (mm)	CA Width ft (mm)	CB Depth ft (mm)	C Clear Width ft (mm) (viii)	D Wall to Wall ft (mm)					
2100 (952)	41'-0" (12.5)	SSSO	3'-0" (914)	6'-0" (1828)	5'-4" (1626)	5'-8" (1727)	4'-3" (1295)	7'-4" (2235)	6'-0" (1829)	7"	13 1/4" (337)	8" (203)	3'-5 7/8" (1064)	10 1/8" (257)
2500 (1134)	39'-0" (11.9)	SSSO	3'-6" (1067)	7'-0" (2134)	5'-4" (1626)	6'-8" (2032)	4'-3" (1295)	8'-4" (2540)	6'-0" (1829)	7"	13 1/4" (337)	8" (203)	3'-11 7/8" (1216)	10 1/8" (257)

### Minimum Overhead and Pit Requirements

100 fpm (0.5m/s)			125 and 150 fpm (0.6 and 0.8m/s)		
Travel ft (m)	Overhead ft (mm)	Pit ft (mm)	Travel ft (m)	Overhead ft (mm)	Pit ft (mm)
Up to 35'-0" (10.7)	12'-0" (3658)	4'-0" (1219)	Up to 33'-9" (10.3)	12'-3" (3734)	4'-0" (1219)
35'-0" (10.7) to 41'-0" (12.5)**	12'-0" (3658)	4'-0" (1219) [+ 4" (102) for every 1' (305) of travel above 35'-0" (10.7)]*	33'-9" (10.3) to 41'-0" (12.5)**	12'-3" (3734)	4'-0" (1219) [+ 4" (102) for every 1' (305) of travel above 33'-9" (10.3)]*

\* If additional pit is not available, add this dimension to the overhead. Consult your local sales representative if additional overhead and pit are not available.

\*\* 41'-0" (12.5m) maximum standard travel for 2100lb (952kg) model. Consult engineering for greater travel.



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### General Requirements

Requirements for installation vary by type of equipment selected. These general requirements will serve as a guide to assist you in preparing your building for the installation of Schindler elevators.

All designs, clearances, construction, workmanship and materials, unless specifically excepted, is compliant with ASME A17.1-2000, meets or exceeds ASME A17.1, CAN/CSA-B44, ADA requirements, as well as applicable local and national codes.

**Items To Be Provided** — To complete the installation, the following items must be considered, which are not included in the elevator contract:

### Hoistway

1. Clear, plumb hoistway, with variations on a minimum dimension hoistway not to exceed -0" and +1" (25.4mm) per side at any point. Two-hour fire resistance rating of hoistway walls or rating to meet applicable local codes.
2. 75° bevel guards on all projections, recesses or setbacks over 2" (51mm) (ASME A17.1) or 4" 100mm (CAN/CSA-B44) except on side used for loading or unloading.
3. Number of cars in hoistway, minimum size of cars, venting and fire rating of doors and entrances must be specified per applicable Building Code.
4. Supports for rail brackets at pit, each floor and roof. Maximum allowable vertical spacing of rail supports, without backing. Divider beams between hoistway at each floor and roof, for guide rail bracket supports.
5. Light outlet for each elevator, in center of hoistway, pit and machine room, as indicated by your elevator contractor.
6. Recesses, supports, and patching, as required, to accommodate wall mounted hall button boxes, signal fixtures, etc.
7. All barricades either outside elevator hoistways or between elevators inside hoistways as required.
8. Dry pit reinforced to sustain normal vertical forces from rails, jack units and buffers. Pit to be level and free of debris at jack unit and buffer locations. Consult Schindler sales representative for rail forces, jack loads and buffer impacts. Where space below pit floor can be occupied, consult Schindler sales representative for special requirements.
9. Convenience outlet and light fixture in pit with switch located adjacent to access door per ASME A17.1 Rule 2.2.5 and CAN/CSA-B44 2.7.5.
10. Where access to pit is by means of lowest hoistway entrance, vertical ladder of non-combustible material extending 42" minimum above sill of access door or handgrips shall be provided to the same height.
11. Coordinate sump hole location in pit with Schindler representative to avoid interference with jack unit locations.

### Machine Room

12. Enclosed and protected machine room.
13. Access to machine room and machinery space as required by governing code or authority.
14. Lighting, convenience outlets, heating, cooling and ventilation of machine room and machinery space. Machine room temperature to be maintained between 55° F and 90° F (13° C and 32° C). Relative humidity to be maintained at 95% or less non-condensing.
15. A fused disconnect switch for each elevator and light switch located per National Electrical Code, (NFPA No. 70), and where practicable, located inside machine room adjacent to door.
16. Suitable copper feeder, ground and branch wiring circuits for signal system and power operated door, including main line switch. Feeder and branch wiring circuits for car light and fan, including main line switch. Ground fault protection as required by NEC 620-85.
17. Clear access above ceiling, or metal/concrete raceways in floor, for oil line and wiring duct from machine room, if machine room is remote from elevator hoistway.

18. Cutout through machine room wall, 8"x 16" (203mm x 406mm), for oil line and wiring duct. Coordinate with Schindler construction superintendent at building site.
19. Hoisting beams, trap doors, ladders or stairs and other means of access to machine room for maintenance and equipment removal purposes.
20. Convenience outlet and telephone outlet on control panel.
21. All conduit and wire runs remote from either the machine room or the hoistways.
22. Heat, smoke or products of combustion sensing devices connected to elevator machine room terminals when such devices are required. Make contacts on the sensors should be sized for 120 volt D.C.

### Emergency Provisions

23. Elevator Firefighter's and other emergency services are required in certain buildings, depending on height of the building or number of landings.
24. Elevator Firefighter's Service is required per ASME A17.1 Rule 2.27.3 and may be required per CAN/CSA-B44 3.12.15.1.1. Elevator Firefighter's Service wiring and interconnections to automatic sprinkler systems or heat and smoke sensing devices furnished by others. Emergency services may be required by Building Code.
25. When emergency/standby power operation of elevators is required, the Electrical Contractor should coordinate with your elevator contractor for operation requirements.
26. Provisions for earthquake protection, dictated by the Building Codes, may be required. Consult your elevator contractor for special requirements.

### Entrances

27. Hoistway walls are to have a fire-resistance rating in accordance with ASME A17.1 Rule 2.1.1.1.
28. Furnishing, installing and maintaining the required fire rating of elevator hoistway walls, including the penetration of fire wall by elevator fixture boxes, is not the responsibility of the elevator contractor.
29. The interface of the elevator wall with the hoistway entrance assembly shall be in strict compliance with the elevator contractor's requirements.
30. 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" (406mm) wide [8" (203mm) on each side] and 8" (203mm) higher than the clear opening (including transom height).
  - 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 (spreader beam) must be provided for floor heights greater than 12'-0" (3658mm) 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).
31. Filling and grouting around entrance.
32. The use of 18 gauge (.048") materials for doors have UL approval.
33. Where openings occur, all walls and sill supports must be plumb.
34. When sill supports are provided by the elevator manufacturer, hoistway should be capable of accepting anchor stud type fasteners.
35. When fluted steel decking is used under concrete flooring, the concrete must be no less than 4 1/2" (119mm) thick; 2" (51mm) thick for sill angle anchors.

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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.