

OTIS

ELEVATOR PLANNING AND SELECTION GUIDE

14 20 00/OTI
BuyLine 1035

Otis...the global leader in elevator and escalator systems

Planning and design programs to meet every need

Otis Elevator Company, the world's leading manufacturer of elevator and escalator systems, meets the most rigid demands of planning, building and design professionals. We offer you two easy-to-use planning and selection guides:

- **Architect's Assistant** – Available on Otis.com.
This simple, online plug-and-play program will generate customized CSI specifications and CAD drawings. It will help you design and build an elevator that meets building specification and code requirements.
- **Our E-Z Elevator Selection Process**

These two distinct planning and selection tools are designed to help you meet the most demanding project requirements quickly and cost-effectively.

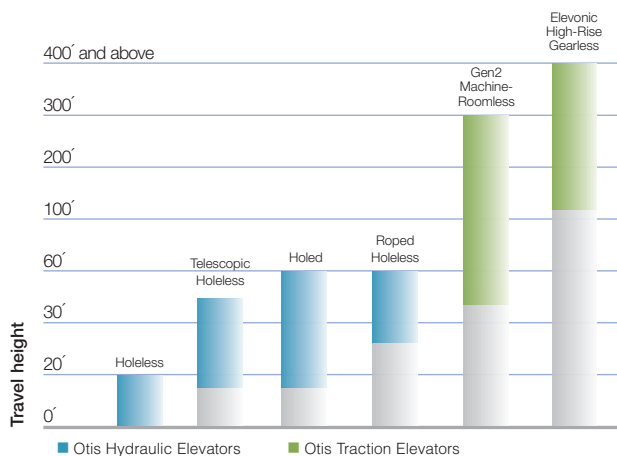
Otis E-Z Elevator Selection Process

Step 1: Travel Height

- Selecting the optimal elevator type for your project depends upon the elevator travel distance
- The chart below identifies Otis elevators most commonly selected for specific travel heights (see product pages in this guide for other criteria):

Elevator Selection Chart

Use this chart to determine which elevators are applicable for specific travel heights. Colors indicate recommended range of minimum and maximum travel height.



Step 2: Elevator Quantity and Size

- These are determined by floor population, building use or building type and national and local codes. Consult with your local Otis representative to have a professional study performed using OtisPlan and Elevating Tool

Refer to Architect's Assistant at Otis.com for additional help in selecting proper size and number of elevators.

Step 3: Hoistway Requirements

- To accommodate heavier reinforcements to rails in seismic zones 2 or greater, additional hoistway space is required

Assess specific requirements by reviewing individual product pages in this guide.

Step 4: Machine/Control Room Requirements

Hydraulic Systems

- Separate machine room required at bottom landing
- Machine room can be located remotely or adjacent to hoistway at bottom landing

Gen2 Machine-Roomless System

- Requires separate control closet/room
- Flexible control closet/room placement—up to 250 feet away from top of hoistway (depending on wiring configuration within the building)

Required dimensions will be found on specific product pages in this guide. Consult your Otis representative for specific requirements.

Step 5: Car Design and Finishes

- Otis offers flexibility in designing and selecting car walls, ceilings, lighting, handrails, bumper rails and fixtures

Travel Height

– Maximum	196 ft @ 200 (ft/min)
	300 ft @ 350 (ft/min)
	300 ft @ 400 (ft/min)
Maximum stops	30
Speed (ft/min)	200, 350, 400, 450, 500

Key Attributes

- No need for a machine room
- Flexible control closet/room placement—up to 250 feet away from top of hoistway
- Regenerative drive delivers up to 75% energy savings by converting normally wasted energy into electricity and feeding it back into the building's power grid
- Machine room version of Gen2 available at speeds up to 500 ft/min
- Optional:
 - Ceiling height of 9'-7"
 - Interior cab design flexibility
 - Glassback¹
 - REM[®] remote elevator monitoring
 - Compass™ destination entry

IMPORTANT: To assist in your planning, we recommend that you call your Otis representative at the beginning of the project.

Dimensions

Front Opening	Passenger elevators					Service elevators			
Rated lbs.	2100 ²	2500	3000	3500	4000	4000H	4500H	5000H	5000H AIA
Passenger Capacity ³	13/12	16/15	20/18	23/21	27/25	27/25	30/28	33/31	33/31

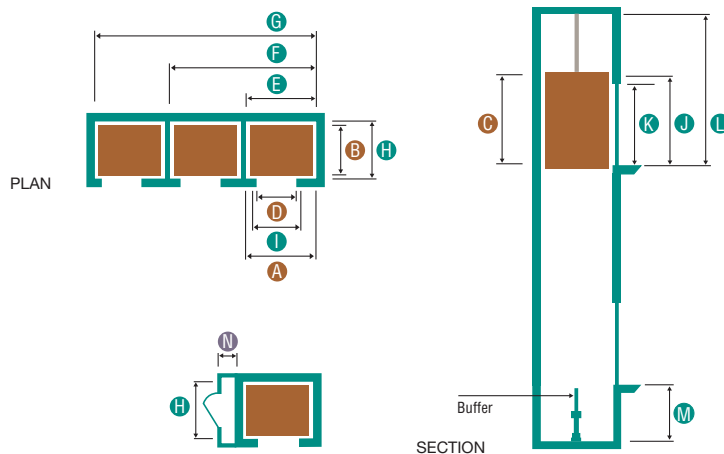
Car ⁴	Passenger elevators		Service elevators		Service elevators		Service elevators		Service elevators	
A Interior width	5'-8"	6'-8 5/16"	6'-8 5/16"	6'-8 5/16"	7'-8 5/16"	5'-8 5/16"	5'-8 5/16"	5'-11 5/16"	5'-8 5/16"	5'-8 5/16"
B Interior depth	4'-3"	4'-3 3/8"	4'-9"	5'-5"	5'-5"	7'-5"	7'-11"	8'-6"	9'-0"	9'-0"
C Interior height ⁵	8'-0" (Optional 9'-7")									
D Car door width	3'-0"	3'-6"	3'-6"	3'-6"	4'-0"	4'-0"	4'-0"	4'-6"	4'-0"	4'-0"

Hoistway	Passenger elevators		Service elevators		Service elevators		Service elevators		Service elevators	
Width										
E Single hoistway ⁶	7'-4"	8'-4"	8'-4"	8'-4"	9'-4"	8'-2"	8'-2"	8'-5"	8'-2"	8'-2"
In seismic zones ⁶	7'-4"	8'-6"	8'-6"	8'-6"	9'-6"	8'-4"	8'-4"	8'-7"	8'-4"	8'-4"
F Double hoistway ⁶	15'-0"	17'-0"	17'-0"	17'-0"	19'-0"	16'-8"	16'-8"	17'-2"	16'-8"	16'-8"
In seismic zones ⁶	15'-0"	17'-4"	17'-4"	17'-4"	19'-4"	17'-0"	17'-0"	17'-6"	17'-0"	17'-0"
G Triple hoistway ⁶	22'-8"	25'-8"	25'-8"	25'-8"	28'-8"	25'-2"	25'-2"	25'-11"	25'-2"	25'-2"
In seismic zones ⁶	22'-8"	26'-2"	26'-2"	26'-2"	29'-2"	25'-8"	25'-8"	26'-5"	25'-8"	25'-8"
H Depth	6'-6"	6'-6"	7'-0"	7'-8 1/2"	7'-8 1/2"	9'-0"	9'-6"	10'-1"	10'-7"	10'-7"
In seismic zones	6'-7 1/2"	6'-7 1/2"	7'-1 1/2"	7'-10"	7'-10"	9'-2"	9'-8"	10'-3"	10'-9"	10'-9"
I Rough opening width	4'-8"	5'-2"	5'-2"	5'-2"	5'-8"	5'-8"	5'-8"	6'-2"	5'-8"	5'-8"
J Rough opening height	7'-10"									
K Clear opening height ⁷	7'-0" (Optional 8'-0")									
L Total overhead for 8'-0" car										
@ 200 ft/min	14'-7"	14'-9 3/16"	14'-9 3/16"	14'-9 3/16"	14'-9 3/16"	14'-9 3/16"	14'-9 3/16"	14'-9 3/16"	14'-9 3/16"	14'-9 3/16"
@ 350 ft/min	15'-3 1/2"	15'-5 9/16"	15'-5 9/16"	15'-5 9/16"	15'-5 9/16"	15'-5 9/16"	15'-5 9/16"	15'-5 9/16"	15'-5 9/16"	15'-5 9/16"
@ 400 ft/min	–	16'-0"	16'-0"	16'-0"	16'-0"	–	–	–	–	–
@ 450 ft/min	–	16'-5"	16'-5"	16'-5"	–	–	–	–	–	–
@ 500 ft/min	–	16'-10"	16'-10"	16'-10"	–	–	–	–	–	–
Total overhead for 9'-7" car										
@ 200 ft/min	–	16'-4 3/16"	16'-4 3/16"	16'-4 3/16"	16'-4 3/16"	16'-4 3/16"	16'-4 3/16"	16'-4 3/16"	16'-4 3/16"	16'-4 3/16"
@ 350 ft/min	–	17'-0 9/16"	17'-0 9/16"	17'-0 9/16"	17'-0 9/16"	17'-0 9/16"	17'-0 9/16"	17'-0 9/16"	17'-0 9/16"	17'-0 9/16"
@ 400 ft/min	–	17'-7"	17'-7"	17'-7"	17'-7"	–	–	–	–	–
@ 450 ft/min	–	18'-0"	18'-0"	18'-0"	–	–	–	–	–	–
@ 500 ft/min	–	18'-5"	18'-5"	18'-5"	–	–	–	–	–	–
M Minimum pit depth										
@ 200 ft/min	4'-11 1/4"									
@ 350 ft/min	5'-5 1/4"									
@ 400 ft/min	–	5'-8"	5'-8"	5'-8"	5'-8"	–	–	–	–	–
@ 450 ft/min	–	6'-9"	6'-9"	6'-9"	–	–	–	–	–	–
@ 500 ft/min	–	6'-9"	6'-9"	6'-9"	–	–	–	–	–	–

Control Closet/Room	Dimensions
N Control closet—simplex ⁸	H x 3'-10" width
Control room—simplex ⁸	H x 5'-9" width
Control room—duplex ⁸	H x 7'-6" width

¹ For glassback dimensions visit Otis.com or contact your Otis representative.
² Maximum travel for 2100 lb. car is 196 ft. @ 200 fpm and 164 ft. @ 350 fpm.
³ Capacity code requirements: US/Canada.
⁴ Interior dimensions may vary depending on interior finishes.
⁵ The 9'-7" car interior height does not apply to the 2100 lb. duty.

⁶ For elevators with occupied space below, this dimension may change. Consult your Otis representative for dimensions.
⁷ The 8'-0" height does not apply to the 2100 lb. duty.
⁸ Please consult your local Otis sales representative regarding smaller dimensions.



Dimensions

Front and Rear Opening

	Passenger elevators				Service elevators			
Rated lbs.	2500	3000	3500	4000	4000H	4500H	5000H	5000H AIA
Passenger Capacity ¹	16/15	20/18	23/21	27/25	27/25	30/28	33/31	33/31

Car²

A Interior width	6'-8 ³ / ₁₆ "	6'-8 ³ / ₁₆ "	6'-8 ³ / ₁₆ "	7'-8 ³ / ₁₆ "	5'-8 ³ / ₁₆ "	5'-8 ³ / ₁₆ "	5'-11 ³ / ₁₆ "	5'-8 ³ / ₁₆ "
B Interior depth	4'-3 ³ / ₄ "	4'-9 ³ / ₈ "	5'-5 ³ / ₈ "	5'-5 ³ / ₈ "	7'-5 ³ / ₈ "	7'-11 ³ / ₈ "	8'-6 ³ / ₈ "	9'-0 ³ / ₁₆ "
C Interior height	8'-0" (Optional 9'-7")							
D Car door width	3'-6"	3'-6"	3'-6"	4'-0"	4'-0"	4'-0"	4'-6"	4'-0"

Hoistway

E Width								
Single hoistway ³	9'-4"	9'-4"	9'-4"	10'-4"	8'-2"	8'-2"	8'-5"	8'-2"
In seismic zones ³	9'-6"	9'-6"	9'-6"	10'-6"	8'-4"	8'-4"	8'-7"	8'-4"
F Double hoistway ³	19'-0"	19'-0"	19'-0"	21'-0"	16'-8"	16'-8"	17'-2"	16'-8"
In seismic zones ³	19'-4"	19'-4"	19'-4"	21'-4"	17'-0"	17'-0"	17'-6"	17'-0"
G Triple hoistway ³	28'-8"	28'-8"	28'-8"	31'-8"	25'-2"	25'-2"	25'-11"	25'-2"
In seismic zones ³	29'-2"	29'-2"	29'-2"	32'-2"	25'-8"	25'-8"	26'-5"	25'-8"
H Depth	6'-2 ¹ / ₈ "	6'-8 ³ / ₄ "	7'-4 ³ / ₄ "	7'-4 ³ / ₄ "	9'-10 ³ / ₈ "	10'-4 ³ / ₈ "	10'-11 ³ / ₈ "	11'-5 ³ / ₁₆ "
In seismic zones	6'-6 ¹ / ₄ "	7'-0 ¹ / ₈ "	7'-8 ¹ / ₈ "	7'-8 ¹ / ₈ "	10'-2 ¹ / ₁₆ "	10'-8 ¹ / ₁₆ "	11'-3 ¹ / ₈ "	11'-9 ¹ / ₁₆ "
I Rough opening width	5'-2"	5'-2"	5'-2"	5'-8"	5'-8"	5'-8"	6'-2"	5'-8"
J Rough opening height	7'-10"							
K Clear opening height	7'-0" (Optional 8'-0")							
L Total overhead for 8'-0" car								
@ 200 ft/min	14'-9 ³ / ₁₆ "							
@ 350 ft/min	15'-5 ³ / ₁₆ "							
@ 400 ft/min	16'-0"	16'-0"	16'-0"	16'-0"	-	-	-	-
@ 450 ft/min	16'-5"	16'-5"	16'-5"	-	-	-	-	-
@ 500 ft/min	16'-10"	16'-10"	16'-10"	-	-	-	-	-
Total overhead for 9'-7" car								
@ 200 ft/min	16'-4 ³ / ₁₆ "							
@ 350 ft/min	17'-0 ³ / ₁₆ "							
@ 400 ft/min	17'-7"	17'-7"	17'-7"	17'-7"	-	-	-	-
@ 450 ft/min	18'-0"	18'-0"	18'-0"	-	-	-	-	-
@ 500 ft/min	18'-5"	18'-5"	18'-5"	-	-	-	-	-
M Minimum pit depth								
@ 200 ft/min	4'-11 ¹ / ₄ "							
@ 350 ft/min	5'-5 ¹ / ₄ "							
@ 400 ft/min	5'-8"	5'-8"	5'-8"	5'-8"	-	-	-	-
@ 450 ft/min	6'-9"	6'-9"	6'-9"	-	-	-	-	-
@ 500 ft/min	6'-9"	6'-9"	6'-9"	-	-	-	-	-

Control Closet/Room

N Control closet—simplex	H x 3'-10" width
Control room—simplex	H x 5'-9" width
Control room—duplex	H x 7'-6" width

¹ Capacity code requirements: US/Canada.

² Interior dimensions may vary depending on interior finishes.

³ For elevators with occupied space below, this dimension may change.

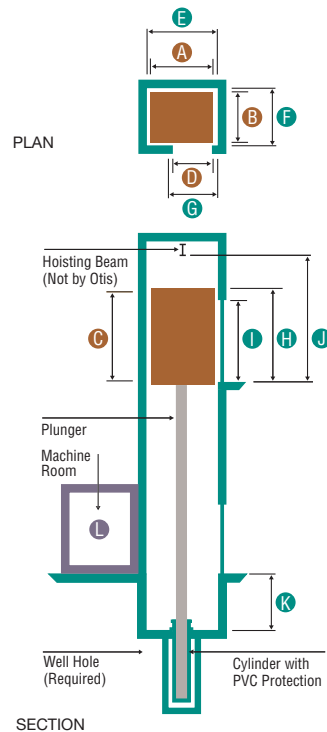
Consult your Otis representative for dimensions.

Holed Hydraulic

Travel Height
 – Maximum 60 ft
 Maximum stops 7
 Speed (ft/min) 100, 125, 150¹

Key Attributes

- Well hole drilling required
- PVC protection surrounds wall and bottom of in-ground cylinder to prevent contact with underground contaminants
- Solid-state starter improves performance through precise control of electric current
- Available in both passenger and service elevator configurations and capacities
- Optional:
 - Front and rear entrances
 - Ceiling height of 9'-7"
 - 8'-0" clear opening
 - Glassback
 - REM[®] remote elevator monitoring



Dimensions	Passenger elevators					Service elevators		
	2000	2100	2500	3000	3500	4500	5000	5000 AIA
Rated lbs.	2000	2100	2500	3000	3500	4500	5000	5000 AIA
Passenger Capacity ²	13/12	13/12	16/15	20/18	23/21	30/28	33/31	33/31
Car³								
A Interior width	5'-8"	5'-8"	6'-8"	6'-8"	6'-8"	5'-8"	5'-11"	5'-8"
B Interior depth	4'-3"	4'-3"	4'-3"	4'-9"	5'-5"	7'-11"	8'-6"	9'-0"
C Interior height	8'-0" (Optional 9'-7")							
D Car door width	3'-0"	3'-0"	3'-6"	3'-6"	3'-6"	4'-0"	4'-6"	4'-0"
Hoistway								
E Width	7'-4"	7'-4"	8'-4"	8'-4"	8'-4"	7'-5"	8'-2"	7'-5"
Width in seismic zones ⁴	7'-6"	7'-6"	8'-6"	8'-6"	8'-6"	7'-7"	8'-4"	7'-7"
F Depth ⁵	5'-9"	5'-9"	5'-9"	6'-3"	6'-11"	9'-8"	10'-3"	10'-9"
G Rough opening width	4'-8"	4'-8"	5'-2"	5'-2"	5'-2"	5'-8"	6'-2"	5'-8"
H Rough opening height	7'-10"							
I Clear opening height	7'-0" (Optional 8'-0")							
J Clear overhead to hoist beam								
@ 100 ft/min	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"	12'-0"	12'-5"	12'-0"
@ 125 ft/min	12'-3"	12'-3"	12'-3"	12'-3"	12'-3"	12'-3"	12'-8"	12'-3"
@ 150 ft/min	12'-3"	12'-3"	12'-3"	12'-3"	12'-3"	12'-3"	12'-8"	12'-3"
K Minimum pit depth	4'-0" (5'-0" for Canadian Province of Ontario)							
Machine Room								
L Number of elevators in group	1		2		3		4	
Width x depth	5'-9" x 7'-4"		11'-6" x 8'-6"		17'-0" x 8'-6"		22'-0" x 8'-6"	

¹ Rise may be limited for larger duties at 150fpm, consult your local Otis Representative for details.

² Capacity code requirements: US/Canada.

³ Interior dimensions may vary depending on interior finishes.

⁴ In seismic zones 2 or greater.

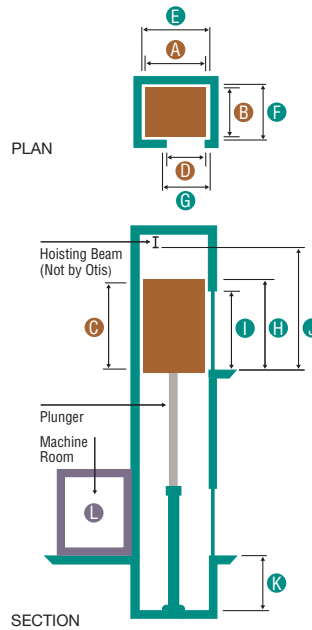
⁵ For cars with front and rear doors, add 5/8" to depth for 2000 to 3500 lb. capacities; add 8/4" for 4500 and 5000 lb. capacities.

Holeless Hydraulic

Travel Height
 – Maximum 20 ft
Maximum stops 3
Speed (ft/min) 100, 125

Key Attributes

- No need for well hole drilling and its associated costs
- Above-ground solution substantially reduces risk of soil and ground water contamination
- Applicable for:
 - Hazard-sensitive sites
 - Waterfront sites
 - Existing buildings
- Available in both passenger and service elevator configurations and capacities
- Solid-state starter improves performance through precise control of electric current
- Optional:
 - Front and rear entrances
 - Ceiling height of 9'-7"
 - 8'-0" clear opening
 - Glassback
 - REM® remote elevator monitoring



Dimensions	Passenger elevators					Service elevators		
Rated lbs.	2000	2100	2500	3000	3500	4500	5000	5000 AIA
Passenger Capacity ¹	13/12	13/12	16/15	20/18	23/21	30/28	33/31	33/31
Car²								
A Interior width	5'-8"	5'-8"	6'-8"	6'-8"	6'-8"	5'-8"	5'-11"	5'-8"
B Interior depth	4'-3"	4'-3"	4'-3"	4'-9"	5'-5"	7'-11"	8'-6"	9'-0"
C Interior height	8'-0" (Optional 9'-7")							
D Car door width	3'-0"	3'-0"	3'-6"	3'-6"	3'-6"	4'-0"	4'-6"	4'-0"
Hoistway								
E Width	7'-4"	7'-4"	8'-4"	8'-4"	8'-4"	7'-7"	8'-4"	7'-7"
Width in seismic zones ³	7'-6"	7'-6"	8'-6"	8'-6"	8'-6"	7'-7"	8'-4"	7'-7"
F Depth ⁴	5'-9"	5'-9"	5'-9"	6'-3"	6'-11"	9'-8"	10'-3"	10'-9"
G Rough opening width	4'-8"	4'-8"	5'-2"	5'-2"	5'-2"	5'-8"	6'-2"	5'-8"
H Rough opening height	7'-10"							
I Clear opening height	7'-0" (Optional 8'-0")							
J Clear overhead to hoist beam								
@ 100 ft/min	12'-4"	12'-4"	12'-4"	12'-4"	12'-4"	12'-4"	12'-5"	12'-4"
@ 125 ft/min	12'-7"	12'-7"	12'-7"	12'-7"	12'-7"	12'-7"	12'-8"	12'-7"
K Minimum pit depth ⁵	4'-0" (5'-0" for Canadian Province of Ontario)							
Machine Room								
L Number of elevators in group	1		2		3		4	
Width x depth	5'-9" x 7'-4"		11'-6" x 8'-6"		17'-0" x 8'-6"		22'-0" x 8'-6"	

¹ Capacity code requirements: US/Canada.

² Interior dimensions may vary depending on interior finishes.

³ In seismic zones 2 or greater.

⁴ For cars with front and rear doors, add 5/8" to depth for 2000 to 3500 lb. capacities; add 8/4" for 4500 and 5000 lb. capacities.

⁵ Pit depth changes based on speed: For 100 fpm, pit depth increases 1" in depth for each 1" increase in rise over 13'-7" up to 20'-0".

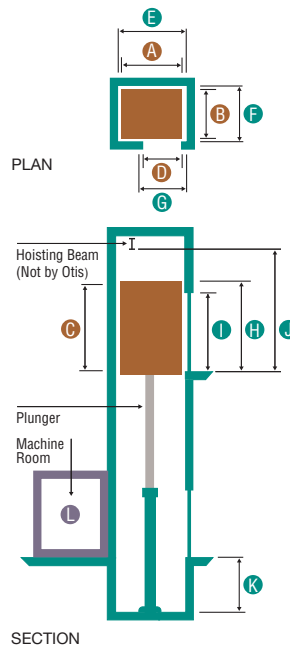
For 125 fpm, pit depth increases 1" in depth for each 1" increase in rise over 12'-8" up to 20'-0".

Telescopic Holeless Hydraulic

Travel Height
 – Maximum 44 ft 1 in
Maximum stops 5
Speed (ft/min) 100, 125

Key Attributes

- No need for well hole drilling and its associated costs
- Above-ground solution substantially reduces risk of soil and ground water contamination
- Applicable for:
 - Hazard-sensitive sites
 - Waterfront sites
 - Existing buildings
- Available in passenger elevator configurations and capacities only
- Solid-state starter improves performance through precise control of electric current
- Optional:
 - Front and rear entrances
 - Ceiling height of 9'-7"
 - 8'-0" clear opening
 - Glassback
 - REM® remote elevator monitoring



Dimensions

Passenger elevators

Rated lbs.	2000	2100	2500	3000	3500
Passenger Capacity ¹	13/12	13/12	16/15	20/18	23/21
Car²					
A Interior width	5'-8"	5'-8"	6'-8"	6'-8"	6'-8"
B Interior depth	4'-3"	4'-3"	4'-3"	4'-9"	5'-5"
C Interior height	8'-0" (Optional 9'-7")				
D Car door width	3'-0"	3'-0"	3'-6"	3'-6"	3'-6"
Hoistway³					
E Width (rise up to 30 ft 1 in)	7'-4"	7'-4"	8'-4"	8'-4"	8'-4"
Width (rise up to 30 ft 1 in) in seismic zones ⁴	7'-6"	7'-6"	8'-6"	8'-6"	8'-6"
Width (rise over 30 ft 1 in)	7'-10"	7'-10"	8'-10"	8'-10"	8'-10"
F Depth ⁵	5'-9"	5'-9"	5'-9"	6'-3"	6'-11"
G Rough opening width	4'-8"	4'-8"	5'-2"	5'-2"	5'-2"
H Rough opening height	7'-10"				
I Clear opening height	7'-0" (Optional 8'-0")				
J Clear overhead to hoist beam (rise up to 30 ft 1 in)					
@ 100 ft/min	12'-8"				
@ 125 ft/min	12'-11"				
Clear overhead to hoist beam (rise over 30 ft 1 in)					
@ 100 ft/min	13'-0"				
@ 125 ft/min	13'-2"				
K Minimum pit depth ⁶	4'-0" (5'-0" for Canadian Province of Ontario) to 7'-6" depending on rise				
Machine Room					
L Number of elevators in group	1	2	3	4	
Width x depth	5'-9" x 7'-4"	11'-6" x 8'-6"	17'-0" x 8'-6"	22'-0" x 8'-6"	

¹ Capacity code requirements: US/Canada.

² Interior dimensions may vary depending on interior finishes.

³ A 3-stage plunger may require additional hoistway width. Contact your local Otis representative.

⁴ In seismic zones 2 or greater. Please consult your local Otis representative.

⁵ For cars with front and rear doors add 5/8" to depth.

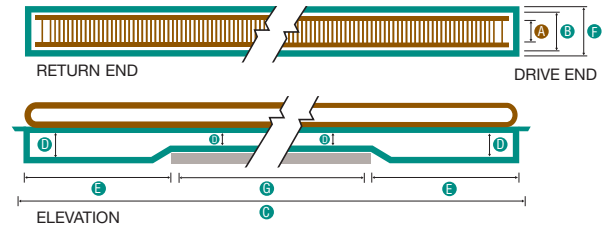
⁶ Maximum rise with 4'-0" pit depth is 34'-4". Consult Otis.com or your local Otis representative.

Moving Walks

Maximum travel 263 ft (NCT Model)
 394 ft (NPT Model)

Key Attributes

- Maximum safety, reliability and efficiency
- Wide range of finishes, pallet widths and optional features
- Commercial applications including shopping centers, casinos, airports



Dimensions

NCT Model	60640	60648	
A Pallet width	32"	40"	
B Finish width	4'-7"	5'-3"	
C Maximum length	263'-0"	263'-0"	
D Minimum pit depth (at ends)	3'-5 5/8"	3'-5 5/8"	
Minimum pit depth (at middle)	1'-7 1/16"	1'-7 1/16"	
E Minimum pit opening (return)	17'-8 5/8"	17'-8 5/8"	
Minimum pit opening (drive)	19'-4 1/4"	17'-8 5/8"	
F Minimum rough opening	4'-10 1/8"	5'-6 7/8"	
G Maximum length between two intermediate supports	32'-9 3/4"	32'-9 3/4"	
NPT Model	61048	61056	61064
A Pallet width	40"	48"	56"
B Finish width	5'-5"	6'-1"	6'-9"
C Maximum length	394'-0"	394'-0"	394'-0"
D Minimum pit depth (at ends)	3'-11 1/8"	3'-11 1/8"	3'-11 1/8"
Minimum pit depth (at middle) ¹	1'-4 7/2'-0 3/4"	1'-4 7/2'-2 3/4"	1'-4 7/2'-4 3/4"
E Minimum pit opening (return)	20'-3 1/2"	20'-3 1/2"	20'-3 1/2"
Minimum pit opening (drive)	20'-3 1/2"	20'-3 1/2"	20'-3 1/2"
F Minimum rough opening	5'-8 7/8"	6'-4 1/8"	7'-0 1/8"
G Maximum length between two intermediate supports ¹	22'-11 1/2" / 32'-9 3/4"	21'-4" / 32'-9 3/4"	19'-8 1/4" / 32'-9 3/4"

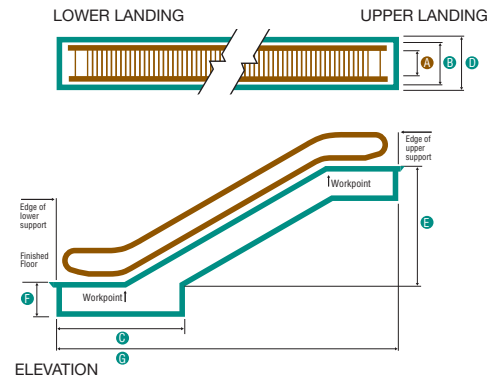
¹Right-hand number is optional increase of distance between intermediate supports.

Escalators

Maximum rise 39 ft 4 1/8 in

Key Attributes

- A highly-efficient system maintains proper lubrication to all vital components while utilizing 98% less oil than conventional systems.
- Eta plus power monitoring system controls the escalator's motor torque based on load resulting in an overall reduction in energy use.
- Several aesthetic and lighting options available. Contact your Otis Representative for details.



Dimensions¹

508 NCE Model	50824	50832	50840
A Step width	24"	32"	40"
B Finish width	3'-9"	4'-5"	5'-1"
C Minimum pit opening	14'-6 7/16"	14'-6 7/16"	14'-6 7/16"
D Minimum rough opening	3'-11 13/16"	4'-7 13/16"	5'-3 3/4"
E Maximum rise	26'-2 13/16"	26'-2 13/16"	26'-2 13/16"
Minimum rise	4'-11 1/16"	4'-11 1/16"	4'-11 1/16"
F Minimum pit depth	3'-5 9/16"	3'-5 9/16"	3'-5 9/16"
G Beam-to-beam calculation ²	1.732 x E + 16'-2 1/16"	1.732 x E + 16'-2 1/16"	1.732 x E + 16'-2 1/16"
512 NCE Model	51224	51232	51240
A Step width	24"	32"	40"
B Finish width	3'-9"	4'-5"	5'-1"
C Minimum pit opening	14'-7 7/16"	14'-7 7/16"	14'-7 7/16"
D Minimum rough opening	4'-0 3/16"	4'-8 3/16"	5'-4 7/16"
E Maximum rise	39'-4 7/16"	39'-4 7/16"	39'-4 7/16"
Minimum rise	26'-3"	26'-3"	26'-3"
F Minimum pit depth	3'-5 9/16"	3'-5 9/16"	3'-5 9/16"
G Beam-to-beam calculation ³	1.732 x E + 17'-0"	1.732 x E + 17'-0"	1.732 x E + 17'-0"

¹ Dimensions listed assume 2 flat steps, 480V power and installation under non-seismic conditions

² If "G" exceeds 58'-8", an intermediate support is required.

³ Intermediate support required.

United States

Alabama	Birmingham Mobile	(205) 982-8000 (251) 433-0034
Alaska	Anchorage	(907) 278-4575
Arizona	Phoenix	(602) 431-1181
Arkansas	Fayetteville Little Rock	(479) 521-5750 (501) 312-7600
California	Anaheim Los Angeles North Highlands San Diego San Francisco Sunnyvale	(714) 758-9593 (323) 342-4500 (916) 344-2080 (858) 560-5881 (415) 546-0880 (408) 328-0330
Colorado	Colorado Springs Denver	(715) 594-4931 (303) 298-9300
Connecticut	East Hartford Shelton	(860) 289-7600 (203) 944-0160
Delaware	Wilmington (Moorestown, NJ)	(856) 235-5200
Florida	Ft. Lauderdale / W. Palm Beach Jacksonville Miami Lakes Orlando Pensacola Sarasota Tampa	(954) 485-6501 (904) 296-6847 (305) 816-5740 (407) 438-3633 (850) 473-1244 (941) 342-4900 (813) 251-1841
Georgia	Atlanta Savannah	(404) 355-1991 (912) 201-0461
Hawaii	Honolulu	(808) 599-1111
Illinois	Chicago Lombard Peoria Springfield	(312) 454-1616 (630) 889-2800 (309) 693-8131 (217) 544-4633
Indiana	Evansville Indianapolis	(812) 471-9770 (317) 347-2015
Iowa	Urbandale	(515) 270-2066
Kansas	Kansas City Wichita	(913) 621-8800 (316) 682-6886
Kentucky	Louisville	(502) 491-3636
Louisiana	Metairie (New Orleans) Shreveport	(504) 846-2300 (318) 636-7422
Maine	Westbrook (Portland)	(207) 856-2737
Maryland	Landover Linthicum (Baltimore)	(301) 324-4140 (410) 636-5700
Massachusetts	Needham (Boston) Springfield Worcester	(781) 433-8600 (413) 733-5115 (508) 757-4597
Michigan	Farmington Hills Grand Rapids	(248) 473-4530 (616) 975-3022
Minnesota	Roseville (Minneapolis)	(651) 697-7800
Mississippi	Metairie (LA)	(504) 846-2300
Missouri	Springfield St. Louis	(417) 889-5515 (314) 533-7070
Nebraska	Omaha	(402) 733-2910
Nevada	Las Vegas Reno	(702) 740-4777 (775) 322-5411
New Jersey	Fairfield Moorestown	(973) 575-8670 (856) 235-5200
New Mexico	Albuquerque	(505) 345-8189
New York	Albany Buffalo East Syracuse New York Plainview Yonkers	(518) 426-4006 (716) 686-5370 (315) 463-6615 (917) 339-9600 (516) 349-9225 (914) 375-7800
North Carolina	Charlotte Raleigh	(704) 519-0100 (919) 781-1555
North Dakota	Fargo	(701) 232-3384

Ohio	Cincinnati Cleveland Columbus	(513) 531-7888 (216) 573-2333 (614) 777-6500
Oklahoma	Oklahoma City Tulsa	(405) 631-0912 (918) 584-3678
Oregon	Portland	(503) 639-7045
Pennsylvania	Allentown Harrisburg Philadelphia (Moorestown, NJ) Pittsburgh	(610) 366-8990 (717) 561-1290 (856) 235-5200 (412) 281-9292
Rhode Island	Smithfield	(401) 232-7282
South Carolina	Greenville Myrtle Beach North Charleston West Columbia	(864) 675-9400 (843) 448-4471 (843) 529-9502 (803) 739-8013
Tennessee	Chattanooga Knoxville Memphis Nashville	(423) 899-6633 (865) 525-0282 (901) 527-0291 (615) 254-3496
Texas	Dallas El Paso Fort Worth Houston San Antonio/Austin	(214) 741-6207 (915) 775-0847 (817) 284-6434 (713) 524-8486 (210) 490-4960
Utah	Salt Lake City	(801) 486-9295
Vermont	Burlington	(802) 863-3675
Virginia	North VA (Lorton, VA) Richmond Roanoke Virginia Beach	(571) 642-2100 (804) 213-0975 (540) 983-4640 (757) 456-0801
Washington	Seattle Spokane	(206) 285-2285 (509) 483-7328
Washington D.C.	D.C. (Landover, MD)	(301) 324-4140
West Virginia	Charleston	(304) 965-2780
Wisconsin	Kaukauna Madison Milwaukee	(920) 766-2900 (608) 249-3322 (262) 240-3400

Bahamas

Nassau	(242) 393-1885
--------	----------------

Canada

Alberta	Calgary Edmonton	(403) 244-1040 (780) 444-2900
British Columbia	Vancouver	(604) 412-3400
Manitoba	Winnipeg	(204) 783-0464
New Brunswick	Saint John	(902) 481-8200
Newfoundland	St. John's	(709) 576-4110
Northwest Territories	Ottawa	(613) 737-7709
Nova Scotia	Dartmouth	(902) 481-8200
Ontario	Hamilton Mississauga Ottawa	(905) 578-6277 (905) 276-5577 (613) 737-7670
Prince Edward Island	Dartmouth	(902) 481-8200
Quebec	Montreal Quebec City	(514) 489-9781 (418) 687-4848
Saskatchewan	Regina Saskatoon	(306) 352-3072 (306) 664-2939

Guam

Tamuning	(671) 647-6847
----------	----------------

Puerto Rico & Virgin Islands

San Juan	(787) 765-4969
----------	----------------


Otis

A United Technologies Company

 On the cover:
Newseum, Washington D.C.

 GEN-1127 (0909)
©Otis Elevator Company 2010
All rights reserved