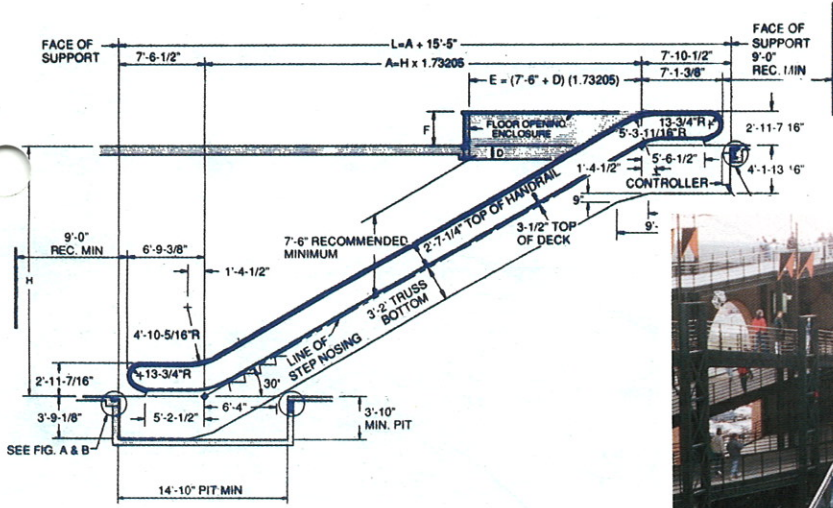
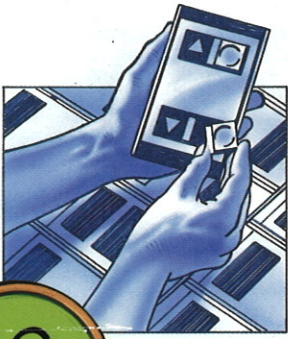


montgomery®
ELEVATORS ESCALATORS
POWER WALKS POWER RAMPS

WHERE THERE IS HEAVY
PEDESTRIAN TRAFFIC, MONTGOMERY
ESCALATORS, POWER WALKS, AND
POWER RAMPS ARE THE EFFICIENT
SOLUTION TO A PEOPLE MOVING
PROBLEM.



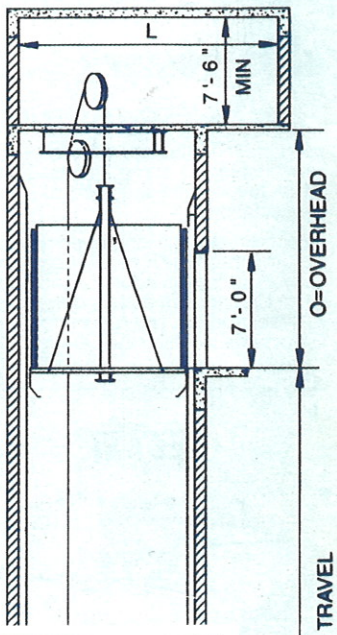
SINCE 1892, OUR INNOVATIONS
AND QUALITY DEDICATION
HAVE MEANT THE FINEST
EQUIPMENT... MOVING PEOPLE
EFFICIENTLY AND SAFELY.



MONTGOMERY OFFERS THE MOST
COMPLETE ELEVATOR SIGNAL
FIXTURE PRODUCT LINE IN THE
INDUSTRY. IT IS MADE UP OF
THREE DISTINCT FIXTURE
SYSTEMS... CONVENTIONAL,
VECTOR® AND SELECT.™



HOISTWAY ENTRANCES ARE A
NECESSITY FOR PASSENGER
ELEVATORS. MONTGOMERY
ENTRANCES BLEND WITH
LOBBY DESIGN TO CREATE THE
MOOD INTENDED.



1993

ARCHITECTURAL
PLANNING GUIDE



excellence at every level

Montgomery is a corporation devoted to **excellence at every level**. We have chosen one industry in which to invest our time and our dedication. We design, sell, manufacture, install, modernize and service *vertical transportation products*.

Our complete product line includes Passenger, Service & Freight Elevators (Gearless & Geared Traction and Hydraulic), Escalators, Power Walks, Power Ramps, specialized lift equipment, Preventive Maintenance Service and Modernization products.

Montgomery professionals are located in over 60 fully staffed Montgomery sales and construction offices and over 225 separate service locations throughout the U.S. Regardless of the diverse regimens of our people, you will find that they form a cohesive group dedicated to providing excellent products at a fair price.

montgomery® Advanced Vertical Transportation Products

Since 1892, Montgomery customers have been the beneficiaries of our investment in the latest advancements in technology and our dedication to the highest standards of quality in the design and the manufacture of *vertical transportation equipment*. We absolutely believe that all of our advancements and our technical excellence must *support our customers*. Our designs must work to the highest standards of our company and in complete fulfillment of our customers' expectations.

Montgomery has long been recognized as a pioneer in many new concepts and application approaches which have become industry standards. We continue to expand the family of advanced power controls and programmable logic controls along with products incorporating 21st Century component designs...advanced components designed to create advanced products. These products provide performance and service value. Montgomery products add value to the structures in which they are installed.

All of us at Montgomery invite you to call upon us for our professional services. We enjoy our work and are confident you will enjoy working with us.



Elevator Fixture System



Elevator Fixture System



Standard/Steel Passenger Elevator Enclosure



Geared Traction Passenger Elevator System



Geared Traction Passenger Elevator System



Holeless Hydraulic Passenger Elevator System



Inground Hydraulic Passenger Elevator System



Reprogrammable Microcomputer Elevator Control System



Solid State High Performance D.C. Power Control



A complete *Miprom 21™* Elevator Control System, utilizing generator field control (also available for modernizations).



A complete *Miprom 21™* Elevator Modernization package, including *ULTRON®* Drive.



The complete Logic Control features of *Miprom 21™* for use as a Modernization overlay product.



Interactive Performance Display (The newest element of M-Net™)

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ACCESSIBILITY REQUIREMENTS

Elevator configurations and corresponding dimensions are in accordance with Montgomery Elevator Company's interpretation of the standards set forth by ANSI, NEII and also the ADA (Americans with Disabilities Act). Additionally, accessibility standards include the placement of car controls, hall buttons, intercommunication equipment, tactile markings, handrails in elevator cabs, audible signals, etc. We encourage you to consult with your local Montgomery Professional for more specific information pertaining to your project, including any deviation between referenced standards and those of any local codes or laws.

PROFESSIONAL SERVICES

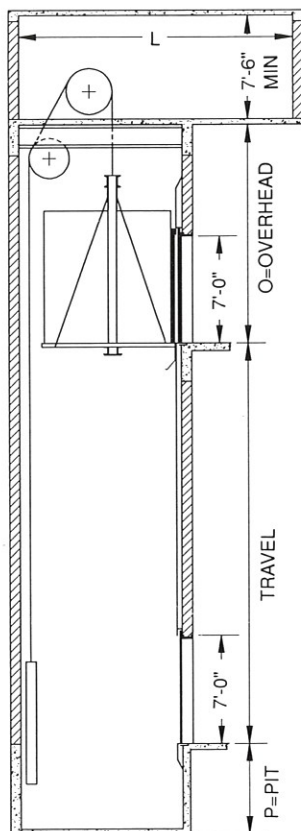
Because of space restrictions within this publication, you are invited to call upon your Montgomery Sales Professional for supplementary information not included within this catalog. Additionally, please call on us to provide other Professional Services, including:

- Equipment application analysis
- Preliminary layout information
- Elevator/Escalator traffic analysis
- Specific product line literature
- Approval/layout information
- Specification writing
- Preventive Maintenance service analysis
- Modernization application analysis
- Budget pricing

TRACTION PASSENGER ELEVATORS

High Speed:

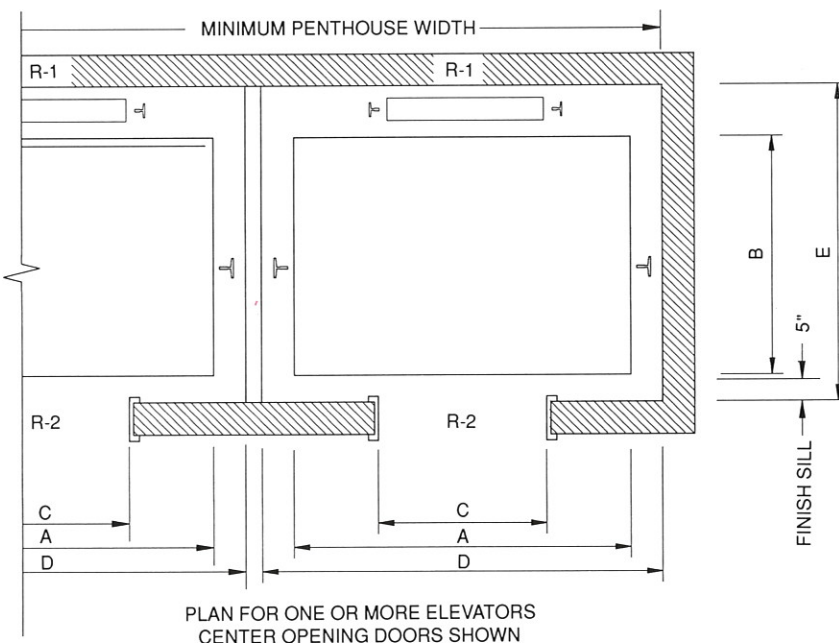
High-Speed Traction Elevators meet the need for high quality performance with speeds to 1200 FPM. Heavy traffic demands are served by MIPROM 21™ Microcomputer Group Logic Systems.



Moderate Speed:

Moderate Speed Traction Elevators perform efficiently and economically when serving traffic demands in medium and low rise buildings.

For national standards and accessibility requirements see page 2.



RECOMMENDED SIZES AND CAPACITIES

RECOMMENDED SIZES AND CAPACITIES				
BUILDING TYPE	SMALL OFFICE	AVERAGE OFFICE OR HOTEL		LARGE OFFICE OR STORE
CAPACITY	2000#◆	2500#◆◆	3000#◆◆◆	3500#◆◆◆◆
A	6' - 0"	7' - 0"	7' - 0"	7' - 0"
B	5' - 0"	5' - 0"	5' - 6"	6' - 2"
C	3' - 0"	3' - 6"	3' - 6"	3' - 6"
D	7' - 4"	8' - 4"	8' - 4"	8' - 4"
E	6' - 10"	6' - 10"	7' - 4"	8' - 0"

NOTES:

- ◆ Duties noted conform to Montgomery *system 90s* standard Geared Traction applications.
 - Duties noted conform to Montgomery *system 237* standard Geared Traction applications.
- Consult your Montgomery Professional for more information on *system 90s* and *system 237*.
- Reactions include allowances for impact but DO NOT include weight of concrete slab.
 - Pit depths, overhead clearances and penthouse sizes are in accordance with ANSI/ASME code requirements. Local codes may vary from these requirements.
 - Add 5" to "E" for counterweight with safety.
 - Layouts and dimensions shown are for center opening type entrances. Other types available.
- Note: 2000# application requires Single Slide doors.

OVERHEAD LOADS/LBS. (APPROXIMATE) PER ELEVATOR

CAPACITY	OVERHEAD LOADS/LBS. (APPROXIMATE) PER ELEVATOR							
	UP TO 350 FPM◆◆		450 FPM◆		500 FPM-TO-700 FPM		800 FPM-TO-1200 FPM	
	R-1	R-2	R-1	R-2	R-1	R-2	R-1	R-2
2000#◆	18500	9500	N/A	N/A	N/A	N/A	N/A	N/A
2500#◆◆	22000	11500	25000	15000	28000	18000	31000	21000
3000#◆◆◆	23000	11500	26000	15000	29000	18000	32000	22000
3500#◆◆◆◆	24500	13000	28000	16000	30000	19000	33000	23000

MINIMUM PIT—OVERHEAD & MACHINE ROOM DIMENSIONS

SPEED	200◆◆	350◆◆	450◆◆◆	500	600	700	800◆	1000◆	1200◆
L	15'-0"	15'-0"	15'-0"	18'-6"	18'-6"	18'-6"	18'-6"	18'-6"	18'-6"
O	14'-8"	15'-4"	16'-6"	17'-6"	18'-6"	19'-6"	21'-6"	21'-6"	23'-0"
P	4'-3"◆◆◆	5'-0"	6'-0"	7'-8"	8'-6"	9'-2"	12'-0"	12'-0"	12'-0"

- Dimension "O" based on standard height elevator cab.
- All data is general. Sizes/speeds shown explain frequently used duties. Number of floors served, car size, speed and cab design are the result of actual application. Consult your Montgomery Professional for specific recommendations where space is limited and/or other conditions necessitate further study. Your Montgomery Professional can help provide exact information for your working drawings.

* Add 2" to Dimension "D" for car speed over 700 FPM.

◆◆ Increase pit dimension for 450 FPM to 7'-8" where Rope COMPENSATION is required.

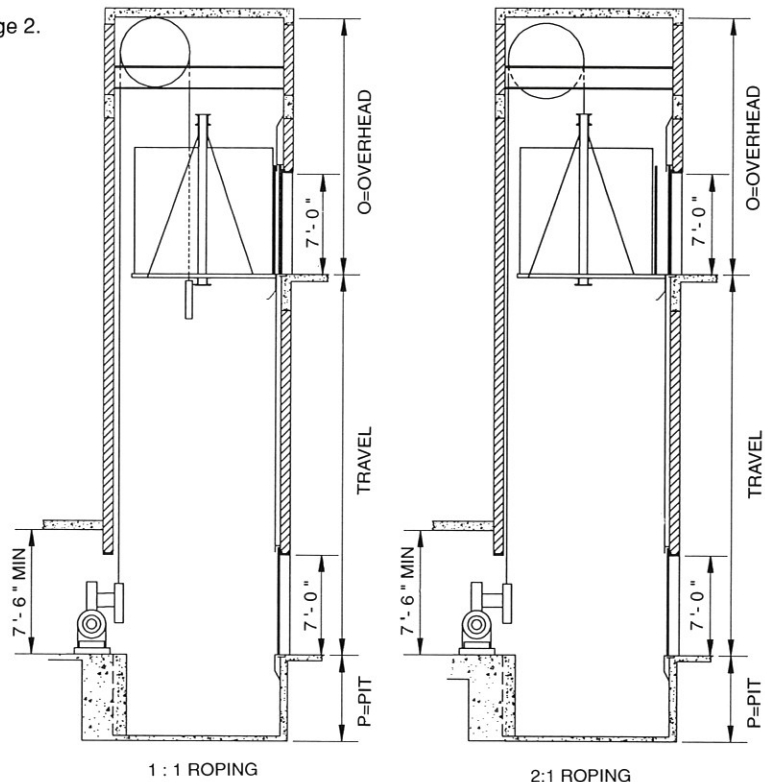
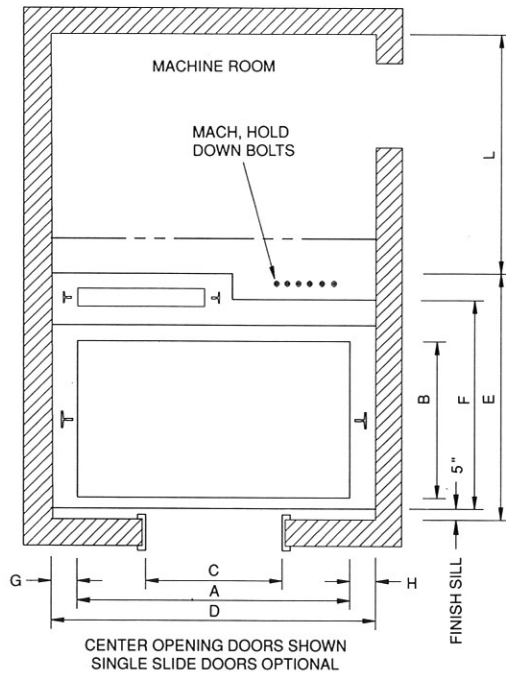
◆◆◆Where excessive cab weight applies or where travel exceeds 100 feet, P = 4' - 6."

Basement Type—Moderate Speed:

Basement type traction elevators are utilized for limited overhead conditions in new and existing buildings. The hoisting machine is offset at the rear of the hoistway. The machine may be located at any suitable elevation and need not be at the "basement".

This type of elevator facilitates future floor expansion.

For national standards and accessibility requirements see page 2.



1:1 ROPING ARRANGEMENT

is used when only moderate overhead clearance is available, and only when a shallow pit depth is feasible.

RECOMMENDED SIZES & CAPACITIES					
BUILDING TYPE	APARTMENT OR SMALL OFFICE		AVERAGE OFFICE OR HOTEL		LARGE OFFICE OR STORE
CAPACITY	2000#	2500#	3000#	3500#	
A	6'- 0"	7'- 0"	7'- 0"	7'- 0"	
B	5'- 0"	5'- 0"	5'- 6"	6'- 2"	
C	3'- 0"	3'- 6"	3'- 6"	3'- 6"	
D	7'-10"	8'- 4"	8'- 4"	8'- 4"	
E	6'-10"	6'-10"	7'- 4"	8'- 0"	
F	5'- 4"	5'- 4"	5'-10"	6'- 6"	
G	11"	8"	8"	8"	
H	11"	8"	8"	8"	
RECOMMENDED MACHINE ROOM OVERHEAD & PIT DIMENSIONS					
SPEED	100	200	250	300	350
L	10'-6"	10'-6"	10'-6"	10'-6"	10'-6"
O	16'-7"	17'-1"	17'-5"	17'-6"	17'-9"
P	4'-0"	5'-0"	5'-0"	5'-0"	5'-0"

2:1 ROPING ARRANGEMENT

permits a minimum overhead installation. Because of the sheave arrangement, it is necessary to have a greater pit depth than for a comparable 1:1 installation.

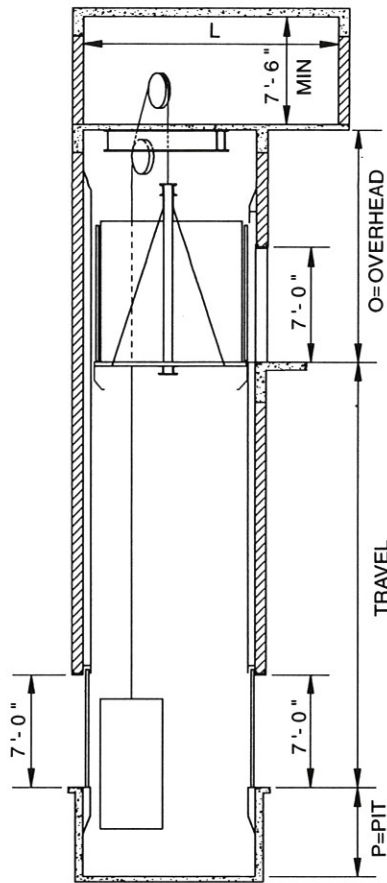
RECOMMENDED SIZES & CAPACITIES					
BUILDING TYPE	APARTMENT OR SMALL OFFICE	AVERAGE OFFICE OR HOTEL			LARGE OFFICE OR STORE
CAPACITY	2000#	2500#	3000#	3500#	
A	6'- 0"	7'- 0"	7'- 0"	7'- 0"	
B	5'- 0"	5'- 0"	5'- 6"	6'- 2"	
C	3'- 0"	3'- 6"	3'- 6"	3'- 6"	
D	7'- 10"	8'-10"	8'-10"	8'- 4"	
E	6'- 10"	6'-10"	7'- 4"	8'- 0"	
F	5'- 4"	5'- 4"	5'-10"	6'- 6"	
G	10"	10"	10"	8"	
H	12"	12"	12"	8"	

RECOMMENDED MACHINE ROOM OVERHEAD & PIT DIMENSIONS					
SPEED	100	200	250	300	350
L	10'- 6"	10'- 6"	10'- 6"	10'- 6"	10'-6"
P	13'- 0"	13'- 2"	13'- 7"	13'- 8"	14'-0"
O	5'- 6"	6'- 6"	6'-11"	7'- 4"	7'-4"

NOTES:

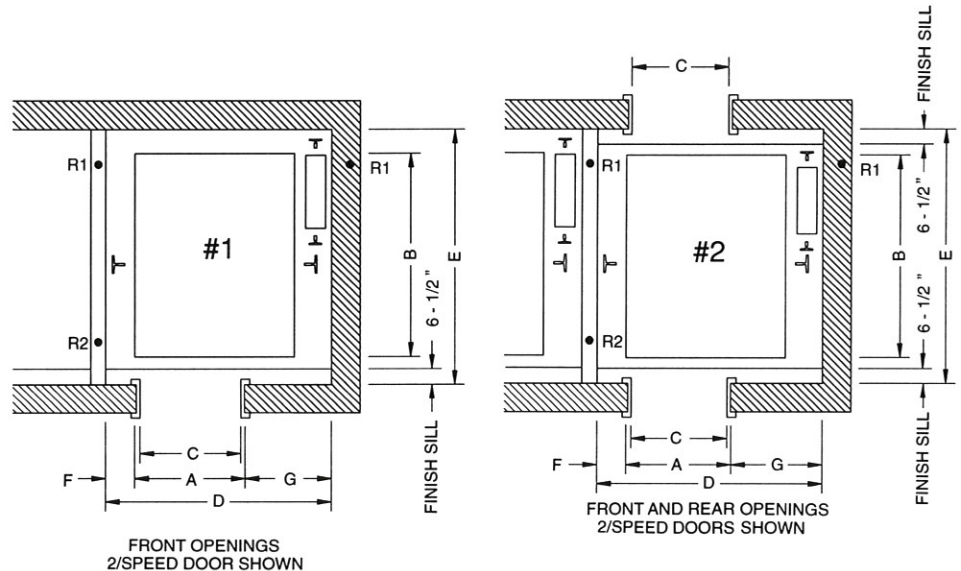
1. Pit depths, overhead clearances and penthouse sizes are in accordance with ANSI/ASME code requirements. Local codes may vary from these requirements.
 2. Add 5" to "E" for counterweight with safety at speeds of 200 FPM or more.
 3. Layouts and dimensions shown are for machine located at rear of hoistway.
 4. Layouts and dimensions shown are for center opening type entrances.
- Note: 2000# application requires Single Slide doors.

5. Dimension "O" based on standard height elevator cab.
6. All data is general. Sizes/speeds shown explain frequently used duties. Number of floors served, car size, speed and cab design are the result of actual application. Consult your Montgomery Professional for specific recommendations where space is limited and/or other conditions necessitate further study. Your Montgomery Professional can help provide exact information for your working drawings.



Hospital Shape (Passenger/Service):

Passenger/Service (Hospital Shape) Traction Elevators can be designed to satisfy a wide range of individual applications. A variety of sizes, capacities and speeds are available. For national standards and accessibility requirements see page 2.



ONE OR MORE ELEVATORS

NOTE: ELEVATION SHOWS REVERSE OPENING

RECOMMENDED SIZES & CAPACITIES								
CAPACITY	4000#		4500#		5000#		5500#	
	#1◆●	#2	#1◆●	#2	#1	#2	#1	#2
A	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"	6'-4"	6'-4"
B	8'-4"	8'-11½"	8'-10"	8'-10"	9'-4"	9'-11½"	9'-4"	10'-0"
C	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"	4'-6"	4'-6"
D	8'-1"	8'-1"	8'-1"	8'-1"	8'-2"	8'-2"	8'-6"	8'-6"
E	9'-2"	10'-3"	9'-8"	10'-9"	10'-2"	11'-3"	10'-3"	11'-3½"
F	8"	8"	8"	8"	8"	8"	8"	8"
G	1'-5"	1'-5"	1'-5"	1'-5"	1'-6"	1'-6"	1'-6"	1'-6"
MINIMUM PIT, OVERHEAD AND MACHINE ROOM DIMENSIONS								
SPEED	200◆●	350◆●	450◆*	500				
L	18'-0"	18'-0"	18'-0"	19'-0"				
O	14'-8"	15'-4"	16'-6"	17'-7"				
P	4'-3"***	5'-0"	6'-0"***	7'-8"				

APPROXIMATE OVERHEAD LOADS/LBS. PER PASSENGER ELEVATOR		
CAPACITY	R-1	R-2
4000	29500	11000
4500	30500	11500
5000	36000	15500
5500	37000	16000

NOTES:

- ◆ Duties noted conform to Montgomery **system 90s** standard Geared Traction applications.
- Duties noted conform to Montgomery **system 28x** standard Geared Traction applications.

Consult your Montgomery Professional for more information on **system 90s** and **system 28x**.

- Reactions include allowances for impact but DO NOT include weight of concrete slab.
- Pit depths, overhead clearances and penthouse sizes are in accordance with ANSI/ASME code requirements. Local codes may vary from these requirements.
- Add 5" to "D" for counterweight with safety.

4. Layouts and dimensions shown are for two speed type entrances.

5. Dimension "O" based on standard height elevator cab.

6. All data is general. Sizes/speeds shown explain frequently used duties. Number of floors served, car size, speed and cab design are the result of actual application. Consult your Montgomery Professional for specific recommendations where space is limited and/or other conditions necessitate further study. Your Montgomery Professional can help provide exact information for your working drawings.

* This speed not available at 5,500 lb. capacity.

** 7'-8" Pit required with rope compensation.

*** Where excessive cab weight applies or where travel exceeds 100 feet, P=4'-6". Where "B" exceeds 9'-6", P=5'-0".

ELEVATOR ENTRANCES

Passenger Entrances:

Montgomery standard entrances, as shown, are available in a wide range of finishes and materials designed for masonry wall installation (as shown) and also drywall application. Custom entrances are also available. Contact your local Montgomery Professional for details.

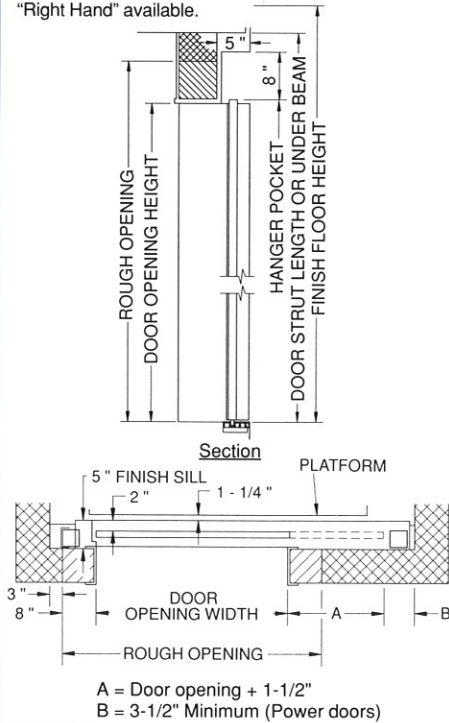
NOTE: Wherever possible, front hoistway walls should not be erected until after door equipment is installed.

Rough Opening (for st'd. unit frames installed in masonry walls): Width of door opening plus 8" on each side. Height of door opening plus 8" above.

CAUTION: Minimum dimensions shown below for various passenger entrance applications may be less than what is required for overall hoistway width. Please refer to other dimensional data contained in this Planning Guide or consult your Montgomery Sales Professional.

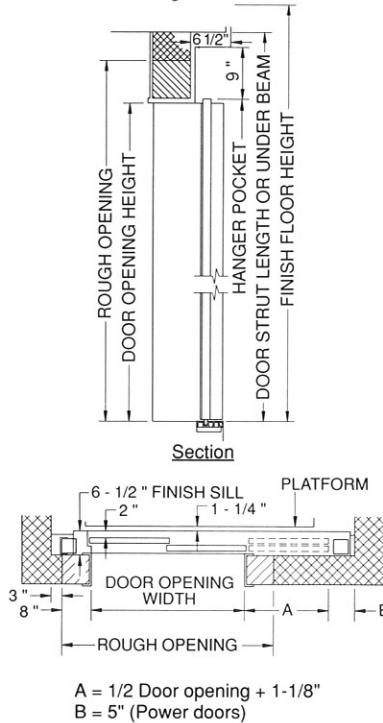
Single Speed Slide:

Maximum opening width approximately 1/2 width of car. Opening width should not exceed 3'-6". Provides a sliding door at moderate cost. "Left Hand" shown. "Right Hand" available.



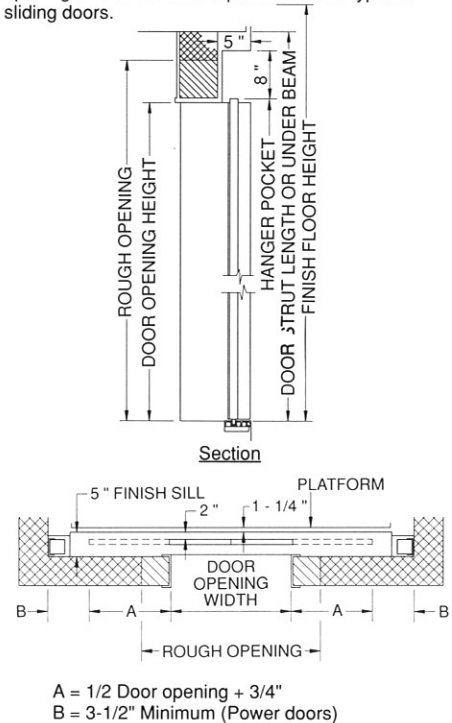
Two Speed Slide:

Door opening is approximately 2/3 width of car. Recommended for hospital and service applications. "Left Hand" shown. "Right Hand" available.



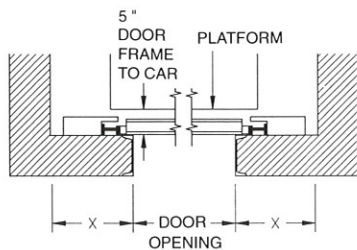
Center Opening Slide:

Opening is approximately 1/2 width of car. Simultaneous opening of each door panel, at equal speed, reduces opening time to 1/2 that required for other types of sliding doors.

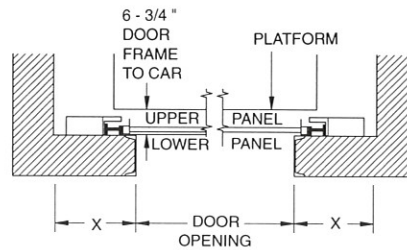


Freight Doors:

Regular Type Door



Pass Type Door



MINIMUM FLOOR HEIGHT BASED ON OPENING HEIGHT OF DOOR		
OPENING HEIGHT OF DOOR	REGULAR TYPE DOOR	*PASS TYPE DOOR
6'-6"	10'-3"	9'-3"
7'-0"	11'-0"	9'-9"
7'-6"	11'-9"	10'-3"
8'-0"	12'-6"	10'-9"
8'-6"	13'-3"	11'-3"
9'-0"	14'-0"	11'-9"
10'-0"	15'-6"	12'-9"

*Minimum floor heights shown for pass type doors may be reduced by using special constructed doors. Consult your local Montgomery Professional for exact information for your drawings.

DIMENSION KEY

X - 13" minimum return required for motorized door of either type shown.

X - 9" minimum return required for manual door of either type shown. Minimum pit depth = 1/2 door height plus 6". Pit depth for door may be more or less than pit depth required for elevator, depending on height of door.

Door frames must extend to the floor beam above unless walls are poured concrete or brick.

NOTE: FREIGHT DOOR FRAMES AND SILLS NOT BY MONTGOMERY.



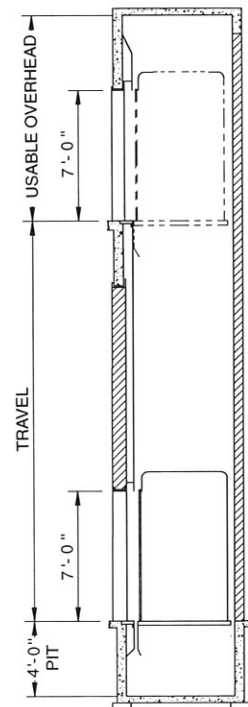
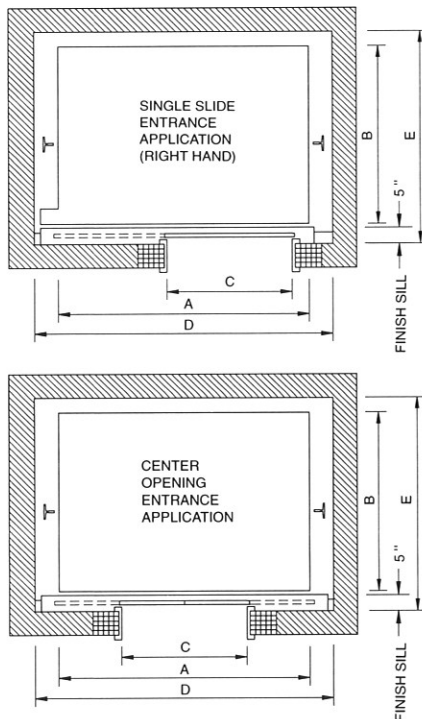
montgomery®

PASSENGER ELEVATORS

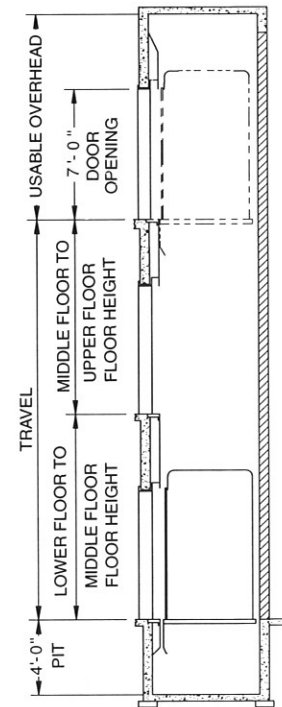
HH® SERIES

Montgomery offers a complete line of quick delivery, competitively priced Holeless and Partial Inground Hydraulic Passenger Elevators for two- and three-landing structures. HH® SERIES elevators (HH-II® & HH-III®) offer the benefits of short lead time for fabrication and shipment as well as installation. HH® SERIES units are offered in two sizes and two speed ratings. In every case, all necessary approvals are accomplished on a single sheet!

Depending upon the unit chosen, and because of the broad range of STANDARD FEATURES made available on HH® SERIES units, Montgomery is able to fabricate and ship all necessary material in six to eight weeks from the date of order and approval receipt. Regardless of their standardization and quick lead time characteristics, there is no customer sacrifice in the flexibility of entrance and decor options to "customize" any of these Passenger Elevators. The Montgomery STL® Passenger Elevator Car is standard on all HH® SERIES elevators.



HH-II® ELEVATION



HH-III® ELEVATION

HH® SERIES (HH-II® & HH-III®) CAPACITIES - SPEEDS - GENERAL DATA - SPACE REQUIREMENTS

Type		Holeless -or- Partial Inground Hydraulic	
Service		Passenger	
Speed		80 FPM & 125 FPM	
Capacity		2000 lbs.	2500 lbs.
Clear Car Size (Wide x Deep)		5'-8" x 4'-3"	6'-8" x 4'-3"
Alphabetical Dimensions	A	6'-0"	7'-0"
	B	5'-0"	5'-0"
	C	3'-0"	3'-6"
	D	7'-4"	8'-4"
	E	5'-9"	5'-9"
	(pit) P	4'-0"	4'-0"
Overhead (O)		Consult your Montgomery Professional	
Machine Room (W x D x H)		7'-6" x 5'-0" x 7'-6" (minimum)	
Entrance Types (All 7'-0" High)		Single Slide R/H - Standard (shown above) Single Slide L/H - Optional Center Opening - Optional (N/A for 2000 lbs.)	
Models Available		HH-II®	HH-III®
Landings Served		Two (2) Inline	Three (3) Inline
Minimum Travel		8'-4"	16'-8"
Maximum Travel		20'-0"	20'-0"

NOTES:

1. For national standards and accessibility requirements see page 2.
2. For hoistway entrance detail information see page 6.
3. A legal machine room meeting code requirements and ventilated with temperature between 65° and 100°F must be provided.
4. Pit depth and overhead clearance are in accordance with ANSI/ASME code requirements. Local codes may vary from these requirements.
5. Consult your local Montgomery Professional and request HH® SERIES descriptive literature, brochure SF 2509. For specific layout and approval information request HH-II® SF 2393, HH-III® SF 2480.
6. Depending on actual HH® SERIES travel, jack blockouts or holes in pit floor may be required. Consult your Montgomery Professional.
7. Rail Brackets are typically located at (or ideally 6" below) floor levels. An overhead (top of hoistway) bracket location is required. An intermediate (between floor levels) rail bracket support may be required on certain travel heights. Consult your local Montgomery Professional.



montgomery®

PASSENGER ELEVATORS

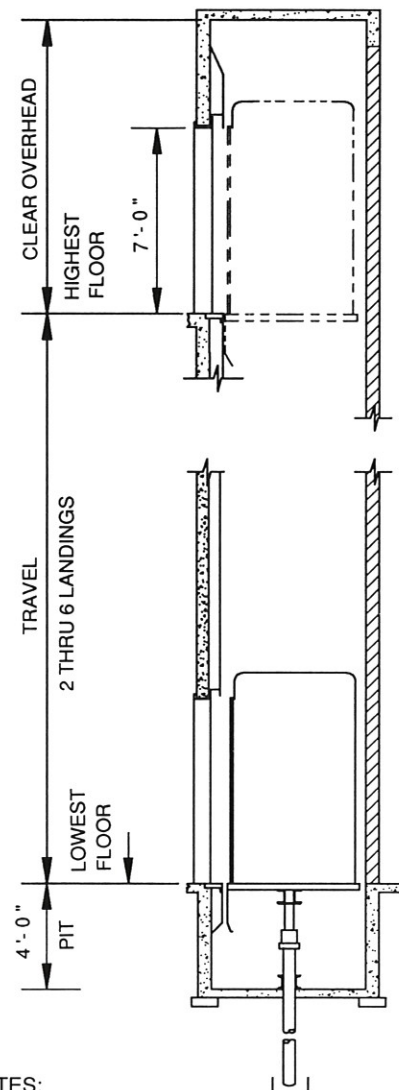
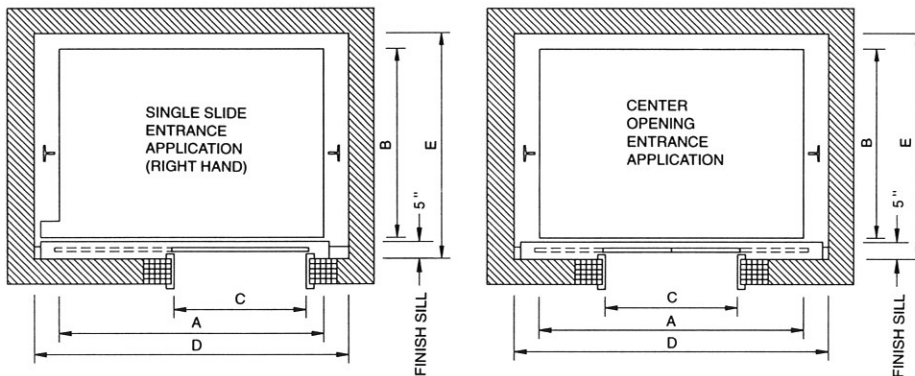
MX[®] SERIES

Montgomery offers a complete line of quick delivery, competitively priced INGROUND Hydraulic Passenger Elevators providing service for two- through six-landing structures. MX[®] SERIES elevators are available in passenger and service (hospital) platform shapes. MX[®] SERIES elevators offer the benefits of short lead time for fabrication and shipment as well as installation. These units are offered in six sizes and four speed ratings. In every case, all necessary approvals are streamlined for simple, fast selections!

Depending upon the unit(s) chosen, and because of the broad range of STANDARD FEATURES made available on these units, Montgomery is able to fabricate and ship all necessary material within a lead time which is fastest in the industry...in many cases in as little as eight weeks from the date of order and approval receipt. Regardless of their standardization and quick lead time characteristics, there is no customer sacrifice in the flexibility of entrance and decor options to "customize" any MX[®] SERIES elevator. The Montgomery STL[®] Passenger Elevator Cab is standard.

SPECIAL NOTE:

MX[®] elevators will be available soon for use in Two Car Group and Reverse Opening applications. Consult your Montgomery Sales Professional for the schedule of these new releases.

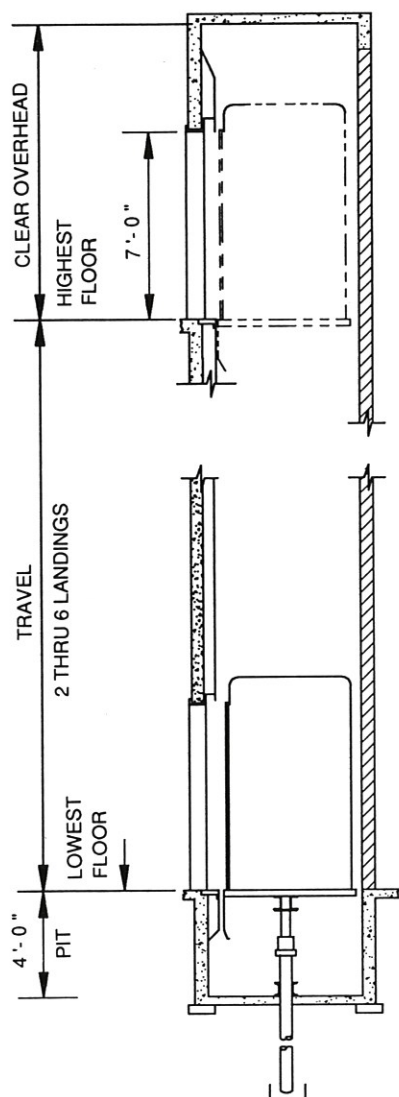


NOTES:

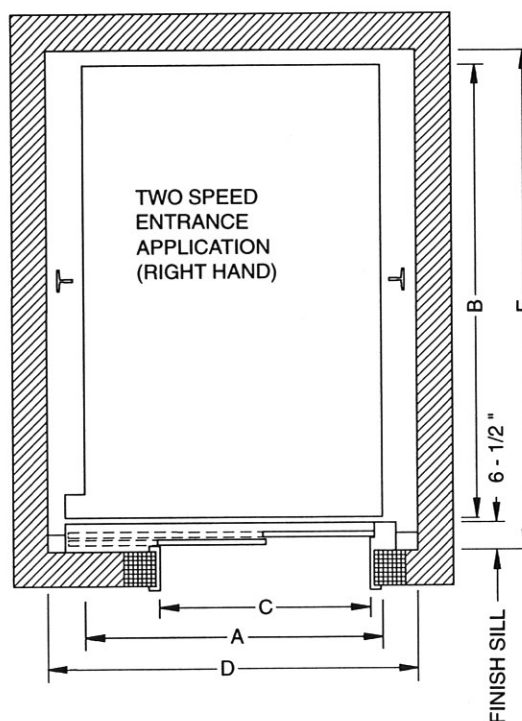
1. For national standards and accessibility requirements see page 2.
2. For hoistway entrance detail information see page 6.
3. A legal machine room meeting Code requirements and ventilated with temperature maintained between 65° and 100°F must be provided.

MX [®] SERIES CAPACITIES - SPEEDS - GENERAL DATA - SPACE REQUIREMENTS					
Type	Inground Hydraulic				
Service	Passenger				
Speed	80 FPM --- 100 FPM --- 125 FPM --- 150 FPM				
Capacity	2000 lbs.	2500 lbs.	3000 lbs.	3500 lbs.	
Clear Car Size (Wide x Deep)	5'-8" x 4'-3"	6'-8" x 4'-3"	6'-8" x 4'-9"	6'-8" x 5'-5"	
Alphabetical Dimensions	A	6'-0"	7'-0"	7'-0"	7'-0"
	B	5'-0"	5'-0"	5'-6"	6'-2"
	C	3'-0"	3'-6"	3'-6"	3'-6"
	D	7'-4"	8'-4"	8'-4"	8'-4"
	E	5'-9"	5'-9"	6'-3"	6'-11"
	(pit) P	4'-0"	4'-0"	4'-0"	4'-0"
Overhead (O)	12'-2" @ 80 FPM and 100 FPM 12'-4" @ 125 FPM 12'-6" @ 150 FPM				
Machine Room	Consult Montgomery				
Entrance Types (All 7'-0" High)	Single Slide R/H - Standard (shown) Single Slide L/H - Optional Center Opening - Optional (shown) (N/A for 2000 lbs.)				
Landings Served	Two (2)	Three (3)	Four (4)	Five (5)	Six (6) Inline
Minimum Travel	8'-4" (2 Indg.)	16'-8" (3 Indg.)	25'-0" (4 Indg.)	33'-4" (5 Indg.)	41'-8" (6 Indg.)
Maximum Travel	64'-0" (2000 lbs.)	61'-0" (2500 lbs.)	63'-0" (3000 lbs.)	60'-0" (3500 lbs.)	

HOSPITAL/SERVICE ELEVATORS



MX[®]SERIES



4. Pit depth and overhead clearance are in accordance with ANSI/ASME code requirements. Local codes may vary from these requirements.
5. Consult your local Montgomery Professional and request MX[®] SERIES descriptive literature, brochure SF 2508. For specific layout and approval information request PASSENGER Applications - SF 2463 or SERVICE Applications - SF 2503.
6. MX[®] SERIES elevators require jack hole blockout in pit floor. Consult your Montgomery Professional.
7. Rail Brackets are typically located at (or ideally 6" below) floor levels. An overhead (top of hoistway) bracket location is required. An intermediate (between floor levels) rail bracket support may be required on certain travel heights. Consult your local Montgomery Professional.

MX [®] SERIES CAPACITIES - SPEEDS - GENERAL DATA - SPACE REQUIREMENTS			
Type		Inground Hydraulic	
Service		Hospital/Service	
Speed		80 FPM --- 100 FPM --- 125 FPM --- 150 FPM	
Capacity		4000 lbs.	4500 lbs.
Clear Car Size (Wide x Deep)		5'-8" x 7'-6"	5'-8" x 8'-0"
Alphabetical Dimensions	A	6'-0"	6'-0"
	B	8'-4"	8'-10"
	C	4'-0"	4'-0"
	D	7'-4"	7'-4"
	E	9'-2"	9'-8"
	(pit) P	4'-0"	4'-0"
Overhead (O)		12'-2" @ 80 FPM 12'-4" @ 125 FPM	12'-2" @ 100 FPM 12'-6" @ 150 FPM
Machine Room		Consult Montgomery	
Entrance Types (All 7'-0" High)		Two Speed Slide R/H - Standard (shown) Two Speed Slide L/H - Optional	
Landings Served		Two (2) Three (3) Four (4) Five (5) Six (6) Inline	
Minimum Travel		8'-4" (2 Indg.) 16'-8" (3 Indg.) 25'-0" (4 Indg.) 33'-4" (5 Indg.) 41'-8" (6 Indg.)	
Maximum Travel		62'-0" (4000 lbs.) 60'-0" (4500 lbs.)	



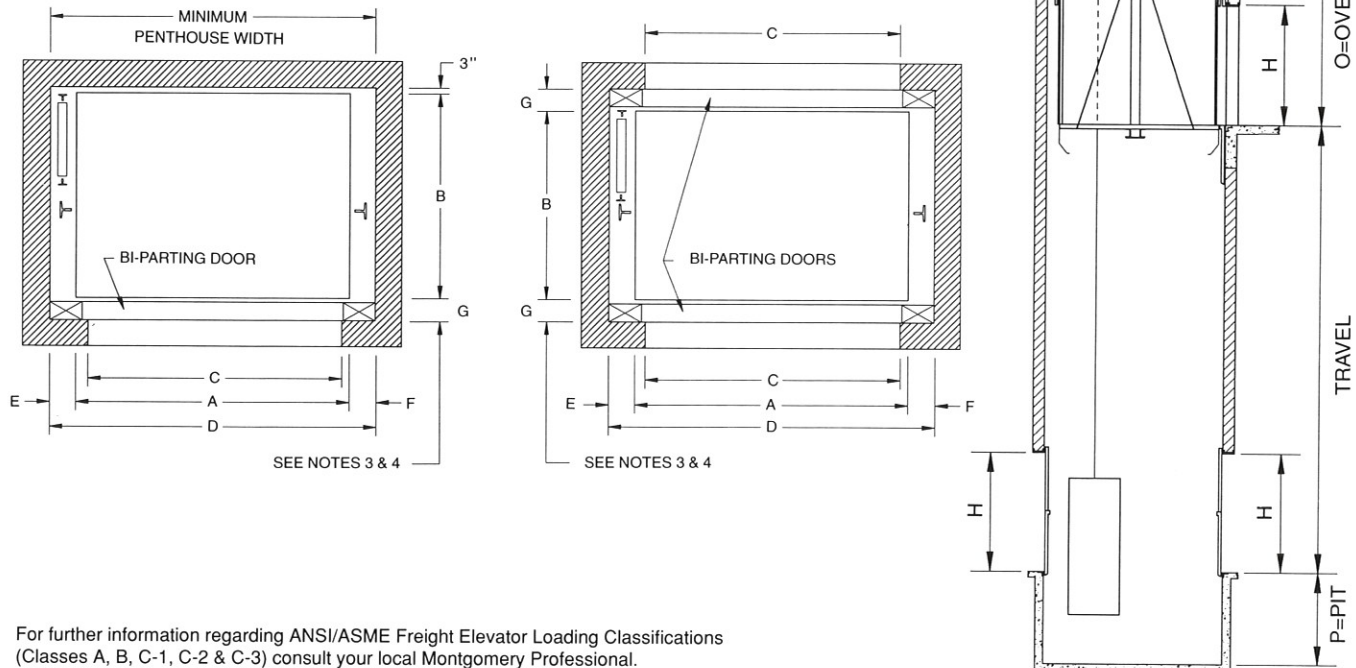
montgomery®

FREIGHT ELEVATORS

Traction:

Traction Freight Elevators meet and exceed the heavy duty requirements of freight type loading. Special applications are available to meet unusual and hazardous conditions. As an optional feature we recommend our automatic load weighing device, which warns against overloading. Also recommended are power operated freight doors and car gate(s) for medium and heavy duty installations.

For freight door details see page 6.



For further information regarding ANSI/ASME Freight Elevator Loading Classifications (Classes A, B, C-1, C-2 & C-3) consult your local Montgomery Professional.

LIGHT AND MEDIUM DUTY FREIGHT ELEVATORS					
DIMENSION	CAPACITY				
	2500#	3000#	4000#	6000#	8000#
A	5'- 4"	6'- 4"	6'- 4"	8'- 4"	8'- 4"
B	7'- 0"	8'- 0"	8'- 0"	10'- 0"	10'- 0"
C	5'- 0"	6'- 0"	6'- 0"	8'- 0"	8'- 0"
D	7'-10"	8'-10"	8'-10"	10'-10"	10'-10"
E	1'- 7"	1'- 7"	1'- 7"	1'- 7"	1'- 7"
F	11"	11"	11"	11"	11"
L	13'- 0"	14'- 0"	14'- 0"	14'- 0"	14'- 0"

MINIMUM PIT & OVERHEAD DIMENSIONS FOR LIGHT & MEDIUM DUTY FREIGHT ELEVATORS				
DIMENSION	CAR SPEED			
	50 FPM	75 FPM	100 FPM	200 FPM
O	16'-0"	16'-0"	16'-0"	16'-0"
P	5'-6"	5'-6"	5'-6"	6'-0"

HEAVY DUTY POWER TRUCK LOADING FREIGHT ELEVATORS					
DIMENSION	CAPACITY				
	10,000#	12,000#	16,000#	18,000#	20,000#
A	8'- 4"	10'- 4"	10'- 4"	10'- 4"	12'- 4"
B	12'- 0"	14'- 0"	14'- 0"	16'- 0"	20'- 4"
C	8'- 0"	10'- 0"	10'- 0"	10'- 0"	12'- 0"
*D	11'- 4"	13'- 6"	14'- 0"	14'- 2"	16'- 6"
E	1'- 7"	1'- 7"	1'- 7"	1'- 7"	1'- 7"
F	11"	11"	11"	11"	11"
L	14'- 0"	15'- 0"	15'- 0"	17'- 0"	21'- 0"

MINIMUM PIT & OVERHEAD DIMENSIONS FOR HEAVY DUTY POWER TRUCK FREIGHT ELEVATORS				
DIMENSION	CAR SPEED			
	50 FPM	75 FPM	100 FPM	200 FPM
O	Consult your Montgomery Professional			
P	Consult your Montgomery Professional			

NOTES:

- Pit depths, overhead clearances and penthouse sizes are in accordance with ANSI/ASME code requirements. Local codes may vary from these requirements.
- For capacities over 20,000 lbs. or speeds over 200 FPM, consult your Montgomery Professional.
- Dimension G = 5" for regular type counterbalanced hoistway doors and 6-3/4" for pass type counterbalanced hoistway doors.
- Pass type hoistway doors are required when floor heights are less than 11'-0" for 7'-0" openings and less than 14'-0" for 9'-0" openings. See chart on page 6 for other door sizes.

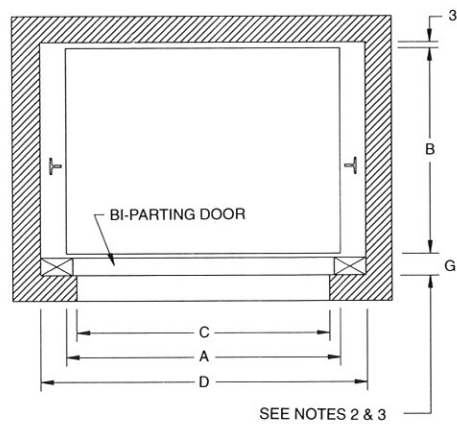
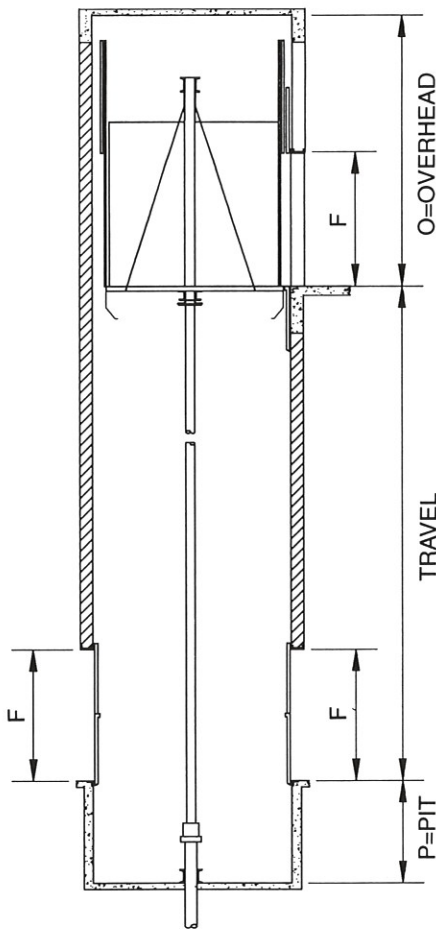
- Dimension H = 7'-0" on light & medium duty and 8'-0" (or as required) for heavy duty doors. Doors higher than 8'-0" require additional overhead height.
- For large heavy duty doors consult your Montgomery Professional.
- All data is general. Consult your local Montgomery Professional for exact information for your working drawings.
- For reactions, consult your local Montgomery Professional.
- 2:1 Roping recommended for heavy duty power truck loading freight elevators.

* "D" Dimension includes space required when vertical columns are added (inside hoistway) for rail support. If no columns required, D=A+E+F.

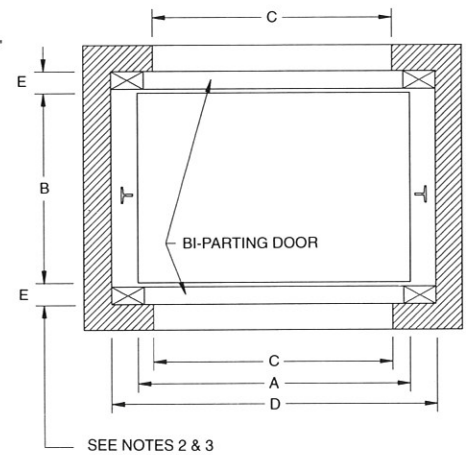
Hydraulic:

Hydraulic Freight Elevators also meet and exceed the heavy duty requirements of freight type loading. They are recommended for nominal speed and travel requirements. Features of this type elevator include minimum hoistway clearances, economical design of the hoistway and elimination of the overhead machine room. The recommended machine room location is at the lowest landing adjacent to the hoistway, but can be located in a semi-remote area from the hoistway.

For freight door details see page 6.



SEE NOTES 2 & 3



SEE NOTES 2 & 3

For further information regarding ANSI/ASME Freight Elevator Loading Classifications (Classes A, B, C-1, C-2 & C-3) consult your local Montgomery Professional.

LIGHT AND MEDIUM DUTY FREIGHT ELEVATORS						
DIMENSION	CAPACITY					
	2000#	3000#	4000#	5000#	6000#	8000#
A	5'- 0"	5'- 6"	6'- 6"	8'- 6"	8'- 6"	8'- 6"
B	6'- 0"	7'- 0"	8'- 0"	10'- 0"	12'- 0"	12'- 0"
C	4'- 8"	5'- 2"	6'- 2"	8'- 2"	8'- 2"	8'- 2"
D: manual doors	6'- 4"	6'-10"	7'-10"	9'-10"	10'- 0"	10'- 6"
D: power doors	6'-10"	7'- 4"	8'- 4"	10'- 4"	10'- 6"	10'- 6"
O: 7'-0" door ht.	13'- 2"	13'- 2"	13'- 2"	13'- 2"	13'- 2"	13'- 2"
O: 8'-0" door ht.	14'- 2"	14'- 2"	14'- 2"	14'- 2"	14'- 2"	14'- 2"
P	4'- 6"	4'- 6"	4'- 6"	4'- 6"	4'- 6"	5'- 0"

NOTES:

- Dimensions O and P are based on car speeds up to 150 FPM.
- Dimension E = 5" for regular type counterbalanced hoistway doors and 6-3/4" for pass type counterbalanced hoistway doors.
- Pass type hoistway doors are required when floor heights are less than 11'-0" for 7'-0" openings and less than 14'-0" for 9'-0" openings. See chart on page 6 for other door sizes.
- Dimension F = 7'-0" on light and medium duty and 8'-0" (or as required) for heavy duty.
- A legal machine room meeting Code requirements and ventilated with temperature maintained between 65° and 100°F must be provided. Machine room location preferably should be at the lowest landing adjacent to the hoistway. Machine room size varies depending on capacity and speed of elevator. Consult your Montgomery Professional for the exact size.

HEAVY DUTY POWER TRUCK LOADING FREIGHT ELEVATORS					
DIMENSION	CAPACITY				
	10,000#	12,000#	16,000#	18,000#	20,000#
A	10'- 6"	10'- 6"	10'- 6"	10'- 6"	12'- 6"
B	14'- 0"	14'- 0"	16'- 0"	16'- 0"	20'- 0"
C	10'- 2"	10'- 2"	10'- 2"	10'- 2"	12'- 2"
D: manual doors	12'- 6"	12'- 6"	12'- 6"	12'- 6"	14'- 6"
D: power doors	12'- 6"	12'- 6"	12'- 6"	12'- 6"	14'- 6"
O: 7'-0" door ht.	13'- 2"	13'- 2"	13'- 2"	13'- 2"	13'- 2"
O: 8'-0" door ht.	14'- 2"	14'- 2"	14'- 2"	14'- 2"	14'- 2"
P	6'- 0"	6'- 0"	6'- 0"	6'- 0"	6'- 0"

- Pit depths and overhead clearances are in accordance with ANSI/ASME code requirements. Local codes may vary from these requirements.
- Layout and dimensions shown for freight elevators based on bi-parting counterbalanced type hoistway doors.
- For capacities over 20,000 lbs. and for large heavy doors, consult your Montgomery Professional.
- All data is general. Consult your local Montgomery Professional for exact information for your working drawings.
- For reactions, consult your local Montgomery Professional.



montgomery®

ESCALATORS

Escalators move more people at a lower cost per passenger than any other form of vertical transportation. They may be used as the primary carrier in retail buildings, in transportation terminals and in highly populated office buildings. They can also effectively augment elevator systems, especially in high rise office buildings, permitting elevator systems to provide more effective service to other areas of the building.

EFFICIENCY: two steps on the same level at entry and exit speeds and safeguards traffic

DESIGN/ENGINEERING: heavy duty construction for long life and trouble free operation

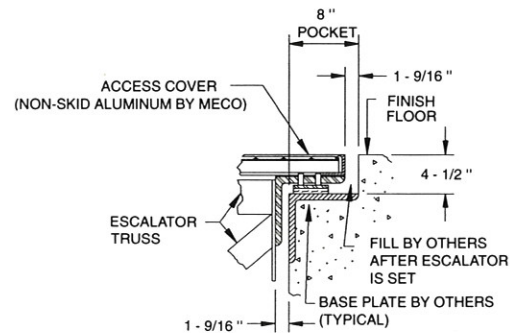
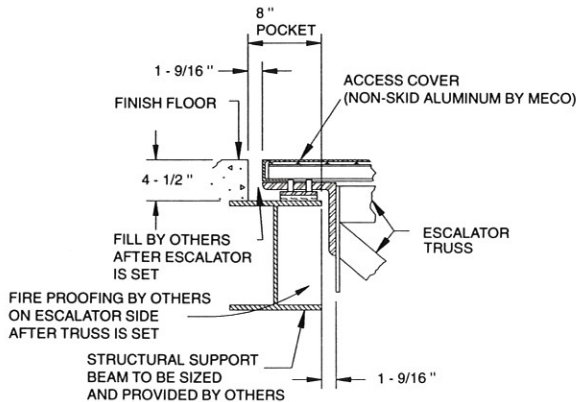
LOW COST MAINTENANCE: attained by high quality heavy duty equipment

APPEARANCE: durable modern materials retain attractive appearance

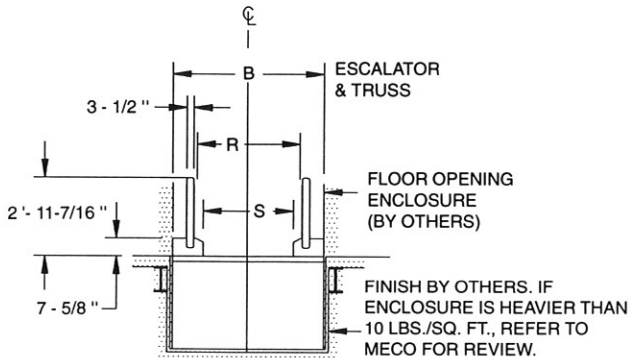
DEPENDABILITY: quickly and easily serviced...less down time

MANUFACTURE: designed and built in the **UNITED STATES**

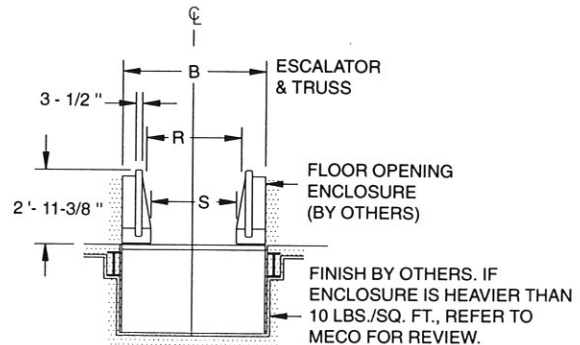
crystal 2000® Glass Balustrade & Solid Balustrade - End Support Details



crystal 2000® Glass Balustrade - Section

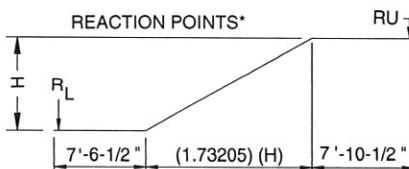


Solid Balustrade - Section



ESCALATOR REACTIONS*

3E ESCALATOR:	
RL (550)H + 10,000	RU = (550)H + 11,100
4E ESCALATOR:	
RL (600)H + 10,570	RU = (600)H + 11,670
5E ESCALATOR:	
RL (660)H + 11,650	RU = (660)H + 12,750



*Reaction formula based on:
50% dead load
25% live load
25% impact
Includes weight of 10 lbs./sq. ft. covering on sides and soffit.

Consult MECO for reactions if intermediate support is used.

WIDTH CHART

Model No.	Theoretical Capacity Persons Per Hour At		Rated Width R	Step Width S	Overall Width B (Note 1)	Well Width Rough Opening (Note 2)
	90 FPM	120 FPM				
3E	4,000	5,300	32"	24"	4'-4"	Overall Width B + 2"
4E	6,000	8,000	40"	32"	5'-0"	
5E	8,000	10,600	48"	40"	5'-8"	

LAYOUT NOTE:

The following information, when available, must be shown on all layouts for use of the balustrade manufacturer.

D - Dimension from finished floor to the finished plaster ceiling or bottom of smoke guard.

E-F - Detail and kind of wellway railings or fire shutter enclosures which are not furnished by the balustrade manufacturer.

SHADED AREAS NOT BY MECO



Escalator Standard Equipment:

STANDARD EQUIPMENT INCLUDES

complete truss fabricated of welded, hot rolled, structural steel tubes; precision worm gear drive; roller and ball bearings throughout; flange mounted motor; permanent magnet brake; portable controller*; complete electrical and mechanical safety system; reversing stations; interchangeable precision assembled steps with cleated risers; matched endless step chains; accurately aligned track system; complete balustrade including skirts; inner panels, decks and endless moving neoprene rubber handrail; floor access covers to upper and lower machinery well both within truss area.

REQUIREMENTS

1. Floor around escalator is not to be laid until escalator is installed.
2. Flooring within 8" of escalator floor access doors (top and bottom) is not to be laid until floor access doors are in place.
3. Electric conduits, sprinkler pipes or soffit lights must be installed entirely outside of truss at all points except where codes require sprinkler protection of escalator machinery. Consult Montgomery for location within truss.
4. No walls or other parts of building structure are to be carried on truss.

OWNER TO PROVIDE AND INSTALL THE FOLLOWING

1. All escalator supports including bearing plates if concrete beams are used.
2. 3 phase, 60 cycle power supply and 110 volt light supply to controller.
3. Combination lamp receptacle and convenience outlet in machine room and lower reversing station.
4. The material used for the exterior is not to exceed 10 lbs./sq. ft. for the enclosure of the escalator.
5. All items marked "by others."

*CSA listed

CONTACT ANY OF OUR SALES AND SERVICE OFFICES TO OBTAIN EXPERT PLANNING ASSISTANCE INCLUDING COMPLETE LAYOUT AND SPECIFICATIONS

ESCALATOR MOTOR HORSEPOWER REQUIREMENTS

90 FPM	SIZE	FLOOR HEIGHT
10 HP	3E	5'-6" to 24'-0"
	4E	5'-6" to 17'-0"
	5E	5'-6" to 15'-0"
15 HP	3E	Over 24'-0" to 36'-0"
	4E	Over 17'-0" to 26'-0"
	5E	Over 15'-0" to 23'-0"
20 HP	3E	Over 36'-0" to 42'-0"
	4E	Over 26'-0" to 30'-0"
	5E	Over 23'-0" to 26'-0"

120 FPM

10 HP	3E	5'-6" to 19'-0"
	4E	5'-6" to 14'-0"
	5E	5'-6" to 12'-0"
15 HP	3E	Over 19'-0" to 28'-0"
	4E	Over 14'-0" to 20'-0"
	5E	Over 12'-0" to 18'-0"
20 HP	3E	Over 28'-0" to 32'-0"
	4E	Over 20'-0" to 23'-0"
	5E	Over 18'-0" to 21'-0"

120/90 FPM (2 SPEED)

10/7.5 HP	3E	5'-6" to 16'-0"
	4E	5'-6" to 12'-0"
	5E	5'-6" to 11'-0"
15/11.25 HP	3E	Over 16'-0" to 24'-0"
	4E	Over 12'-0" to 18'-0"
	5E	Over 11'-0" to 16'-0"
20/15 HP	3E	Over 24'-0" to 32'-0"
	4E	Over 18'-0" to 23'-0"
	5E	Over 16'-0" to 21'-0"

ESCALATOR POWER DATA

WYE - DELTA START OR "SOFT START" @ 90 FPM						
	208 VOLTS		460 VOLTS		575 VOLTS	
HP	STARTING CURRENT IN AMPERES	RUNNING CURRENT IN AMPERES	STARTING CURRENT IN AMPERES	RUNNING CURRENT IN AMPERES	STARTING CURRENT IN AMPERES	RUNNING CURRENT IN AMPERES
10	63.8	31.9	28.8	14.4	23.0	11.5
15	97.4	48.7	44.0	22.0	35.2	17.6
20	128.2	64.1	58.0	29.0	46.4	23.2

WYE - DELTA START OR "SOFT START" @ 120 FPM						
	208 VOLTS		460 VOLTS		575 VOLTS	
HP	STARTING CURRENT IN AMPERES	RUNNING CURRENT IN AMPERES	STARTING CURRENT IN AMPERES	RUNNING CURRENT IN AMPERES	STARTING CURRENT IN AMPERES	RUNNING CURRENT IN AMPERES
10	58.8	29.4	25.6	12.8	20.4	10.2
15	94.8	47.4	42.0	21.0	33.0	16.5
20	120.0	60.0	52.2	26.1	41.8	20.9

TWO SPEED (120/90 FPM) & "SOFT START"						
	208 VOLTS		460 VOLTS		575 VOLTS	
HP	STARTING CURRENT IN AMPERES	RUNNING CURRENT IN AMPERES	STARTING CURRENT IN AMPERES	RUNNING CURRENT IN AMPERES	STARTING CURRENT IN AMPERES	RUNNING CURRENT IN AMPERES
10/7.5	62.0/57.0	31.0/28.5	28.0/25.8	14.0/12.9	22.2/20.8	11.1/10.4
15/11.3	90.0/73.4	45.0/36.7	40.2/33.2	20.1/16.6	32.2/26.4	16.1/13.2
20/15	119.4/96.2	59.7/48.2	54.0/43.6	27.0/21.8	43.4/35.6	21.7/17.8

ALL POWER DATA BASED ON 3 PHASE 60 HERTZ

Power Walks & Power Ramps

provide fast, safe, high-volume horizontal, or combined horizontal and inclined (to 12 degrees) transportation of people within buildings, or outdoors. Exposition centers, stadiums, auditoriums, transportation terminals, parking lots to buildings and in or out of buildings are a few Power Walk and/or Power Ramp applications to transport people where walking is not advantageous.

STANDARD EQUIPMENT INCLUDES

complete truss fabricated of welded, hot rolled, structural steel tubes (or combination of truss and tubular stanchion); precision worm gear drive; roller and ball bearings throughout; flange mounted motor; permanent magnet brake; portable controller*; complete electrical and mechanical safety system; reversing stations; interchangeable precision assembled treadway pallets with interlocking treads on adjacent pallets; matched endless pallet chains; accurately aligned track system; complete balustrades including inner panels; decks with endless moving neoprene rubber handrail; and floor access covers to upper and lower machinery wells both within truss area.

BALUSTRADE APPLICATION

for use with Power Walks and/or Power Ramps may be either solid (e.g. stainless steel, bronze, etc.) or can be glass. This alternative is available for use on either side (e.g. either device may have a solid balustrade on one side and a glass balustrade on the other...or...intermediate sections of glass versus solid in the continuous run).

*CSA listed

Cincinnati/Northern Kentucky International Airport



NEW 7W-R WIDTH

Montgomery announces a new Power Walk/Power Ramp with a 56" pallet width. This new width is designed to accommodate two adults each with adjacent luggage or an adult with adjacent luggage leaving room for one adult to pass. Note dimensional width and depth requirements, see table below.

CONSULT MONTGOMERY

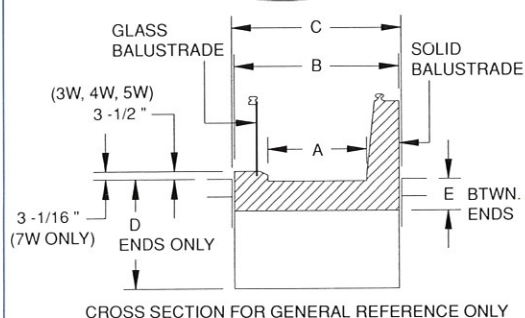
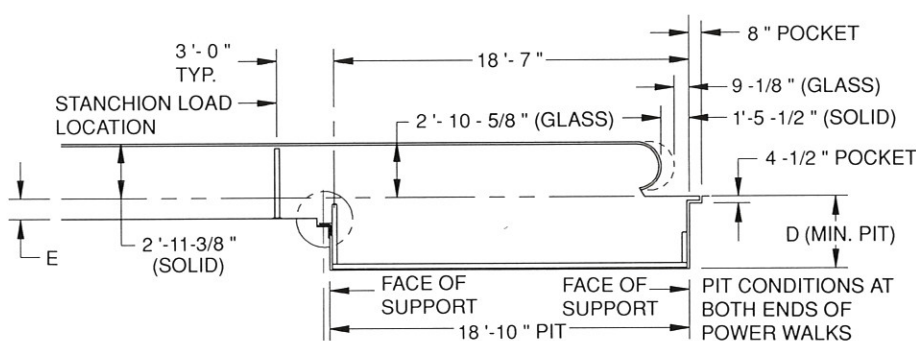
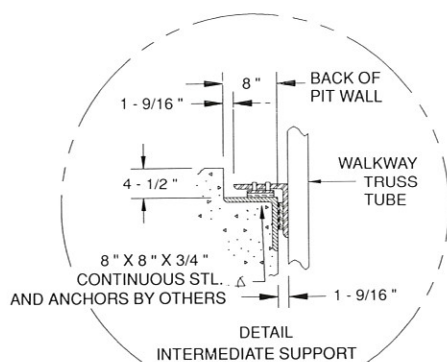
Contact your local Montgomery Professional for application data, layout and/or specification data needed to plan a complete installation.

PLANNING POWER WALKS/POWER RAMPS

Power Walk length in excess of 300 lineal feet requires special engineering evaluation. Any arrangement or combination of horizontal and inclines, to a maximum of 12 degrees, can be provided. Montgomery Power Walks can be designed in concert with Montgomery Power Ramps to provide transition from level to incline/decline to traverse existing elevated floors, etc. Such transition will occur within the "Face of Support" dimension shown below. The transition of elevation (incline/decline) requires a minimum of 13" or 15", see table below.

WIDTHS:

Four standard tread widths are 24", 32", 40" and 56". The 24" width accommodates one adult; the 32" width, one adult and child or adult and shopping cart; the 40" width accommodates two adjacent adults or adult with luggage.



MODEL NO. W = WALK R = RAMP	TREAD WIDTH A	OVERALL WIDTH DECORATOR PANEL OR OTHER TYPE OF EXTERIOR COVERING B	WELL WIDTH ROUGH OPENING C	PIT DEPTH AT ENDS OF WALK OR RAMP D	TRANSITION DEPTH- HEIGHT, WALK E
3W-R	24"	4'-4"	{ OVERALL WIDTH B + 2" }	3'-10"	1'-1"
4W-R	32"	5'-0"		3'-10"	1'-1"
5W-R	40"	5'-8"		3'-10"	1'-1"
7W-R	56"	7'-0"		4'-0"	1'-3"

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