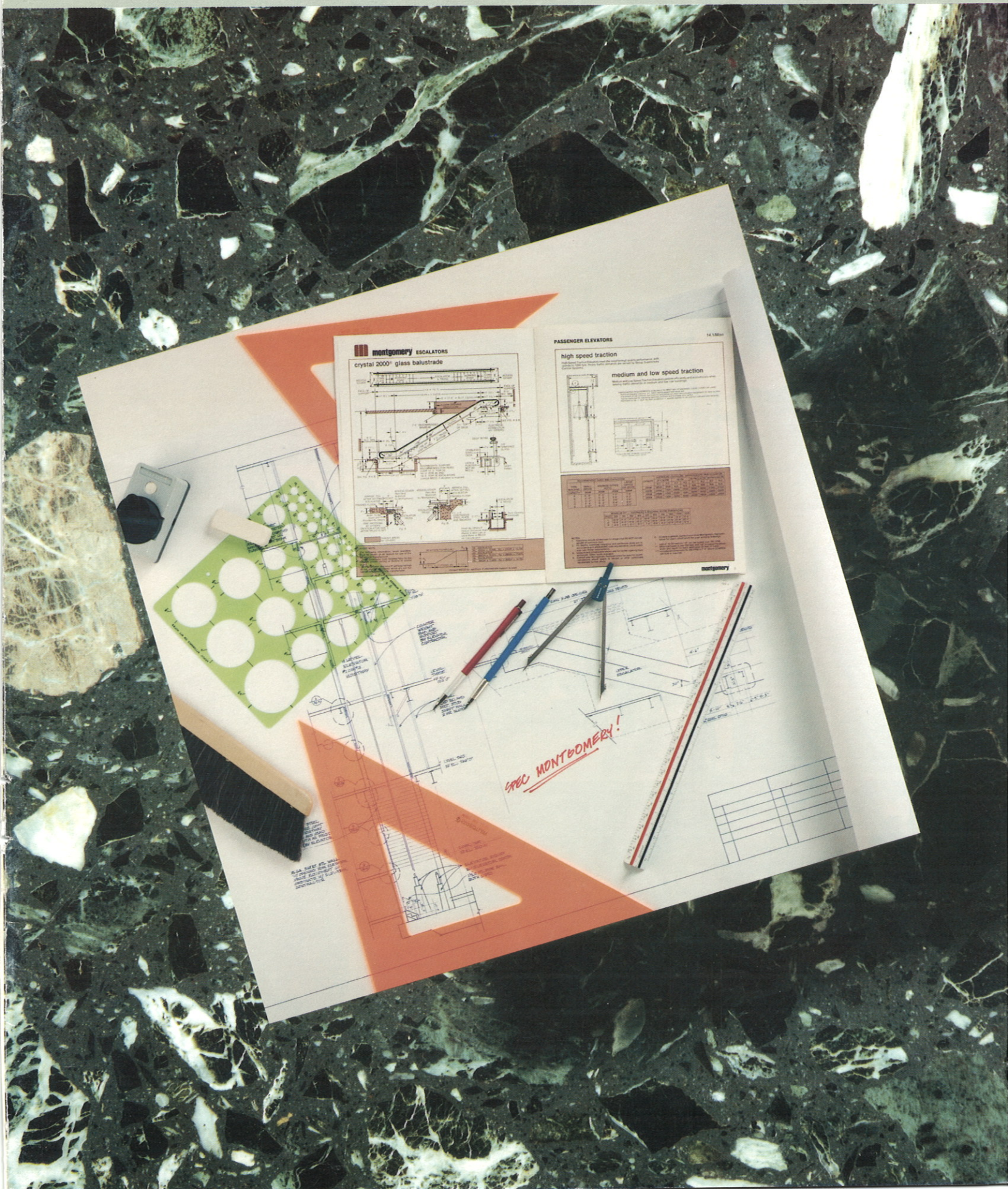




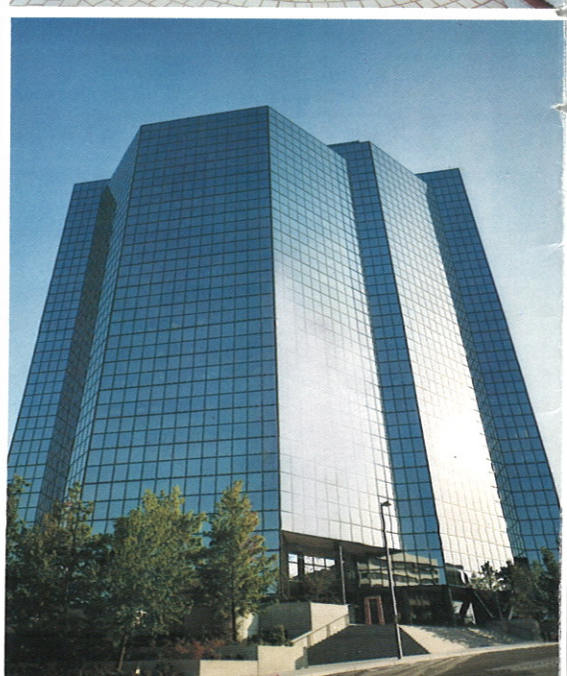
**14200/MON**  
**BuyLine 3185**







Upper Left - Lambert Field, St. Louis  
 Center Left - Vista Hotel, Kansas City  
 Center - Vista Hotel, Kansas City  
 Center Right - One Camelback, Phoenix  
 Lower - One Bellevue Center, Bellevue, Washington





## growth through innovation

### SINCE 1892

Montgomery Elevator Company has maintained the highest standards of quality in the design and manufacture of vertical transportation equipment. During these years, Montgomery Elevator Company has provided equipment for a wide range of vertical transportation requirements.

### PRODUCTS

Montgomery offers a UNITED STATES engineered and manufactured product to meet virtually any vertical transportation need.

- Electric Elevators—Geared, Gearless and Oil Hydraulic, Passenger and Freight;

- **MEGATECH**® Vertical Transportation Systems—  
The latest in lightweight/high strength technology.  
Advanced power control and programmable logic control.

Advanced Components—

**miprom II**™ Programmable Logic Control

**VECTOR**™ Elevator Fixture System

**TRIAD**™ Lightweight/High Strength Elevator Cars

Power Controls:

**SPECTRON**®

**SSC-6610**®

**ULTRON**

- Standard Pre-Manufactured Passenger Elevators—Geared or Oil Hydraulic;

**SPM**®

**HH-II**™

**MX SERIES**®

- ESCALATORS; POWER WALKS AND POWER RAMPS;
- Electric Dumbwaiters; Stage Lifts and other special lift applications.

### RESEARCH & DEVELOPMENT


An on-going program in the pioneering application of advanced vertical transportation technology. Montgomery's continuing search for improved design, greater safety and more economical operation is unending.

### SALES & SERVICE

The Montgomery Sales and Service organization, second largest in the industry, has more than 200 offices throughout the Western Hemisphere and overseas. Montgomery is the largest independent exclusive elevator and escalator manufacturer in the Western Hemisphere.

### DESIGN SERVICE

Montgomery personnel are continuously trained in the proper application of the complete product line. Design assistance in building traffic analysis, preliminary layout planning and specification preparation are some of the design services offered by Montgomery throughout the United States.

 Montgomery PREVENTIVE MAINTENANCE (PM) service programs, designed for Montgomery equipment and also equipment of other manufacturers. Factory trained service personnel follow strict schedules of examination using proven procedures assuring quality performance and dependable operation.

MONTGOMERY INNOVATION—A foundation for your growth.

### TABLE OF CONTENTS

#### PASSENGER ELEVATORS

High, Medium and Low Speed Traction	4
SPM standard pre-manufactured traction	5
Basement Traction	6
Hospital Shape Traction	7
Oil Hydraulic	8
SPM (Inground) Oil Hydraulic	9
SPM Holeless Oil Hydraulic	10
HH-II Holeless Oil Hydraulic	11
MX-Series Inground Oil Hydraulic	11

#### ENTRANCES

Single Speed Slide	12
Two Speed Slide	12
Center Opening Slide	12
Freight Elevators Doors	12
Dumbwaiter Doors	13

#### FREIGHT ELEVATORS

Traction	14
Oil Hydraulic	15

#### DUMBWAITERS

Electric Traction and Drum Drive	13
----------------------------------	----

#### ESCALATORS

Crystal Balustrade & Solid Balustrade	16 & 17
Standard Equipment	18

#### POWER WALKS & POWER RAMPS

	19
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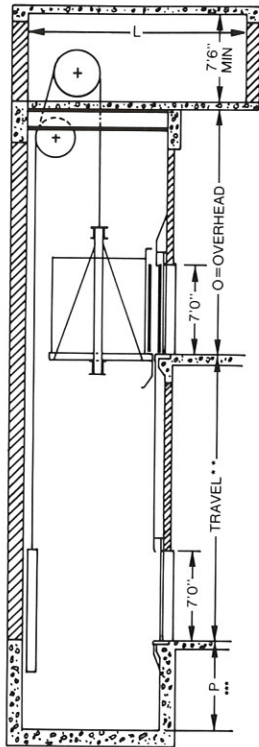
#### SALES/SERVICE OFFICES

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## high speed traction

High-Speed Traction Elevators meet the need for high quality performance, with speeds to 1200 fpm. Heavy traffic demands are served by Group Supervisory Control Systems.

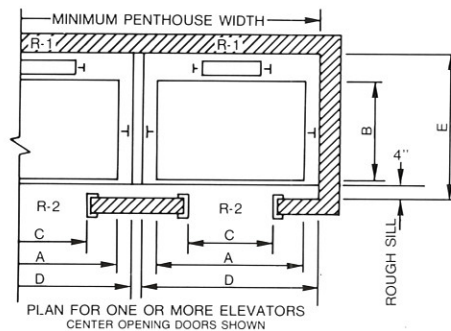


## medium and low speed traction

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

HANDICAPPED REQUIREMENTS AVAILABLE TO MEET NEII STANDARDS, LOCAL CODES OR LAWS.  
National Elevator Industry, Inc. (NEII) Handicapped Standards are:  
Placement of car controls, hall buttons and phone (or intercommunication equipment) for easy access.  
Tactile markings for operating switches, buttons and hoistway door jams.  
Handrails in car — dual ray door protection — audible signals in car position indicator and lanterns.

For hoistway entrance and sill detail information see page 12.



RECOMMENDED SIZES AND CAPACITIES

RECOMMENDED SIZES AND CAPACITIES				
TYPE BUILDING	SMALL OFFICE	AVERAGE OFFICE 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"

CAPACITY	OVERHEAD LOADS/LBS. (APPROXIMATE) PER ELEVATOR							
	UP TO 350 FPM		400 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

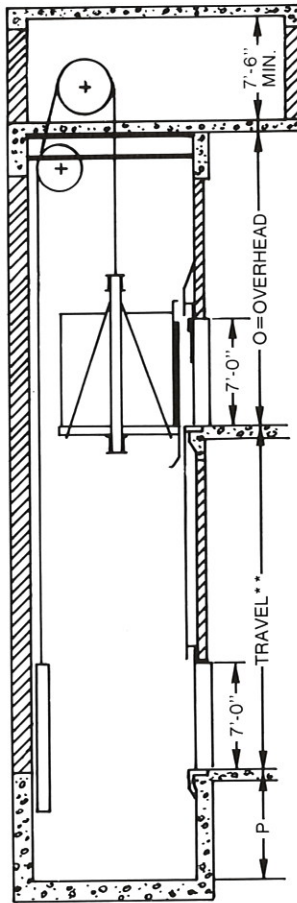
SPEED	200	300	350	400	500	600	700	*800	*1000	*1200
L	16'-0"	15'-0"	15'-0"	15'-0"	18'-6"	18'-6"	18'-6"	18'-6"	18'-6"	18'-6"
O	15'-6"	16'-0"	16'-6"	16'-8"	17'-6"	18'-6"	19'-6"	21'-6"	21'-6"	23'-0"
P	4'-0"	4'-6"	5'-1"	5'-7"	7'-8"	8'-6"	9'-2"	12'-0"	12'-0"	12'-0"

### NOTES:

- Reactions include allowances for impact but DO NOT include weight of concrete slab.
- Pit depths, overhead clearance and penthouse sizes are in accordance with ANSI/ASME code requirements. Local codes may vary these requirements.
- Add 5" to "E" for counterweight with safety.
- Layouts and dimensions shown are for center opening type entrances. Other types available.

- Consult your Montgomery Representative for specific recommendations where space is limited or other conditions necessitate further study.
- All data is general. Consult your local Montgomery Representative for exact information for your working drawings.
  - \* Add 2" to Dimension "D" for car speed over 700 FPM.
  - \*\* When car travel is over 150 feet, add 1/4" to overall hoistway width and depth for each additional 25 feet of travel.
  - \*\*\* Increase pit dimension for 400 FPM to 7'-4" where COMPENSATION is required.





## spm® standard pre-manufactured traction elevators

SPM® elevators perform efficiently and economically when serving traffic demands in medium and low rise buildings. Standard pre-manufacturing by Montgomery means lower cost to the owner, faster delivery and installation while maintaining "custom" quality and flexibility.

SPM® elevators have capacities of 2500, 3000, 3500, 4000 and 4500 pounds and offer speeds of 200 or 350 FPM. They are offered in single or multiple car operation up to a 4 car group. Flexibility is offered in entrance and fixture selection, and optional decor and finishes.

HANDICAPPED REQUIREMENTS AVAILABLE TO MEET NEII STANDARDS, LOCAL CODES OR LAWS.

National Elevator Industry, Inc. (NEII) Handicapped Standards are:

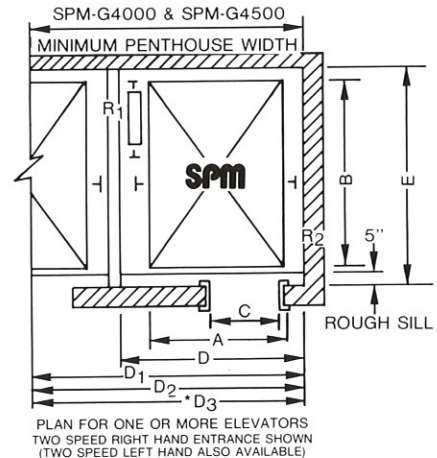
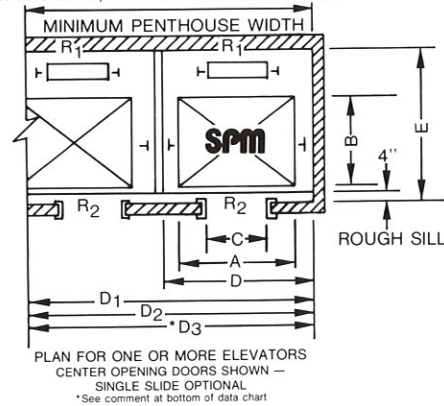
Placement of car controls, hall buttons and phone (or intercommunication equipment) for easy access.

Tactile markings for operating switches, buttons and hoistway door jams.

Handrails in car — dual ray door protection — audible signals in car position indicator and lanterns.

For hoistway entrance and sill detail information see page 12.

SPM-G2500, SPM-G3000 & SPM-G3500



### NOTES:

1. Reactions include allowances for impact but DO NOT include weight of concrete slab.
2. Pit depths, overhead clearance and penthouse sizes are in accordance with ANSI/ASME code requirements. Local codes may vary these requirements.
3. Consult your Montgomery Representative for specific recommendations where space is limited or other conditions may necessitate further study.
4. All data is general. Consult your local Montgomery Representative for exact information for your working drawings.
5. For complete details ask for Montgomery brochure SF2056-R28.

\*When building or elevator code requires 4 car systems to be placed into 2 hoistways, this dimension must be increased. Consult your local Montgomery Representative.

\*\*Subject to vertical transportation study.

CAPACITIES - SPEED - GENERAL ARRANGEMENTS - SPACE REQUIREMENTS						
MODEL	SPM-G 2500	SPM-G 3000	SPM-G 3500	SPM-G 4000	SPM-G 4500	
CAPACITY	2500#	3000#	3500#	4000#	4500#	
SPEED	200 FPM - OR - 350 FPM					
MAX. TRAVEL	200 FT.	200 FT. @ 200 FPM 300 FT. @ 350 FPM	200 FT. @ 200 FPM 250 FT. @ 350 FPM	200 FT.	200 FT. @ 200 FPM 300 FT. @ 350 FPM	
MAX. LANDINGS	16 @ 200 FPM 20 @ 350 FPM	16 @ 200 FPM 30 @ 350 FPM	16 @ 200 FPM 25 @ 350 FPM	16 @ 200 FPM 20 @ 350 FPM	16 @ 200 FPM 25 @ 350 FPM	
ALPHABETICAL DIMENSIONS	A	7'-0"	7'-0"	7'-0"	5'-8"	5'-8"
	B	5'-0"	5'-6"	6'-2"	8'-9"	9'-4"
	C	3'-6"	3'-6"	3'-6"	4'-0"	4'-0"
	D (1 CAR)	8'-4"	8'-4"	8'-4"	7'-8"	7'-8"
	D1 (2 CARS)	17'-0"	17'-0"	17'-0"	15'-8"	15'-8"
	D2 (3 CARS)	25'-8"	25'-8"	25'-8"	23'-8"	23'-8"
	D3 (4 CARS)	34'-4"	34'-4"	34'-4"	31'-8"	31'-8"
	E	6'-7"	7'-1"	7'-7"	9'-8"	10'-3"
	O (200 FPM)	15'-4"	15'-4"	15'-4"	15'-4"	15'-4"
	O (350 FPM)	16'-0"	16'-0"	16'-0"	16'-0"	16'-0"
	P (200 FPM)	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"
	P (350 FPM)	5'-0"	5'-0"	5'-0"	5'-0"	5'-0"
CLEAR CAR SIZE (WIDE X DEEP)		6'-8" x 4'-3"	6'-8" x 4'-9"	6'-8" x 5'-5"	5'-4" x 7'-11"	5'-4" x 8'-6"
MACHINE ROOM (WIDE X DEEP)						
1 CAR		8'-4" x 13'-8"	8'-4" x 13'-8"	8'-4" x 13'-8"	7'-8" x 16'-10"	7'-8" x 17'-5"
2 CARS		17'-0" x 13'-8"	17'-0" x 13'-8"	17'-0" x 13'-8"	15'-8" x 16'-10"	15'-8" x 17'-5"
3 CARS		25'-8" x 13'-8"	25'-8" x 13'-8"	25'-8" x 13'-8"	23'-8" x 16'-10"	23'-8" x 17'-5"
4 CARS		34'-4" x 13'-8"	34'-4" x 13'-8"	34'-4" x 13'-8"	31'-8" x 16'-10"	31'-8" x 17'-5"
OVERHEAD LOADS (APPROX. PER ELEV)						
R-1		22,000 LBS.	23,000 LBS.	24,500 LBS.	29,500 LBS.	30,500 LBS.
R-2		11,500 LBS.	11,500 LBS.	13,000 LBS.	11,000 LBS.	11,500 LBS.





**montgomery®**

**PASSENGER ELEVATORS**

## basement traction — medium and low speed

Basement traction elevators are utilized for limited overhead conditions in new and existing buildings. This type of elevator facilitates future floor expansion.

HANDICAPPED REQUIREMENTS AVAILABLE TO MEET NEII STANDARDS, LOCAL CODES OR LAWS.

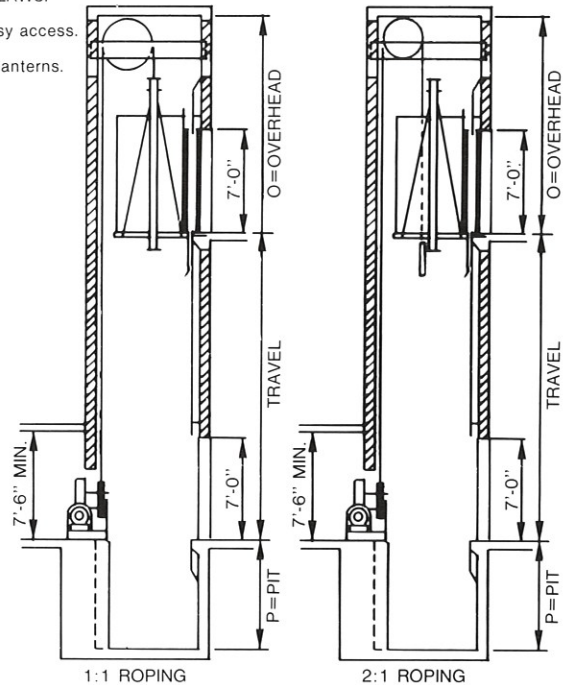
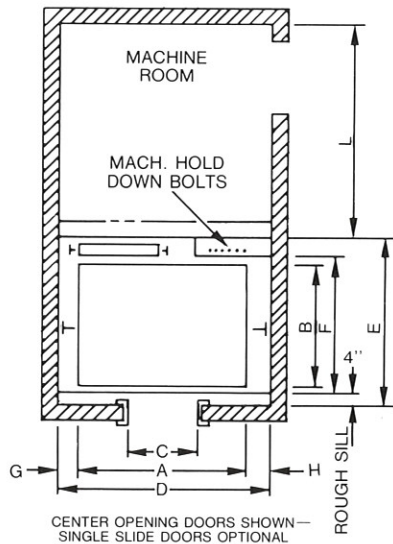
National Elevator Industry, Inc. (NEII) Handicapped Standards are:

Placement of car controls, hall buttons and phone (or intercommunication equipment) for easy access.

Tactile markings for operating switches, buttons and hoistway door jams.

Handrails in car — dual ray door protection — audible signals in car position indicator and lanterns.

For hoistway entrance and sill detail information see page 12.



### 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

TYPE BUILDING	APARTMENT OR SMALL OFFICE	AVERAGE OFFICE 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'-5"	5'-5"	5'-11"	6'-7"
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"	4'-0"	4'-6"	4'-6"	5'-1"

### 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

TYPE BUILDING	APARTMENT OR SMALL OFFICE	AVERAGE OFFICE HOTEL	
CAPACITY	2000#	2500#	3000#
A	6'-0"	7'-0"	7'-0"
B	5'-0"	5'-0"	5'-6"
C	3'-0"	3'-6"	3'-6"
D	7'-10"	8'-10"	8'-10"
E	6'-10"	6'-10"	7'-4"
F	5'-5"	5'-5"	5'-11"
G	10"	10"	10"
H	12"	12"	12"

#### RECOMMENDED MACHINE ROOM OVERHEAD & PIT DIMENSIONS

SPEED	100	200	250	300
L	10'-6"	10'-6"	10'-6"	10'-6"
O	13'-0"	13'-2"	13'-7"	13'-8"
P	5'-6"	6'-6"	6'-11"	7'-4"

#### NOTES:

1. Pit depths, overhead clearance and penthouse sizes are in accordance with ANSI/ASME code requirements. Local codes may vary these requirements.
2. Add 5" to "E" for counterweight with safety at speeds of 200 F.P.M. or more.
3. Layouts and dimensions shown are for center opening type entrances.

4. Consult your Montgomery Representative for specific recommendations where space is limited or other conditions may necessitate further study.
5. All data is general. Consult your local Montgomery Representative for exact information for your working drawings.



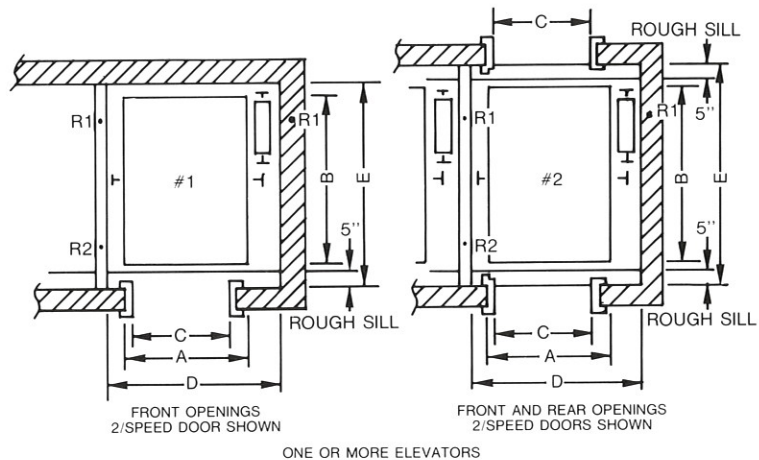
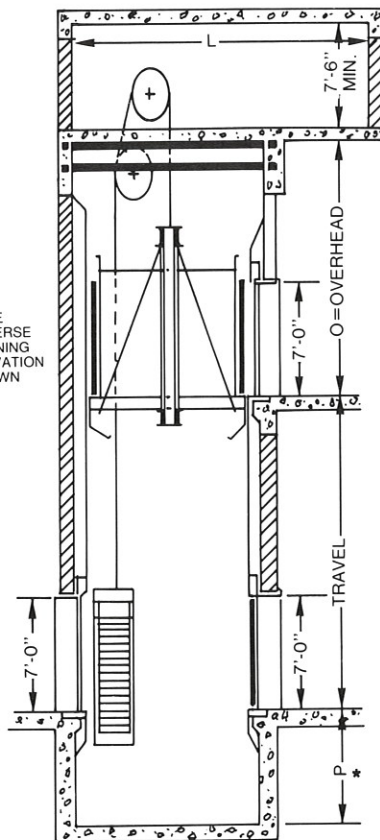
## service/passenger traction (hospital shape)

Service/Passenger (Hospital Shape) Traction Elevators are designed in a wide range of speeds for individual applications. Emergency and independent service as well as auxiliary power features are available.

HANDICAPPED REQUIREMENTS AVAILABLE TO MEET NEII STANDARDS, LOCAL CODES OR LAWS.  
National Elevator Industry, Inc. (NEII) Handicapped Standards are:  
Placement of car controls, hall buttons and phone (or intercommunication equipment) for easy access.  
Tactile markings for operating switches, buttons and hoistway door jams.  
Handrails in car — dual ray door protection — audible signals in car position indicator and lanterns.

For hoistway entrance and sill detail information see page 12.

NOTE  
REVERSE  
OPENING  
ELEVATION  
SHOWN



ONE OR MORE ELEVATORS

### RECOMMENDED SIZES & CAPACITIES

CAPACITY	3500#		4000#		4500#		5000#	
	#1	#2	#1	#2	#1	#2	#1	#2
A	5'-4"	5'-4"	5'-8"	5'-8"	5'-8"	5'-8"	6'-4"	6'-4"
B	8'-4"	9'-0"	8'-9"	9'-5"	9'-4"	10'-0"	8'-10"	9'-6"
C	3'-8"	3'-8"	4'-0"	4'-0"	4'-0"	4'-0"	4'-6"	4'-6"
D	7'-5"	7'-5"	7'-8"	7'-8"	7'-8"	7'-8"	8'-5"	8'-5"
E	9'-3"	10'-3½"	9'-8"	10'-8½"	10'-3"	11'-3½"	9'-9"	10'-9½"

### MINIMUM PIT, OVERHEAD AND MACHINE ROOM DIMENSIONS

SPEED	100	200	350	500
L	18'-0"	18'-0"	18'-0"	19'-0"
O	15'-6"	15'-9"	16'-6"	17'-7"
P	4'-0"	4'-0"	5'-1"	6'-7"

\* 7'-8" Pit required with cable compensation.

### APPROXIMATE OVERHEAD LOADS/LBS. PER PASSENGER ELEVATOR

CAPACITY	R-1	R-2
3500	28500	10500
4000	29500	11000
4500	30500	11500
5000	36000	15500

### NOTES:

1. Reactions include allowances for impact but DO NOT include weight of concrete slab.
2. Pit depths, overhead clearance and penthouse sizes are in accordance with ANSI/ASME code requirements. Local codes may vary these requirements.
3. Add 5" to "D" for counterweight with safety at speeds of 200 F.P.M. or more.
4. Layouts and dimensions shown are for two speed type entrances.
5. Consult your Montgomery Representative for specific recommendations where space is limited or other conditions may necessitate further study.
6. All data is general. Consult your local Montgomery Representative for exact information for your working drawings.





**montgomery®**

**PASSENGER & SERVICE ELEVATORS**

## oil hydraulic

Oil Hydraulic Elevators are designed to meet varying performance requirements with car speeds to 200 feet per minute and maximum travel to 70 feet. They are easily adapted to most low rise buildings and frequently produce economic advantages over hoist rope traction elevators.

HANDICAPPED REQUIREMENTS AVAILABLE TO MEET NEII STANDARDS, LOCAL CODES OR LAWS.

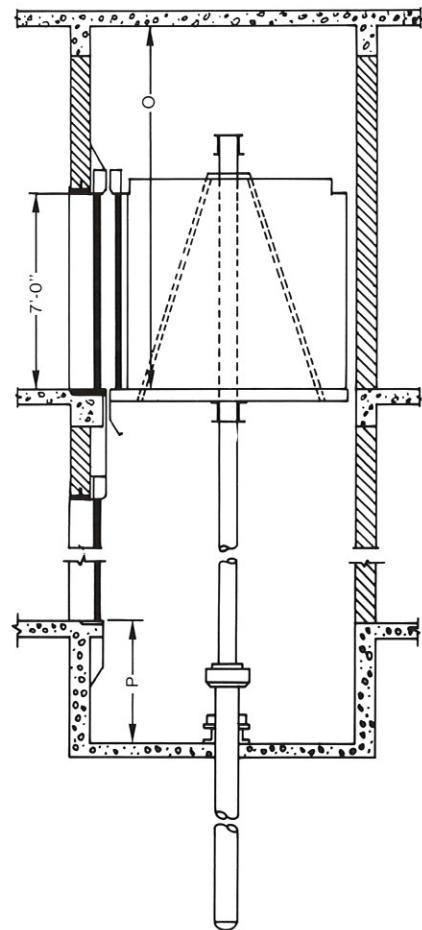
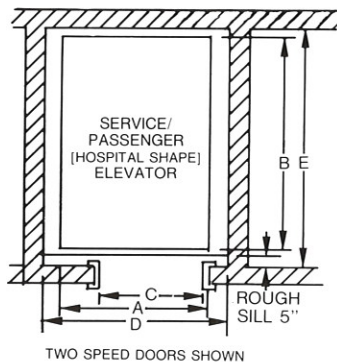
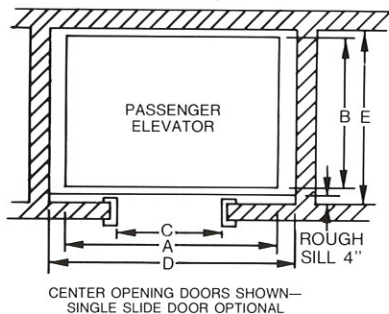
National Elevator Industry, Inc. (NEII) Handicapped Standards are:

Placement of car controls, hall buttons and phone (or intercommunication equipment) for easy access.

Tactile markings for operating switches, buttons and hoistway door jamba.

Handrails in car — dual ray door protection — audible signals in car position indicator and lanterns.

For hoistway entrance and sill detail information see page 12.

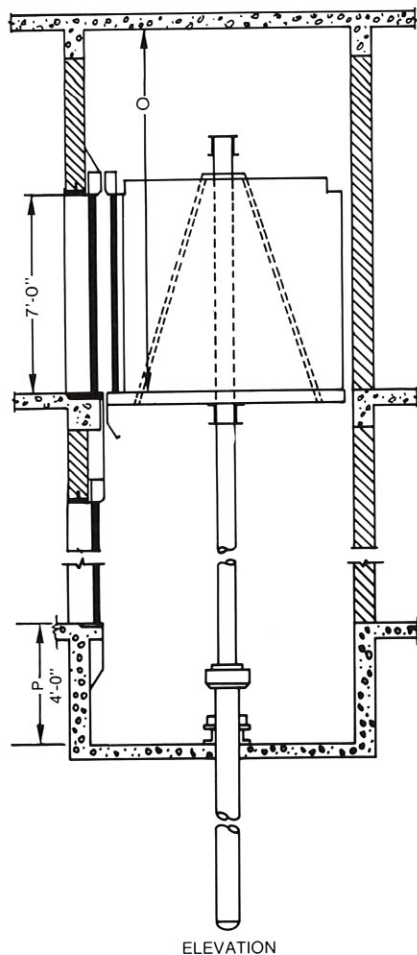


FOR OFFICE BUILDINGS, HOTELS, MOTELS, APARTMENTS, BANKS, STORES, LIBRARIES, ETC.						HOSPITALS AND INSTITUTIONS			1 - Single Entrance 2 - Double Entrance			
CAPACITY	1500#	2000#	2500#	3000#	3500#	CAPACITY	3500#		4000#		5000#	
							1	2	1	2	1	2
A	4'-10"	6'-0"	7'-0"	7'-0"	8'-0"	A	5'-4"	5'-4"	5'-8"	5'-8"	6'- 4"	6'-4"
B	5'- 0"	5'-0"	5'-0"	5'-6"	5'-6"	B	8'-4"	9'-0"	8'-9"	9'-5"	8'-10"	9'-6"
C	2'- 8"	3'-0"	3'-6"	3'-6"	4'-0"	C	3'-8"	3'-8"	4'-0"	4'-0"	4'- 6"	4'-6"
D	6'- 8"	7'-4"	8'-4"	8'-4"	9'-4"	D	6'-9"	6'-9"	7'-4"	7'-4"	8'- 0"	8'-0"
E	5'- 9"	5'-9"	5'-9"	6'-3"	6'-3"	E	9'-3"	10'-3½"	9'-8"	10'-8½"	9'- 9"	10'-9½"
O	12'- 8"	12'-8"	12'-8"	12'-8"	12'-8"	O	13'-0"	13'-0"	13'-0"	13'-0"	13'- 0"	13'-0"
P	4'- 0"	4'-0"	4'-0"	4'-0"	4'-0"	P	4'-0"	4'-0"	4'-0"	4'-0"	4'- 0"	4'-0"

### NOTES:

1. 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 Representative for the exact size.
2. Pit depths and overhead clearances are in accordance with ANSI/ASME code requirements. Local codes may vary these requirements.
3. Layout and dimensions shown for passenger elevators based on center opening type entrances and for hospital elevators based on two speed type entrances.
4. Consult your local Montgomery Office for more information regarding Notes 1 and 2.
5. All data is general. Consult your local Montgomery Representative for exact information for your working drawings.





ELEVATION

## SPM® standard pre-manufactured (inground) oil hydraulic

SPM® Oil Hydraulic Elevators meet Montgomery's high standards of quality. STANDARD equipment is PRE-MANUFACTURED in six sizes, with the advantages of quick delivery, low cost and reliable service while maintaining "custom" quality. SPM's offer travel to six floors and car speeds to 150 fpm. Montgomery SPM's offer flexibility in entrance and fixture selection and optional decor and finishes.

SPM® Oil Hydraulic Elevators are furnished with Montgomery MIPROM® micro-processor logic control for high reliability, economy and programmable flexibility.

### HANDICAPPED REQUIREMENTS AVAILABLE TO MEET NEII STANDARDS, LOCAL CODES OR LAWS.

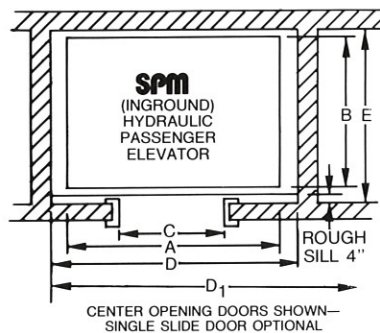
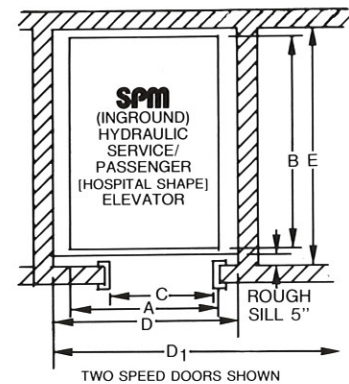
National Elevator Industry, Inc. (NEII) Handicapped Standards are:

Placement of car controls, hall buttons and phone (or intercommunication equipment) for easy access.

Tactile markings for operating switches, buttons and hoistway door jambs.

Handrails in car — dual ray door protection — audible signals in car position indicator and lanterns.

For hoistway entrance and sill detail information see page 12.

CENTER OPENING DOORS SHOWN—  
SINGLE SLIDE DOOR OPTIONAL

TWO SPEED DOORS SHOWN

### NOTES:

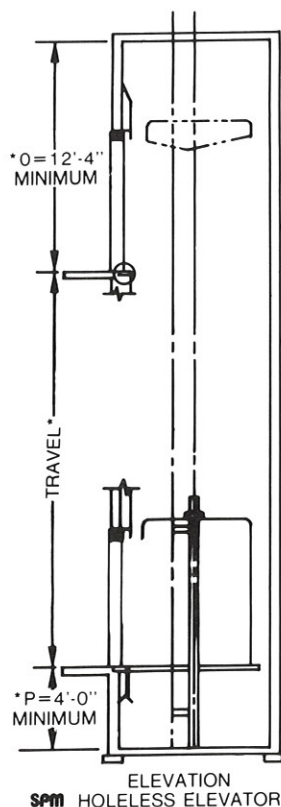
1. A legal machine room meeting code requirements and ventilated with temperature between 65° and 100°F, must be provided.
2. Pit depth and overhead clearance are in accordance with ANSI/ASME code requirements. Local codes may vary these requirements.
3. Consult your local Montgomery Office for more information regarding Notes 1 and 2.
4. All data is general. Consult your local Montgomery Representative for exact information for your working drawings.
5. For complete details ask your local Montgomery Office for SPM brochure SF2043-R18.
6. R/H = RIGHT HAND

(i.e. Standing in car facing door)  
door OPENS to right.

L/H = LEFT HAND

CAPACITIES - SPEEDS - GENERAL ARRANGEMENTS - SPACE REQUIREMENTS							
MODEL	SPM-H 1500	SPM-H 2000	SPM-H 2500	SPM-H 3000	SPM-H 3500	SPM-H 4000	
TYPE	(INGROUND)	(INGROUND)	(INGROUND)	(INGROUND)	(INGROUND)	(INGROUND)	
SERVICE	PASSENGER	PASSENGER	PASSENGER	PASSENGER	PASSENGER	HOSPITAL/ SERVICE	
CAPACITY	1500#	2000#	2500#	3000#	3500#	4000#	
SPEED (FPM)	125	125	125 & 150	125 & 150	125 & 150	150	
MAX. TRAVEL	41'-0"	38'-0"	36'-0" @ 125 52'-0" @ 150	36'-0" @ 125 50'-0" @ 150	36'-0" @ 125 48'-0" @ 150	53'-0"	
MAX. LANDINGS	5	5	5 @ 125 6 @ 150	5 @ 125 6 @ 150	5 @ 125 6 @ 150	6	
ALPHABETICAL DIMENSIONS	A	4'-10"	6'-0"	7'-0"	7'-0"	5'-8"	
	B	5'-0"	5'-0"	5'-0"	6'-2"	8'-9"	
	C	2'-8"	3'-0"	3'-6"	3'-6"	4'-0"	
	D (1 CAR)	6'-8"	7'-4"	8'-4"	8'-4"	7'-4"	
	D1 (2 CAR)	N/A	N/A	17'-0"	17'-0"	15'-0"	
	E	5'-9"	5'-9"	5'-9"	6'-11"	9'-8"	
	O (125 FPM)	12'-4"	12'-4"	12'-4"	12'-4"	N/A	
	O (150 FPM)	N/A	N/A	12'-6"	12'-6"	12'-6"	
CLEAR CAR SIZE (WIDE x DEEP)	4'-6" x 4'-3"	5'-8" x 4'-3"	6'-8" x 4'-3"	6'-8" x 4'-9"	6'-8" x 5'-5"	5'-4" x 7'-11"	
MACHINE ROOM (WIDE x DEEP)	1 CAR @ 125	8'-4" x 5'-3"	8'-4" x 5'-3"	8'-4" x 5'-3"	9'-0" x 6'-0"	9'-0" x 6'-0"	---
	1 CAR @ 150	N/A	N/A	9'-0" x 6'-0"	9'-0" x 6'-0"	9'-0" x 6'-0"	9'-6" x 6'-2"
	2 CAR @ 125	N/A	N/A	17'-0" x 6'-0"	17'-0" x 6'-0"	17'-0" x 6'-0"	---
	2 CAR @ 150	N/A	N/A	17'-0" x 6'-0"	17'-0" x 6'-0"	17'-0" x 6'-0"	12'-0" x 10'-0"
MACHINE ROOM CLEAR HEIGHT	7'-6" MINIMUM						
HOISTWAY ENTRANCE TYPES (ALL 7'-0" H):							
STANDARD	SINGLE SLIDE R/H	SINGLE SLIDE R/H	CENTER OPENING	CENTER OPENING	CENTER OPENING	TWO SPEED R/H	
OPTIONAL	SINGLE SLIDE L/H	SINGLE SLIDE L/H	SINGLE SLIDE R/H	SINGLE SLIDE R/H	SINGLE SLIDE R/H	TWO SPEED L/H	
OPTIONAL	---	CENTER OPENING	SINGLE SLIDE L/H	SINGLE SLIDE L/H	SINGLE SLIDE L/H	---	





**\*NOTE:**

At 100 FPM (travel over 12'-6") — OR —  
125 FPM (travel over 11'-10")  
Pit and/or Overhead must INCREASE by an  
amount equal to the ADDITIONAL TRAVEL.

## spm® standard pre-manufactured HOLELESS oil hydraulic

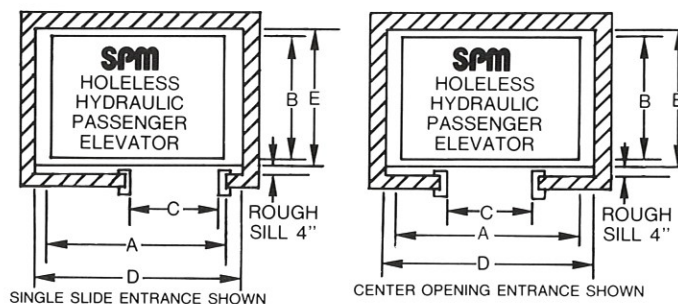
STANDARD PRE-MANUFACTURED (SPM) Holeless Oil Hydraulic Elevators meet Montgomery's high standards of quality. SPM Holeless Elevators are available in FOUR sizes. They have the advantage of quick delivery, low cost and reliable service while maintaining "custom" quality. SPM Holeless Elevators offer travel to three floors with car speeds of 100 FPM and 125 FPM. They offer flexibility in entrance and fixture selection with optional decor and finishes.

SPM® Holeless Oil Hydraulic Elevators are furnished with Montgomery MIPROM® Microprocessor Logic Control for high reliability, economy and programmable flexibility.

**HANDICAPPED REQUIREMENTS AVAILABLE TO MEET NEII STANDARDS, LOCAL CODES OR LAWS.**

National Elevator Industry, Inc. (NEII) Handicapped Standards are:  
Placement of car controls, hall buttons and phone (or intercommunication equipment) for easy access.  
Tactile markings for operating switches, buttons and hoistway door jambs.  
Handrails in car — dual ray door protection — audible signals in car position indicator and lanterns.

For hoistway entrance and sill detail information see page 12.



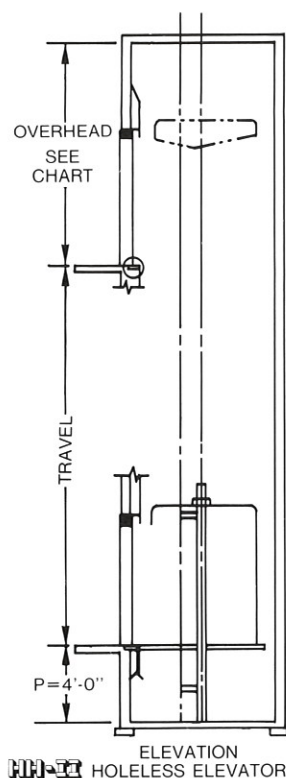
**NOTES:**

1. A legal machine room meeting code requirements and ventilated with temperature between 65° and 100°F, must be provided.
2. Pit depth and overhead clearance are in accordance with ANSI/ASME code requirements. Local codes may vary these requirements.
3. Consult your local Montgomery Office for more information regarding Notes 1 and 2.
4. All data is general. Consult your local Montgomery Representative for exact information for your working drawings.
5. For complete details ask your local Montgomery Office for SPM Holeless Brochure SF2386-258.
6. R/H = RIGHT HAND  
(i.e. Standing in car facing door)  
door OPENS to right.

L/H = LEFT HAND

CAPACITIES - SPEEDS - GENERAL ARRANGEMENTS - SPACE REQUIREMENTS					
MODEL		SPM-H 1500	SPM-H 2000	SPM-H 2500	SPM-H 3000
TYPE		HOLELESS	HOLELESS	HOLELESS	HOLELESS
SERVICE		PASSENGER	PASSENGER	PASSENGER	PASSENGER
CAPACITY		1500#	2000#	2500#	3000#
SPEED (FPM)		100 & 125	100 & 125	100 & 125	100 & 125
MAX. TRAVEL		20'-0"	20'-0"	20'-0"	20'-0"
MAX. LANDINGS		3	3	3	3
ALPHABETICAL DIMENSIONS	A	4'-10"	6'-0"	7'-0"	7'-0"
	B	5'-0"	5'-0"	5'-0"	5'-6"
	C	2'-8"	3'-0"	3'-6"	3'-6"
	D	6'-8"	7'-4"	8'-4"	8'-4"
	E	5'-9"	5'-9"	5'-9"	6'-3"
CLEAR CAR SIZE (WIDE X DEEP)		4'-6" x 4'-3"	5'-8" x 4'-3"	6'-8" x 4'-3"	6'-8" x 4'-9"
MACHINE ROOM (WIDE X DEEP)					
100 FPM		8'-4" x 5'-3"	8'-4" x 5'-3"	8'-4" x 5'-3"	9'-0" x 6'-0"
125 FPM		8'-4" x 5'-3"	8'-4" x 5'-3"	9'-0" x 6'-0"	9'-0" x 6'-0"
MACHINE ROOM CLEAR HEIGHT		7'-6" MINIMUM			
HOISTWAY ENTRANCE TYPES (ALL 7'-0" H); STANDARD OPTIONAL OPTIONAL		SINGLE SLIDE R/H SINGLE SLIDE L/H ---	SINGLE SLIDE R/H SINGLE SLIDE L/H CENTER OPENING	CENTER OPENING SINGLE SLIDE R/H SINGLE SLIDE L/H	CENTER OPENING SINGLE SLIDE R/H SINGLE SLIDE L/H




**HH-II™**

## holeless oil hydraulic

HH-II Holeless Oil Hydraulic Elevators offer very competitive pricing as well as extremely short lead time for fabrication, shipment and installation. The HH-II line of Holeless Oil Hydraulic Elevators is offered in two sizes; each designed to service two landings in line. Car speeds of 80 FPM and 125 FPM are available. All necessary approvals are accomplished on a single sheet!

Because of the broad range of STANDARD FEATURES on the HH-II, Montgomery is able to fabricate and ship all necessary material in as little as six weeks from the date of order and approval receipt. However, there is no sacrifice in the flexibility of entrance and decor options to "customize" your HH-II Holeless Oil Hydraulic Passenger Elevator.

HANDICAPPED REQUIREMENTS AVAILABLE TO MEET NEII STANDARDS, LOCAL CODES OR LAWS.

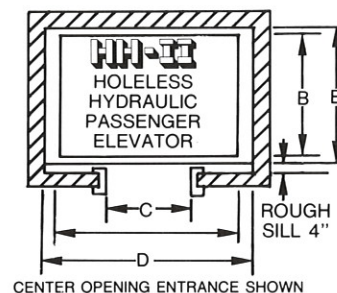
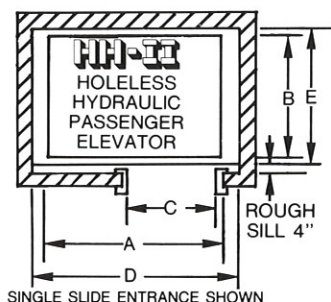
National Elevator Industry, Inc. (NEII) Handicapped Standards are:

Placement of car controls, hall buttons and phone (or intercommunication equipment) for easy access.

Tactile markings for operating switches, buttons and hoistway door jambs.

Handrails in car — dual ray door protection — audible signals in car position indicator and lanterns.

For hoistway entrance and sill detail information see page 12.


**MX SERIES™**

MONTGOMERY'S HH-II ELEVATOR TECHNOLOGY PROVIDING TOTAL STANDARDIZATION, VERY COMPETITIVE PRICING & SHORT MANUFACTURING/INSTALLATION LEAD TIMES IS NOW AVAILABLE FOR TWO AND THREE LANDING INGROUND HYDRAULIC APPLICATIONS FOR CAPACITIES AND SPEEDS SIMILAR TO THE HH-II.

CONTACT YOUR MONTGOMERY REPRESENTATIVE FOR INFORMATION ON THE:

**MX SERIES**

TWO OR THREE LANDING INGROUND HYDRAULIC PASSENGER ELEVATOR FOR TRAVEL UP TO 24'-11".

### NOTES:

1. A legal machine room meeting code requirements and ventilated with temperature between 65° and 100°F must be provided.
2. Pit depth and overhead clearance are in accordance with ANSI/ASME code requirements. Local codes may vary these requirements.
3. Consult your local Montgomery Office for more information regarding Notes 1 and 2.
4. All data is general. Consult your local Montgomery Representative for exact information for your working drawings.
5. For complete details ask your local Montgomery Office for HH-II Holeless Brochure SF2393-R85.
6. R/H = RIGHT HAND  
(i.e. Standing in car facing door)  
Door OPENS to right.

L/H = LEFT HAND

CAPACITIES - SPEEDS - GENERAL ARRANGEMENTS - SPACE REQUIREMENTS			
MODEL	HH-II-2000	HH-II-2500	
TYPE	HOLELESS	HOLELESS	
SERVICE	PASSENGER	PASSENGER	
CAPACITY	2000#	2500#	
SPEED (FPM)	80 & 125	80 & 125	
MIN. TRAVEL	8'-4"	8'-4"	
MAX. TRAVEL	15'-0"	15'-0"	
MAX. LANDINGS	2 Inline	2 Inline	
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"
CLEAR OVERHEAD	80 FPM	Travel from 8'-4" to 12'-6"; Travel from 12'-7" to 15'-0";	0 = 12'-4" 0 = TRAVEL (-) 2"
	125 FPM	Travel from 8'-4" to 11'-10"; Travel from 11'-11" to 15'-0";	0 = 12'-4" 0 = TRAVEL + 6"
CLEAR CAR SIZE (WIDE x DEEP)	5'-8" x 4'-3"	6'-8" x 4'-3"	
MACHINE ROOM (WIDE x DEEP)	7'-6" x 5'-0"	7'-6" x 5'-0"	
MACHINE ROOM CLEAR HEIGHT	7'-6" MINIMUM		
HOISTWAY ENTRANCE TYPES (ALL 7'-0" H):	STANDARD	SINGLE SLIDE R/H	SINGLE SLIDE R/H
	OPTIONAL	SINGLE SLIDE L/H	SINGLE SLIDE L/H
	OPTIONAL	CENTER OPENING	CENTER OPENING
	OPTIONAL	CENTER OPENING	CENTER OPENING





## PASSENGER ENTRANCES

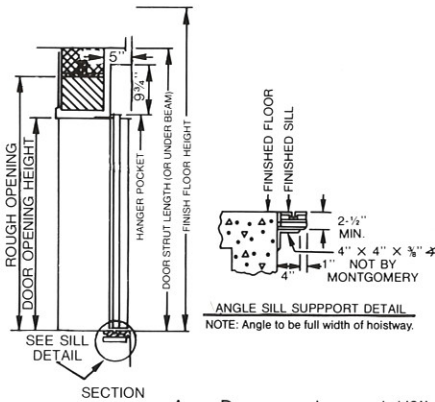
Montgomery standard entrances, as shown, are available in a wide range of finishes and materials designed for masonry wall installation (as shown) and also drywall application. Custom entrances are also available. Contact your local Montgomery Representative for details.  
NOTE: Wherever possible, front hoistway walls should not be erected until after door equipment is installed.

ROUGH OPENING (for standard unit-type frames installed in masonry walls):

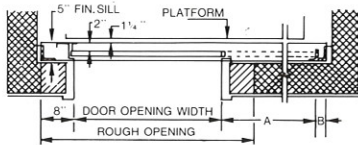
Width of door opening plus 8" on each side. Height of door opening plus 8" above.

### 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.

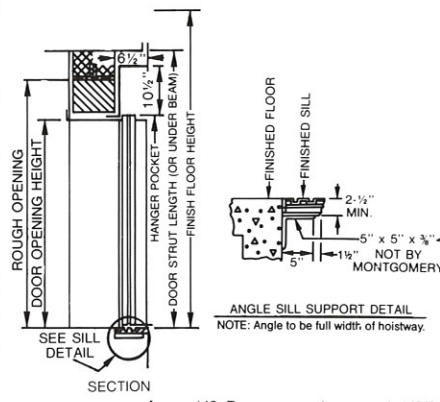


A = Door opening + 1-1/2"  
B = 5" (Power doors)

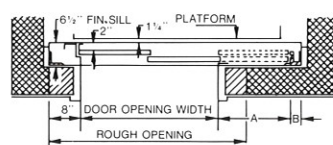


### two speed slide

Door opening is approximately 2/3 width of car.

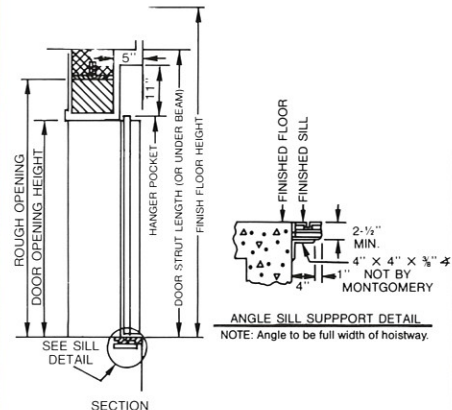


A = 1/2 Door opening + 1-1/8"  
B = 5" (Power doors)

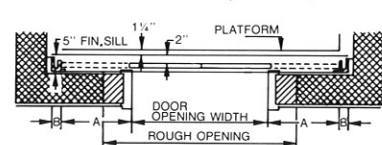


### center opening slide

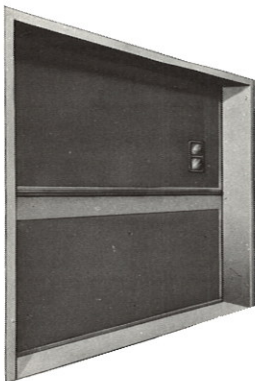
Opening is approximately 1/2 width of car. Simultaneous opening of each door panel, at equal speed, reduces opening time to 1/2 that required for other types of sliding doors.



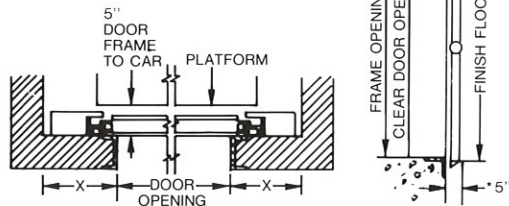
A = 1/2 Door opening + 3/4"  
B = 5" (Power doors)



## freight doors



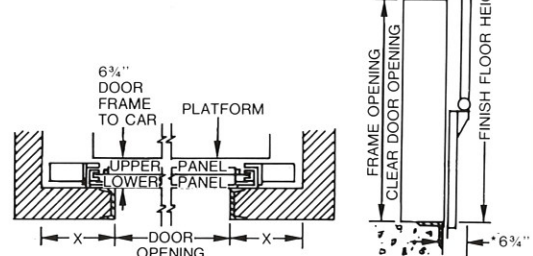
### regular type door



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 Representative for exact information for your drawings.

### pass type door



#### DIMENSION KEY

X - 12" 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.

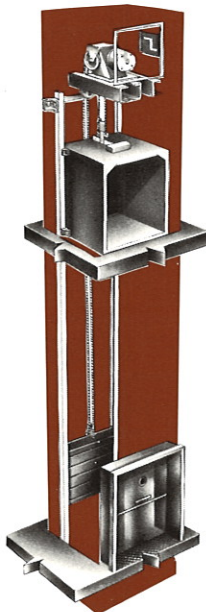


## dumbwaiters

Montgomery has Dumbwaiters for every need including Standard Electric Traction and Drum Machine models. These Dumbwaiters are manufactured to rigid high standards of quality. Standard operation is Automatic Call & Send. For complete details ask your local Montgomery Representative for Montgomery's Brochure SF2048-R289.



TRACTION DRIVE  
COUNTER HEIGHT LOADING



TRACTION DRIVE  
FLOOR LEVEL LOADING



ELECTRIC DRUM DRIVE  
COUNTER HEIGHT LOADING

HIGH SPEED TRACTION DRIVE  
MODELS: 1401 & 1402  
HIGH RISE APPLICATION (6-7-8 Indg.)  
TOP-OF-THE-LINE  
SPEED: 100 FPM to 150 FPM  
(greater on request)  
CAPACITIES: 200 lbs. to 500 lbs.

MODERATE SPEED TRACTION DRIVE  
MODELS: 1431 & 1432  
2 to 6 landing application.  
i.e. Restaurants, apartments, hospitals, hotels, banks, offices, etc.  
Heavy duty guide rail columns support machine (if overhead) and transmit down load weight to bottom of hoistway.  
SPEED: 50 FPM  
CAPACITIES: 75 lbs. to 500 lbs.

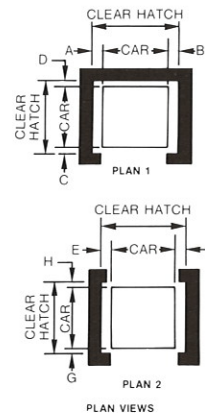
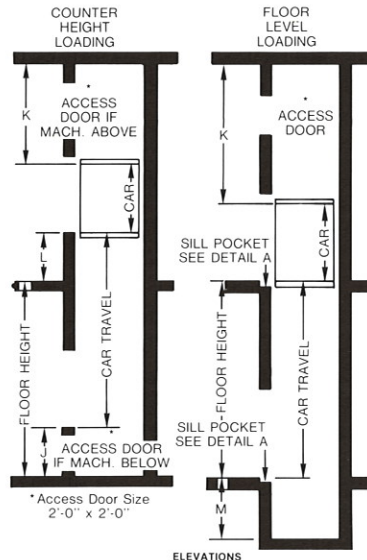
HEAVY DUTY TRACTION DRIVE  
MODELS: 1405 & 1406  
Wheeled truck loading application.  
A substitute for small cargo elevators in commercial, industrial and research buildings, piers, warehouses, libraries, etc.  
SPEED: 50 FPM to 150 FPM

MODERATE SPEED  
ELECTRIC DRUM DRIVE  
MODELS: 1420 & 1421 (counterheight)  
1422 & 1423 (floor level)  
TRAVEL: Up to 35'-0"  
Ideal for non-load bearing walls. These models support and transmit all down loads to bottom of hoistway.  
SPEED: 50 FPM  
CAPACITIES: 150 lbs. to 500 lbs.

MODERATE SPEED  
ELECTRIC DRUM DRIVE  
LETTER LIFT  
TRAVEL: Up to 35'-0"  
SPEED: 50 FPM  
STANDARD CAR SIZES:  
15" W. x 15" D. x 18" H.  
— or —  
20" W. x 20" D. x 18" H.

Consult your Montgomery Representative for additional data on models 884 and 885 for light commercial and residential applications.

NOTE: Except for Models 1441 and 1442 (letter lift), optional car sizes are available up to 9 square feet of floor area and up to 4'-0" in height.



**Detail A**  
Sill pocket — required at all floors for dumbwaiters that load and unload at floor level.  
WALL THICKNESS + 2"

COUNTER HEIGHT LOADING	DIMENSION KEY (ALL IN INCHES)											ELEVATIONS				
	MODEL NO.	TYPE OF MACHINE	MACHINE LOCATION	PLAN 1 OPENINGS FRONT ONLY				PLAN 2 OPENINGS FRONT & REAR								
				A	B	C	D	E	F	G	H	J	K	L	M''	
	1401	Traction	Above	6½	5½	3	6½	6½	5½	3	3	30	54	30	—	
	1402	Traction	Below	6½	5½	3	6½	6½	5½	3	3	34	42	30	—	
	1431	Traction	Above	6½	5½	3	3	6½	5½	3	3	30	48	30	—	
	1432	Traction	Below	6½	5½	3	3	6½	5½	3	3	34	42	30	—	
	1420	Drum	Below	6	6	3	3	6	6	3	3	34	36	30	—	
	1421	Drum	Above	6	6	3	3	6	6	3	3	30	48	30	—	
	1441	Drum	Above	4	4	3	3	4	4	3	3	42	48	42	—	
1442	Drum	Below	4	4	3	3	4	4	3	3	42	42	42	—		
FLOOR LEVEL LOADING	1405	Traction	Above	6½	5½	3	6½	6½	5½	3	3	0	54	0	36	
	1406	Traction	Below (Adjacent)	6½	5½	3	6½	6	6	3	3	0	42	0	36	
	1422	Drum	Below (Adjacent)	6	6	3	3	6	6	3	3	0	42	0	36	
	1423	Drum	Above	6	6	3	3	6	6	3	3	0	48	0	36	

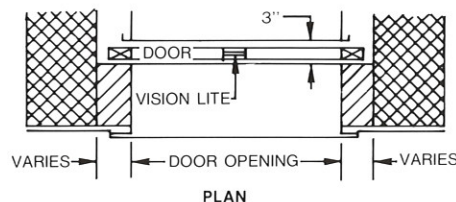
\*\*Floor level loading with slide up doors, M = 8" minimum.

NOTES: Each car gate reduces useable F to B car space by 1 1/2". Dimension K is based on bi-parting car gates and/or doors.

## dumbwaiter entrances

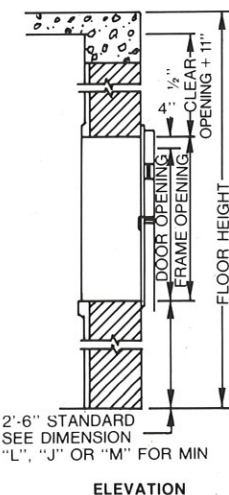
Dumbwaiter doors carry U/L labels and are bi-parting type with steel frames and sound deadened door panels with glass vision lights. Finish is prime paint.

Options: Hollow metal insulated door panels.  
Stainless steel sills.  
Baked enamel finish.  
— or —  
Stainless steel.  
Slide up or slide down type entrances.



### DIMENSION KEY:

One or more openings must be larger than the car so that the assembled car can be placed into the hoistway or removed for service or repair. Front walls are not to be erected till door frames are installed.



2'-6" STANDARD SEE DIMENSION "L", "J" OR "M" FOR MIN

ELEVATION

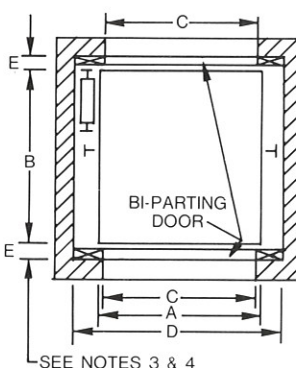
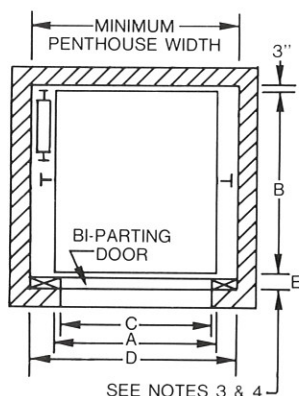




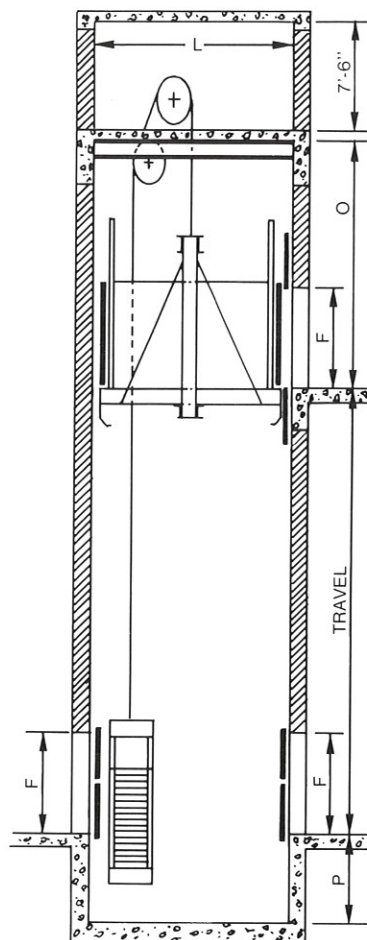
## traction

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 Lodemaster, an automatic load weighing device, which warns against overloading. Also recommended are power operated hoistway doors and car gates for medium and heavy duty installations.

For freight door details see page 12.



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



### LIGHT AND MEDIUM DUTY FREIGHT ELEVATORS

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'-4"	8'-4"	8'-4"	10'-4"	10'-10"
L	13'-0"	14'-0"	14'-0"	14'-0"	14'-0"

### HEAVY DUTY POWER TRUCK LOADING FREIGHT ELEVATORS

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"
L	14'-0"	15'-0"	15'-0"	17'-0"	21'-0"

### MINIMUM PIT & OVERHEAD DIMENSIONS FOR LIGHT & MEDIUM DUTY FREIGHT ELEVATORS

CAR SPEED	50	75	100	200
O	16'-0"	16'-0"	16'-0"	16'-0"
P	5'-6"	5'-6"	5'-6"	6'-0"

### MINIMUM PIT & OVERHEAD DIMENSIONS FOR HEAVY DUTY POWER TRUCK FREIGHT ELEVATORS

CAR SPEED	50	75	100	200
O	Consult your Montgomery Representative			
P				

#### NOTES:

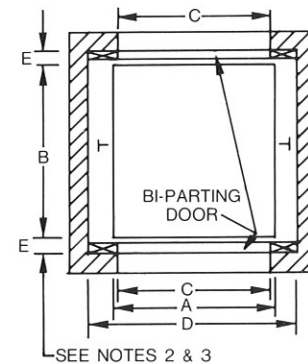
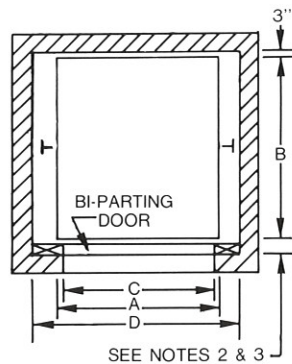
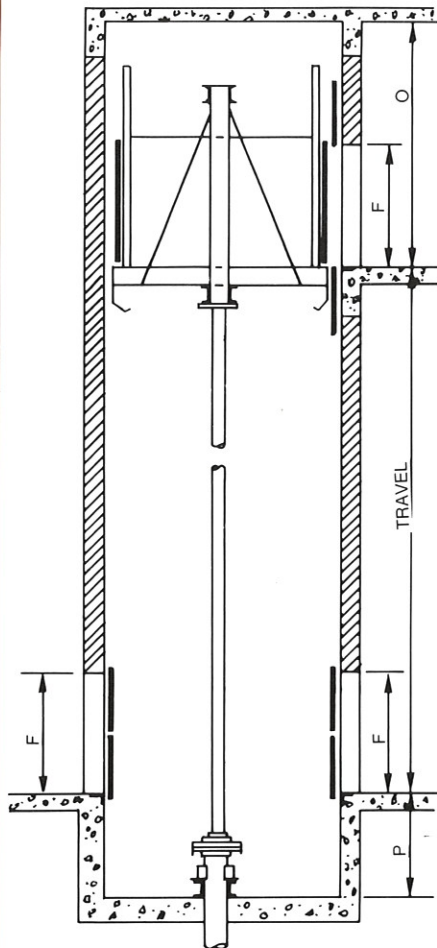
- Pit depths, overhead clearance and penthouse sizes are in accordance with ANSI/ASME code requirements. Local codes may vary these requirements.
- For capacities over 20,000 lbs. or speeds over 200 f.p.m., consult your Montgomery Representative.
- Dimensions E = 5" for regular type counter balanced hoistway doors and 6 3/4" for pass type counter balanced 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 15 for other door sizes.
- Dimension F = 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 Representative.
- All data is general. Consult your local Montgomery Representative for exact information for your working drawings.
- For reactions, consult your local Montgomery Representative.



## oil hydraulic

Oil Hydraulic Freight Elevators 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 information see page 12.



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

**LIGHT AND MEDIUM DUTY FREIGHT ELEVATORS**

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" high doors	13'-2"	13'-2"	13'-2"	13'-2"	13'-2"	13'-2"
O-8'-0" high doors	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"

**HEAVY DUTY  
POWER TRUCK LOADING FREIGHT ELEVATORS**

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" high doors	13'-2"	13'-2"	13'-2"	13'-2"	13'-2"
O-8'-0" high doors	14'-2"	14'-2"	14'-2"	14'-2"	14'-2"
P	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"

**NOTES:**

- Dimensions O and P are based on car speeds up to 150 fpm.
- Dimension E = 5" for regular type counter balanced hoistway doors and 6 1/4" for pass type counter balanced 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 15 for other door sizes.
- Dimension F = 7'-0" on light and medium duty, 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 Representative for the exact size.
- Pit depths and overhead clearances are in accordance with ANSI/ASME code requirements. Local codes may vary these requirements.
- Layout and dimensions shown for freight elevators based on bi-parting counter-balanced type hoistway doors.
- Consult your local Montgomery Office for more information regarding Notes 5 and 6.
- For capacities over 20,000 lbs. and for large heavy duty doors, consult your Montgomery Representative.
- All data is general. Consult your Montgomery Representative for exact information for your working drawings.
- For reactions, consult your local Montgomery Representative.



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.

Escalators provide the most efficient transportation in heavy traffic locations, thus permitting elevator systems the ability 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 "a montgomery exclusive"

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

**LOW COST MAINTENANCE:** attained by high quality heavy duty equipment

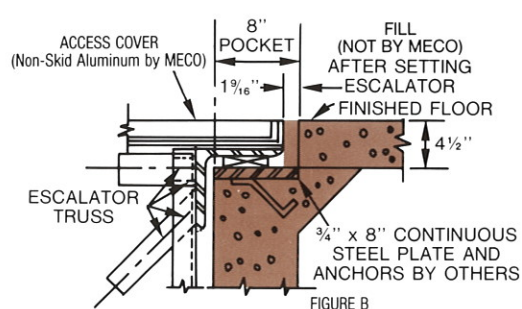
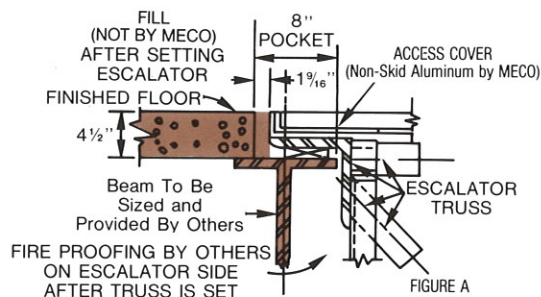
**APPEARANCE:** durable modern materials retain attractive appearance

**SAFETY:** more and better safety devices than any other escalator

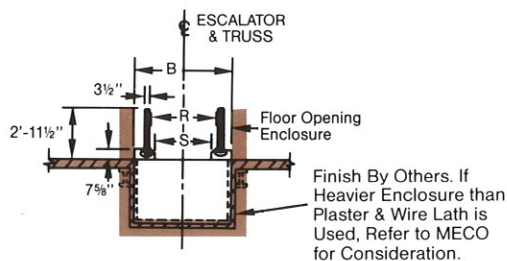
**DEPENDABILITY:** quickly and easily serviced . . . less down time

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

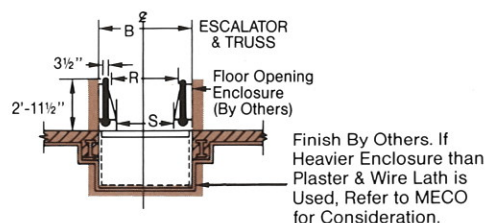
## crystal 2000<sup>®</sup> glass balustrade & solid balustrade—end support details



## crystal 2000<sup>®</sup> glass balustrade—section

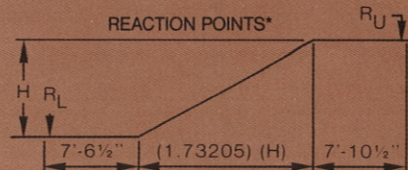


## solid balustrade—section



### ESCALATOR REACTIONS\*

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



\*Reaction formulae based on:  
50% dead load  
25% live load  
25% impact  
Includes weight of metal lath and plaster covering on sides and soffit.

Consult MECO for reactions if intermediate support is used.

### WIDTH CHART

Model No.	Capacity Persons Per Hour At		Rated Width R	Step Width S	Overall Width B (Note 1)	Well Width Rough Opening (Note 2)
	90fpm	120fpm				
3E	5,000	6,500	32"	24"	4'-4"	Overall Width B + 2"
4E	7,000	9,000	40"	32"	5'-0"	
5E	8,000	10,000	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.

### NOTES:

- Includes exterior of lath and plaster by others.
- Enclosure between rough opening and finished escalators to be provided by others.



SHADED AREAS  
NOT BY MECO

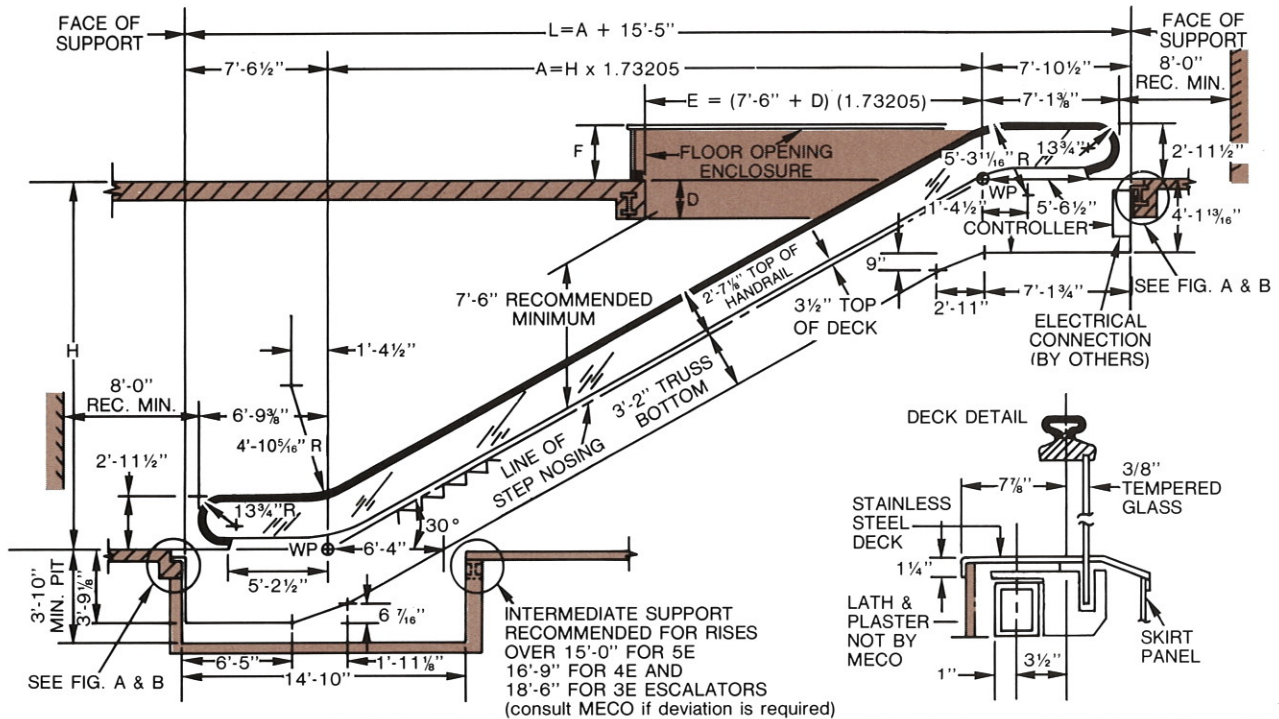


# crystal 2000® glass balustrade & solid balustrade - plan view

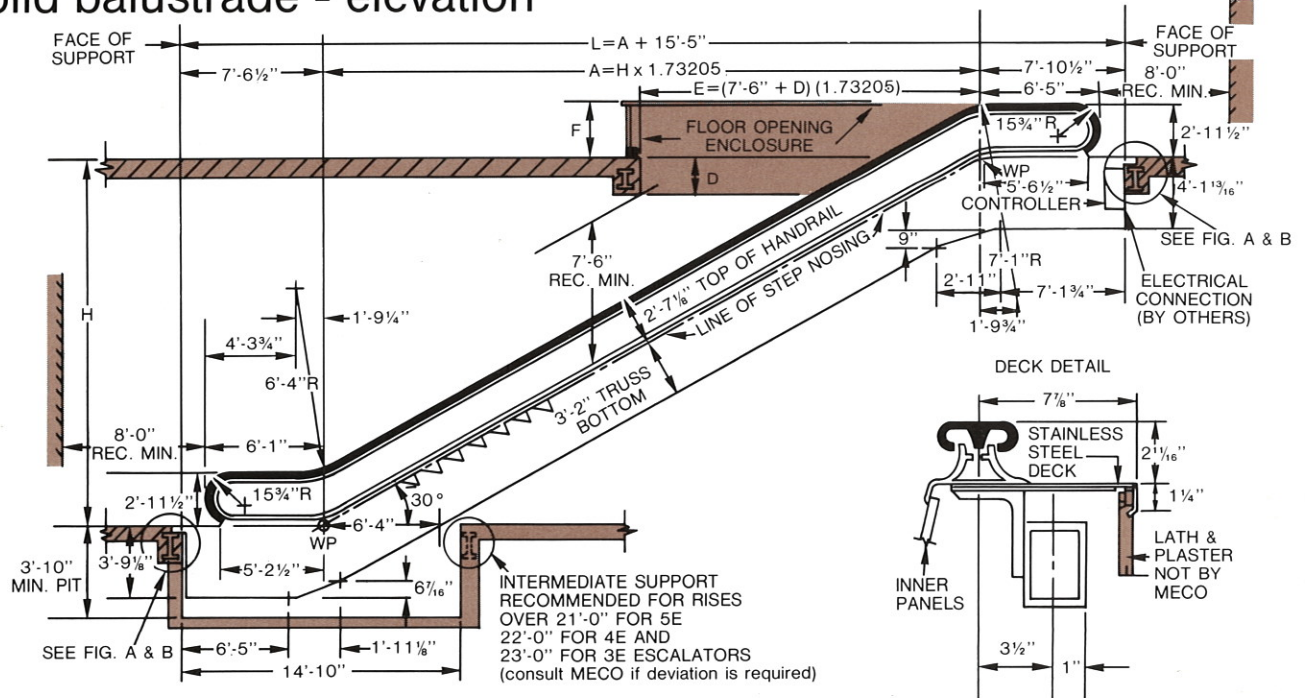


DOTTED LINES DENOTE HAND RAILS FOR GLASS UNIT

# crystal 2000® glass balustrade - elevation



# solid balustrade - elevation





## 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.

\* CSA listed

### 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. Paper backed wire lath or its equivalent to be used for plaster enclosure of escalator.
5. All items marked "by others."

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

### MOTOR HORSEPOWER REQUIREMENTS

#### 90 FPM

10 HP	SIZE	FLOOR HEIGHT
	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"

### POWER DATA

#### 90 FPM

HP	200 VOLTS		460 VOLTS		575 VOLTS	
	STARTING CURRENT	RUNNING CURRENT	STARTING CURRENT	RUNNING CURRENT	STARTING CURRENT	RUNNING CURRENT
	IN AMPERES	IN AMPERES	IN AMPERES	IN AMPERES	IN AMPERES	IN AMPERES
10	128.25	33.12	57.75	14.4	46.2	11.5
15	213.75	50.6	93.07	22.0	74.47	17.6
20	270.75	64.4	117.75	28.0	94.2	22.4

#### 120 FPM

HP	200 VOLTS		460 VOLTS		575 VOLTS	
	STARTING CURRENT	RUNNING CURRENT	STARTING CURRENT	RUNNING CURRENT	STARTING CURRENT	RUNNING CURRENT
	IN AMPERES	IN AMPERES	IN AMPERES	IN AMPERES	IN AMPERES	IN AMPERES
10	130.5	29.4	56.77	12.8	45.45	10.2
15	191.25	47.4	83.1	20.6	66.45	16.5
20	264.75	60.0	114.97	26.1	91.95	20.9

#### 120/90 FPM (2 SPEED)

HP	200 VOLTS		460 VOLTS		575 VOLTS	
	STARTING CURRENT	RUNNING CURRENT	STARTING CURRENT	RUNNING CURRENT	STARTING CURRENT	RUNNING CURRENT
	IN AMPERES	IN AMPERES	IN AMPERES	IN AMPERES	IN AMPERES	IN AMPERES
10/7.5	135.75/105.75	30.8/25.9	69.75/62.25	14/12.9	54/47.25	11.1/10.4
15/11.25	190.5 /135.75	45/37.4	95.25/65.25	20.1/16.6	72/48	16.1/13.2
20/15	331.5 /186	64.5/49.7	130.5 /84.75	27/21.8	102.75/70.5	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 walk-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 hand rail; and floor access covers to upper and lower machinery wells both within truss area.

### CONSULT MONTGOMERY

Contact your local Montgomery Representative or the Montgomery Elevator Company, Moline, Illinois, for application data, and layout or specification data needed to plan a complete installation.

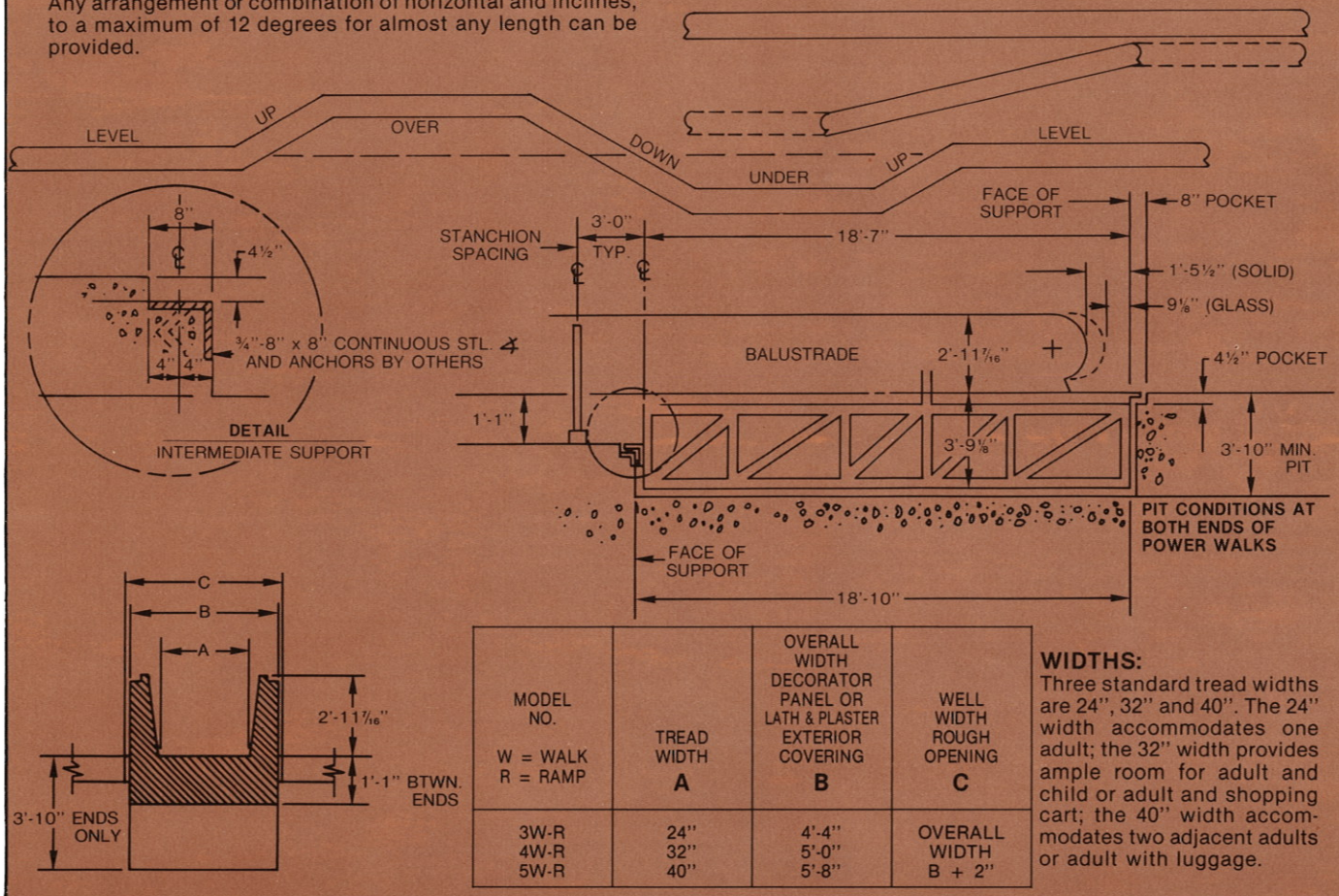
\* CSA listed

TOP William B. Hartsfield-  
Atlanta International Airport  
Atlanta, Georgia  
BOTTOM Disneyland  
Anaheim, California



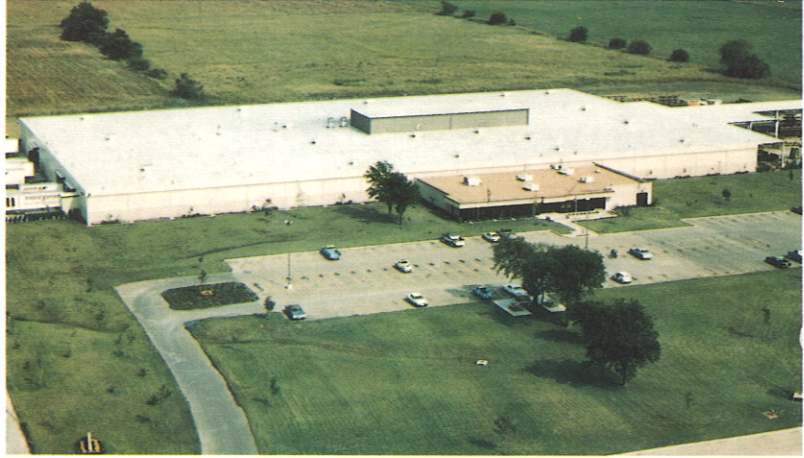
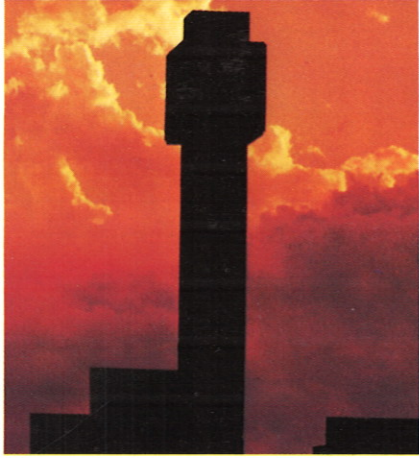
## PLANNING POWER WALKS/POWER RAMPS

Any arrangement or combination of horizontal and inclines, to a maximum of 12 degrees for almost any length can be provided.





MONTGOMERY  
RESEARCH AND  
DEVELOPMENT  
TOWER,  
CORPORATE  
HEADQUARTERS  
Moline, Illinois



ELEVATOR  
DIVISION  
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We're not very far from anywhere in North America.



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