

**montgomery**<sup>®</sup>  
moves people

ELEVATORS ESCALATORS • POWER WALKS AND RAMPS



# montgomery<sup>®</sup> elevators/escalators power walks & ramps

## CONTENTS

COVER .....	1
FOREWORD .....	2-3
CONTROLS: SSC-6010 solid state and ESP Group Supervisory .....	4
<b>PASSENGER ELEVATORS</b>	
High Speed Traction .....	5
Medium and Low Speed Traction .....	6
SPM standard pre-manufactured traction .....	7
Basement Traction .....	8
Hospital Traction .....	9
Oil Hydraulic .....	10
SPM Oil Hydraulic .....	11
<b>ENTRANCES</b>	
Single Speed Slide .....	12
Two Speed Slide .....	12
Center Opening Slide .....	12
Cars and Fixtures .....	13
<b>FREIGHT ELEVATORS</b>	
Traction .....	14
Oil Hydraulic .....	15
Freight Elevator Doors .....	18
DUMBWAITERS .....	16-17
Traction and Electric Drum Drive .....	
DUMBWAITER DOORS .....	18
<b>ESCALATORS</b> .....	
Crystal Balustrade .....	20
Solid Balustrade .....	21
Standard Equipment .....	22
<b>POWER WALKS AND POWER RAMPS</b> .....	
	23
PREVENTIVE MAINTENANCE .....	24
SALES/SERVICE OFFICES .....	24

## FOR OVER 80 YEARS

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

## PRODUCTS

Montgomery's full product line includes: Electric Elevators - Geared, Gearless and Oil Hydraulic, Passenger and Freight; Standard Pre-Manufactured Passenger Elevators - Geared or Oil Hydraulic; Escalators; Power Walks and Power Ramps; Electric Dumbwaiters; Stage, Sidewalk and Other Special Lifts; Cross Over Bridges; Solid State Controls.

## RESEARCH & DEVELOPMENT

A continuing program of research and development is a major Montgomery effort. Specialized equipment in Montgomery's tower laboratory provides facilities for engineered-testing of existing and proposed elevator equipment. Montgomery's 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 North America (U.S., Canada, Mexico, Caribbean) and overseas. Montgomery is the largest independent exclusive elevator and escalator manufacturer in the Western Hemisphere.

Montgomery's eight manufacturing facilities, each fully staffed for the manufacture and assembly of elevator and escalator equipment are: Moline, Illinois (3); McKinney, Texas; Philadelphia, Pennsylvania; Arkansas City, Kansas; Vancouver and Toronto, Canada.

The Eastern Canada division of Montgomery has served Eastern Canada for over 50 years. The Eastern Canada division has greatly expanded manufacturing capabilities to produce the full Montgomery line, including escalators and ESP Group Supervisory Control elevator systems.

The Western Canada division, established in 1919 in Vancouver, has always enjoyed a leading position in the elevator/escalator industry in Western Canada.

The Western Manufacturing Division has facilities in Arkansas City, Kansas, for the manufacture of elevator cars and entrances. Guilbert, Inc., Philadelphia, Pennsylvania, manufactures manual and power operated doors for freight elevators, and also manufactures dumbwaiters.



COVER	
Top Left	Seaworld Shark Tank Orlando, Florida
Top Right	Stratford Square Bloomington, Illinois
Bottom	River Plaza Office Building Fort Worth, Texas
Above & C	Walter Reed Hospital Washington, D.C.
A	Shell Oil Company Woodcreek Offices Houston, Texas
B	Edmonton Centre Edmonton, Alberta, Canada
D	Sky Harbor International Airport Phoenix, Arizona
E	Detroit Science Center Detroit, Michigan
F	Calgary International Airport Calgary, Alberta, Canada



A ▲



B ▲



C ▲



D ▲



E ▲



F ▲

# montgomery<sup>®</sup> control systems

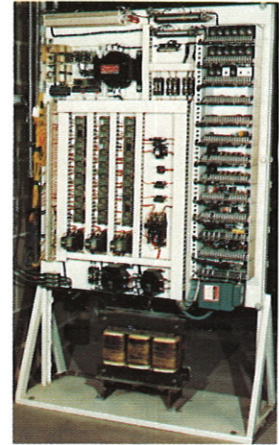
## SSC-6010<sup>®</sup> solid state elevator power control

Montgomery SSC-6010 is a variable voltage elevator power control system that incorporates completely static control for adjustable speed, acceleration and deceleration, precise leveling accuracy and exceptionally smooth stops. Montgomery's SSC-6010 is designed for all traction elevators, geared and gearless, operating between speeds of 100-1500 fpm.

By eliminating the motor-generator set with its greater power consuming characteristics, the new Montgomery SSC-6010 solid state elevator power control system will reduce elevator power bills up to 30% per elevator. The secret is a transistor-like device called a thyristor which enables the Montgomery SSC-6010 to convert A.C. line power directly to controlled D.C. power.

The SSC-6010 offers many more benefits. By eliminating the motor-generator set, less machine room space is required and machine room loads are reduced. The entire system produces less heat which means longer equipment life and lower machine room ventilating and air conditioning requirements.

The Montgomery SSC-6010 adjusting section revolutionizes elevator adjusting, previously a tedious task consuming many man-hours. With SSC-6010, trained Montgomery technicians can quickly tune the system for most desirable performance by simply making potentiometer adjustments such as high speed, first slow down, leveling, field gain, acceleration slope, stability, response, speed gain, maximum current, etc. which achieve excellent long-term stability.



## miprom<sup>®</sup> microprocessor elevator logic control

Montgomery MIPROM<sup>®</sup> is a microprocessor elevator logic control for the mass elevator market for low and medium-rise buildings using geared traction and oil hydraulic elevators as well as high-rise buildings having high speed gearless traction elevators.

Montgomery pioneered and developed MIPROM<sup>®</sup> for the mass market to offer a compact electronic elevator logic control having superior reliability, REPROGRAMMABLE FLEXIBILITY and ease of maintenance.

Montgomery MIPROM<sup>®</sup> consists of a standardized solid-state modular hardware package utilizing microprocessors to create an electronic brain which performs computer functions. The microprocessor correlates signals from the elevator and multiple programmable memories, then transmits logic instructions to the elevator.

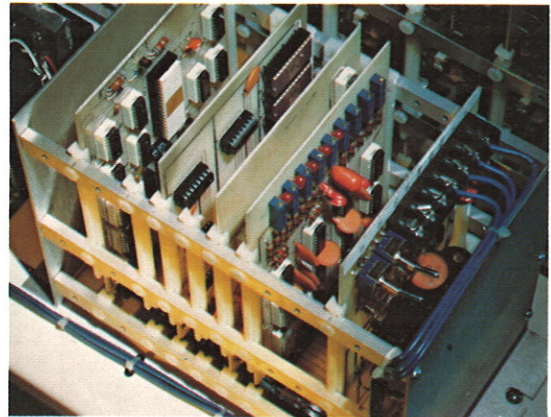
### SOUND INVESTMENT FOR BUILDING OWNERS.

Here are important reasons why Montgomery MIPROM<sup>®</sup> is a sound investment for building owners.

**1. High Reliability.** Electronic solid-state components, tested by being subjected to environmental extremes, provide the highest possible reliability.

**2. Programmable Flexibility.** Montgomery MIPROM<sup>®</sup> reprograms for changed building traffic patterns or other building elevator needs by exchanging the plug-in memory microprocessors — EPROM (Erasable Programmable Read Only Memory).

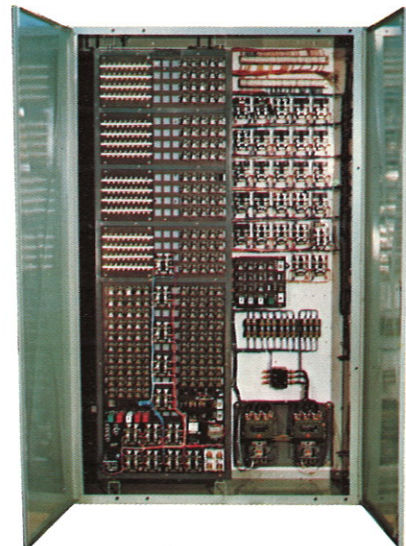
**3. Economical.** Montgomery MIPROM<sup>®</sup> costs less to maintain because of design, production standardization, miniaturization (the system requires up to 80% less space than most other elevator logic controls) and high reliability.



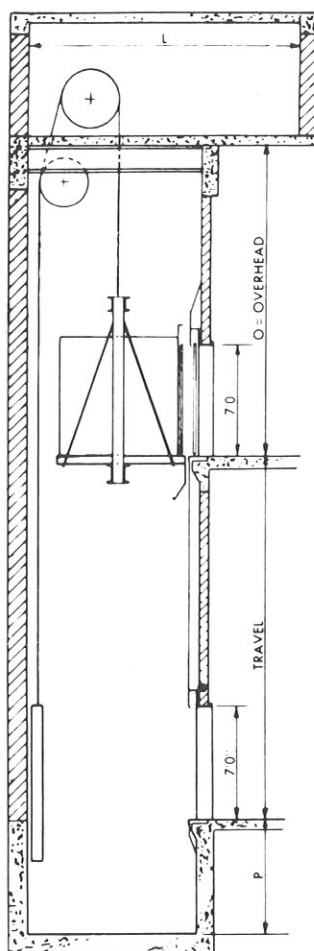
## hardwired control system

Montgomery's complete line of control equipment is well known for its reliability and ease of maintenance. Illustrated is a single module of control, integrating power and combination logic control functions. Built-in electrical selector eliminates a myriad of moving parts and associated maintenance problems. Plug-in control modules speed maintenance.

Whereas MIPROM<sup>®</sup> elevator logic control systems (see above) are modularly designed, mass produced and programmed (and reprogrammable), this hardwired control (illustrated at right) is custom engineered to precise building requirements. It ranges from slow, single speed elevator controls to complex systems. Control modules are utilized as required to provide efficient applications. Each control receives a complete operational test before being installed by trained Montgomery technicians. Efficient and dependable elevator operation results.



# passenger elevators



## 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 ESP Group Supervisory Control Systems.

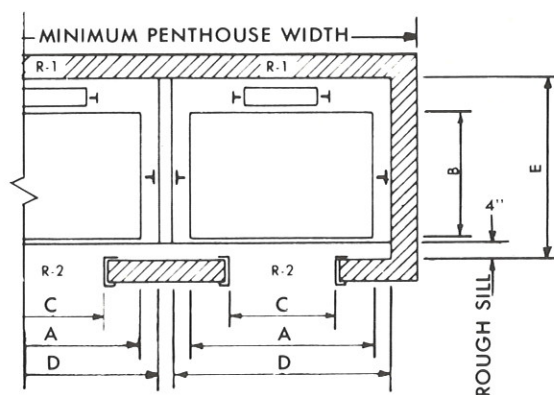
### HANDICAPPED REQUIREMENTS AVAILABLE TO MEET NEII STANDARDS OR LOCAL CODES

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.



PLAN FOR ONE OR MORE ELEVATORS  
CENTER OPENING DOORS SHOWN —  
SINGLE SLIDE DOORS OPTIONAL

RECOMMENDED SIZES AND CAPACITIES							
TYPE BUILDING	AVERAGE OFFICE HOTEL			LARGE OFFICE OR STORE			
CAPACITY	2500 #		3000 #	3500 #			
A	7'- 0"	7'-0"		7'-0"			
B	5'- 0"	5'-6"		6'-2"			
C	3'- 6"	3'-6"		3'-8"			
*D	8'- 4"	8'-4"		8'-4"			
*E	6'-10"	7'-4"		8'-0"			
MINIMUM PIT – OVERHEAD & MACHINE ROOM DIMENSIONS							
SPEED	400	500	600	700	800	1000	1200
*-L	20'-0"	20'-0"	20'-0"	20'-0"	21'- 6"	22'- 6"	22'-6"
O	17'-7"	18'-4"	19'-5"	21'-6"	21'-11"	25'- 6"	27'-0"
P	7'-4"	8'-8"	8'-11"	12'-6"	12'- 6"	12'-10"	15'-2"

#### 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 code requirements. Local codes may vary these requirements.
  - Layouts and dimensions shown are for center opening type entrances.
  - Consult your Montgomery Representative for specific recommendations where space is limited or other conditions may necessitate further study.
  - All data is general. Consult your local Montgomery Representative for exact information for your working drawings.
- \* D and E dimensions are for car travel up to 100'. Add 2" to D and E for each additional 100' of car travel.

\*\*L dimensions may be reduced when SSC-6010 solid state elevator power control and MIPROM microprocessor logic control are furnished. Consult your local Montgomery Representative.

OVERHEAD LOADS/LBS. APPROXIMATE PER ELEVATOR			
CAPACITY	SPEED	R-1	R-2
2500 #	400	28800	15800
	500	29900	16800
	600	32200	18900
	700	33400	20000
	800	34500	21000
	1000	35700	22100
3000 #	1200	36800	23100
	400	29900	15800
	500	31100	16800
	600	33400	18900
	700	34500	20000
	800	35700	21000
3500 #	1000	36800	22100
	1200	38000	23100
	400	34500	22100
	500	36800	23100
	600	39100	24700
	700	41400	26300
	800	44900	28900
	1000	48300	30500
	1200	50600	31500

# montgomery® passenger elevators

## 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.

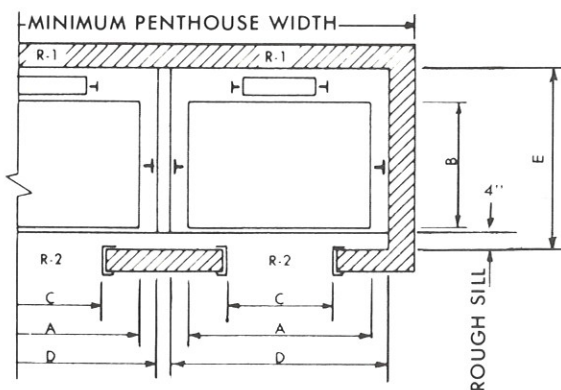
### HANDICAPPED REQUIREMENTS AVAILABLE TO MEET NEII STANDARDS OR LOCAL CODES

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

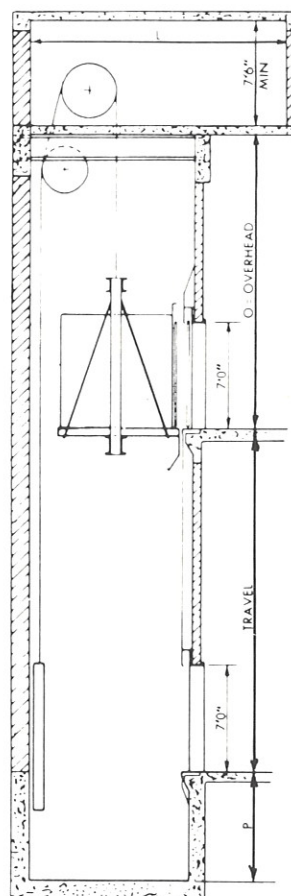
Placement of car controls, hall buttons and phone (or intercommunication equipment) for easy access.

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.



PLAN FOR ONE OR MORE ELEVATORS  
CENTER OPENING DOORS SHOWN —  
SINGLE SLIDE DOORS OPTIONAL



RECOMMENDED SIZES AND CAPACITIES						
TYPE BUILDING	SMALL APART-MENT	SMALL OFFICE	AVERAGE OFFICE HOTEL		LARGE OFFICE OR STORE	
CAPACITY	1500#	2000#	2500#	3000#	3500#	
A	4'-10"	6'-0"	7'-0"	7'-0"	7'-0"	
B	5'-0"	5'-0"	5'-0"	5'-6"	6'-2"	
C	2'-8"	3'-0"	3'-6"	3'-6"	3'-6"	
D	6'-2"	7'-4"	8'-4"	8'-4"	8'-4"	
E	6'-10"	6'-10"	6'-10"	7'-4"	8'-0"	
MINIMUM PIT — OVERHEAD & MACHINE ROOM DIMENSIONS						
SPEED	100	200	250	300	350	400
L	16'-0"	16'-0"	16'-0"	17'-0"	17'-0"	20'-0"
O	15'-6"	15'-9"	16'-2"	16'-4"	16'-6"	17'-7"
P (a)	4'-0"	-	-	-	-	-
P (b)	-	4'-0"	4'-6"	4'-6"	5'-1"	5'-7"
P (c)	-	5'-8"	6'-0"	6'-6"	6'-11"	7'-4"

P (a) indicates minimum pit required for elevators with type A safety

P (b) indicates minimum pit required for elevators with type B safety

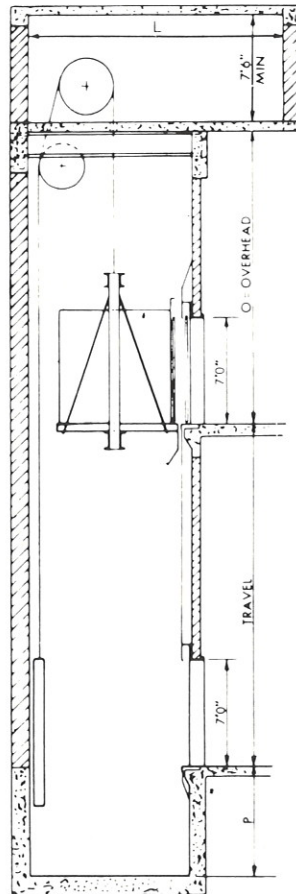
P (c) indicates minimum pit required for elevators with type C safety

#### 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 code requirements. Local codes may vary these requirements.
- Layouts and dimensions shown are for center opening type entrances.
- Consult your Montgomery Representative for specific recommendations where space is limited or other conditions may necessitate further study.
- All data is general. Consult your local Montgomery Representative for exact information for your working drawings.

OVERHEAD LOAD/LBS. APPROXIMATE PER ELEVATOR			
CAPACITY	SPEED	R-1	R-2
1500#	100	13800	7900
	100	14400	9300
	200	17500	10400
	250	17900	11400
	300	18200	11600
	350	22800	12600
2000#	400	27600	15300
	100	17200	10900
	200	19300	12100
	250	19800	13000
	300	20200	13200
	350	23500	13500
2500#	400	28800	15600
	100	19700	12800
	200	22400	12900
	250	22800	13300
	300	23300	13900
	350	23500	14000
3000#	400	30500	16800
	100	21100	14000
	200	24200	14900
	250	24500	15200
	300	25100	15500
	350	29000	15900
3500#	400	32200	17700

# passenger elevators



## SPM<sup>®</sup> 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.

SPM elevators have capacities of 2500 pounds and 3000 pounds and offer speeds of 200 or 350 fpm. They have center opening doors (single slide doors optional) and are furnished in single or multiple car operation up to 4 car group. Flexibility is offered in entrance and fixture selection, and optional decor and finishes.

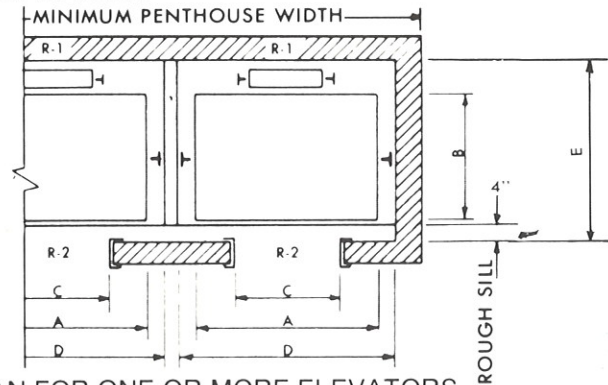
### HANDICAPPED REQUIREMENTS AVAILABLE TO MEET NEII STANDARDS OR LOCAL CODES

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.



PLAN FOR ONE OR MORE ELEVATORS  
CENTER OPENING DOORS SHOWN — SINGLE SLIDE DOORS OPTIONAL

#### NOTES:

1. Reactions include allowances for impact but DO NOT include weight or concrete slab.
2. Pit depths, overhead clearance and penthouse sizes are in accordance with ANSI code requirements. Local codes may vary these requirements.
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.
6. For complete details ask for Montgomery brochure SF2056.

CAPACITY (POUNDS)		2500#		3000#	
SPEED (FPM)		200	350	200	350
DIMENSIONS					
Plan View	A	7'-0"	7'-0"	7'-0"	7'-0"
	B	5'-0"	5'-0"	5'-6"	5'-6"
	C	3'-6"	3'-6"	3'-6"	3'-6"
	D	8'-4"	8'-4"	8'-4"	8'-4"
	E	6'-7"	6'-7"	7'-1"	7'-1"
Minimum Machine Room		L	13'-8"	13'-8"	14'-2"
Minimum Overhead		O	15'-4"	16'-0"	15'-4"
Minimum Pit		P	3'-10"	4'-10"	3'-10"
OVERHEAD LOADS (POUNDS)					
Approximate Per Elevator	R1	22,000	22,000	26,000	26,000
	R2	11,500	11,500	12,000	12,000

### 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.

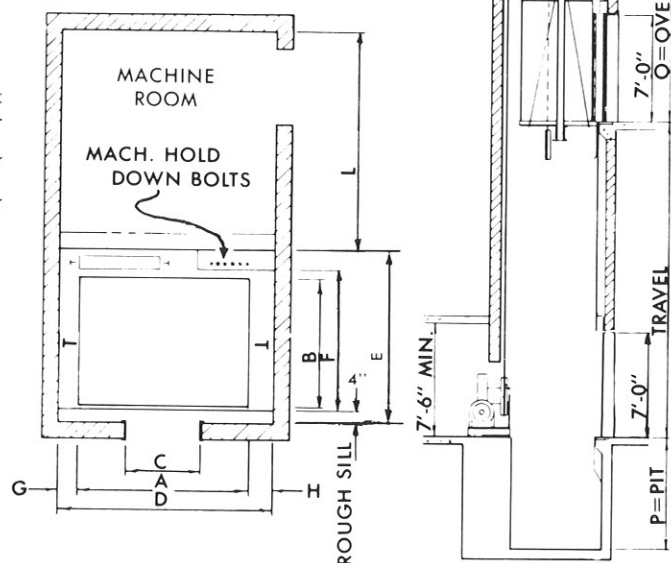
#### HANDICAPPED REQUIREMENTS AVAILABLE TO MEET NEII STANDARDS OR LOCAL CODE

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.

Machine room may be placed at side of elevator hoistway if dimension "D" is increased 4".



PLAN FOR ONE OR MORE ELEVATORS  
CENTER OPENING DOORS SHOWN —  
SINGLE SLIDE DOORS OPTIONAL

#### 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	8"	8"	8"	8"	
H	8"	8"	8"	8"	

##### RECOMMENDED MACHINE ROOM OVERHEAD & PIT DIMENSIONS

SPEED	100	200	250	300	350
L	9'-6"	12'-0"	12'-0"	12'-0"	12'-0"
*O	16'-7"	17'-1"	17'-5"	17'-6"	17'-9"
**P(a)	4'-0"	-	-	-	-
**P(b)	-	4'-0"	4'-6"	4'-6"	5'-1"
**P(c)	-	5'-8"	6'-0"	6'-6"	6'-11"

\*\*P(a) indicates minimum pit required for elevators with type "A" safety.  
 \*\*P(b) indicates minimum pit required for elevators with type "B" safety.  
 \*\*P(c) indicates minimum pit required for elevators with type "C" safety.

#### NOTES:

- Pit depths, overhead clearance and penthouse sizes are in accordance with ANSI code requirements. Local codes may vary these requirements.
- Layouts and dimensions shown are for center opening type entrances.

#### 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

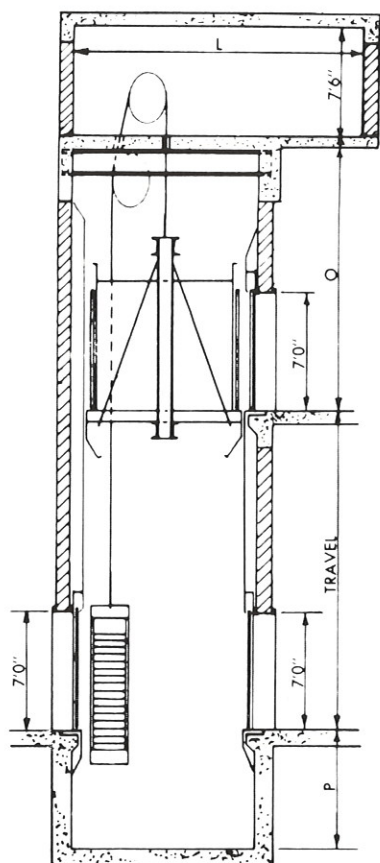
TYPE BUILDING	APARTMENT OR SMALL OFFICE	AVERAGE OFFICE HOTEL		
CAPACITY	2000#	2500#	3000#	
A	6'-0"	7'-0"	7'-0"	
B	5'-0"	5'-0"	5'-6"	
C	3'-0"	3'-6"	3'-6"	
D	7'-10"	8'-10"	8'-10"	
E	6'-10"	6'-10"	7'-4"	
F	5'-5"	5'-5"	5'-11"	
G	10"	10"	10"	
H	12"	12"	12"	

##### RECOMMENDED MACHINE ROOM OVERHEAD & PIT DIMENSIONS

SPEED	100	200	250	300
L	13'-0"	15'-6"	15'-6"	15'-6"
O	13'-0"	13'-2"	13'-7"	13'-8"
P	5'-6"	6'-6"	6'-11"	7'-4"

- Consult your Montgomery Representative for specific recommendations where space is limited or other conditions may necessitate further study.
- The overhead dimension can be reduced 1'-0" if the cab selected is kept to a minimum height.
- All data is general. Consult your local Montgomery Representative for exact information for your working drawings.

# passenger elevators



## hospital traction

Hospital 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.

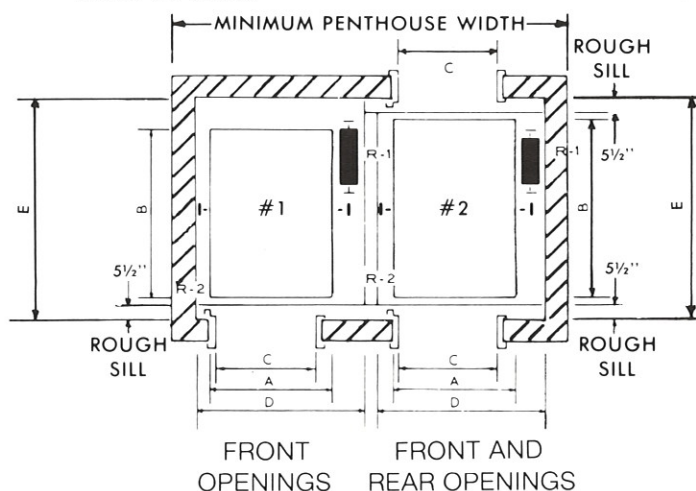
### HANDICAPPED REQUIREMENTS AVAILABLE TO MEET NEII STANDARDS OR LOCAL CODES

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.



RECOMMENDED SIZES & CAPACITIES						
CAPACITY	3500#		4000#		5000#	
	#1	#2	#1	#2	#1	#2
A	5'-4"	5'-4"	5'-8"	5'-8"	6'-4"	6'-4"
B	8'-4"	9'-0"	8'-9"	9'-5"	8'-10"	9'-6"
C	3'-8"	3'-8"	4'-0"	4'-0"	4'-6"	4'-6"
D	7'-5"	7'-5"	7'-9"	7'-9"	8'-5"	8'-5"
E	9'-3"	10'-3 1/2"	9'-8"	10'-8 1/2"	9'-9"	10'-9 1/2"

MINIMUM PIT, OVERHEAD AND MACHINE ROOM DIMENSIONS					
SPEED	75	100	200	350	500
L	21'-0"	21'-0"	21'-0"	21'-0"	23'-0"
O	15'-6"	15'-6"	15'-9"	16'-6"	17'-7"
P (a)	4'-0"	4'-0"	-	-	-
P (b)	-	-	4'-0"	5'-1"	6'-7"
P (c)	-	-	5'-8"	6'-11"	8'-10"

P (a) indicates minimum pit required for elevators with type "A" safety.

P (b) indicates minimum pit required for elevators with type "B" safety.

P (c) indicates minimum pit required for elevators with type "C" safety.

APPROXIMATE OVERHEAD LOADS IN LBS. PER PASSENGER ELEVATOR			
CAPACITY	SPEED	R-1	R-2
3500#	75	22200	14400
	100	22500	14700
	200	26500	15800
	350	31600	16800
	500	38000	24200
4000#	75	23700	15600
	100	24100	16000
	200	27500	16600
	350	32100	18600
	500	39100	25200
5000#	200	29500	18200
	350	34000	20600
	500	40500	27300

### 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 code requirements. Local codes may vary these requirements.
- Layouts and dimensions shown are for two speed type entrances.
- Consult your Montgomery Representative for specific recommendations where space is limited or other conditions may necessitate further study.
- All data is general. Consult your local Montgomery Representative for exact information for your working drawings.

# montgomery® passenger 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.

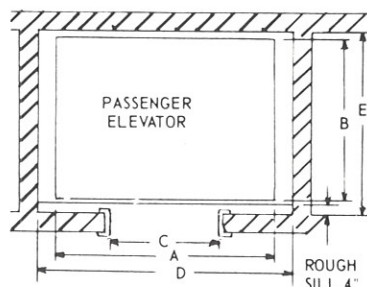
### HANDICAPPED REQUIREMENTS AVAILABLE TO MEET NEII STANDARDS OR LOCAL CODES

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

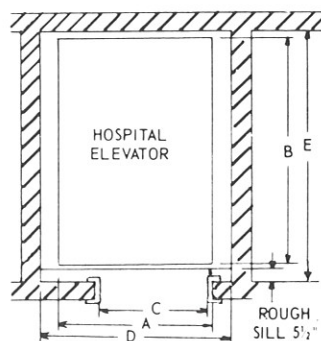
Placement of car controls, hall buttons and phone (or intercommunication equipment) for easy access.

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

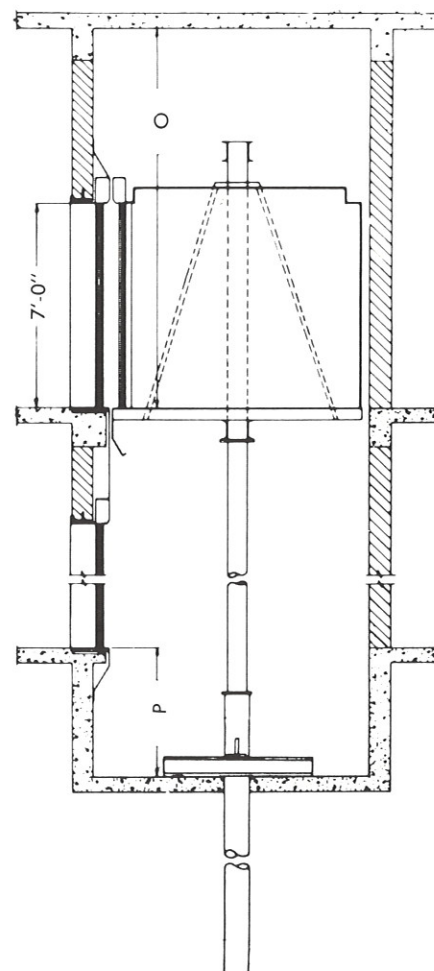
Handrails in car — dual ray door protection — audible signals in car position indicator and lanterns.



CENTER OPENING DOORS SHOWN —  
SINGLE SLIDE DOORS OPTIONAL



TWO SPEED DOORS SHOWN



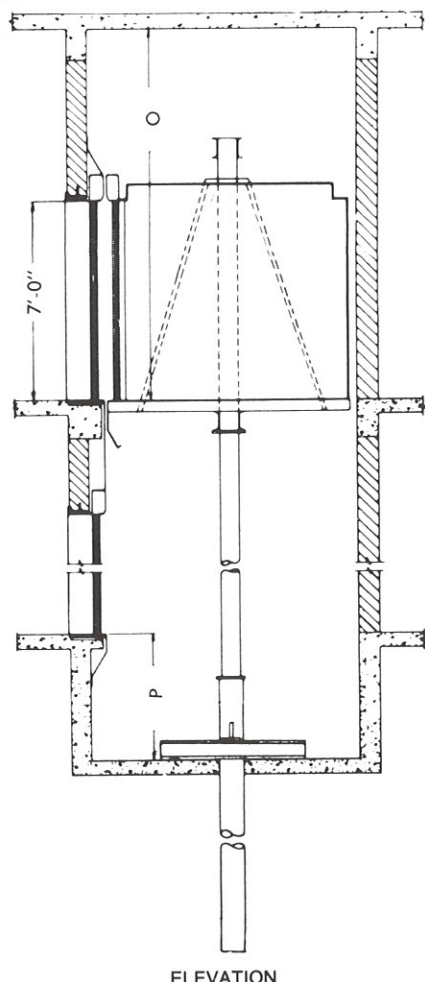
FOR OFFICE BUILDINGS, HOTELS, MOTELS APARTMENTS, BANKS, STORES, LIBRARIES, ETC.							HOSPITALS AND INSTITUTIONS							1 - Single Entrance 2 - Double Entrance	
CAPACITY		1500 #	2000 #	2500 #	3000 #	3500 #	CAPACITY		3500 #		4000 #		5000 #		
								1	2	1	2	1	2		
A		4'-10"	6'-0"	7'-0"	7'-0"	8'-0"	A	5'-4"	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		13'-0"	13'-0"	13'-0"	13'-0"	13'-0"	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 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.

# passenger and hospital elevators



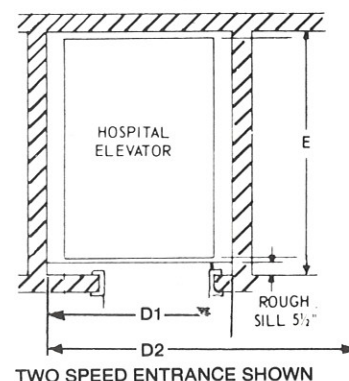
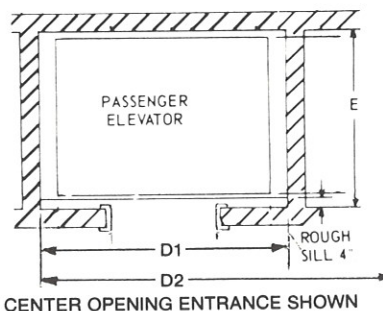
ELEVATION

## SPM® standard pre-manufactured oil hydraulic

SPM® Oil Hydraulic Elevators meet Montgomery's high standards of quality. STANDARD equipment is PRE-MANUFACTURED in four sizes, with the advantages of quick delivery, low cost and reliable service while maintaining "custom" quality. SPM's offer travel to five floors and car speeds to 125 fpm. Some models have travel to six floors with 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® 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.



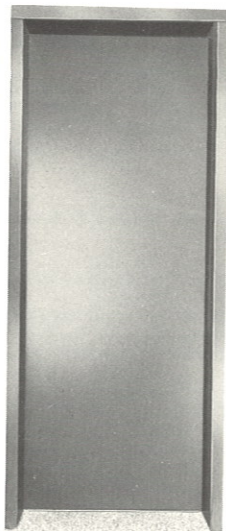
### NOTES:

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 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.

CAPACITIES — SPEEDS — GENERAL ARRANGEMENTS — SPACE REQUIREMENTS				
Model	Passenger Elevator SPM-H1500	Passenger Elevator SPM-H2000	Passenger Elevator SPM-H2500	Hospital Elevator SPM-H4000
Capacity — Pounds	1500	2000	2500	4000
Speed FPM	125	125	125 and 150	150
Maximum Travel	41'-0"	38'- 0"	36'-0" for 125 FPM 52'-0" for 150 FPM	53'-0"
Maximum No. of Stops	5	5	5 for 125 FPM 6 for 150 FPM	6
Platform Size Width x Depth	4'-10" x 5'-0"	6'-0" x 5'-0"	7'-0" x 5'-0"	5'-8" x 8'-9"
Clear Car Size Width x Depth	4'- 6" x 4'-3"	5'-8" x 4'-3"	6'-8" x 4'-3"	5'-4" x 7'-11"
Hoistway Entrance and Car Door Arrangement	Single Slide Only Right Hand-Standard Left Hand-Optional	Single Slide Right Hand or Left Hand-Standard Center Opening-Optional	Center Opening-Standard Single Slide Right Hand or Left Hand-Optional	Two Speed Right Hand-Standard Left Hand-Optional
Entrance Size Width x Height	2'-8" x 7'-0"	3'-0" x 7'-0"	3'-6" x 7'-0"	4'-0" x 7'-0"
Hoistway Dimensions One Car	D1 6'-8" E 5'-9" O 13'-0" P 4'-0"	D1 7'-4" E 5'-9" O 13'-0" P 4'-0"	D1 8'-4" E 5'-9" O 13'-0" P 4'-0"	D1 7'-4" E 9'-8" O 13'-0" P 4'-0"
Two Cars	N/A	N/A	D2 17'-0" E 5'-9" O 13'-0" P 4'-0"	D2 15'-0" E 9'-8" O 13'-0" P 4'-0"
*Machine Room One Car Width x Depth	8'-4" x 5'-3"	8'-4" x 5'-3"	For 125 FPM-8'-4" x 5'-3" For 150 FPM-9'-0" x 6'-0"	9'-6" x 6'-2"
Height (Clear)	7'-6"	7'-6"	7'-6"	7'-6"
Two Cars Width x Depth Height (Clear)	N/A	N/A	11'-6" x 9'-6" 7'-6"	12'-0" x 10'-0" 7'-6"

# montgomery<sup>®</sup> entrances

Montgomery standard entrances shown are available in a wide range of finishes and materials. Custom entrances are also available. Contact your local Montgomery representative for details.



## single speed slide

**FEATURES** — Maximum opening width approximately  $\frac{1}{2}$  width of car. Opening width should not exceed 3'-6". Provides a sliding door at moderate cost.

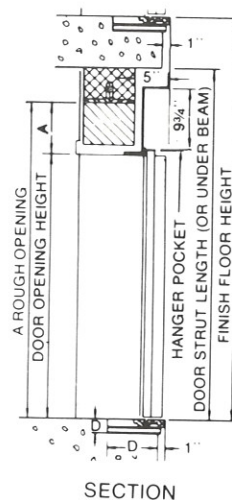
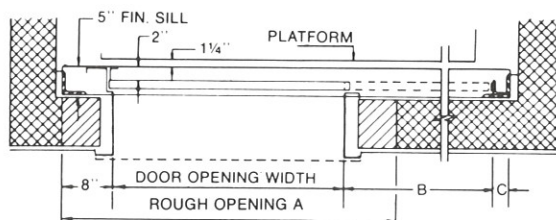
**DIMENSION KEY** — Wherever possible, front hoistway walls should not be erected until after door equipment is installed.

A - Rough openings for standard Unit-type frames to be: Width of door opening plus 8" on each side. Height of door opening plus 8" above.

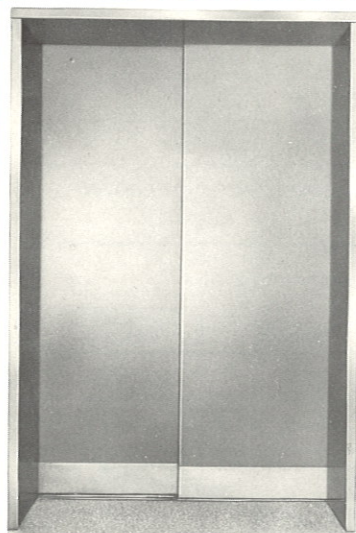
B - Landing door opening plus  $1\frac{1}{2}$ ".

C - 5" for power operated doors.

D - 2" minimum depth x 4" sill pocket entire width of hoistway.



SECTION



## two speed slide

**FEATURES** — Door opening approximately  $\frac{2}{3}$  width of car.

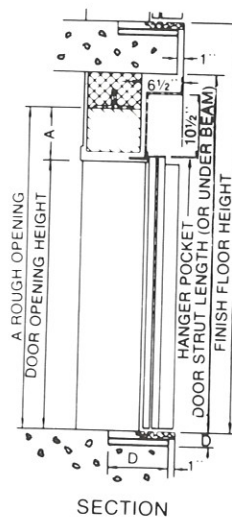
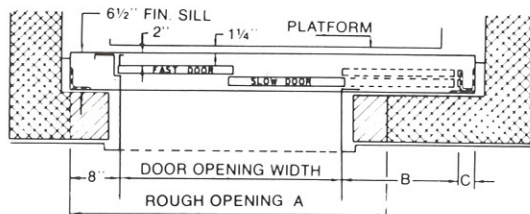
**DIMENSION KEY** — Wherever possible, front hoistway walls should not be erected until after door equipment is installed.

A - Rough openings for standard Unit-type frames to be: Width of door opening plus 8" on each side. Height of door opening plus 8" above.

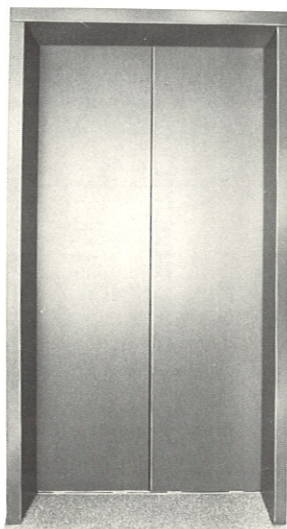
B -  $\frac{1}{2}$  landing door opening plus  $1\frac{1}{8}$ ".

C - 5" for power operated door.

D - 2" minimum depth x  $5\frac{1}{2}$ " sill pocket entire width of hoistway.



SECTION



## center opening slide

**FEATURES** — Provides opening approximately  $\frac{1}{2}$  width of car. Simultaneous opening of each door panel, at equal speed, reduces opening time to  $\frac{1}{2}$  that required for other types of sliding doors.

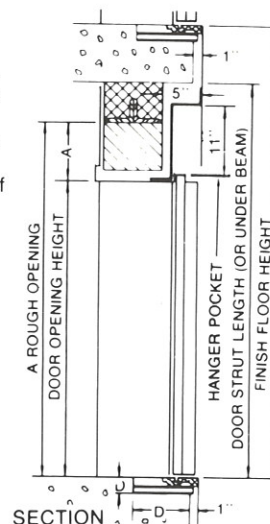
**DIMENSION KEY** — Wherever possible, front hoistway walls should not be erected until after door equipment is installed.

A - Rough openings for standard Unit-type frames to be: Width of door opening plus 8" on each side. Height of door opening plus 8" above.

B -  $\frac{1}{2}$  landing door opening plus  $\frac{3}{4}$ ".

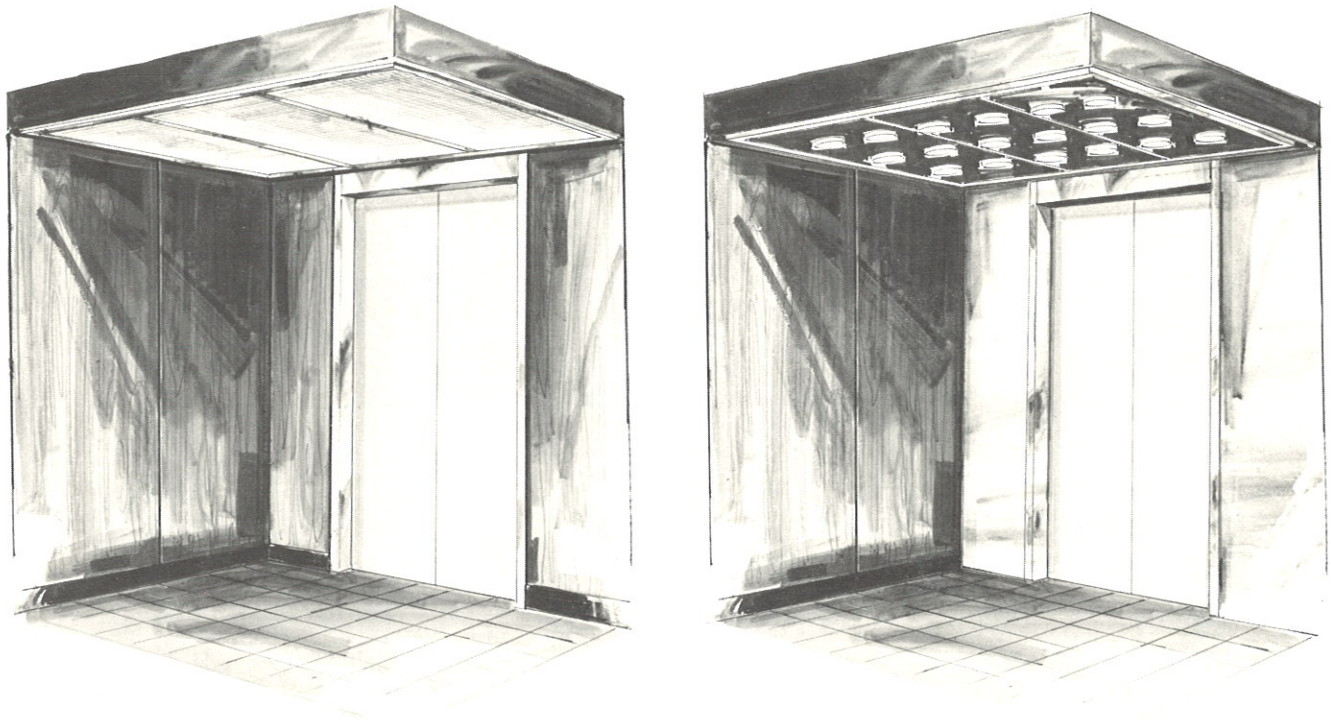
C - 5" for power operated doors.

D - 2" minimum depth x 4" sill pocket entire width of hoistway.



SECTION

# cars, signals and pushbutton fixtures



Montgomery standard cars are shown. Other standard cars as well as custom cars are available in a wide range of designs and materials. Contact your local Montgomery representative for details.

**signal and pushbutton fixtures**

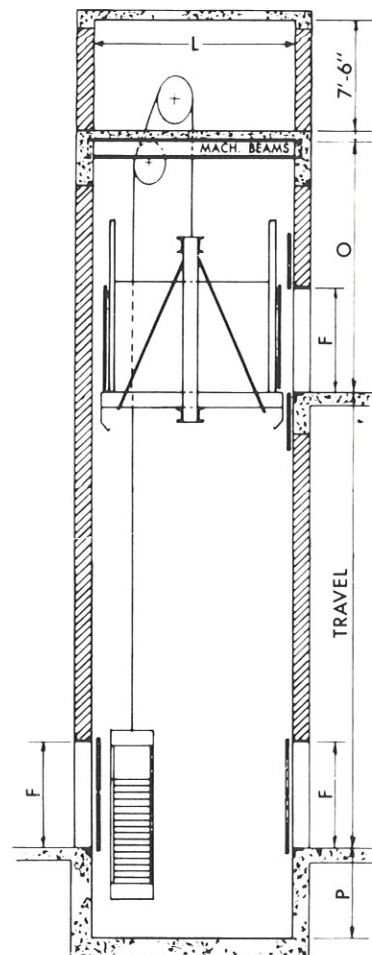
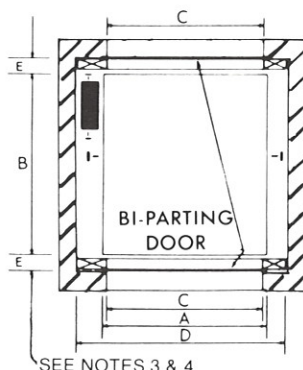
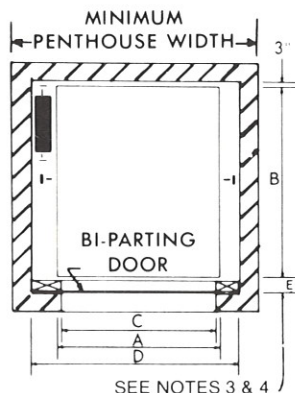
Montgomery standard signal and pushbutton fixtures shown feature cover plates of stainless steel. Custom fixtures are also available. Contact your local Montgomery representative for details.

# montgomery<sup>®</sup> 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 Lodemaster, an automatic load weighing device, which warns against overloading. Also recommended are power operated hoist-way doors and car gates for medium and heavy duty installations.

For freight door details see page 18



LIGHT AND MEDIUM DUTY FREIGHT ELEVATORS							HEAVY DUTY POWER TRUCK FREIGHT ELEVATORS					
CAPACITY	2500#	3000#	4000#	6000#	8000#	10,000#	CAPACITY	10,000#	12,000#	16,000#	18,000#	20,000#
A	5'-4"	6'-4"	6'-4"	8'-4"	8'-4"	10'-4"	A	8'-4"	10'-4"	10'-4"	10'-4"	12'-4"
B	7'-0"	8'-0"	8'-0"	10'-0"	10'-0"	14'-0"	B	12'-0"	14'-0"	14'-0"	16'-0"	20'-4"
C	5'-0"	6'-0"	6'-0"	8'-0"	8'-0"	10'-0"	C	8'-0"	10'-0"	10'-0"	10'-0"	12'-0"
D	7'-4"	8'-4"	8'-4"	10'-4"	10'-10"	12'-10"	D	11'-4"	13'-6"	14'-0"	14'-2"	16'-6"
L	13'-0"	14'-0"	14'-0"	14'-0"	14'-0"	15'-0"	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"

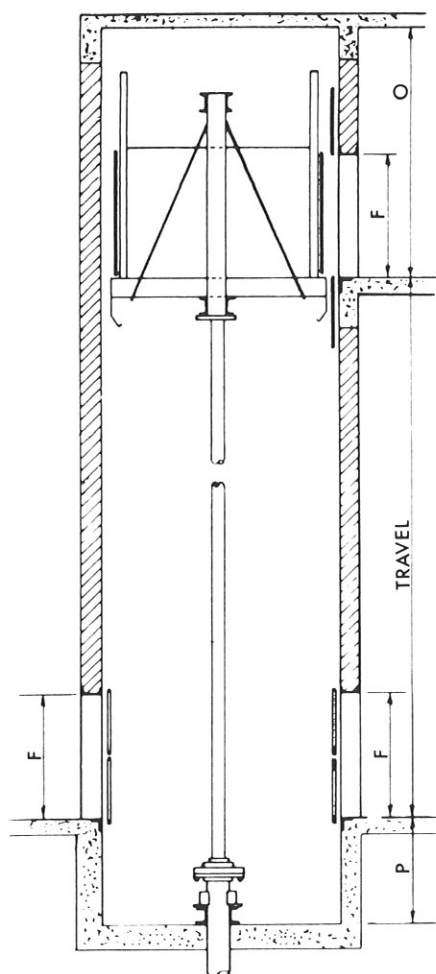
For minimum pit and overhead dimensions for heavy duty power truck freight elevators consult your Montgomery representative.

### NOTES

- Pit depths, overhead clearance and penthouse sizes are in accordance with ANSI 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<sup>3</sup>/<sub>4</sub>' 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 18 for other door sizes.
- Dimension F = 7'-0" on light and medium duty, 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.

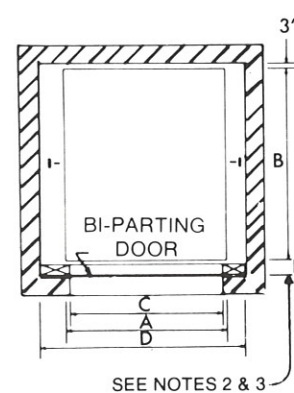
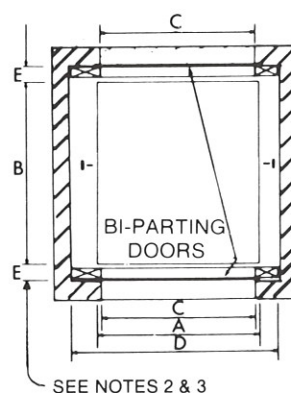
# freight elevators

## oil hydraulic



Oil Hydraulic Freight Elevators are recommended for nominal speed and travel requirements. Features of this type elevator include minimum shaft 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 18



LIGHT AND MEDIUM DUTY HYDRAULIC FREIGHT ELEVATORS							
CAPACITY	2000 #	3000 #	4000 #	5000 #	6000 #	7500 #	10,000 #
A	5'-0"	5'-6"	6'-6"	8'-6"	8'-6"	8'-6"	10'-6"
B	6'-0"	7'-0"	8'-0"	10'-0"	12'-0"	12'-0"	14'-0"
C	4'-8"	5'-2"	6'-2"	8'-2"	8'-2"	8'-2"	10'-2"
D-manual doors	6'-4"	6'-10"	7'-10"	9'-10"	10'-0"	10'-6"	12'-6"
D-power doors	6'-10"	7'-4"	8'-4"	10'-4"	10'-6"	10'-6"	12'-6"
O-7'-0" high doors	13'-2"	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"	14'-2"
P	4'-6"	4'-6"	4'-6"	4'-6"	4'-6"	5'-0"	5'-0"

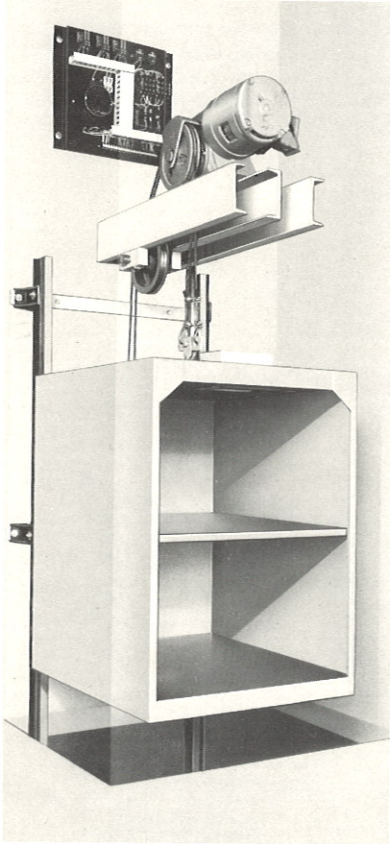
- NOTES
- Dimensions O and P are based on car speeds up to 150 fpm.
  - Dimension E = 5" for regular type counter balanced hoistway doors and 6 3/4" for pass type counter balanced hoistway doors.
  - Pass type hoistway doors are required when floor heights are less than 11'-0" for 7'-0" openings and less than 14'-0" for 9'-0" openings. See chart on page 18 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.

HEAVY DUTY POWER TRUCK HYDRAULIC 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"

- Pit depths, and overhead clearances are in accordance with ANSI 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.

# montgomery® dumbwaiters

## traction drive

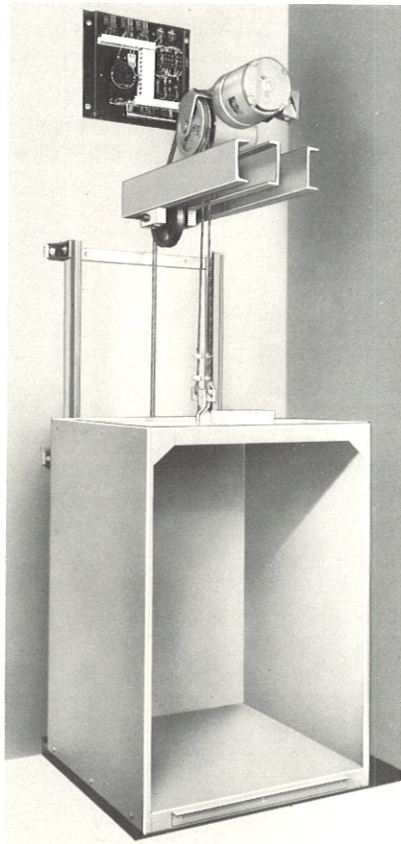


### high speed traction drive

Model 1401 has machine above and Model 1402 has machine below. Designed to take hard use for all high rise projects, these models are top of the line with car speeds from 100 to 150 FPM (and above on request). Capacities from 200 to 500 pounds. Standard operation is automatic call-send.

### moderate speed traction drive

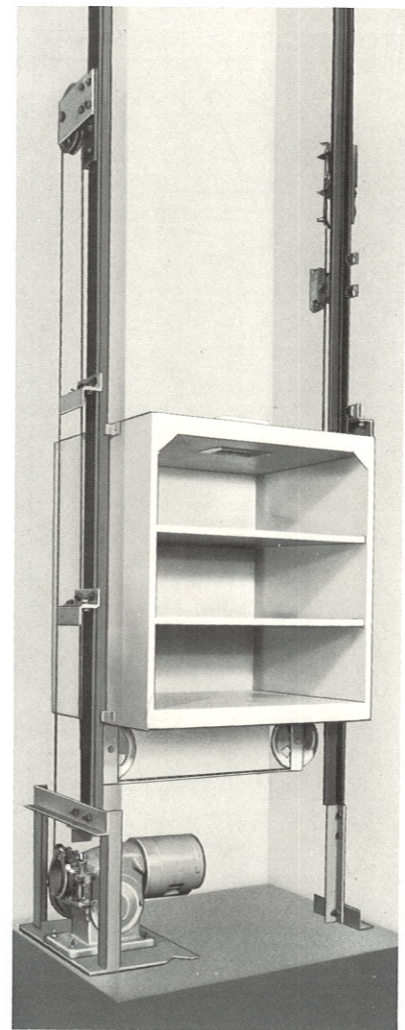
Model 1431 has machine above and Model 1432 has machine below. Satisfies economical speed requirements for 2 to 6 landing projects such as restaurants, apartments, hospitals, hotels, motels, institutions, banks, office buildings. Heavy duty guide rail columns support machine and transmit down load weight to bottom of hoistway. Lifting capacities from 75 pounds to 500 pounds and the car speed is 50 FPM. Standard operation is automatic call-send.



### heavy duty traction drive

Model 1405 has machine above and Model 1406 has machine below adjacent to hoistway. Designed for heavy duty wheeled truck loading. A substitute for small cargo elevators in commercial buildings, industrial buildings, research buildings, piers, warehouses, libraries, dormitory buildings. Lifting capacity up to 500 pounds and car speeds from 50 FPM to 150 FPM. Standard operation is automatic call-send.

## electric drum drive



### moderate speed electric drum drive

Counter Height Loading or Floor Level Loading models are 1420 with the machine below adjacent to hoistway, and 1421 with the machine above. Applicable for all moderate speed requirements up to 35 feet of travel. Ideal for non-load bearing walls. These models support and transmit all down loads to the bottom of the hoistway. Capacities from 150 to 500 pounds and car speed of 50 fpm.

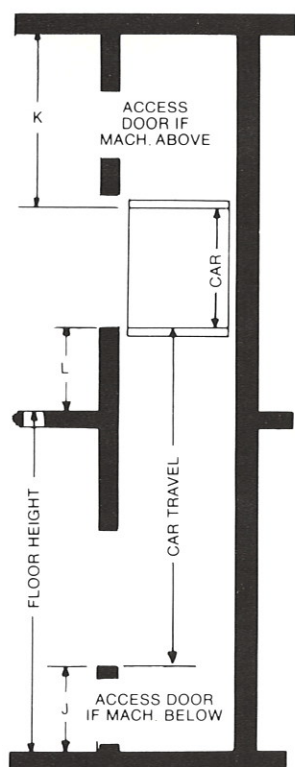
### moderate speed electric drum drive letter lift

Counter Height Loading models 1441 (machine above) and 1442 (machine below). Capacities are 25 and 50 pounds, speed 50 fpm, maximum travel 35'0", standard car size 15" wide, 15" deep, 18" high.

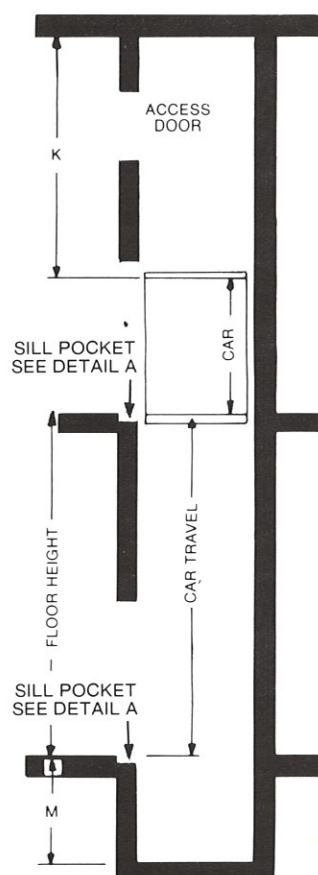
Except for model 1441 and 1442 (letter lift) optional car sizes are available up to 9 square feet of floor area and up to 4'-0" high.

# dumbwaiters

## COUNTER HEIGHT LOADING



## FLOOR LEVEL LOADING



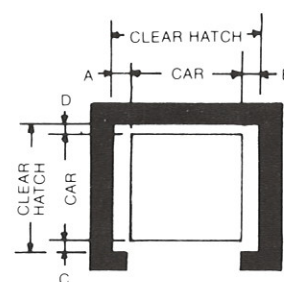
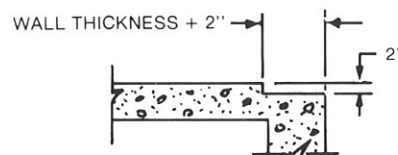
## ELEVATIONS

Montgomery Elevator Company has dumbwaiters for every need including electric traction and drum machine models. These dumbwaiters are manufactured to rigid high standards of quality. For more information including available options, write for Montgomery's brochure SF2048.

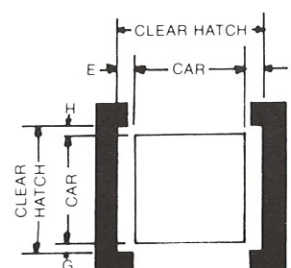
For details on dumbwaiter entrances, see page 18.

### Detail A

Sill pocket — required at all floors for dumbwaiters that load and unload at floor level.



PLAN 1



PLAN 2

## PLAN VIEWS

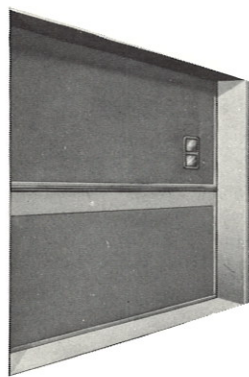
COUNTER HEIGHT LOADING											
MODEL NO.	TYPE OF MACHINE	MACHINE LOCATION	PLAN 1				PLAN 2				
			OPENINGS FRONT ONLY				OPENINGS FRONT & REAR ELEVATIONS				
			A	B	C	D	E	F	G	H	J K L M
1401	Traction	Above	6 1/2	5 1/2	3	6 1/2	6 1/2	5 1/2	3	3	30 54 30 —
1402	Traction	Below	6 1/2	5 1/2	3	6 1/2	6 1/2	5 1/2	3	3	34 42 30 —
1431	Traction	Above	6 1/2	5 1/2	3	3	6 1/2	5 1/2	3	3	30 48 30 —
1432	Traction	Below	6 1/2	5 1/2	3	3	6 1/2	5 1/2	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	6 1/2	5 1/2	3	6 1/2	6 1/2	5 1/2	3	3	0 54 0 36
1406	Traction	Below	6 1/2	5 1/2	3	6 1/2	6	6	3	3	0 42 0 36
1420	Drum	Below	6	6	3	3	6	6	3	3	0 42 0 36
1421	Drum	Above	6	6	3	3	6	6	3	3	0 48 0 36

\*Machine below for floor loading dumbwaiter requires the machine to be placed adjacent to the shaftway.

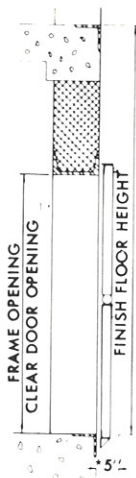
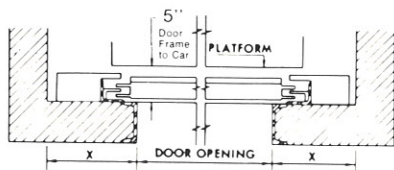
\*\*Floor level loading with slide up doors. M = 12" minimum.

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.

### freight doors



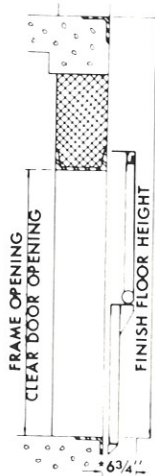
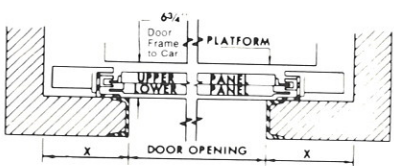
### regular type door



#### DIMENSION KEY

X — 13" minimum return required for motorized door of either type shown.  
X — 10" minimum return required for manual door of either type shown.  
Minimum pit depth =  $\frac{1}{2}$  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.

### 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 Representative for exact information for your drawings.

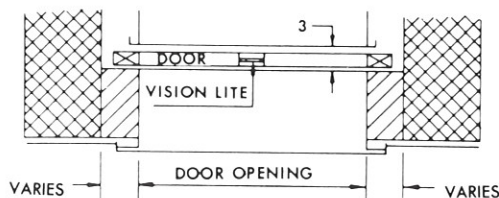
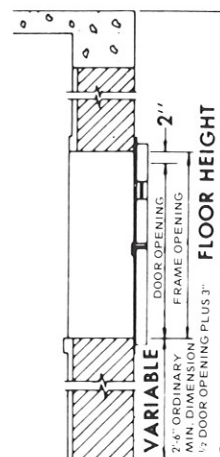
### dumbwaiter doors

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 or stainless steel finish.  
Slide up or slide down type entrances.

**DIMENSION KEY** — One opening must be larger than the car so the assembled car can be placed into the hatch or removed for service or repair. Front walls to be left out until door frames are installed. Refer to page 17 for additional data.



SEE PAGES 16 AND 17  
FOR DUMBWAITER  
DETAILS

# escalators

Escalators move more people at lower cost per passenger than any other form of vertical transportation. They may be the primary carrier in retail buildings, in transportation terminals and in highly populated office buildings, or can effectively augment elevator systems, especially in high rise office buildings.

Operating from main floors to: lower parking levels, mezzanine or second floor shops and restaurants, or top elevator floor to penthouse restaurants. Escalators provide the most efficient transportation in these heavy traffic locations, allowing elevator systems to serve other areas of the building more efficiently.

## EFFICIENCY —

two steps on the same level at entry and exit speeds and safeguards traffic "a montgomery exclusive."

## SAFETY —

more and better safety devices than any other escalator.

## APPEARANCE —

durable modern materials retain attractive appearance.

## LOW COST MAINTENANCE —

attained by high quality equipment.

## DEPENDABILITY —

quickly and easily serviced — less "down" time.



Miami Free Zone, Miami, Florida. 2 Montgomery escalators and 5 Montgomery elevators.

## typical montgomery escalator users

### RETAIL

Allied Stores Corporation  
Associated Dry Goods Corporation  
Bonwit Teller  
Carter-Hawley Stores  
City Stores Company  
Dayton-Hudson Corporation  
Dillard Department Stores, Inc.  
T. Eaton Company Ltd.  
Federated Department Stores, Inc.  
Hudson Bay Co.  
R. H. Macy and Company, Inc.  
Marshall Field and Company  
May Department Stores Company  
Mercantile Stores, Inc.  
Montgomery Ward and Company  
Neiman-Marcus  
J. C. Penney Co., Inc.  
Saks Fifth Avenue  
Sears Roebuck & Co.  
Woodward & Lothrop, Inc.  
Woodward Department Stores

### OFFICE-BANK-HOTEL

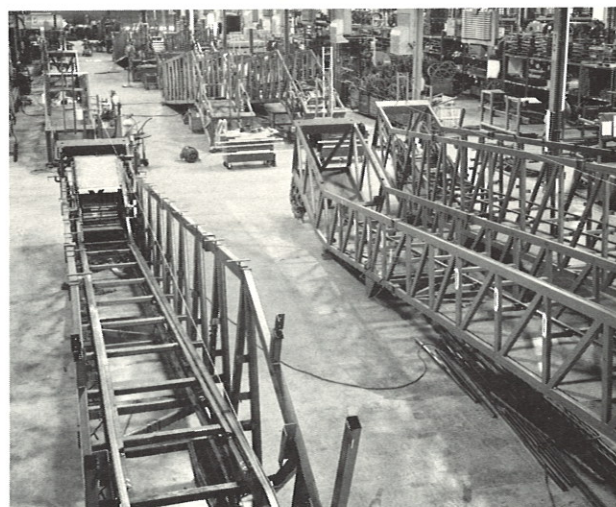
Blue Cross-Blue Shield  
Caterpillar Tractor Co.  
Disneyland Hotel  
Ford Motor Company  
General Motors Corporation  
Hilton Hotels Company  
Hyatt Regency  
Prudential Plaza  
Sheraton Hotel Corp.

### TRANSPORTATION & PUBLIC

Atlanta International Airport  
Boston Subway, Mass. Transit Authority  
Candlestick Park  
Chicago Transit Authority  
Dallas/Fort Worth International Airport  
Denver Stapleton Airport  
Detroit Cobo Hall  
Honolulu International Airport  
The Louisiana Superdome  
Montreal (Mirabel) International Airport  
San Francisco-Rapid Transit/BARTD  
Sea-Tac International Airport  
Chiang Kai-Shek Int'l. Airport (Taiwan)  
Toronto International Airport  
Toronto Transit Commission



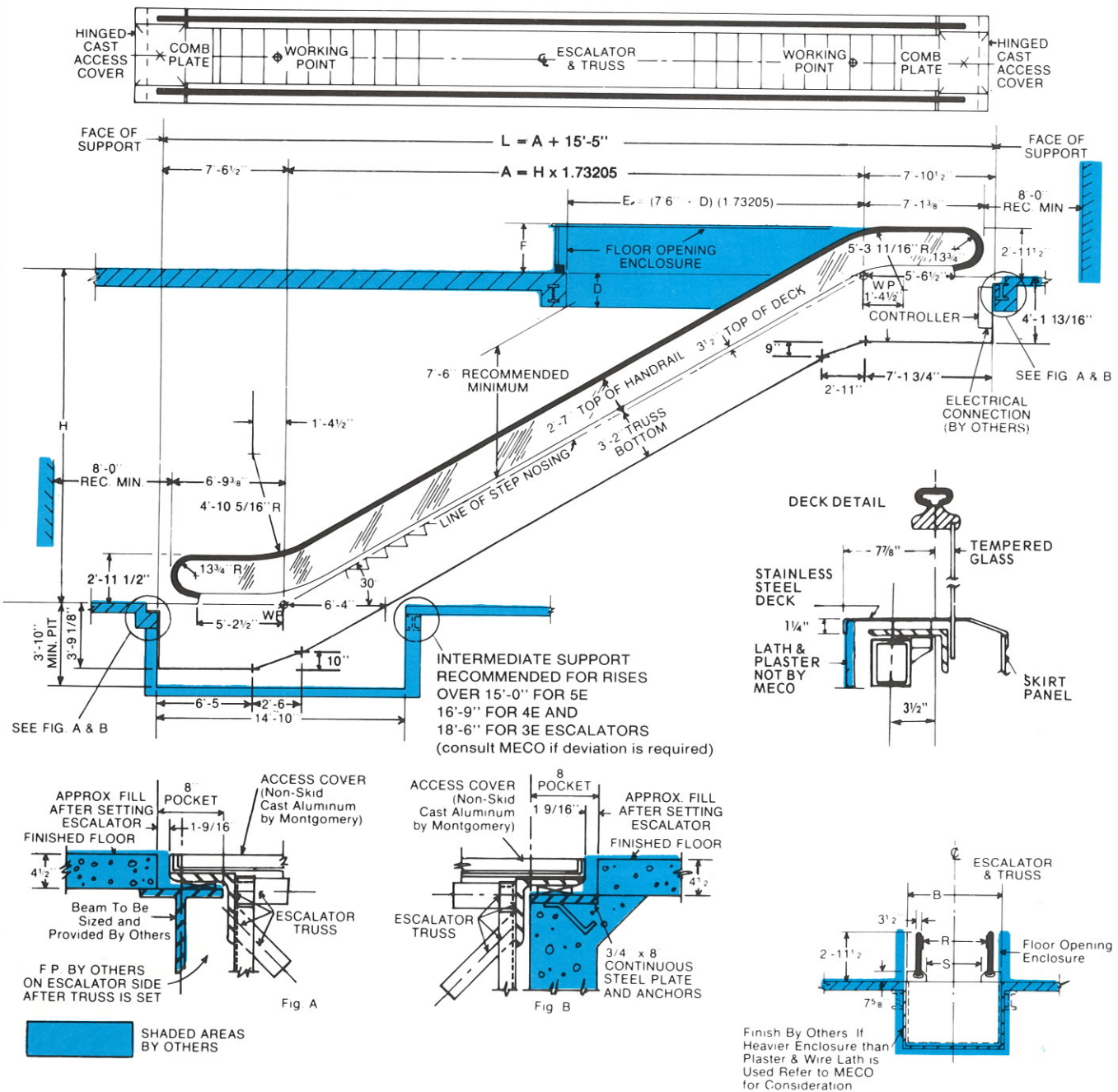
Fox Hills Mall, Culver City, California. 8 Montgomery escalators and 5 Montgomery elevators.



Montgomery Escalator Factory, Moline, Illinois. Escalator being assembled in new escalator factory.

# montgomery<sup>®</sup> escalators

## crystal 3000 glass balustrade

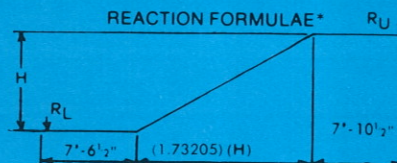


### LAYOUT NOTE:

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.

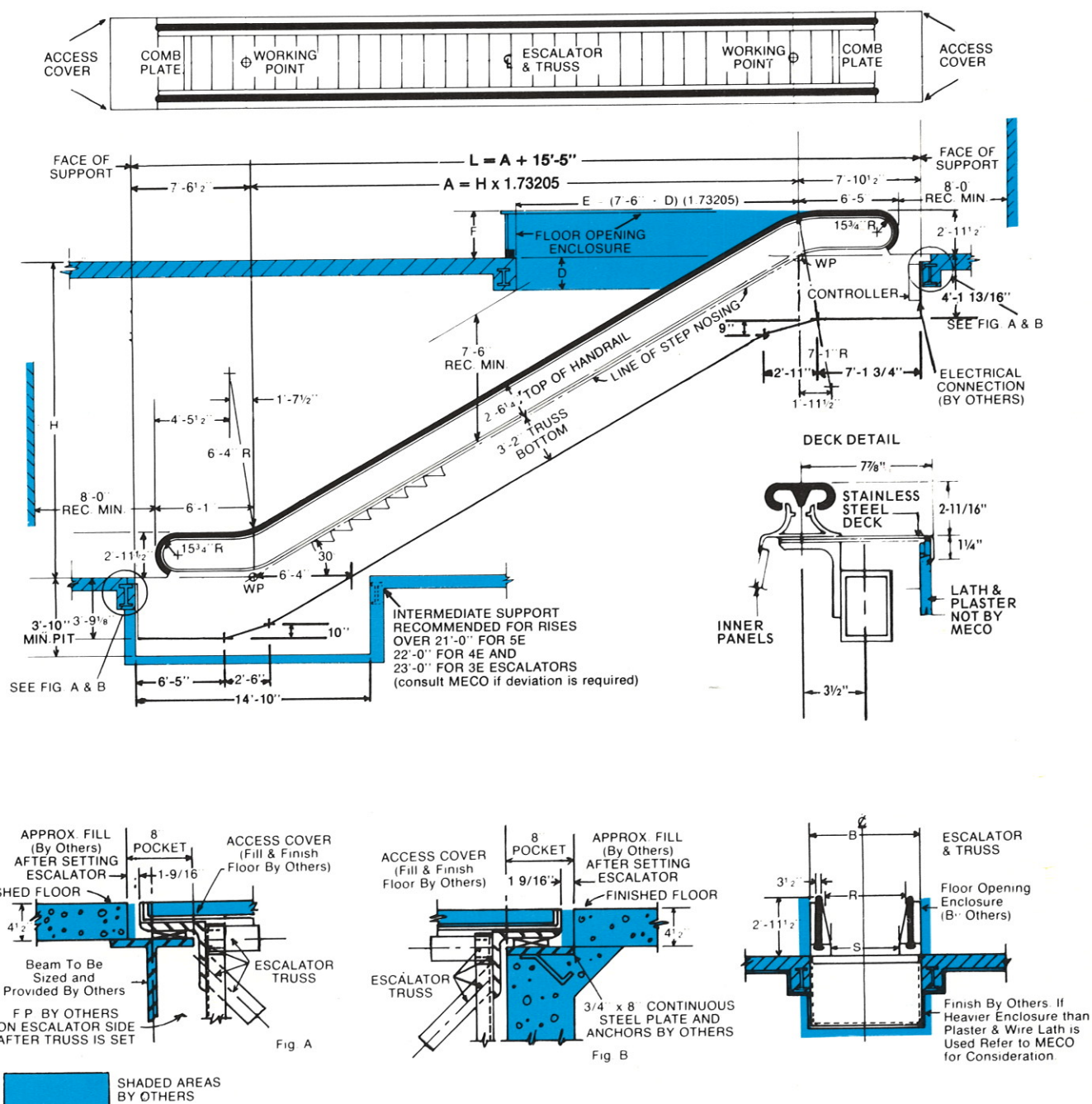
E-F-G—Detail and kind of wellway railings or fire shutter enclosures which are not furnished by the balustrade manufacturer.



Consult MECO for reactions if intermediate support is used.

escalators

solid balustrade



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

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"	

**NOTES:**

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

# montgomery<sup>®</sup> escalators

## 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; D.C. brake; portable UL classified\* 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.

\*Classified by Underwriters Laboratories Inc. as to fire and shock hazard only. Elevator Control Panel classed NIUU. See UL Classified Products Directory.

### 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."
6. Fill and finish flooring for access covers for solid balustrade escalators.

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

### MOTOR HORSEPOWER REQUIREMENTS

### POWER DATA

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"

HP	200 VOLTS		460 VOLTS		575 VOLTS	
	STARTING CURRENT IN AMPERES	RUNNING CURRENT IN AMPERES	STARTING CURRENT IN AMPERES	RUNNING CURRENT IN AMPERES	STARTING CURRENT IN AMPERES	RUNNING CURRENT IN AMPERES
	90 FPM	90 FPM	90 FPM	90 FPM	90 FPM	90 FPM
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	SIZE	FLOOR HEIGHT
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"

HP	200 VOLTS		460 VOLTS		575 VOLTS	
	STARTING CURRENT IN AMPERES	RUNNING CURRENT IN AMPERES	STARTING CURRENT IN AMPERES	RUNNING CURRENT IN AMPERES	STARTING CURRENT IN AMPERES	RUNNING CURRENT IN AMPERES
	120 FPM	120 FPM	120 FPM	120 FPM	120 FPM	120 FPM
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)

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"

### 120/90 FPM (2 SPEED)

HP	200 VOLTS		460 VOLTS		575 VOLTS	
	STARTING CURRENT IN AMPERES	RUNNING CURRENT IN AMPERES	STARTING CURRENT IN AMPERES	RUNNING CURRENT IN AMPERES	STARTING CURRENT IN AMPERES	RUNNING CURRENT IN AMPERES
	120/90 FPM (2 SPEED)	120/90 FPM (2 SPEED)	120/90 FPM (2 SPEED)	120/90 FPM (2 SPEED)	120/90 FPM (2 SPEED)	120/90 FPM (2 SPEED)
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 & ramps



Mirabel International Airport, Montreal, Quebec. 16 Montgomery Power Ramps, 13 Montgomery escalators, 6 Montgomery geared traction elevators, 3 Montgomery hydraulic elevators and 4 Montgomery dumbwaiters.



William B. Hartsfield-Atlanta International Airport, Atlanta, Georgia. 20 Montgomery Power Walks and 34 Montgomery escalators.

## POWER WALKS AND POWER RAMPS

provide fast safe, high-volume horizontal, or combined horizontal and inclined (to 15 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

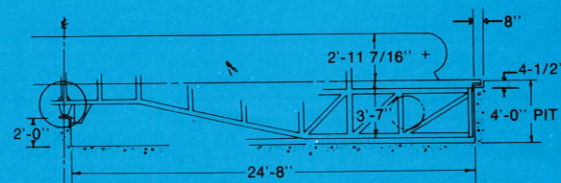
complete truss fabricated of welded, hot rolled, structural steel tubes (or combination of truss and channel stanchion); precision worm gear drive; roller and ball bearings throughout; flange mounted motor; D.C. brake; portable UL classified\* controller; complete electrical and mechanical safety system; 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.

\*Classified by Underwriters Laboratories Inc. as to fire and shock hazard only. Elevator Control Panel classed NIUU. See UL Classified Products Directory.

## CONSULT MONTGOMERY

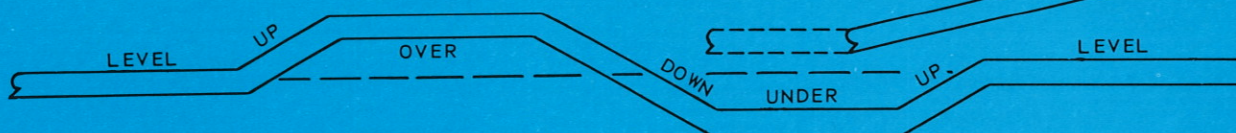
Contact your local Montgomery representative or the Montgomery Elevator Company, Moline, Illinois, for application data, and layout or specification data needed to plan a complete installation.

## PIT CONDITIONS AT BOTH ENDS OF POWER WALKS

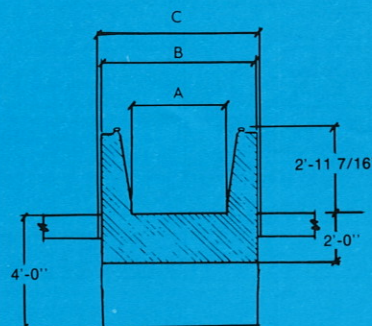


## PLANNING POWER WALKS/POWER RAMPS

Any arrangement or combination of horizontal and inclines, to a maximum of 15 degrees for almost any length can be provided.

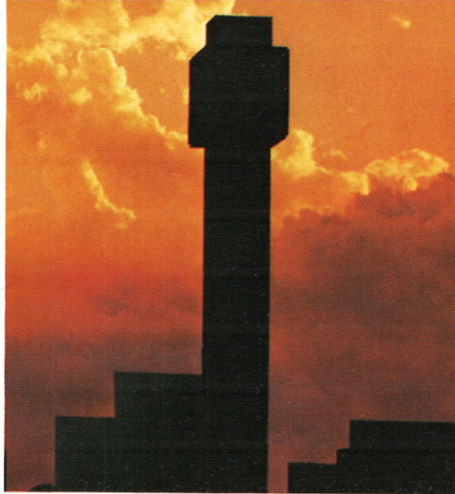


MODEL NO. W = WALK R = RAMP	TREAD WIDTH <b>A</b>	OVERALL WIDTH DECORATOR PANEL OR LATH & PLASTER EXTERIOR COVERING <b>B</b>	WELL WIDTH ROUGH OPENING <b>C</b>
3W-R	24"	4'-4"	OVERALL WIDTH B + 2"
4W-R	32"	5'-0"	
5W-R	40"	5'-8"	



## WIDTHS:

Three standard tread widths are 24", 32" and 40". The 24" width accommodates one adult; the 32" width provides ample room for adult and child or adult and shopping cart; the 40" width accommodates two adjacent adults or adult with luggage.



#### SALES/SERVICE OFFICES

##### UNITED STATES

**Alabama**  
Birmingham  
Mobile  
Montgomery  
**Alaska**  
Anchorage  
**Arizona**  
Phoenix  
Tucson  
**Arkansas**  
Little Rock  
**California**  
Fresno  
Long Beach  
Los Angeles  
Modesto  
Palm Springs  
Redding  
Riverside  
Sacramento  
San Diego  
San Francisco  
San Jose  
Santa Maria  
**Colorado**  
Colorado Springs  
Denver  
Greeley  
**Connecticut**  
Hartford  
(General Elev. Co.)  
**Delaware**  
Wilmington  
(General Elev. Co.)  
**District of Columbia**  
Washington D.C.  
**Florida**  
Daytona Beach  
St. Lauderdale  
Ft. Myers  
Gainesville  
Jacksonville  
Lakeland  
Miami  
Naples  
Orlando  
Pensacola  
Sarasota/Bradenton  
St. Petersburg  
Tallahassee  
Tampa  
West Palm Beach  
**Georgia**  
Atlanta  
Augusta  
Macon  
**Hawaii**  
Hilo  
Honolulu  
Wailuku

##### Illinois

Bloomington  
Carbondale  
Chicago  
Decatur  
Dixon  
Galesburg  
Joliet  
LaSalle  
Moline  
(Corp. Hdqts.)  
Peoria  
Quincy  
(Wagner Elev. Serv., Inc.)  
Rock Island  
Rockford  
(Lamps Elev. Sales  
& Serv.)  
Springfield  
**Indiana**  
Fort Wayne  
(Early Elev. Corp.)  
Indianapolis  
Kokomo  
(Early Elev. Corp.)  
Muncie  
South Bend  
(Early Elev. Corp.)  
**Iowa**  
Burlington  
(Wagner Elev. Serv., Inc.)  
Cedar Rapids  
Clinton  
Des Moines  
Dubuque  
Ottumwa  
(Wagner Elev. Serv., Inc.)  
Sioux City  
(Carter Elev. Co., Inc.)  
Waterloo  
**Kansas**  
Hays  
Pittsburg  
Salina  
Topeka  
Wichita  
**Kentucky**  
Bowling Green  
(Murphy Elev. Co.)  
Lexington  
(Murphy Elev. Co.)  
Louisville  
(Murphy Elev. Co.)  
Richmond  
(Murphy Elev. Co.)  
**Louisiana**  
Baton Rouge  
Lafayette  
New Orleans  
Shreveport  
**Maryland**  
Annapolis  
(General Elev. Co.)  
Baltimore  
(General Elev. Co.)

Cumberland  
(General Elev. Co.)  
Hagerstown  
(General Elev. Co.)  
Salisbury  
(General Elev. Co.)  
**Massachusetts**  
Boston  
Worcester  
**Michigan**  
Ann Arbor  
Benton Harbor  
Detroit  
Flint  
Grand Rapids  
Lansing  
Muskegon  
Traverse City  
**Minnesota**  
Minneapolis-St. Paul  
**Mississippi**  
Biloxi  
Hattiesburg  
Jackson  
Meridian  
**Missouri**  
Columbia  
Jefferson City  
Joplin  
Kansas City  
Kirksville  
(Wagner Elev. Serv., Inc.)  
St. Joseph  
St. Louis  
(Eberius Elev. Co.)  
**Montana**  
Billings  
Bozeman  
Butte  
Great Falls  
Helena  
Missoula  
**Nebraska**  
Lincoln  
Omaha  
**Nevada**  
Las Vegas  
Reno  
Stateline  
**New Jersey**  
Atlantic City  
(General Elev. Co.)  
Camden  
(General Elev. Co.)  
Kenilworth  
(General Elev. Co.)  
**New Mexico**  
Albuquerque  
**New York**  
Albany  
(Midstate Elev. Co.)  
Buffalo  
(Gallagher Elev. Co., Inc.)  
Ithaca  
(Midstate Elev. Co., Inc.)  
Long Island City  
(Staley Elev. Co.)  
Massena  
(Midstate Elev. Co., Inc.)  
New York City  
Syracuse  
(Midstate Elev. Co., Inc.)  
Utica  
(Midstate Elev. Co., Inc.)  
Watertown  
(Midstate Elev. Co., Inc.)  
White Plains  
(General Elev. Co.)  
**North Carolina**  
Boone  
Charlotte  
Raleigh  
**Ohio**  
Akron  
Cincinnati  
Cleveland  
Columbus  
Dayton  
Mansfield  
Toledo  
(Toledo Elev. &  
Machine Co.)

**Oklahoma**  
Enid  
Oklahoma City  
Stillwater  
Tulsa  
**Oregon**  
Eugene  
Portland  
**Pennsylvania**  
Allentown  
(General Elev. Co.)  
Harrisburg  
(General Elev. Co.)  
Lancaster  
(General Elev. Co.)  
Philadelphia  
(General Elev. Co.)  
Pittsburgh  
(General Elev. Co.)  
Reading  
(General Elev. Co.)  
Scranton  
(Grindell Elev. Co.)  
Windber  
(Eastern Elev. Serv.  
& Sales)  
Wilkes-Barre  
(General Elev. Co.)  
Williamsport  
(General Elev. Co.)  
**South Carolina**  
Charleston  
**South Dakota**  
Aberdeen  
(Carter Elev. Co., Inc.)  
Rapid City  
(Carter Elev. Co., Inc.)  
Sioux Falls  
(Carter Elev. Co., Inc.)  
**Tennessee**  
Kingsport  
Knoxville  
Memphis  
Nashville  
(Capitol City Elev.  
Co., Inc.)  
**Texas**  
Amarillo  
Austin  
Beaumont  
Corpus Christi  
Dallas  
El Paso  
Fort Worth  
Houston  
Lubbock  
Odessa  
San Antonio  
Tyler  
Waco  
**Utah**  
Salt Lake City  
**Vermont**  
Burlington  
**Virginia**  
Norfolk  
(General Elev. Co.)  
Richmond  
(General Elev. Co.)  
**Washington**  
Olympia  
Seattle  
Spokane  
Tacoma  
Yakima  
**Wisconsin**  
Appleton  
(J. B. Elev. Co.)  
Green Bay  
(J. B. Elev. Co.)  
Madison  
(Braun Electric &  
Elevator, Inc.)  
Milwaukee  
Sheboygan  
(J. B. Elev. Co.)  
Wausau  
(J. B. Elev. Co.)  
**Wyoming**  
Casper  
Cheyenne

**CANADA**  
**Alberta**  
Calgary  
Edmonton  
**British Columbia**  
Fort St. John  
Kamloops  
Kelowna  
Nanaimo  
Prince George  
Prince Rupert  
Vancouver  
Victoria  
**Manitoba**  
Winnipeg  
**Newfoundland**  
(Eastern Elevator  
Services, Ltd.)  
**Ontario**  
Barrie  
Brockville  
Hamilton  
Kitchener  
London  
North Bay  
Ottawa  
Peterborough  
St. Catharines  
Toronto  
Windsor  
**Maritime Provinces**  
Nova Scotia  
(Eastern Elevator  
Services, Ltd.)  
St. John  
New Brunswick  
(E. S. Stevenson &  
Co., Ltd.)  
Prince Edward Island  
(E. S. Stevenson &  
Co., Ltd.)  
**Quebec**  
Hull  
Montreal  
Quebec  
**Saskatchewan**  
Saskatoon  
**ARGENTINA**  
Buenos Aires  
(Ascensores Ing.  
Guillemi S.R.L.)  
**PUERTO RICO**  
Sanjurjo  
(Caribbean Elev.  
Serv., Inc.)  
**BAHAMAS**  
Nassau  
(Basden Elev. Co., Ltd.)  
**GUAM**  
Agana  
**MEXICO**  
Mexico 8 D.F., Mexico  
(Elevadores de  
Mexico S.A.)  
**PANAMA**  
Afiliada A. Hojalateria  
(Instalaciones  
Técnicas, S.A.)  
**PHILIPPINES**  
Manila  
**REPUBLIC OF CHINA**  
Taipei Taiwan  
(Delta Enterprises, Ltd.)  
**REPUBLIC OF  
DOMINICA**  
Santo Domingo  
Dominican Republic  
(Guridi Comercial S.A.)  
**SAUDI ARABIA**  
Riyadh Saudi Arabia  
(T. Frederick Jackson  
(International Ltd.)  
**VENEZUELA**  
Caracas  
(C. A. Venezolana  
de Ascensores)  
  
Numerous other Authorized  
Representatives are located  
throughout the world.

Check the Yellow Pages for the nearest Montgomery location or call our national headquarters Area Code 309-764-6771.  
We're not very far from anywhere in North America.

**montgomery®**  
ELEVATORS/ESCALATORS  
POWER WALKS & RAMPS

MONTGOMERY ELEVATOR COMPANY, MOLINE, ILLINOIS 61265 / MONTGOMERY ELEVATOR COMPANY, LIMITED, TORONTO, ONTARIO M9B3S5 / OFFICES IN PRINCIPAL CITIES OF NORTH AMERICA.

Form No. SF2015-82

*montgomery moves people*

PRINTED IN U.S.A.