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ELEVATORS / ESCALATORS / POWER WALKS & RAMPS

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Cover: Inter Continental Hotel
Houston, Texas

Top & Bottom: Pacific Place
Dallas, Texas



All specifications, dimensions and illustrations comply with product design and materials used as of date of publication. The right to make changes to product design and material used, without notice, is reserved.



FOR OVER 90 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 Lifts and other special lift applications. All with programmable solid state and energy efficient 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 (4); McKinney, Texas; Philadelphia, Pennsylvania; Arkansas City, Kansas; and Toronto, 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.

Montgomery's Canadian corporation headquarters in Toronto covers both the Eastern and Western Divisions.

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 Miprom 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.

Top: Adolphus Hotel
Dallas, Texas

Bottom: First Canadian Place,
Banking Pavilion,
Toronto, Canada



montgomery[®]

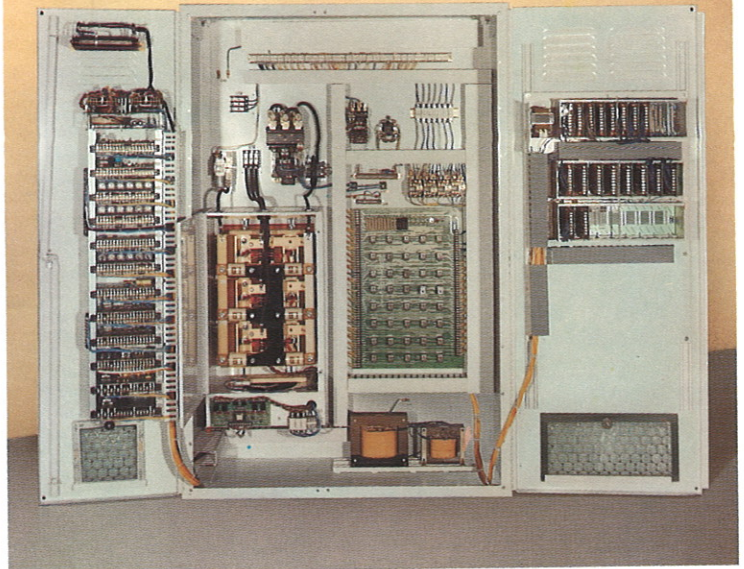
CONTROL SYSTEMS

SSC-6010[®] 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 100-1200 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.



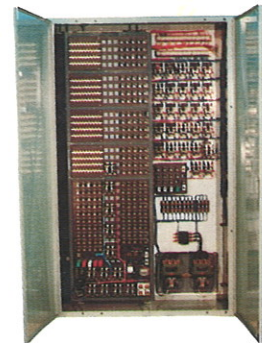
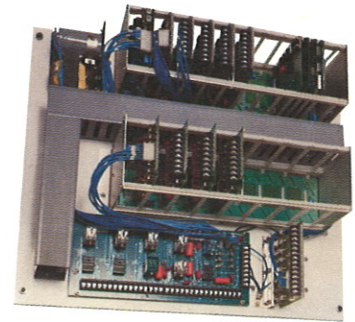
The Montgomery SSC-6010 adjusting section revolutionizes elevator adjusting, previously a tedious task consuming many man-hours. With SSC-6010, trained Montgomery technicians can quickly tune the system for most desirable performance by simply making potentiometer adjustments such as high speed, first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

miprom[®] microprocessor elevator logic control

Montgomery MIPROM[®] is a microprocessor elevator logic control for the mass elevator market. With modular design for the most basic two landing oil hydraulic elevator, to low and medium rise buildings using geared traction elevators, and high rise buildings having high speed gearless traction elevators, MIPROM[®] once "state of the art" is a standard.

Montgomery pioneered and developed MIPROM[®] to offer a compact programmable electronic elevator logic control having superior reliability, reprogrammable flexibility and ease of maintenance. All MIPROM[®] logic controls are strategically programmed for each individual application providing optimum service and efficiency. This allows MIPROM[®] to constantly monitor building traffic requirements so that it can modify its normal operation to respond to all traffic conditions experienced throughout the day.

Montgomery MIPROM[®] 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. All decisions are made in a matter of milliseconds.



SOUND INVESTMENT FOR BUILDING OWNERS

Here are important reasons why Montgomery MIPROM[®] 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[®] 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[®] 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.

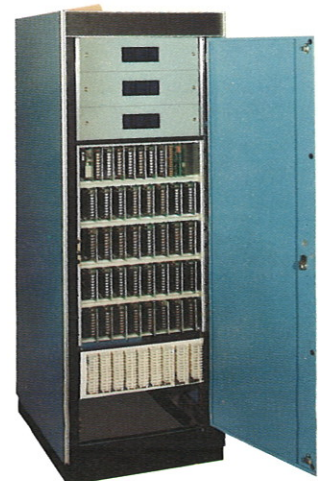
hardwired control system

Montgomery's complete line of control equipment is well known for its reliability and ease of maintenance. Illustrated is a single module of control. Built-in electrical selector eliminates a myriad of moving parts and associated maintenance problems.

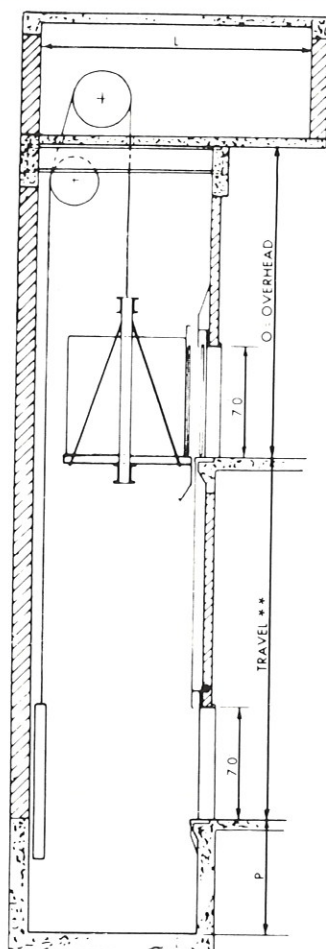
Whereas MIPROM[®] elevator logic control systems (see above) are modularly designed, mass produced and programmed (and reprogrammable), this hardwired control (illustrated at right) is custom engineered to specifications.

MIPROM TMS Traffic Management Systems

This is the first logical step to the modernization of existing elevator installations. MIPROM TMS is a new concept in the application of our proven MIPROM[®] for control information that replaces existing relay logic systems. TMS provides a Microprocessor for each elevator in the group and a common or master processor to evaluate information and direct system operation to give the best service possible for each call or traffic demand. The flexibility and versatility of utilizing TMS permits additional operation modes to be added, or changed, to meet specific building needs.



PASSENGER ELEVATORS



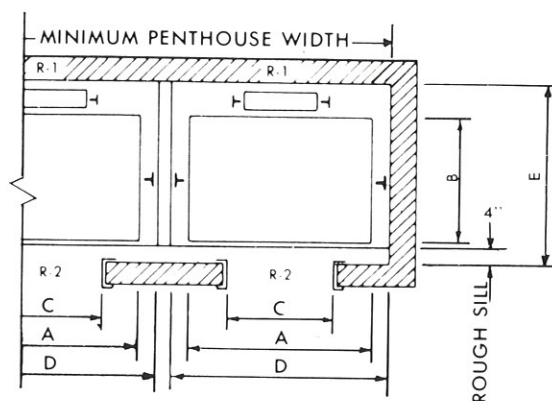
high speed traction

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

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	18'-6"	18'-6"	18'-6"	18'-6"	18'-6"	18'-6"	18'-6"
O	16'-8"	17'-6"	18'-6"	19'-6"	21'-6"	21'-6"	23'-0"
P	7'-4"	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.
- 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.
 - * Add 2" to dimension D for car speed over 700 fpm.
 - ** When car travel is over 150', add 1/4" to overall hoistway width and depth for each additional 25'.
 - *** 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	25000	15000
	500	26000	16000
	600	28000	18000
	700	29000	19000
	800	30000	20000
	1000	31000	21000
	1200	32000	22000
3000#	400	26000	15000
	500	27000	16000
	600	29000	18000
	700	30000	19000
	800	31000	20000
	1000	32000	21000
	1200	33000	22000
3500#	400	28000	16000
	500	31000	17000
	600	34500	19000
	700	34500	19000
	800	36000	21000
	1000	38500	23000
	1200	40000	25000



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.

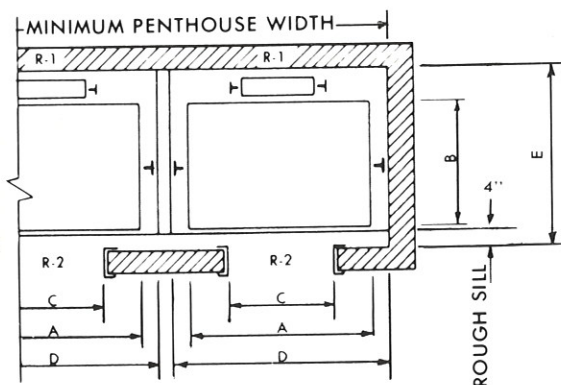
HANDICAPPED REQUIREMENTS AVAILABLE TO MEET NEII STANDARDS OR LOCAL CODES

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

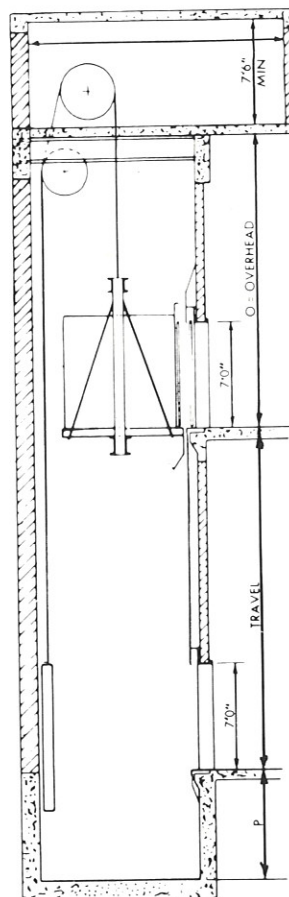
Placement of car controls, hall buttons and phone (or intercommunication equipment) for easy access.

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



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"	18'-0"
O	15'-6"	15'-6"	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"

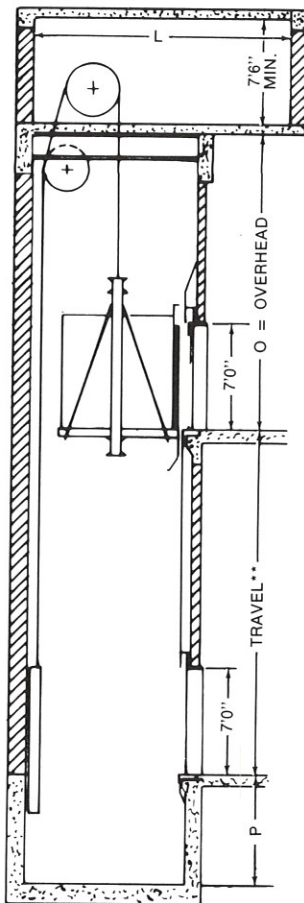
P (a) indicates minimum pit required for elevators with type "A" safety.
P (b) indicates minimum pit required for elevators with type "B" safety.
P (c) indicates minimum pit required for elevators with type "C" safety.

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/ASME code requirements. Local codes may vary these requirements.
- Lays 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	R-1	R-2
1500	13800	7900
2000	18500	9500
2500	22000	11500
3000	23000	11500
3500	24500	13000



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.

SPM elevators have capacities of 2500, 3000, 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.

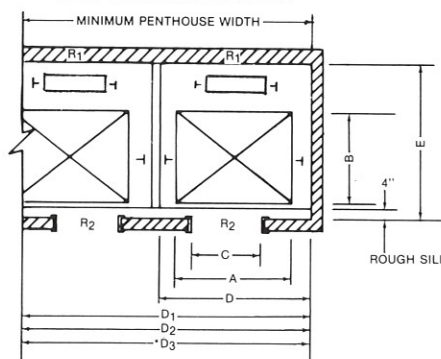
HANDICAPPED REQUIREMENTS AVAILABLE TO MEET NEII STANDARDS OR LOCAL CODES

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 jamba.

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

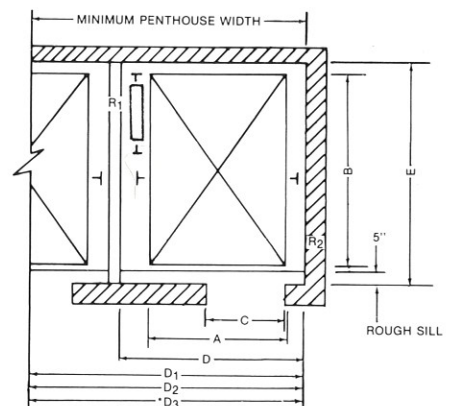
SPM-G2500 & SPM-G3000



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

*See comment at bottom of data chart

SPM-G4000 & SPM-G4500



PLAN FOR ONE OR MORE ELEVATORS
TWO SPEED RIGHT HAND ENTRANCE SHOWN
(TWO SPEED LEFT HAND ALSO AVAILABLE)

NOTES:

- Reactions include allowances for impact but DO NOT include weight or concrete slab.
- Pit depths, overhead clearance and penthouse sizes are in accordance with ANSI/ASME code requirements. Local codes may vary these requirements.
- 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.
- 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.

DATA				
CAPACITIES — SPEED — GENERAL ARRANGEMENTS — SPACE REQUIREMENTS				
Model	Passenger Elevator SPM-G2500	Passenger Elevator SPM-G3000	Passenger Elevator SPM-G4000	Passenger Elevator SPM-G4500
Capacity — Pounds	2500	3000	4000	4500
Speed FPM	200 or 350	200 or 350	200 or 350	200 or 350
**Maximum Travel	200'-0"	200' for 200 FPM 300' for 350 FPM	200'-0"	200' for 200 FPM 300' for 350 FPM
Maximum No. of Stops	16 for 200 FPM 20 for 350 FPM	16 for 200 FPM 30 for 350 FPM	16 for 200 FPM 20 for 350 FPM	16 for 200 FPM 25 for 350 FPM
Platform Size Width x Depth (A) x (B)	7'-0" x 5'-0"	7'-0" x 5'-6"	5'-8" x 8'-9"	5'-8" x 9'-4"
Clear Car Size Width x Depth	6'-8" x 4'-3"	6'-8" x 4'-9"	5'-4" x 7'-11"	5'-4" x 8'-6"
Hoistway Entrance and Car Door Arrangement	Center Opening Standard — Single Slide Optional	Center Opening Standard — Single Slide Optional	Two Speed	Two Speed
Entrance Size Width x Height (C) x (7'-0")	3'-6" x 7'-0"	3'-6" x 7'-0"	4'-0" x 7'-0"	4'-0" x 7'-0"
Hoistway Dimensions Clear Width	D 8'-4" D1 17'-0" D2 25'-8" D3 34'-4"	D 8'-4" D1 17'-0" D2 25'-8" D3 34'-4"	D 7'-8" D1 15'-8" D2 23'-8" D3 31'-8"	D 7'-8" D1 15'-8" D2 23'-8" D3 31'-8"
Wall to Wall Depth 1 to 4 Cars	E 6'-7"	E 7'-1"	E 9'-8"	E 10'-3"
Overhead	O 15'-4" @ 200 FPM 16'-0" @ 350 FPM	O 15'-6" @ 200 FPM 16'-2" @ 350 FPM	O 15'-9" @ 200 FPM 16'-5" @ 350 FPM	O 15'-9" @ 200 FPM 16'-5" @ 350 FPM
Pit	P 5'-0" @ 200 FPM 6'-0" @ 350 FPM	P 5'-0" @ 200 FPM 6'-0" @ 350 FPM	P 5'-0" @ 200 FPM 6'-0" @ 350 FPM	P 5'-0" @ 200 FPM 6'-0" @ 350 FPM
Machine Room Size Width x Depth	8'-4" x 13'-8" 17'-0" x 13'-8" 25'-8" x 13'-8" 34'-4" x 13'-8"	8'-4" x 13'-8" 17'-0" x 13'-8" 25'-8" x 13'-8" 34'-4" x 13'-8"	7'-8" x 16'-10" 15'-8" x 16'-10" 23'-8" x 16'-10" 31'-8" x 16'-10"	7'-8" x 17'-5" 15'-8" x 17'-5" 23'-8" x 17'-5" 31'-8" x 17'-5"
Height (All)	7'-6" Min.	7'-6" Min.	7'-6" Min.	7'-6" Min.
Overhead Loads (lbs.) Approximate Per Elevator	R1 22,000# R2 11,500#	23,000# 11,500#	29,500# 11,000#	30,500# 11,500#



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.

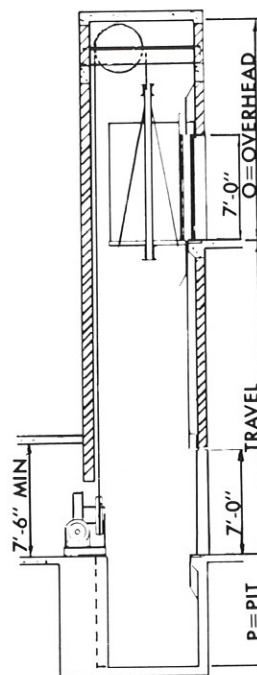
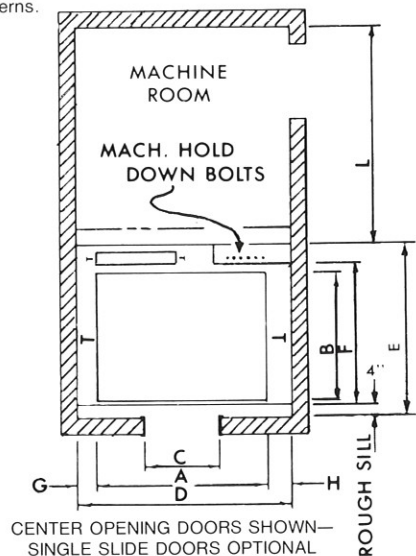
HANDICAPPED REQUIREMENTS AVAILABLE TO MEET NEII STANDARDS OR LOCAL CODE

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

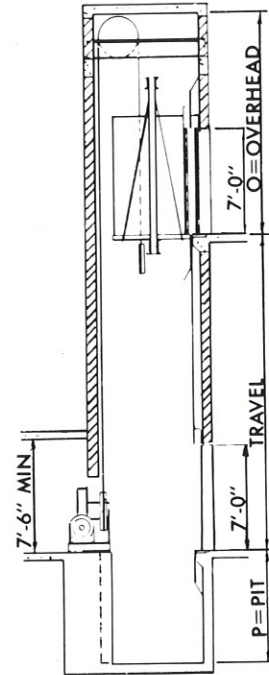
Placement of car controls, hall buttons and phone (or intercommunication equipment) for easy access.

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.



1:1 ROPING



2:1 ROPING

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#
A	6'-0"	7'-0"	7'-0"
B	5'-0"	5'-0"	6'-2"
C	3'-0"	3'-6"	3'-6"
D	7'-10"	8'-4"	8'-4"
E	6'-10"	6'-10"	8'-0"
F	5'-5"	5'-5"	6'-7"
G	10"	8"	8"
H	10"	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(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/ASME 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	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"

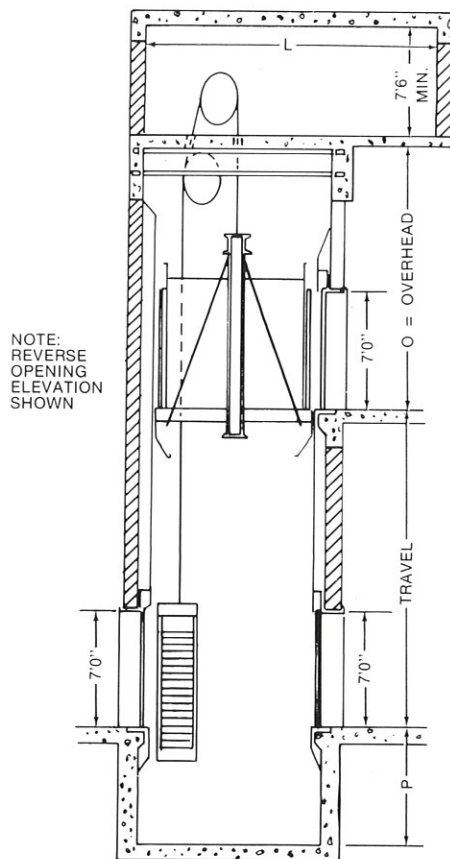
3. Consult your Montgomery Representative for specific recommendations where space is limited or other conditions may necessitate further study.

*4. The overhead dimension can be reduced 1'-0" if the cab selected is kept to a minimum height.

5. All data is general. Consult your local Montgomery Representative for exact information for your working drawings.

PASSENGER ELEVATORS

14.1/Mon



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.

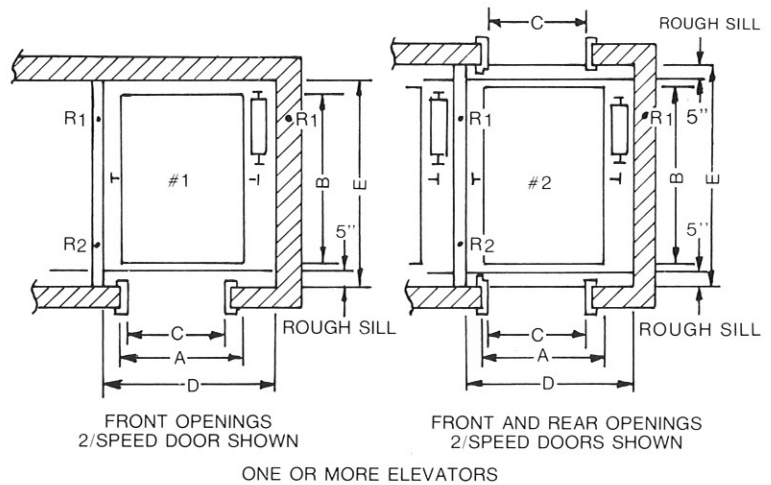
HANDICAPPED REQUIREMENTS AVAILABLE TO MEET NEII STANDARDS OR LOCAL CODES

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 jams.

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



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 (a)	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.

* 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. Layouts and dimensions shown are for two speed 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.



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.

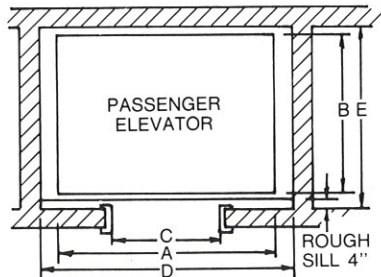
HANDICAPPED REQUIREMENTS AVAILABLE TO MEET NEII STANDARDS OR LOCAL CODES

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

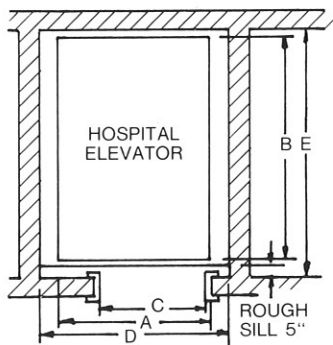
Placement of car controls, hall buttons and phone (or intercommunication equipment) for easy access.

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

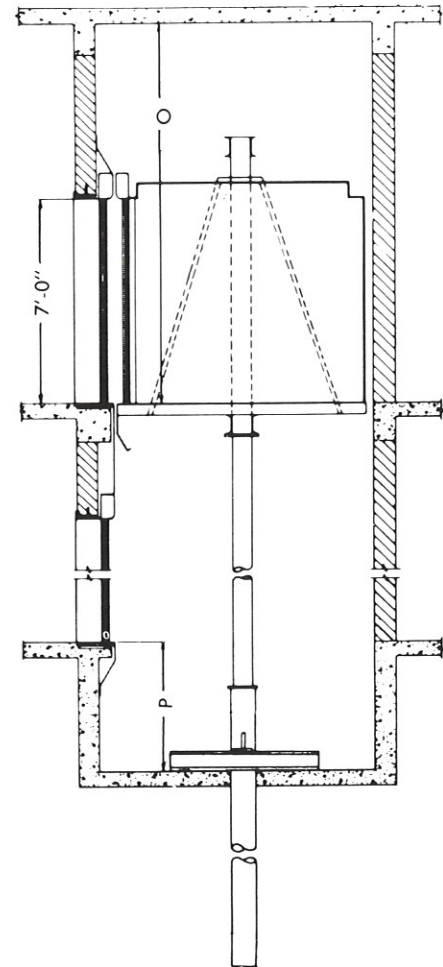
Handrails in car — dual ray door protection — audible signals in car position indicator and lanterns.



CENTER OPENING DOORS SHOWN —
SINGLE SLIDE DOORS OPTIONAL



TWO SPEED DOORS SHOWN



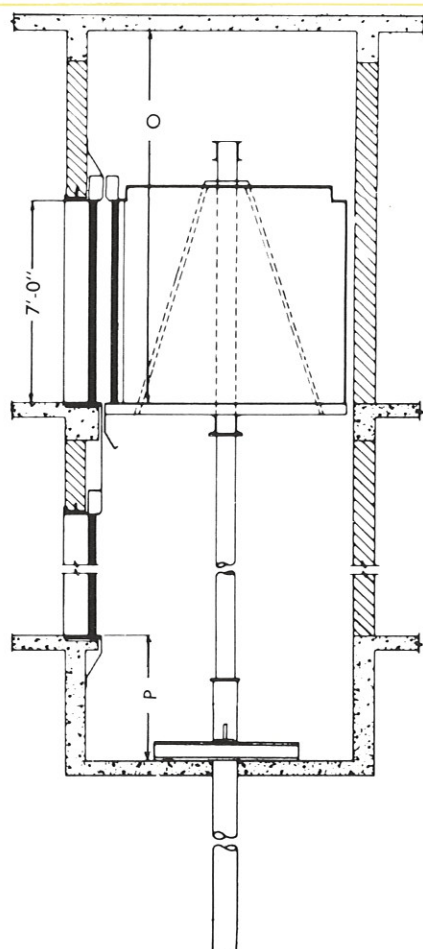
FOR OFFICE BUILDINGS, HOTELS, MOTELS, APARTMENTS, BANKS, STORES, LIBRARIES, ETC.						HOSPITALS AND INSTITUTIONS						
						1 - Single Entrance 2 - Double Entrance						
CAPACITY	1500#	2000#	2500#	3000#	3500#	CAPACITY	3500#		4000#		5000#	
							1	2	1	2	1	2
A	4'-10"	6'-0"	7'-0"	7'-0"	8'-0"	A	5'-4"	5'-4"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

PASSENGER AND HOSPITAL ELEVATORS



ELEVATION

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.

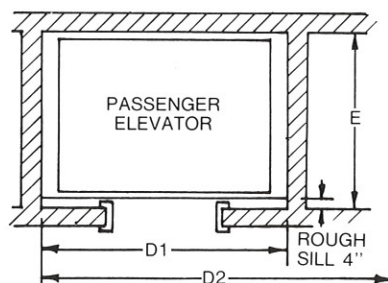
HANDICAPPED REQUIREMENTS AVAILABLE TO MEET NEII STANDARDS, LOCAL CODES OR LAWS.

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

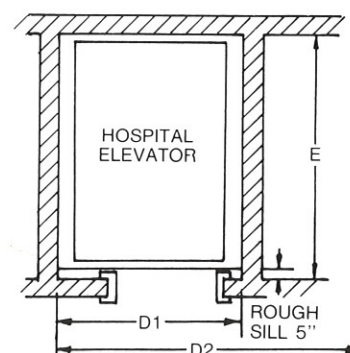
Placement of car controls, hall buttons and phone (or intercommunication equipment) for easy access.

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

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



CENTER OPENING ENTRANCE SHOWN



TWO SPEED ENTRANCE SHOWN

NOTES:

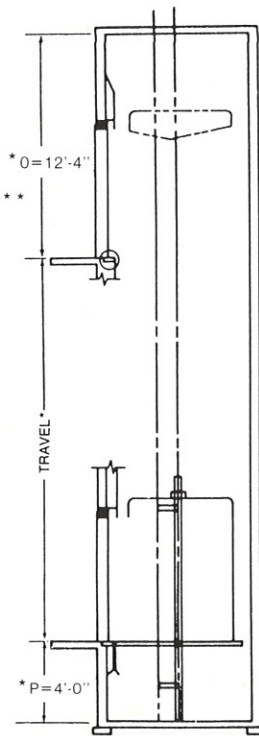
1. A legal machine room meeting code requirements and ventilated with temperature between 65° and 100° F must be provided.
2. Pit depth and overhead clearance are in accordance with ANSI/ASME code requirements. Local codes may vary these requirements.
3. Consult your local Montgomery Office for more 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.

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 Clear Width Wall to Wall Depth Overhead Pit	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 Clear Width Wall to Wall Depth Overhead Pit	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 Height (Clear) Two Cars Width x Depth Height (Clear)	8'-4" x 5'-3" 7'-6" N/A	8'-4" x 5'-3" 7'-6" N/A	*Machine Room preferred location is at lowest landing adjacent to hoistway For 125 FPM: 8'-4" x 5'-3" For 150 FPM: 9'-0" x 6'-0" 7'-6" 11'-6" x 9'-6" 7'-6"	9'-6" x 6'-2" 7'-6" 12'-0" x 10'-0" 7'-6"



montgomery[®] PASSENGER AND HOSPITAL ELEVATORS

spm[®] standard pre-manufactured and HH-II holeless oil hydraulics



SINGLE SLIDE ENTRANCE SHOWN

* For SPM's at 100 FPM and travel over 12'-3" or 125 FPM and travel over 11'-9", pit and/or overhead must increase an amount equal to the additional travel.

** For HH-II see chart for overhead requirements.

Holeless Oil Hydraulic Elevators meet Montgomery's high standards of quality. Standard Holeless Equipment is PRE-MANUFACTURED (SPM) in SIX sizes. HH-II in TWO sizes. Both have the advantage of quick delivery, low cost and reliable service while maintaining "custom" quality. SPM Holeless Elevators offer travel to three floors and car speeds to 125 f.p.m. HH-II Holeless Elevators offer travel for two floors at a car speed of 80 f.p.m. Both offer flexibility in entrance and fixture selection with optional decor and finishes.

SPM and HH-II 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:

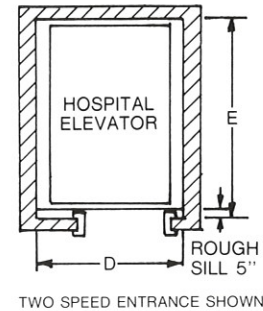
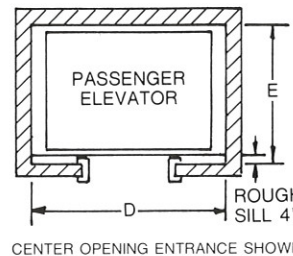
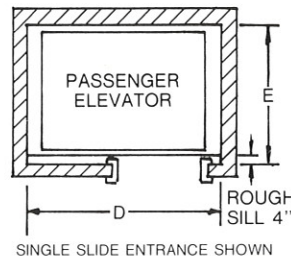
Placement of car controls, hall buttons and phone (or intercommunication equipment) for easy access.

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.

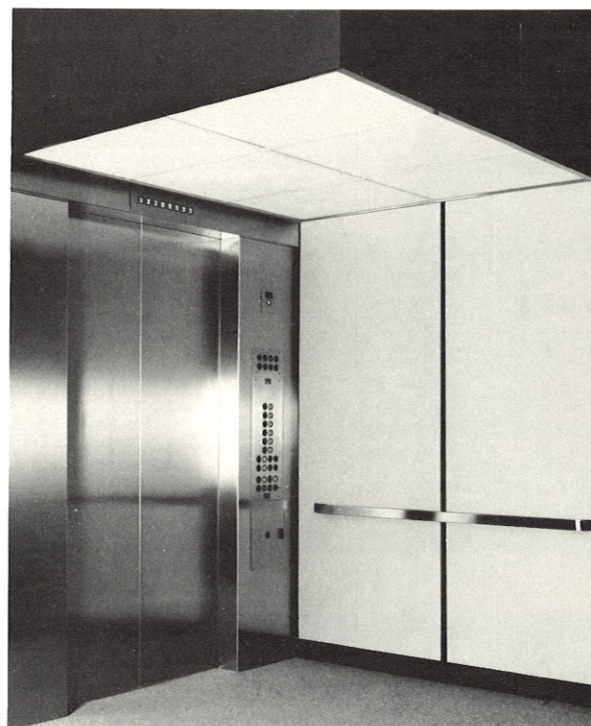
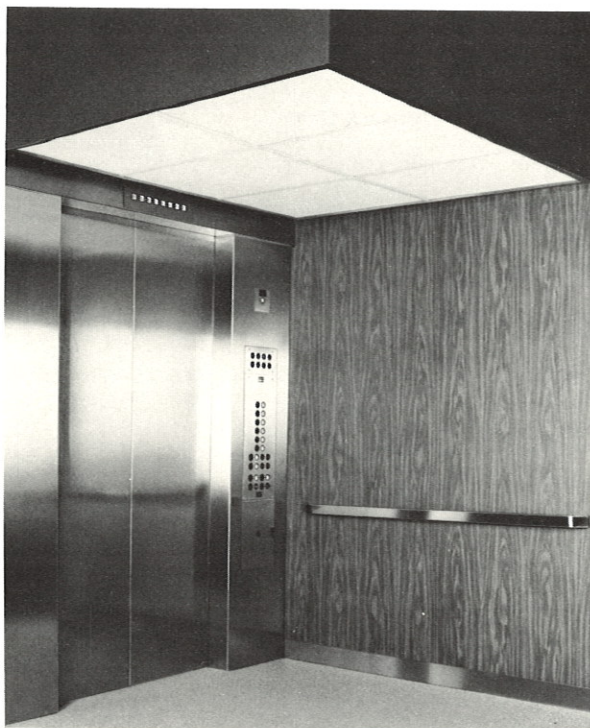
NOTES:

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 clearances shown are in accordance with ANSI/ASME code requirements. Local codes may vary these requirements.
3. All data is general. Consult your local Montgomery Office for exact information for your working drawings.
4. For complete details ask your local Montgomery Office for SPM-HH Brochure SF-2386-384 or HH-II Brochure SF-2393.



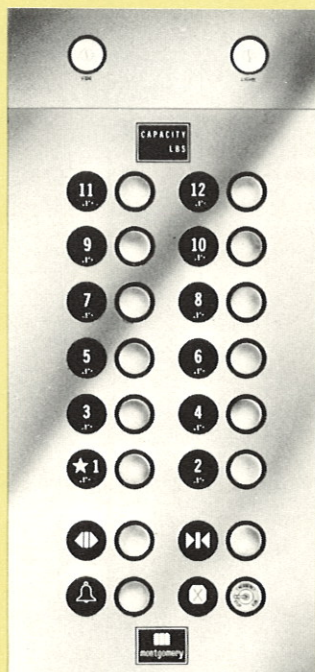
CAPACITIES — SPEEDS — GENERAL ARRANGEMENTS — SPACE REQUIREMENTS								
Model	Passenger Elevator SPM-HH1500	Passenger Elevator SPM-HH2000	Passenger Elevator HH-II-2000	Passenger Elevator HH-II-2500	Passenger Elevator SPM-HH2500	Passenger Elevator SPM-HH3000	Passenger Elevator SPM-HH3500	Hospital Elevator SPM-HH4000
Capacity - Pounds	1500	2000	2000	2500	2500	3000	3500	4000
Speed FPM	100 and 125	100 and 125	80	80	100 and 125	100 and 125	100 and 125	100 and 125
Maximum Travel	20'-0"	20'-0"	15'-0"	15'-0"	20'-0"	20'-0"	20'-0"	20'-0"
Maximum No. of Stops	3	3	2	2	3	3	3	3
Platform Size Width x Depth	4'-10" x 5'-0"	6'-0" x 5'-0"	6'-0" x 5'-0"	7'-0" x 5'-0"	7'-0" x 5'-0"	7'-0" x 5'-6"	7'-0" x 6'-2"	5'-8" x 8'-9"
Clear Car Size Width x Depth	4'-6" x 4'-3"	5'-8" x 4'-3"	5'-8" x 4'-3"	6'-8" x 4'-3"	6'-8" x 4'-3"	6'-8" x 4'-9"	6'-8" x 5'-5"	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	Single Slide Right Hand or Left Hand- Standard Center Opening-Optional	Single Slide Right Hand or Left Hand- Standard Center Opening-Optional	Center Opening- Standard Single Slide Right Hand or Left Hand- Optional	Center Opening- Standard Single Slide Right Hand or Left Hand- 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'-0" x 7'-0"	3'-6" x 7'-0"	3'-6" x 7'-0"	3'-6" x 7'-0"	3'-6" x 7'-0"	4'-0" x 7'-0"
Hoistway Dimensions One Car								
Clear Width	D 6'-8"	D 7'-4"	D 7'-4"	D 8'-4"	D 8'-4"	D 8'-4"	D 8'-4"	D 7'-8"
Wall to Wall Depth	E 5'-9"	E 5'-9"	E 5'-9"	E 5'-9"	E 5'-9"	E 6'-3"	E 6'-11"	E 9'-8"
Overhead	See Elevation Drawings				Travel From 8'-4" to 12'-3": O = 12'-4" Travel From 12'-4" to 15'-0": O = Travel + 1"			
Machine Room One Car								
Width	100 8'-4"	100 8'-4"	80 7'-6"	80 7'-6"	100 8'-4"	100 8'-4"	100 9'-0"	100 9'-0"
Depth	125 8'-4"	125 8'-4"	80 7'-6"	80 7'-6"	125 9'-0"	125 9'-0"	125 9'-6"	125 9'-6"
Height (Clear)	5'-3" 5'-3"	5'-3" 5'-3"	5'-0" 5'-0"	5'-0" 5'-0"	5'-3" 6'-0"	5'-3" 6'-0"	6'-0" 6'-2"	6'-0" 6'-2"

CARS, SIGNALS AND PUSHBUTTON FIXTURES



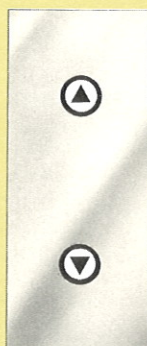
Montgomery standard cars are shown. Other standard cars as well as custom cars are available in a wide range of designs and materials. Contact your local Montgomery representative for details.

signal and pushbutton fixtures



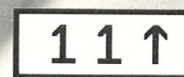
CAR OPERATING PANEL

Floor buttons illuminate when pressed to indicate calls registered. Tactile markings are included. OPTIONAL AUXILIARY OPERATING PANEL is similar to this fixture.



HALL OPERATING BUTTONS

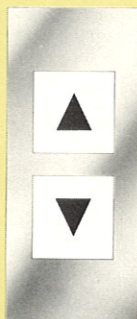
Floor buttons illuminate when pressed to indicate calls are registered.



DIGITAL ELECTRONIC CAR POSITION INDICATOR

Optional digital readout hall position indicator is identical. The single director arrow changes to show opposite direction.

Optional digital readout hall position indicator and hall lantern when furnished may be combined into a single fixture.



OPTIONAL HALL LANTERN

Horizontal type also available.

OPTIONAL CAR DIRECTION SIGN

Located in car jamb to meet handicapped requirements.



OPTIONAL TELEPHONE/SERVICE CABINET

Placed below car operating panel. Key operated fan, light and other service switches are placed in this cabinet. When this cabinet is not furnished, the key operated switches are placed in the bottom of the car operating panel as illustrated.

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.

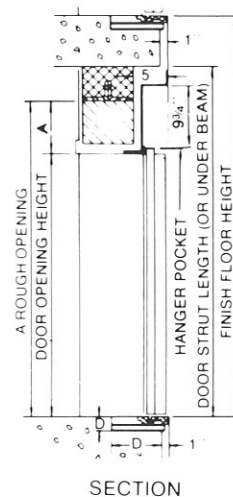
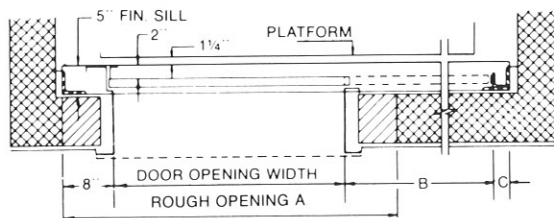
DIMENSION KEY — Wherever possible, front hoistway walls should not be erected until after door equipment is installed.

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.



two speed slide

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

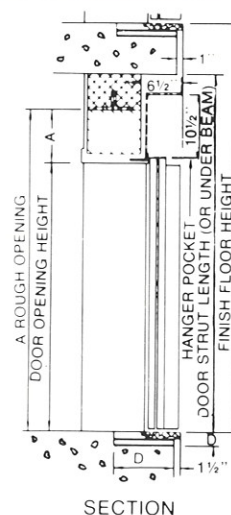
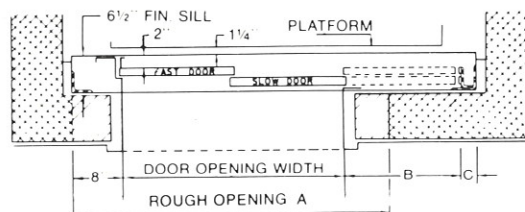
DIMENSION KEY — Wherever possible, front hoistway walls should not be erected until after door equipment is installed.

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" sill pocket entire width of hoistway.



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.

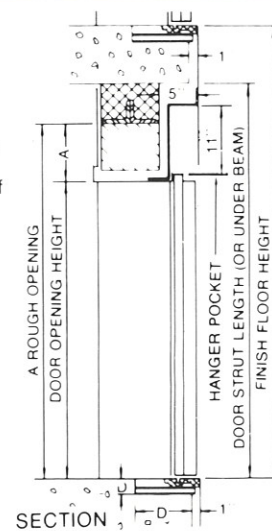
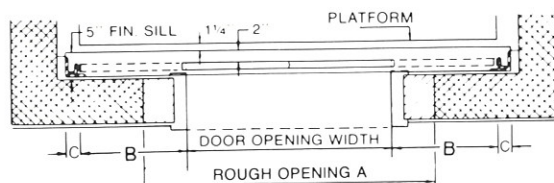
DIMENSION KEY — Wherever possible, front hoistway walls should not be erected until after door equipment is installed.

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 $\frac{3}{4}$ ".

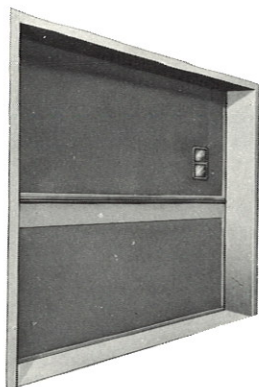
C - 5" for power operated doors.

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

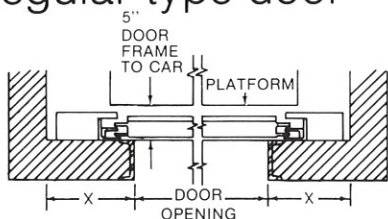


FREIGHT DOORS/DUMBWAITER DOORS

freight doors



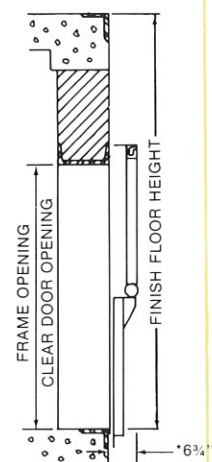
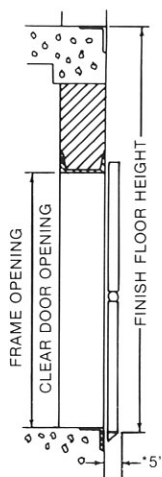
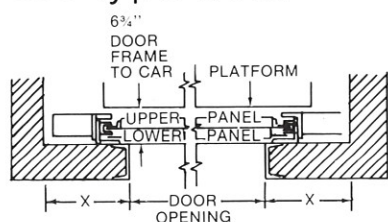
regular type door



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



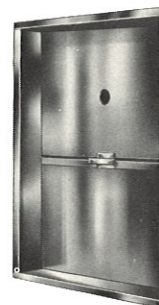
MINIMUM FLOOR HEIGHT BASED ON OPENING HEIGHT OF DOOR		
OPENING HEIGHT OF DOOR	REGULAR TYPE DOOR	*PASS TYPE DOOR
6'-6"	10'-3"	9'-3"
7'-0"	11'-0"	9'-9"
7'-6"	11'-9"	10'-3"
8'-0"	12'-6"	10'-9"
8'-6"	13'-3"	11'-3"
9'-0"	14'-0"	11'-9"
10'-0"	15'-6"	12'-9"

*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.

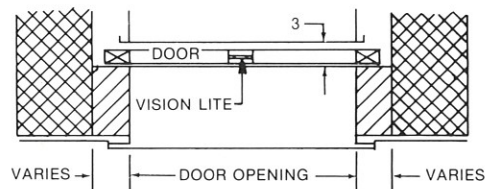
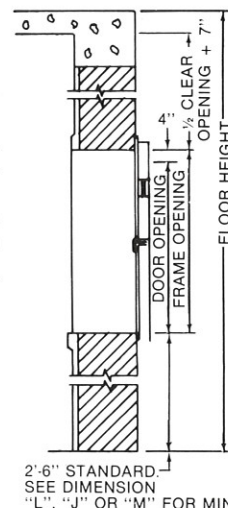
dumbwaiter doors

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 or more openings 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 18 for additional data.

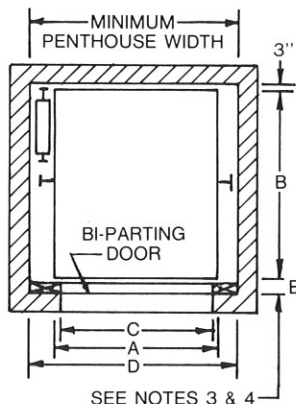


SEE PAGE 18
 FOR DUMBWAITER
 DETAILS

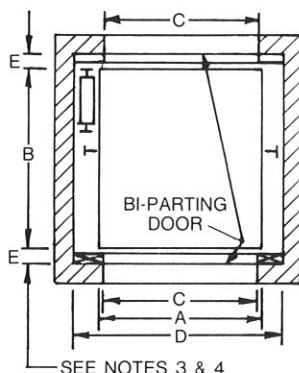
traction

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.

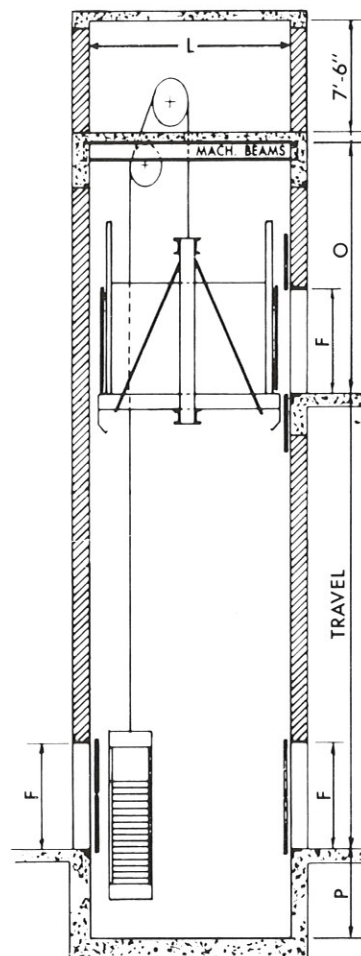
For freight door details see page 15.



SEE NOTES 3 & 4



SEE NOTES 3 & 4



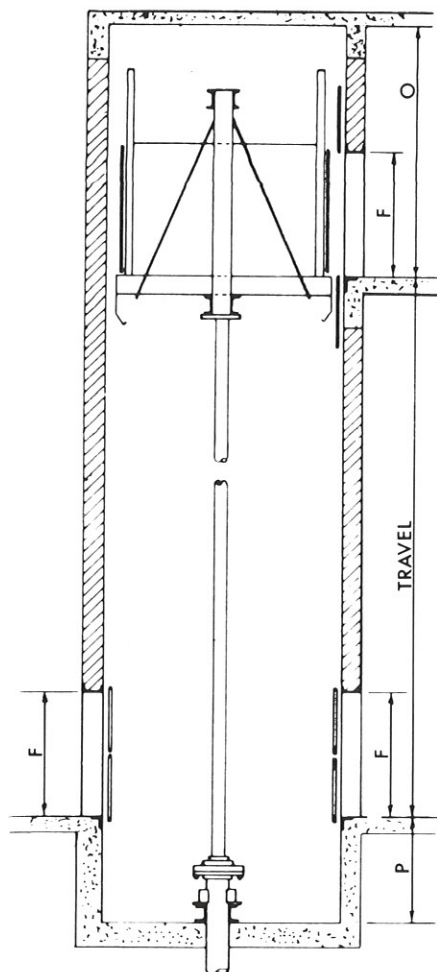
LIGHT AND MEDIUM DUTY FREIGHT ELEVATORS							HEAVY DUTY POWER TRUCK FREIGHT ELEVATORS					
CAPACITY	2500#	3000#	4000#	6000#	8000#	10,000#	CAPACITY	10,000#	12,000#	16,000#	18,000#	20,000#
A	5'-4"	6'-4"	6'-4"	8'-4"	8'- 4"	10'- 4"	A	8'-4"	10'-4"	10'-4"	10'-4"	12'-4"
B	7'-0"	8'-0"	8'-0"	10'-0"	10'- 0"	14'- 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							MINIMUM PIT & OVERHEAD DIMENSIONS FOR HEAVY DUTY POWER TRUCK FREIGHT ELEVATORS					
CAR SPEED	50	75	100	200								
O P	16'-0" 5'-6"	16'-0" 5'-6"	16'-0" 5'-6"	16'-0" 6'-0"	Consult your Montgomery Representative							

- 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 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.
- For reactions and classes of loading, consult your local Montgomery Representative.

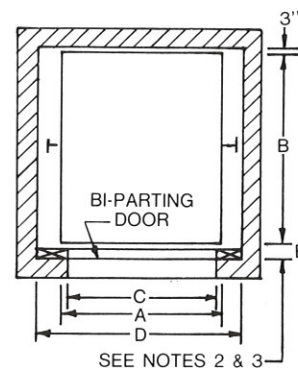
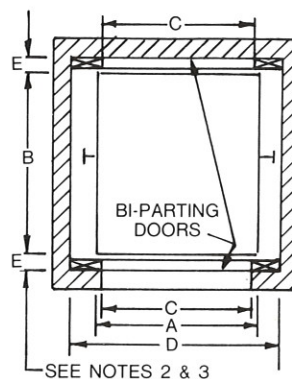
FREIGHT ELEVATORS

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 15.



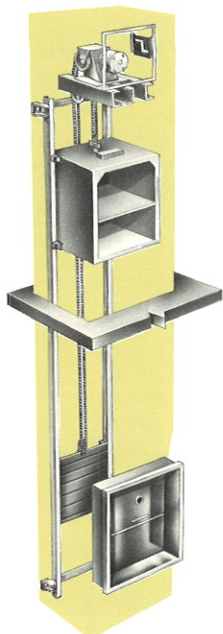
LIGHT AND MEDIUM DUTY HYDRAULIC FREIGHT ELEVATORS							
CAPACITY	2000#	3000#	4000#	5000#	6000#	7500#	10,000#
A	5'- 0"	5'- 6"	6'- 6"	8'- 6"	8'-6"	8'-6"	10'-6"
B	6'- 0"	7'- 0"	8'- 0"	10'- 0"	12'- 0"	12'-0"	14'-0"
C	4'- 8"	5'- 2"	6'- 2"	8'- 2"	8'-2"	8'-2"	10'-2"
D-manual doors	6'- 4"	6'-10"	7'-10"	9'-10"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

montgomery[®] DUMBWAITERS



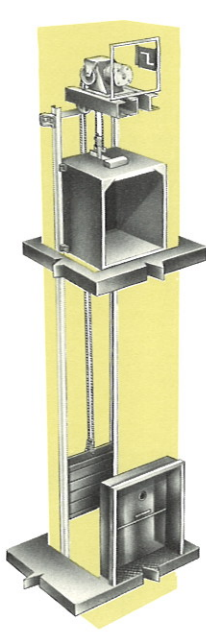
TRACTION DRIVE

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, 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.

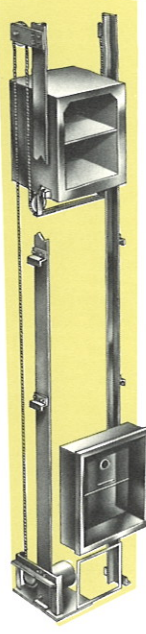


TRACTION DRIVE

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.

Except for model 1441 and 1442 (letter lift) optional car sizes are available up to 9 square feet of floor area and up to 40" high.



ELECTRIC DRUM DRIVE

moderate speed electric drum drive

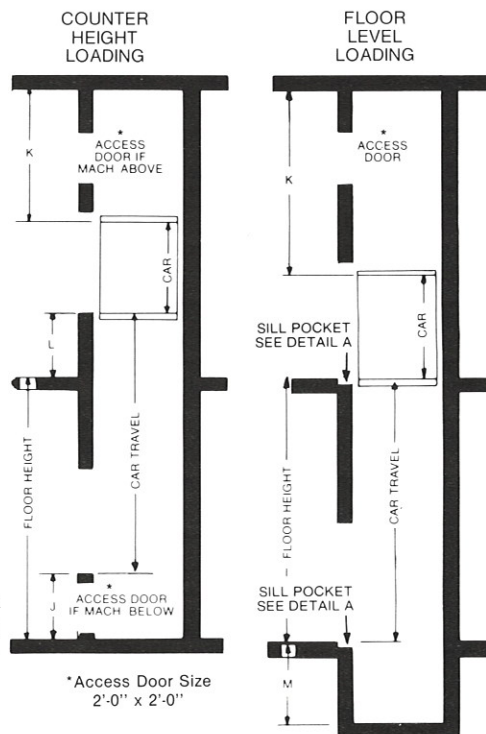
Counter Height Loading or Floor Level Loading models are 1420 & 1422 with the machine below adjacent to hoistway, and 1421 & 1423 with the machine above. Applicable for all moderate speed requirements up to 35 feet of travel. Ideal for non-loading bearing walls. These models support and transmit all 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 or 20" wide, 20" deep, 18" high.

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-R289.

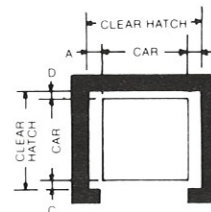
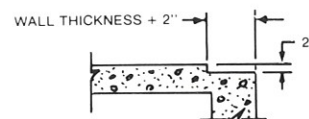
For details on dumbwaiter entrances, see page 15.



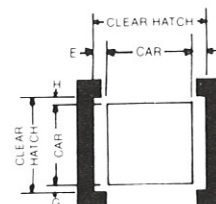
ELEVATIONS

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														
			PLAN 1				PLAN 2							
MODEL NO.	TYPE OF MACHINE	MACHINE LOCATION	OPENINGS FRONT ONLY				OPENINGS FRONT & REAR				ELEVATIONS			
			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	6½	5½	3	6½	6	6	3	3	0	42	0	36
1422	Drum	Below	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.

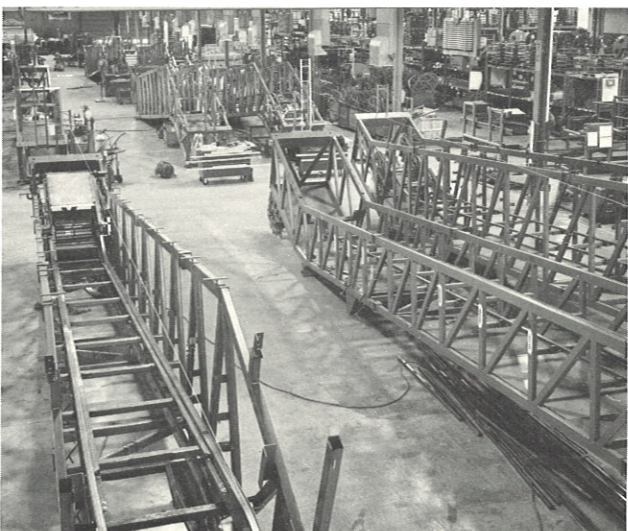
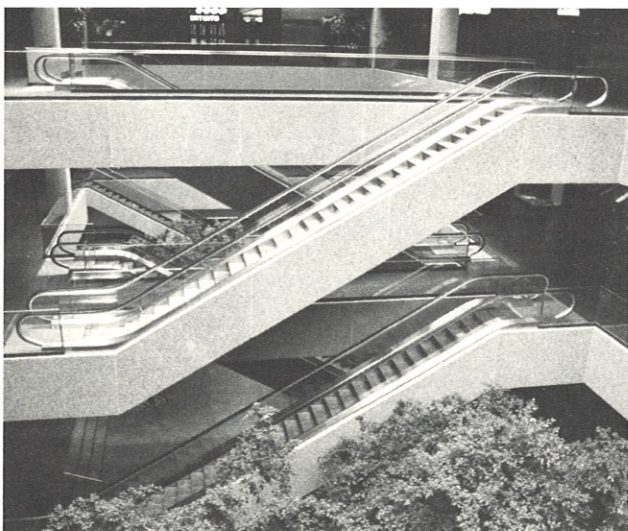
ESCALATORS

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.”



DESIGN/ENGINEERING —

heavy duty construction for long life and trouble free operation

SAFETY —

more and better safety devices than any other escalator

APPEARANCE —

durable modern materials retain attractive appearance

LOW COST MAINTENANCE —

attained by high quality heavy duty equipment

DEPENDABILITY —

quickly and easily serviced — less down time

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
Merchantile 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
Inter-Continental Hotels
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
Los Angeles 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

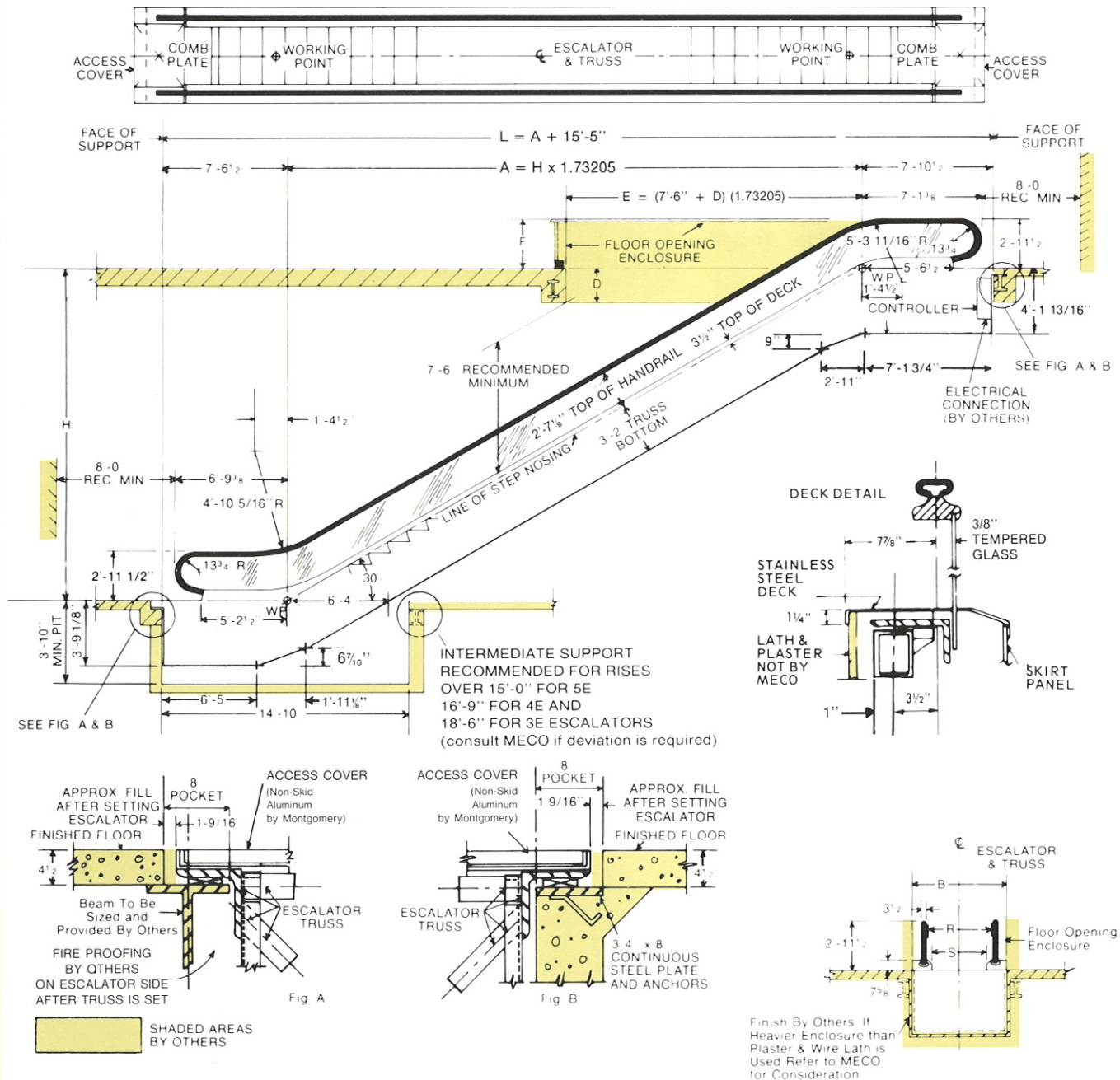


TOP LEFT Edmonton Centre
Edmonton, Alberta, Canada
BOTTOM LEFT Montgomery Escalator Factory
Moline, Illinois
ABOVE Neiman-Marcus
San Diego, California



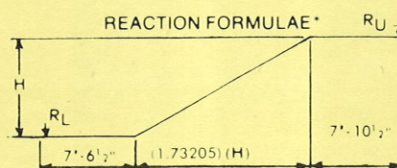
montgomery[®] ESCALATORS

crystal 2000 glass balustrade (model 4000)



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.



32 ESCALATOR		
RL = (550)H + 10.000	RU = (550)H + 11.100	
40 ESCALATOR		
RL = (660)H + 10.570	RU = (660)H + 11.670	
48 ESCALATOR		
RL = (660)H + 11.650	RU = (660)H + 12.750	

Consult MECO for reactions if intermediate support is used.

The image contains several technical drawings for an escalator installation:

- Top Elevation:** Shows the layout of the escalator with labels: ACCESS COVER, COMB PLATE, WORKING POINT, ESCALATOR & TRUSS, WORKING POINT, COMB PLATE, ACCESS COVER. Dimensions include $L = A + 15'-5"$ and $A = H \times 1.73205$.
- Side Elevation:** Detailed view of the escalator structure. Labels include: FACE OF SUPPORT, 7'-6 1/2", 7'-10 1/2", 8'-0" REC MIN, 6'-5", 15 3/4" R, 2'-11 1/2", 4'-1 13/16", 7'-1" R, 7'-1 3/4", 1'-9 3/4", 2'-11", 9", 15 3/4" R, 6'-4" R, 1'-9 1/4", 4'-3 3/4", 6'-1", 8'-0" REC MIN, 2'-11 1/2", 3'-10", 3'-9 1/8", MIN PIT, 6'-5", 1'-11 1/8", 14'-10", 6 7/16", 30", 3'-2" TRUSS BOTTOM, 2'-7 1/4" TOP OF HANDRAIL, 7'-6" REC MIN, FLOOR OPENING ENCLOSURE, D, F, WP, CONTROLLER, ELECTRICAL CONNECTION (BY OTHERS), SEE FIG A & B. Formulas: $E = (7'-6" + D) (1.73205)$.
- DECK DETAIL:** Shows the connection between the STAINLESS STEEL DECK, INNER PANELS, and LATH & PLASTER NOT BY MECO. Dimensions: 77 7/8", 2'-11 1/8", 1 1/4", 3 1/2", 1".
- Fig A:** Cross-section showing the relationship between the ESCALATOR TRUSS, ACCESS COVER (Non-Skid Aluminum by Montgomery), POCKET, and APPROX FILL (By Others) AFTER SETTING ESCALATOR. Labels include: BEAM TO BE SIZED AND PROVIDED BY OTHERS, PROOFING BY OTHERS, ESCALATOR SIDE TRUSS IS SET.
- Fig B:** Cross-section showing the relationship between the ESCALATOR TRUSS, ACCESS COVER (Non-Skid Aluminum by Montgomery), POCKET, APPROX FILL (By Others) AFTER SETTING ESCALATOR, FINISHED FLOOR, and 3/4" x 8" CONTINUOUS STEEL PLATE AND ANCHORS BY OTHERS.
- Bottom Right:** Cross-section showing the relationship between the ESCALATOR & TRUSS, Floor Opening Enclosure (By Others), and Finish By Others. Labels include: Heavier Enclosure Plaster & Wire Lath Used Refer to MECO for Consideration.
- Legend:** SHADED AREAS BY OTHERS.

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.



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 and UL 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

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)	SIZE	FLOOR HEIGHT
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"

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

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.

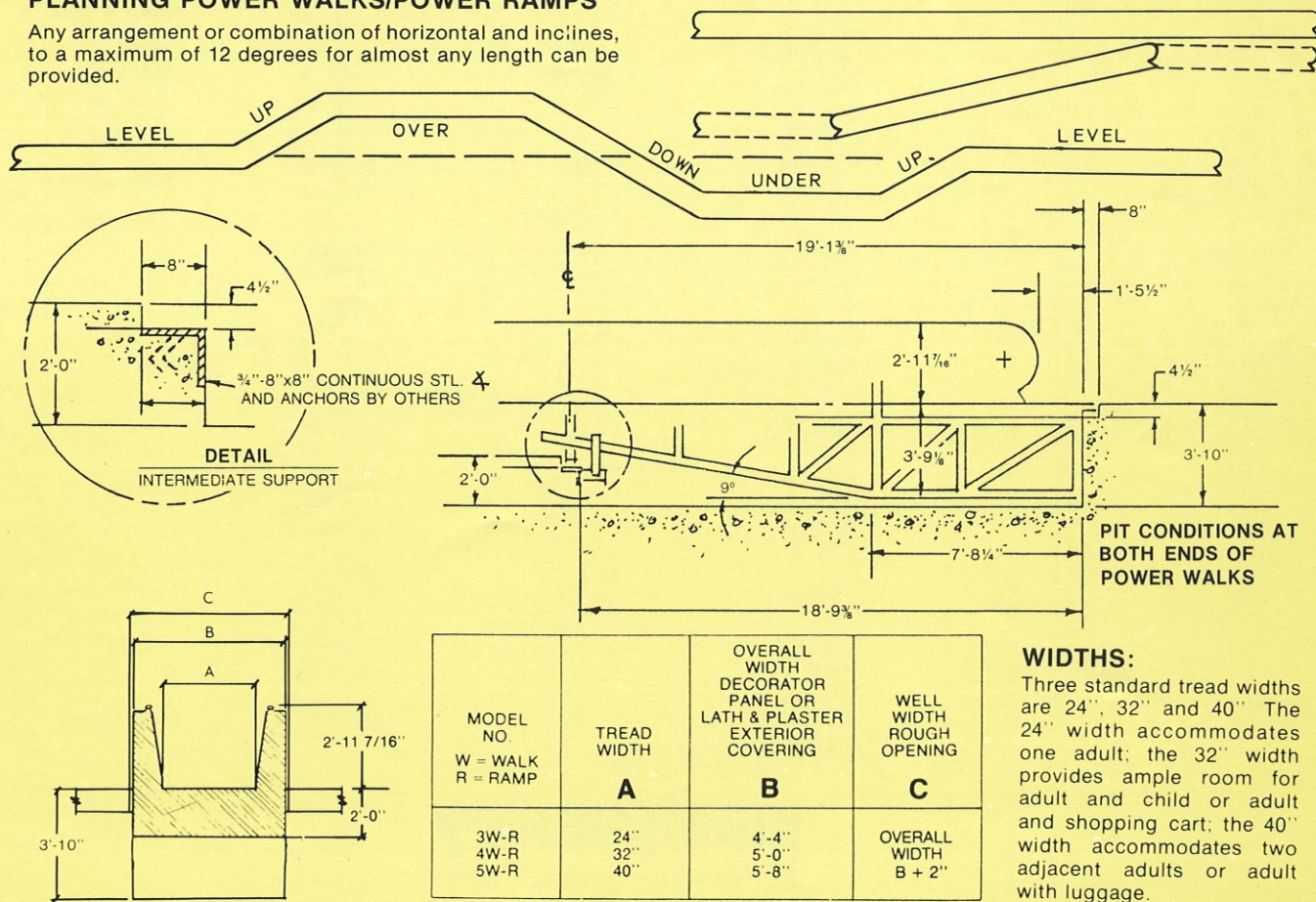
* CSA and UL listed

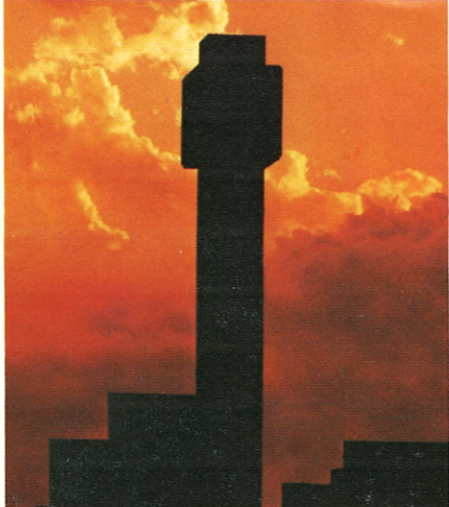
TOP William B. Hartsfield-
Atlanta International Airport
Atlanta, Georgia
BOTTOM Disneyland
Anaheim, California



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.





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Birmingham
Dothan
Huntsville
Mobile
Montgomery

Alaska

Anchorage
(CMW Company)

Arizona

Phoenix
Tucson

Arkansas

Little Rock

California

Fresno
Irvine
Long Beach
Los Angeles
Modesto
Palm Springs
Redding
Riverside
Sacramento
San Bernardino
San Diego
San Francisco
San Jose
Santa Maria
Santa Rosa
Stockton
Torrance
Van Nuys

Colorado

Colorado Springs
Denver

Greeley

Connecticut

Hartford
(General Elev. Co.)

Delaware

Wilmington
(General Elev. Co.)

District of Columbia

Washington D.C.

Florida

Cocoa
Daytona Beach
Ft. 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

Illinois

Bloomington
Carbondale
Champaign
Chicago
Decatur
Galesburg
Joliet
LaSalle
Moline
(Corp. Hdqts.)
Mt. Vernon
Peoria
Quincy
(Wagner Elev. Serv., Inc.)
Rock Island
Rockford
(Lamps Elev. Sales
& Serv.)
Springfield
Sterling
Indiana
Fort Wayne
(Early Elev. Corp.)
Indianapolis
Kokomo
(Early Elev. Corp.)
Lafayette
Marion
(Early Elev. Corp.)
Muncie
South Bend
(Early Elev. Corp.)

Iowa

Burlington
(Wagner Elev. Serv., Inc.)
Cedar Rapids
Clinton
Des Moines
Dubuque
Iowa City
Ottumwa
(Wagner Elev. Serv., Inc.)
Sioux City
(Carter Elev. Co., Inc.)
Waterloo

Kansas

Dodge City
Hays
Pittsburg
Salina
Topeka
Wichita

Kentucky

Bowling Green
(Murphy Elev. Co.)
Lexington
(Murphy Elev. Co.)

Louisville

(Murphy Elev. Co.)

Louisiana

Baton Rouge
Lafayette

Lake Charles

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

Montana

Billings
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.)

Monmouth
(General Elev. Co.)

Springfield
(General Elev. Co.)

New Mexico

Albuquerque

New York

Albany
(Midstate Elev. Co.)
Binghamton
(Midstate Elev. Co.)
Buffalo
(Gallagher Elev. Co., Inc.)

Glen Falls
(Midstate Elev. Co., Inc.)

Ithaca
(Midstate Elev. Co., Inc.)

Long Island City
(Staley Elev. Co.)

Massena
(Midstate Elev. Co., Inc.)

New York City

Rochester
(Gallagher Elev. Co.)

Syracuse
(Midstate Elev. Co., Inc.)

Utica
(Midstate Elev. Co., Inc.)

Watertown
(Midstate Elev. Co., Inc.)

White Plains
(General Elev. Co.)

North Carolina

Boone
Charlotte
Greensboro

Raleigh

Washington

Ohio

Akron
Cincinnati
Cleveland

Columbus

Dayton

Toledo

(Toledo Elev. &
Machine Co.)

Oklahoma

Enid
Oklahoma City

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.)

(Commercial Elev. Co.)

Reading
(General Elev. Co.)

Scranton
(Grindel Elev. Co.)

Williamsport
(General Elev. Co.)

Wilkes-Barre
(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

Galveston

Houston

Laredo

Lubbock

Odessa

San Antonio

Tyler

Waco

Utah
Salt Lake City

Ogden

Vermont
Burlington

Virginia
Norfolk

(General Elev. Co.)

Richmond
(General Elev. Co.)

Washington
Seattle

Spokane

Tacoma

Yakima

West Virginia
Charleston
(Murphy Elev. Co.)

Huntington
(Murphy Elev. Co.)

Wisconsin
Appleton
(J. B. Elev. Co.)

Green Bay
(J. B. Elev. Co.)

Milwaukee

Sheboygan
(J. B. Elev. Co.)

Wausau
(J. B. Elev. Co.)

Wyoming
Casper

Cheyenne

CANADA
Alberta
Calgary

Edmonton

Red Deer

British Columbia
Fort St. John

Kamloops

Kelowna

Nanaimo

Prince George

Prince Rupert

Vancouver

Victoria

Manitoba
Winnipeg

Ontario
Barrie

Belleville

Brockville

Cornwall

Hamilton

Kingston

Kitchener

London

North Bay

Ottawa

Peterborough

St. Catharines

Toronto

Windsor

**Nova Scotia &
Newfoundland**

Halifax

(Eastern Elevator
Services, Ltd.)

New Brunswick
Saint John

Quebec
Hull

Montreal

Quebec City

Saskatchewan
Saskatoon

ARGENTINA
Buenos Aires

(Ascensores Ing.
Guillemi S.R.L.)

BAHAMAS
Nassau

(Basden Elev. Co., Ltd.)

GUAM
Agana

MEXICO
Mexico 8 D.F., Mexico

(Elevadores de
Mexico S.A.)

PANAMA
Afiliada A. Hojalateria

(Instalaciones
Tecnicas, S.A.)

PUERTO RICO
Hato Rey

(Engineered Products)

REPUBLIC OF CHINA
Taipei Taiwan

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DOMINICA**
Santo Domingo

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SAUDI ARABIA
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