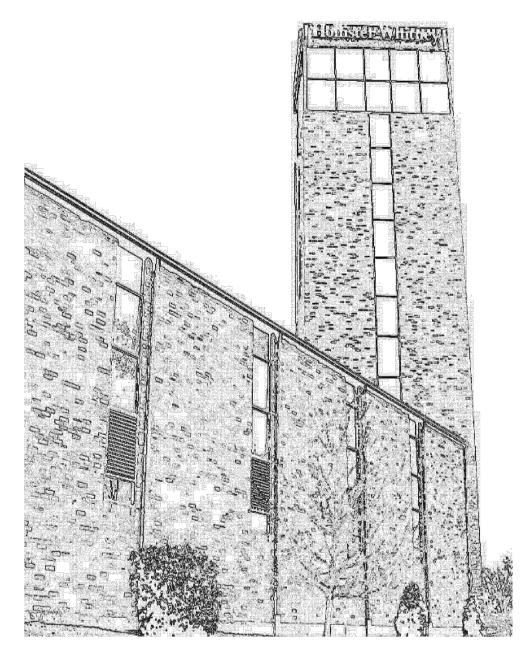


#1 HOLLISTER-WHITNEY PARKWAY

QUINCY, ILLINOIS 62305 Phone: 217-222-0466

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OVERHEAD GEARED TRACTION DESIGN GUIDE







#1 HOLLISTER-WHITNEY PARKWAY

QUINCY, ILLINOIS 62305 Phone: 217-222-0466

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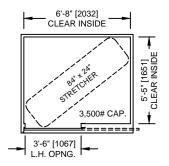
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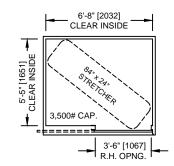


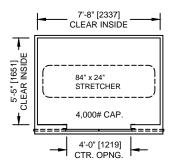
OVERHEAD GEARED TRACTION DESIGN GUIDE IBC Stretcher Access

STRETCHER REQUIREMENTS:

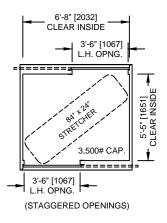
Section 3002.4 of the International Building Code (IBC) states that "where elevators in buildings four or more stories above, or four or more stories below grade plane, at least one elevator shall be provided for Fire Department emergency access to all floors". According to the IBC Code, the elevator should accommodate an open stretcher in the horizontal position 24 inches x 84 inches with not less than 5-inch radius corners. The following configurations and minimum dimensions comply with these IBC requirements:

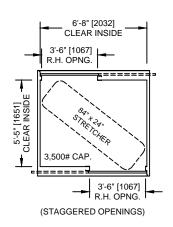


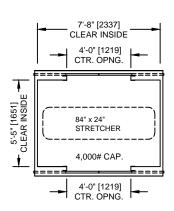




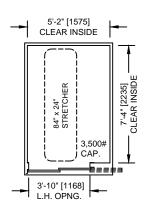
PASSENGER ELEVATORS WITH FRONT OPENING DOOR

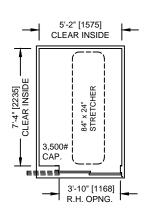


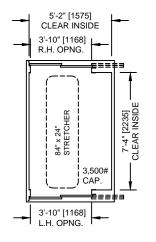


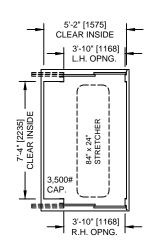


PASSENGER ELEVATORS WITH FRONT & REAR OPENING DOORS









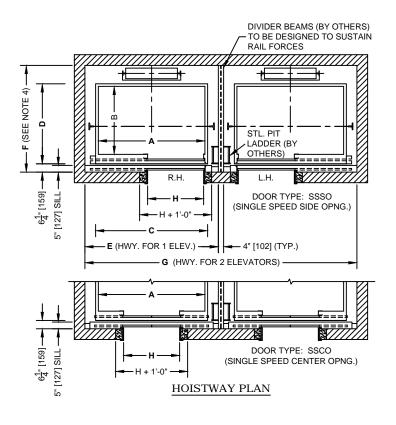
HOSPITAL / SERVICE ELEVATORS WITH FRONT OPENING DOORS

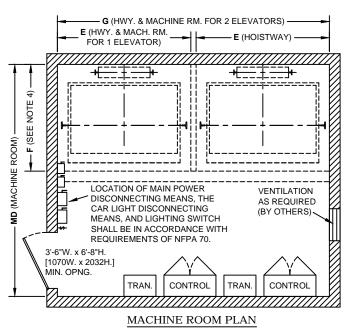
HOSPITAL / SERVICE ELEVATORS WITH FRONT & REAR OPENING DOORS





OVERHEAD GEARED TRACTION DESIGN GUIDE Passenger, Front Opening, CWT at Rear





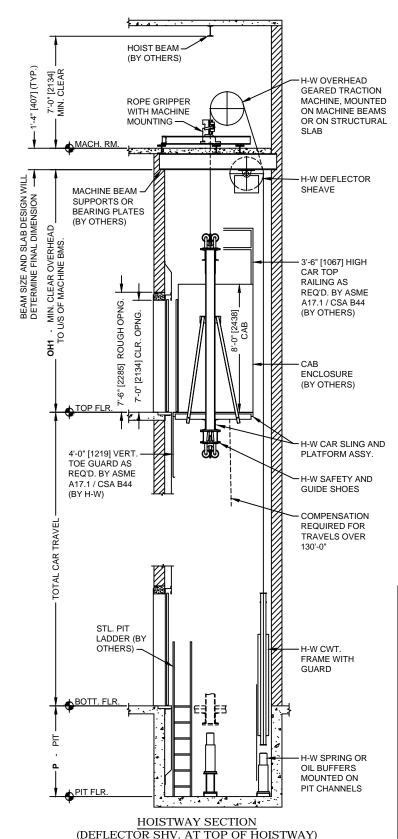
- 1. Dimensions shown are based on standard sizes and capacities for typical building installations and should only be used for preliminary planning. Contact H-W for additional information before proceeding with construction or for assistance with existing or special conditions.
- Dimensional data complies with the ASME A17.1 / CSA B44 Safety Code for Elevators and Escalators. State or local codes must be used if they differ from national code.
- Interior cab dimensions may vary depending on the interior finishes. The platform and hoistway sizes should be increased accordingly for extra thick cab finishes.
- 4. Counterweight safeties are required if there is "occupied space" below the pit. Add 8" [203] to the hoistway and machine room depths listed.

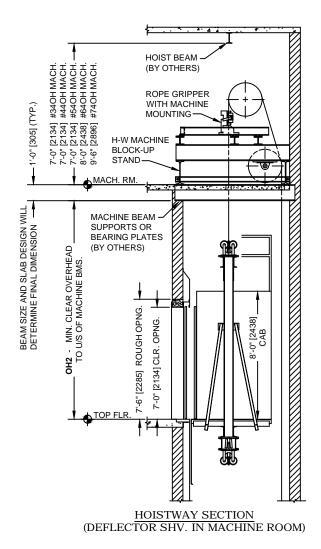
	HOISTWAY AND MACHINE ROOM DIMENSIONS													
CADACITY	INSIDE AREA	H CLEAR	OPENING	MINIMUM CLEAR CAB INSIDE		PLATFORM SIZE		HOISTWAY SIZE (NON-SEISMIC)			HOISTWAY SIZE (SEISMIC ZONE 2 OR GREATER)			MACH. ROOM
CAPACITY lb [kg]	(MAX. SF ALLOWED PER CODE)	OPENING WIDTH ft [mm]	TYPE (1)	A WIDTH ft [mm]	B DEPTH ft [mm]	C WIDTH ft [mm]	D DEPTH ft [mm]	E CLR. WIDTH ft [mm]	F CLR. DEPTH ft [mm]	G (DUPLEX) WALL TO WALL ft [mm]	E CLR. WIDTH ft [mm]	F CLR. DEPTH ft [mm]	G (DUPLEX) WALL TO WALL ft [mm]	MD DEPTH ft [mm]
2,000	24.2	3'-0"	SSSO (a)	5'-8"	4'-3"	6'-0"	5'-0"	7'-4"	6'-8"	15'-0"	7'-8"	6'-8"	15'-8"	14'-6"
[900]	[2.25]	[914]		[1727]	[1295]	[1829]	[1524]	[2235]	[2032]	[4572]	[2337]	[2032]	[4775]	[4420]
2,500	29.1	3'-6"	SSSO (b)	6'-8"	4'-3"	7'-0"	5'-0"	8'-4"	6'-8"	17'-0"	8'-8"	6'-8"	17'-8"	14'-6"
[1160]	[2.70]	[1067]	SSCO (a)	[2032]	[1295]	[2134]	[1524]	[2540]	[2032]	[5182]	[2642]	[2032]	[5385]	[4420]
3,000	33.7	3'-6"	SSSO (b)	6'-8"	4'-9"	7'-0"	5'-6"	8'-4"	7'-2"	17'-0"	8'-8"	7'-2"	17'-8"	15'-0"
[1380]	[3.13]	[1067]	SSCO (a)	[2032]	[1448]	[2134]	[1676]	[2540]	[2184]	[5182]	[2642]	[2184]	[5385]	[4572]
3,500	38.0	3'-6"	SSSO (c)	6'-8"	5'-5"	7'-0"	6'-2"	8'-4"	7'-10"	17'-0"	8'-8"	7'-10"	17'-8"	15'-8"
[1600]	[3.53]	[1067]	SSCO (b)	[2032]	[1651]	[2134]	[1880]	[2540]	[2388]	[5182]	[2642]	[2388]	[5385]	[4775]
4,000	42.2	3'-6"	SSSO (c)	7'-8"	5'-5"	8'-0"	6'-2"	9'-4"	7'-10"	19'-0"	9'-8"	7'-10"	19'-8"	15'-8"
[1815]	[3.92]	[1067]		[2337]	[1651]	[2438]	[1880]	[2845]	[2388]	[5791]	[2946]	[2388]	[5994]	[4775]
4,000	42.2	4'-0"	SSCO (c)	7'-8"	5'-5"	8'-0"	6'-2"	9'-4"	7'-10"	19'-0"	9'-8"	7'-10"	19'-8"	15'-8"
[1815]	[3.92]	[1219]		[2337]	[1651]	[2438]	[1880]	[2845]	[2388]	[5791]	[2946]	[2388]	[5994]	[4775]

- a. These car dimensions and entrance types provide wheelchair accessibility.
- b. These car dimensions and entrance types provide wheelchair accessibility and accommodate an ambulance type stretcher of (76"x24") in the horizontal position.
- c. These car dimensions and entrance types provide wheelchair accessibility and accommodate an ambulance type stretcher of (84*x24*) in the horizontal position as required by the IBC.



OVERHEAD GEARED TRACTION DESIGN GUIDE Passenger, Front Opening, CWT at Rear



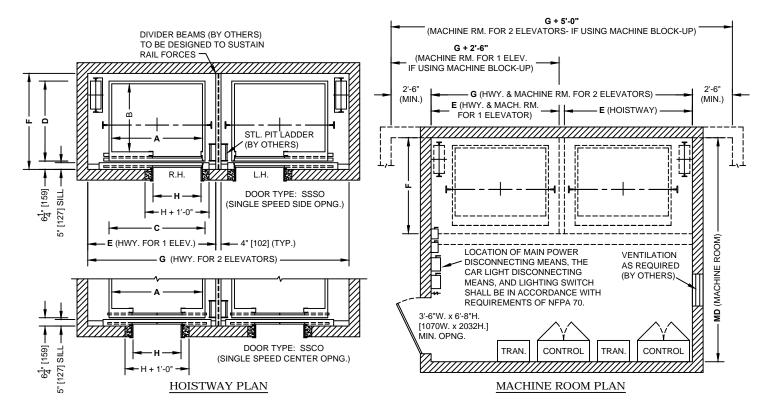


PI	PIT AND OVERHEAD DIMENSIONS										
RATED SPEED fpm [m/s]	PIT DEPTH	MIN. OVERHEAD CLEAR TO U/S BMS. (DEFLECTOR SHV. AT TOP OF HOISTWAY)	MIN. OVERHEAD CLEAR TO U/S BMS. (DEFLECTOR SHV. IN MACHINE ROOM)								
	P	OH1	OH2								
100 - 200 fpm [.50 - 1.00 m/s] 5'-6" [1676] 14'-7" [4445] 13'-5" [4089]											
250 - 350 fpm [1.25 - 1.75m/s]	5'-8" [1727]	15'-2" [4623]	14'-0" [4267]								
400 fpm [2.00 m/s]	6'-0" [1829]	15'-6" [4725]	14'-4" [4369]								
450 fpm [2.25 m/s]	6'-8" [2032]	16'-1" [4902]	14'-11" [4547]								
500 fpm [2.50 m/s]	6'-8" [2032]	16'-3" [4953]	15'-1" [4597]								





OVERHEAD GEARED TRACTION DESIGN GUIDE Passenger, Front Opening, CWT at Side



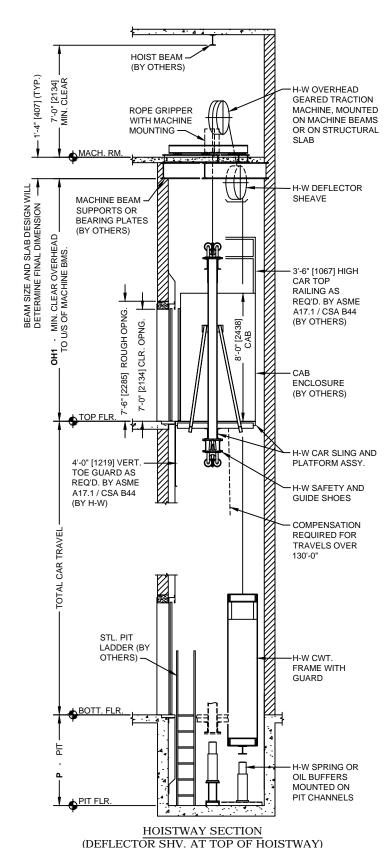
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- Dimensional data complies with the ASME A17.1 / CSA B44 Safety Code for Elevators and Escalators. State or local codes must be used if they differ from national code.
- Interior cab dimensions may vary depending on the interior finishes. The platform and hoistway sizes should be increased accordingly for extra thick cab finishes.
- 4. Note: This arrangement does not have adequate space to accommodate counterweight safeties. Therefore, "occupied space" below the pit is not permitted with this arrangement.

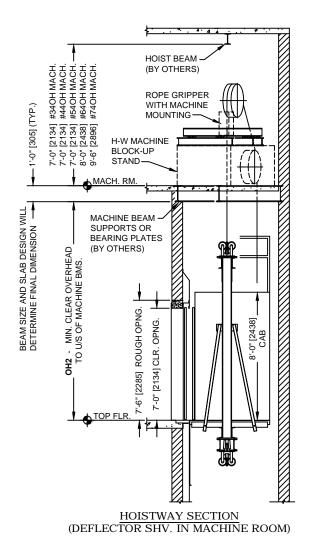
	HOISTWAY AND MACHINE ROOM DIMENSIONS													
CADA CYTTA	INSIDE AREA	H CLEAR	OPENING	MINIMUM CLEAR CAB INSIDE		PLATFORM SIZE			OISTWAY SIZ NON-SEISMIO		HOISTWAY SIZE (SEISMIC ZONE 2 OR GREATER)			MACH. ROOM
CAPACITY lb [kg]	(MAX. SF ALLOWED PER CODE)	OPENING WIDTH ft [mm]	TYPE (1)	A WIDTH ft [mm]	B DEPTH ft [mm]	C WIDTH ft [mm]	D DEPTH ft [mm]	E CLR. WIDTH ft [mm]	F CLR. DEPTH ft [mm]	G (DUPLEX) WALL TO WALL ft [mm]	E CLR. WIDTH ft [mm]	F CLR. DEPTH ft [mm]	G (DUPLEX) WALL TO WALL ft [mm]	MD DEPTH ft [mm]
2,000	24.2	3'-0"	SSSO (a)	5'-8"	4'-3"	6'-0"	5'-0"	8'-0"	6'-0"	16'-4"	8'-2"	6'-0"	16'-8"	14'-0"
[900]	[2.25]	[914]		[1727]	[1295]	[1829]	[1524]	[2439]	[1829]	[4979]	[2489]	[1829]	[5080]	[4267]
2,500	29.1	3'-6"	SSSO (b)	6'-8"	4'-3"	7'-0"	5'-0"	9'-0"	6'-0"	18'-4"	9'-2"	6'-0"	18'-8"	14'-0"
[1160]	[2.70]	[1067]	SSCO (a)	[2032]	[1295]	[2134]	[1524]	[2743]	[1829]	[5588]	[2794]	[1829]	[5690]	[4267]
3,000	33.7	3'-6"	SSSO (b)	6'-8"	4'-9"	7'-0"	5'-6"	9'-0"	6'-6"	18'-4"	9'-2"	6'-6"	18'-8"	14'-6"
[1380]	[3.13]	[1067]	SSCO (a)	[2032]	[1448]	[2134]	[1676]	[2743]	[1981]	[5588]	[2794]	[1981]	[5690]	[4420]
3,500	38.0	3'-6"	SSSO (c)	6'-8"	5'-5"	7'-0"	6'-2"	9'-2"	7'-3"	18'-8"	9'-4"	7'-3"	19'-0"	15'-0"
[1600]	[3.53]	[1067]	SSCO (b)	[2032]	[1651]	[2134]	[1880]	[2794]	[2210]	[5690]	[2845]	[2210]	[5791]	[4572]
4,000	42.2	3'-6"	SSSO (c)	7'-8"	5'-5"	8'-0"	6'-2"	10'-4"	7'-3"	21'-0"	10'-6"	7'-3"	21'-4"	15'-0"
[1815]	[3.92]	[1067]		[2337]	[1651]	[2438]	[1880]	[3150]	[2210]	[6401]	[3200]	[2210]	[6502]	[4572]
4,000	42.2	4'-0"	SSCO (c)	7'-8"	5'-5"	8'-0"	6'-2"	10'-4"	7'-3"	21'-0"	10'-6"	7'-3"	21'-4"	15'-0"
[1815]	[3.92]	[1219]		[2337]	[1651]	[2438]	[1880]	[3150]	[2210]	[6401]	[3200]	[2210]	[6502]	[4572]

- a. These car dimensions and entrance types provide wheelchair accessibility.
- b. These car dimensions and entrance types provide wheelchair accessibility and accommodate an ambulance type stretcher of (76"x24") in the horizontal position.
- c. These car dimensions and entrance types provide wheelchair accessibility and accommodate an ambulance type stretcher of (84*x24") in the horizontal position as required by the IBC.



OVERHEAD GEARED TRACTION DESIGN GUIDE Passenger, Front Opening, CWT at Side



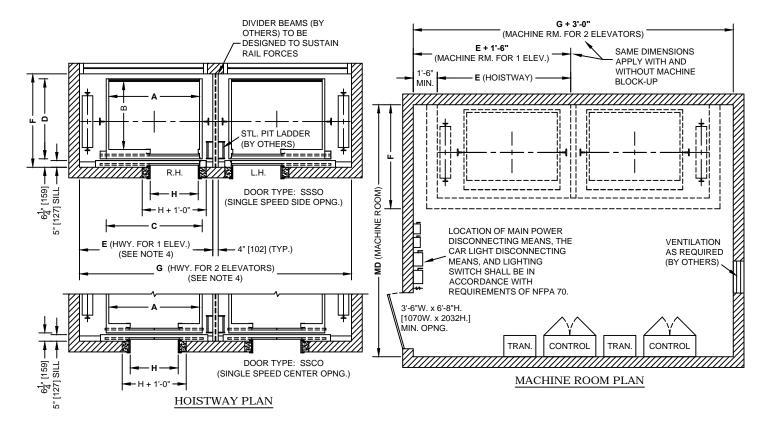


PIT AND OVERHEAD DIMENSIONS										
RATED SPEED fpm [m/s]	PIT DEPTH	MIN. OVERHEAD CLEAR TO U/S BMS. (DEFLECTOR SHV. AT TOP OF HOISTWAY)	MIN. OVERHEAD CLEAR TO U/S BMS. (DEFLECTOR SHV. IN MACHINE ROOM)							
	P	OH1	OH2							
100 - 200 fpm [.50 - 1.00 m/s]	5'-6" [1676]	14'-7" [4445]	13'-5" [4089]							
250 - 350 fpm [1.25 - 1.75m/s]	5'-8" [1727]	15'-2" [4623]	14'-0" [4267]							
400 fpm [2.00 m/s]	6'-0" [1829]	15'-6" [4725]	14'-4" [4369]							
450 fpm [2.25 m/s]	6'-8" [2032]	16'-1" [4902]	14'-11" [4547]							
500 fpm [2.50 m/s]	6'-8" [2032]	16'-3" [4953]	15'-1" [4597]							





OVERHEAD GEARED TRACTION DESIGN GUIDE Passenger, Front Opening, CWT at Side, Glass-Back Cab



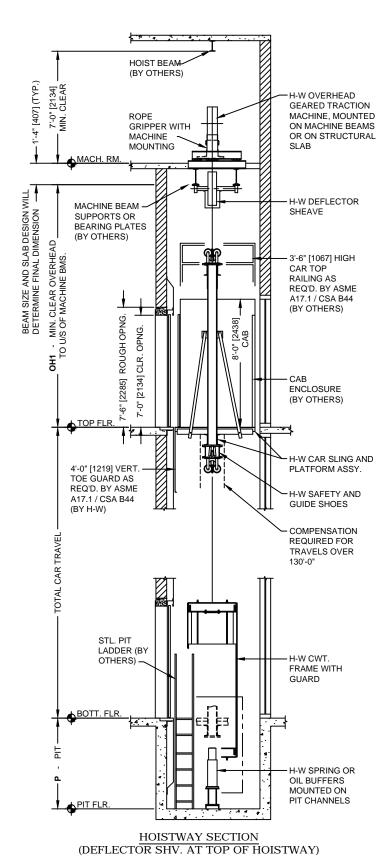
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- Dimensional data complies with the ASME A17.1 / CSA B44 Safety Code for Elevators and Escalators. State or local codes must be used if they differ from national code.
- 3. Interior cab dimensions may vary depending on the interior finishes. The platform and hoistway sizes should be increased accordingly for extra thick cab finishes.
- 4. Counterweight safeties are required if there is "occupied space" below the pit. Add 10" [254] to the hoistway and machine room widths listed for each elevator.

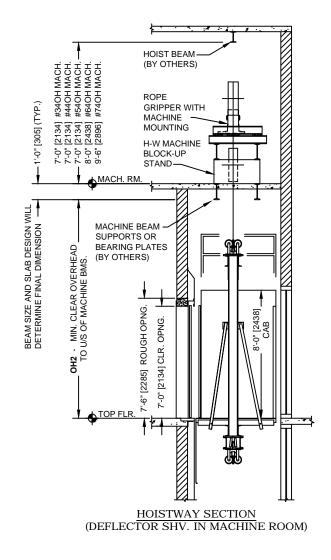
	HOISTWAY AND MACHINE ROOM DIMENSIONS													
CADACITY	INSIDE AREA	H CLEAR	OPENING	MINIMUM CLEAR CAB INSIDE		PLATFORM SIZE			OISTWAY SIZ NON-SEISMIO		HOISTWAY SIZE (SEISMIC ZONE 2 OR GREATER)			MACH. ROOM
CAPACITY lb [kg]	(MAX. SF ALLOWED PER CODE)	OPENING WIDTH ft [mm]	TYPE (1)	A WIDTH ft [mm]	B DEPTH ft [mm]	C WIDTH ft [mm]	D DEPTH ft [mm]	E CLR. WIDTH ft [mm]	F CLR. DEPTH ft [mm]	G (DUPLEX) WALL TO WALL ft [mm]	E CLR. WIDTH ft [mm]	F CLR. DEPTH ft [mm]	G (DUPLEX) WALL TO WALL ft [mm]	MD DEPTH ft [mm]
2,000	24.2	3'-0"	SSSO (a)	5'-8"	4'-3"	6'-0"	5'-0"	8'-4"	5'-10"	17'-0"	8'-6"	5'-10"	17'-4"	14'-0"
[900]	[2.25]	[914]		[1727]	[1295]	[1829]	[1524]	[2540]	[1778]	[5182]	[2591]	[1778]	[5284]	[4268]
2,500	29.1	3'-6"	SSSO (b)	6'-8"	4'-3"	7'-0"	5'-0"	9'-4"	5'-10"	19'-0"	9'-6"	5'-10"	19'-4"	14'-0"
[1160]	[2.70]	[1067]	SSCO (a)	[2032]	[1295]	[2134]	[1524]	[2845]	[1778]	[5791]	[2896]	[1778]	[5893]	[4268]
3,000	33.7	3'-6"	SSSO (b)	6'-8"	4'-9"	7'-0"	5'-6"	9'-4"	6'-4"	19'-0"	9'-6"	6'-4"	19'-4"	14'-6"
[1380]	[3.13]	[1067]	SSCO (a)	[2032]	[1448]	[2134]	[1676]	[2845]	[1930]	[5791]	[2896]	[1930]	[5893]	[4420]
3,500	38.0	3'-6"	SSSO (c)	6'-8"	5'-5"	7'-0"	6'-2"	9'-4"	7'-0"	19'-0"	9'-6"	7'-0"	19'-4"	15'-2"
[1600]	[3.53]	[1067]	SSCO (b)	[2032]	[1651]	[2134]	[1880]	[2845]	[2134]	[5791]	[2896]	[2134]	[5893]	[4623]
4,000	42.2	3'-6"	SSSO (c)	7'-8"	5'-5"	8'-0"	6'-2"	10'-4"	7'-0"	21'-0"	10'-6"	7'-0"	21'-4"	15'-2"
[1815]	[3.92]	[1067]		[2337]	[1651]	[2438]	[1880]	[3150]	[2134]	[6401]	[3201]	[2134]	[6503]	[4623]
4,000	42.2	4'-0"	SSCO (c)	7'-8"	5'-5"	8'-0"	6'-2"	10'-4"	7'-0"	21'-0"	10'-6"	7'-0"	21'-4"	15'-2"
[1815]	[3.92]	[1219]		[2337]	[1651]	[2438]	[1880]	[3150]	[2134]	[6401]	[3201]	[2134]	[6503]	[4623]

- a. These car dimensions and entrance types provide wheelchair accessibility.
- b. These car dimensions and entrance types provide wheelchair accessibility and accommodate an ambulance type stretcher of (76"x24") in the horizontal position.
- c. These car dimensions and entrance types provide wheelchair accessibility and accommodate an ambulance type stretcher of (84*x24*) in the horizontal position as required by the IBC.



OVERHEAD GEARED TRACTION DESIGN GUIDE Passenger, Front Opening, CWT at Side, Glass-Back Cab



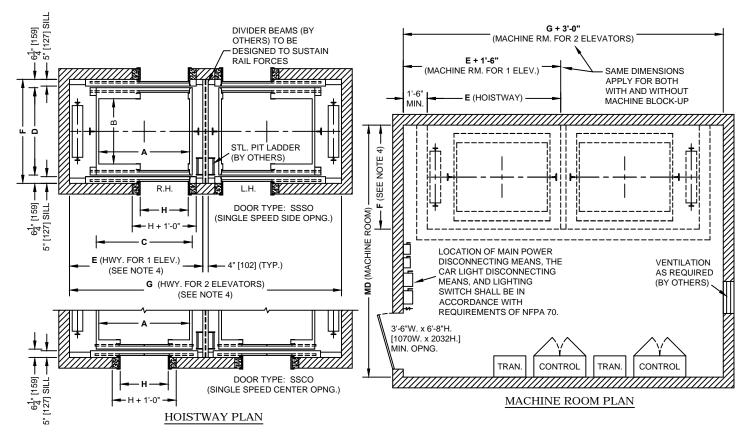


PI	T AND OVI	ERHEAD DIMENSI	ONS					
RATED SPEED fpm [m/s]	PIT DEPTH	MIN. OVERHEAD CLEAR TO U/S BMS. (DEFLECTOR SHV. AT TOP OF HOISTWAY)	MIN. OVERHEAD CLEAR TO U/S BMS. (DEFLECTOR SHV. IN MACHINE ROOM)					
	P	OH1	OH2					
100 - 200 fpm [.50 - 1.00 m/s] 5'-6" [1676] 14'-11" [4547] 13'-5" [4089]								
250 - 350 fpm [1.25 - 1.75m/s]	5'-8" [1727]	15'-6" [4724]	14'-0" [4267]					
400 fpm [2.00 m/s]	6'-0" [1829]	15'-10" [4826]	14'-4" [4369]					
450 fpm [2.25 m/s]	6'-8" [2032]	16'-5" [5004]	14'-11" [4547]					
500 fpm [2.50 m/s]	6'-8" [2032]	16'-7" [5055]	15'-1" [4597]					
	(011) 11	01 011 70 400 1 1						





OVERHEAD GEARED TRACTION DESIGN GUIDE Passenger, Front & Rear Opening, CWT at Side



- 1. Dimensions shown are based on standard sizes and capacities for typical building installations and should only be used for preliminary planning. Contact H-W for additional information before proceeding with construction or for assistance with existing or special conditions.
- Dimensional data complies with the ASME A17.1 / CSA B44 Safety Code for Elevators and Escalators. State or local codes must be used if they differ from national code.
- Interior cab dimensions may vary depending on the interior finishes. The platform and hoistway sizes should be increased accordingly for extra thick cab finishes.
- 4. Counterweight safeties are required if there is "occupied space" below the pit. Add 10" [254] to the hoistway and machine room widths listed for each elevator.

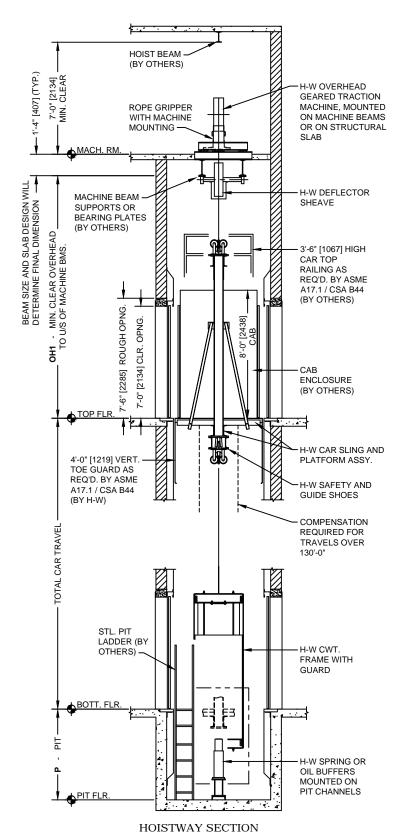
	HOISTWAY AND MACHINE ROOM DIMENSIONS													
CA DA CITY	INSIDE AREA	H CLEAR	OPENING TYPE (1)	MINIMU! CAB I		PLATFORM SIZE			OISTWAY SIZ NON-SEISMIO		HOISTWAY SIZE (SEISMIC ZONE 2 OR GREATER)			MACH. ROOM
CAPACITY lb [kg]	(MAX. SF ALLOWED PER CODE)	OPENING WIDTH ft [mm]		A WIDTH ft [mm]	B DEPTH ft [mm]	C WIDTH ft [mm]	D DEPTH ft [mm]	E CLR. WIDTH ft [mm]	F CLR. DEPTH ft [mm]	G (DUPLEX) WALL TO WALL ft [mm]	E CLR. WIDTH ft [mm]	F CLR. DEPTH ft [mm]	G (DUPLEX) WALL TO WALL ft [mm]	MD DEPTH ft [mm]
2,000	24.2	3'-0"	SSSO (a)	5'-8"	4'-3"	6'-0"	5'-7 1/2"	8'-4"	6'-8"	17'-0"	8'-6"	6'-8"	17'-4"	14'-0"
[900]	[2.25]	[914]		[1727]	[1295]	[1829]	[1715]	[2540]	[2032]	[5182]	[2591]	[2032]	[5284]	[4268]
2,500	29.1	3'-6"	SSSO (b)	6'-8"	4'-3"	7'-0"	5'-7 1/2"	9'-4"	6'-8"	19'-0"	9'-6"	6'-8"	19'-4"	14'-0"
[1160]	[2.70]	[1067]	SSCO (a)	[2032]	[1295]	[2134]	[1715]	[2845]	[2032]	[5791]	[2896]	[2032]	[5893]	[4268]
3,000	33.7	3'-6"	SSSO (b)	6'-8"	4'-9"	7'-0"	6'-1 1/2"	9'-4"	7'-2"	19'-0"	9'-6"	7'-2"	19'-4"	14'-6"
[1380]	[3.13]	[1067]	SSCO (a)	[2032]	[1448]	[2134]	[1867]	[2845]	[2185]	[5791]	[2896]	[2185]	[5893]	[4420]
3,500	38.0	3'-6"	SSSO (c)	6'-8"	5'-5"	7'-0"	6'-9 1/2"	9'-4"	7'-10"	19'-0"	9'-6"	7'-10"	19'-4"	15'-2"
[1600]	[3.53]	[1067]	SSCO (b)	[2032]	[1651]	[2134]	[2070]	[2845]	[2388]	[5791]	[2896]	[2388]	[5893]	[4623]
4,000	42.2	3'-6"	SSSO (c)	7'-8"	5'-5"	8'-0"	6'-9 1/2"	10'-4"	7'-10"	21'-0"	10'-6"	7'-10"	21'-4"	15'-2"
[1815]	[3.92]	[1067]		[2337]	[1651]	[2438]	[2070]	[3150]	[2388]	[6401]	[3201]	[2388]	[6503]	[4623]
4,000	42.2	4'-0"	SSCO (c)	7'-8"	5'-5"	8'-0"	6'-9 1/2"	10'-4"	7'-10"	21'-0"	10'-6"	7'-10"	21'-4"	15'-2"
[1815]	[3.92]	[1219]		[2337]	[1651]	[2438]	[2070]	[3150]	[2388]	[6401]	[3201]	[2388]	[6503]	[4623]

- a. These car dimensions and entrance types provide wheelchair accessibility.
- b. These car dimensions and entrance types provide wheelchair accessibility and accommodate an ambulance type stretcher of (76"x24") in the horizontal position.
- c. These car dimensions and entrance types provide wheelchair accessibility and accommodate an ambulance type stretcher of (84*x24*) in the horizontal position as required by the IBC.

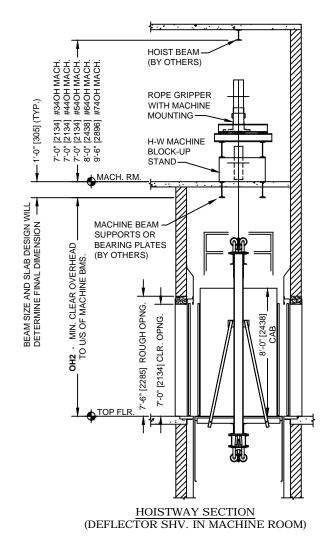




OVERHEAD GEARED TRACTION DESIGN GUIDE Passenger, Front & Rear Opening, CWT at Side



(DEFLECTOR SHV. AT TOP OF HOISTWAY)

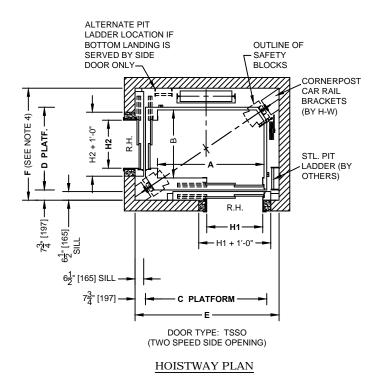


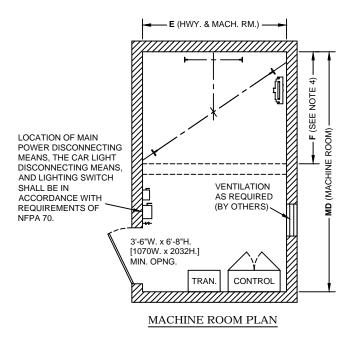
PI	T AND OVI	ERHEAD DIMENSI	ONS					
RATED SPEED fpm [m/s]	PIT DEPTH	MIN. OVERHEAD CLEAR TO U/S BMS. (DEFLECTOR SHV. AT TOP OF HOISTWAY)	MIN. OVERHEAD CLEAR TO U/S BMS. (DEFLECTOR SHV. IN MACHINE ROOM)					
	P	OH1	OH2					
100 - 200 fpm [.50 - 1.00 m/s] 5'-6" [1676] 14'-11" [4547] 13'-5" [4089]								
250 - 350 fpm [1.25 - 1.75m/s]	5'-8" [1727]	15'-6" [4724]	14'-0" [4267]					
400 fpm [2.00 m/s]	6'-0" [1829]	15'-10" [4826]	14'-4" [4369]					
450 fpm [2.25 m/s]	6'-8" [2032]	16'-5" [5004]	14'-11" [4547]					
500 fpm [2.50 m/s]	6'-8" [2032]	16'-7" [5055]	15'-1" [4597]					





OVERHEAD GEARED TRACTION DESIGN GUIDE Passenger, Front & Side Opening (Cornerpost), CWT at Rear





- 1. Dimensions shown are based on standard sizes and capacities for typical building installations and should only be used for preliminary planning. Contact H-W for additional information before proceeding with construction or for assistance with existing or special conditions.
- Dimensional data complies with the ASME A17.1 / CSA B44 Safety Code for Elevators and Escalators. State or local codes must be used if they differ from national code.
- Interior cab dimensions may vary depending on the interior finishes. The platform and hoistway sizes should be increased accordingly for extra thick cab finishes.
- 4. Counterweight safeties are required if there is "occupied space" below the pit. Add 8" [203] to the hoistway and machine room depths listed.
- 5. Larger car sizes may be possible up to a maximum of 5,000# capacity. Consult with H-W engineering department.

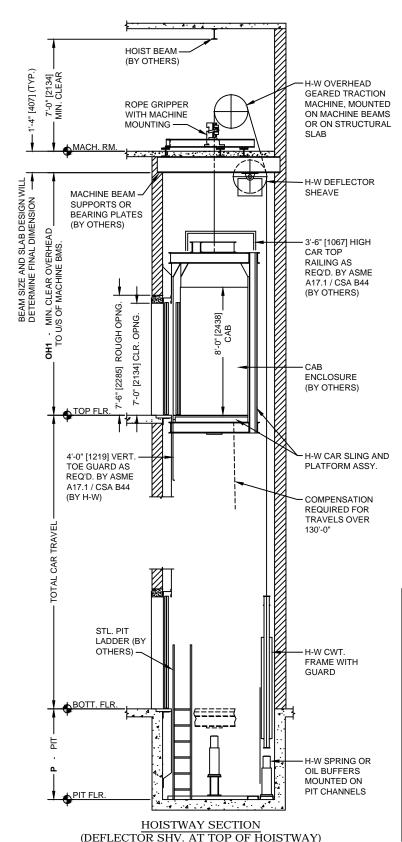
	HOISTWAY AND MACHINE ROOM DIMENSIONS											
CAPACITY	INSIDE AREA	H1 CLEAR	OPENING	H2 CLEAR	OPENING		MINIMUM CLEAR CAB INSIDE		PLATFORM SIZE		HOISTWAY SIZE (SEISMIC ZONE 0 - 4)	
lb [kg]	(MAX. SF ALLOWED PER CODE)	OPENING WIDTH ft [mm]	TYPE (1)	OPENING WIDTH ft [mm]	TYPE (1)	A WIDTH ft [mm]	B DEPTH ft [mm]	C WIDTH ft [mm]	D DEPTH ft [mm]	E CLR. WIDTH ft [mm]	F CLR. DEPTH ft [mm]	MD DEPTH ft [mm]
2,000 24.2 3'-0" TSSO (a) 3'-0" [914] TSSO (a) 5'-8" 4'-3" 6'-7" 5'-2" 8'-0" 7'-0" 15'-0" [1727] [1295] [2007] [1575] [2438] [2134] [4572]												
2,500 [1160]	29.1 [2.70]	3'-6" [1067]	TSSO (b)	3'-0" [914]	TSSO (b)	6'-8" [2032]	4'-3" [1295]	7'-7" [2311]	5'-2" [1575]	9'-0" [2743]	7'-0" [2134]	15'-0" [4572]
3,000 [1380]	33.7 [3.13]	3'-6" [1067]	TSSO (b)	3'-0" [914]	TSSO (b)	6'-8" [2032]	4'-9" [1448]	7'-7" [2311]	5'-8" [1727]	9'-0" [2743]	7'-6" [2286]	15'-6" [4724]
3,500 [1600]	38.0 [3.53]	3'-6" [1067]	TSSO (c)	3'-6" [1067]	TSSO (c)	6'-8" [2032]	5'-5" [1651]	7'-7" [2311]	6'-4" [1930]	9'-0" [2743]	8'-2" [2489]	16'-0" [4877]
4,000 [1815]	42.2 [3.92]	4'-0" [1219]	TSSO (c)	3'-6" [1067]	TSSO (c)	7'-8" [2337]	5'-5" [1651]	8'-7" [2616]	6'-4" [1930]	10'-0" [3048]	8'-2" [2489]	16'-0" [4877]

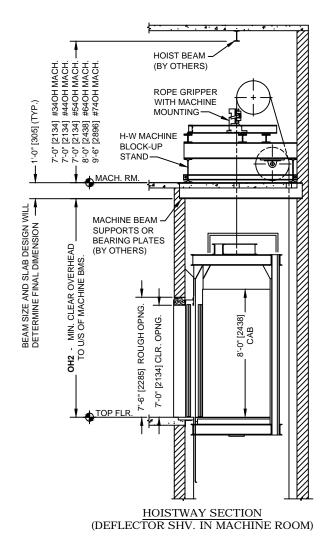
- a. These car dimensions and entrance types provide wheelchair accessibility
- b. These car dimensions and entrance types provide wheelchair accessibility and accommodate an ambulance type stretcher of (76"x24") in the horizontal position.
- These car dimensions and entrance types provide wheelchair accessibility and accommodate an ambulance type stretcher of (84"x24") in the horizontal position as required by the IBC.





OVERHEAD GEARED TRACTION DESIGN GUIDE Passenger, Front & Side Opening (Cornerpost), CWT at Rear



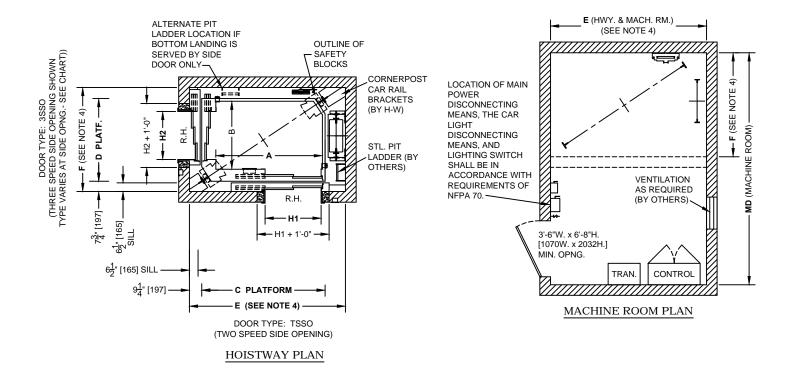


PI	T AND OVI	ERHEAD DIMENSI	ONS						
RATED SPEED fpm [m/s]	PIT DEPTH	MIN. OVERHEAD CLEAR TO U/S BMS. (DEFLECTOR SHV. AT TOP OF HOISTWAY)	MIN. OVERHEAD CLEAR TO U/S BMS. (DEFLECTOR SHV. IN MACHINE ROOM)						
	P	OH1	OH2						
100 - 200 fpm [.50 - 1.00 m/s]									
250 - 350 fpm [1.25 - 1.75m/s]	5'-8" [1727]	15'-4" [4674]	14'-10" [4521]						
400 fpm [2.00 m/s]	6'-0" [1829]	15'-8" [4775]	15'-2" [4623]						
450 fpm [2.25 m/s]	6'-9" [2057]	16'-3" [4953]	15'-9" [4801]						
500 fpm [2.50 m/s]	6'-9" [2057]	16'-5" [5004]	15'-11" [4851]						





OVERHEAD GEARED TRACTION DESIGN GUIDE Passenger, Front & Side Opening (Cornerpost), CWT at Side



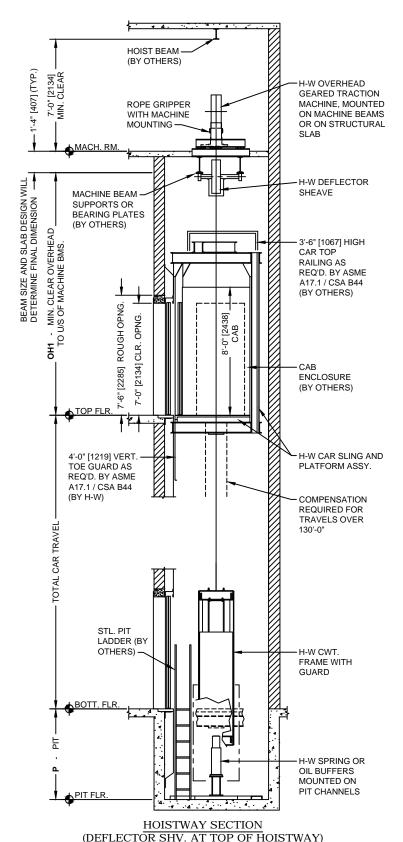
- 1. Dimensions shown are based on standard sizes and capacities for typical building installations and should only be used for preliminary planning. Contact H-W for additional information before proceeding with construction or for assistance with existing or special conditions.
- Dimensional data complies with the ASME A17.1 / CSA B44 Safety Code for Elevators and Escalators. State or local codes must be used if they differ from national code.
- Interior cab dimensions may vary depending on the interior finishes. The platform and hoistway sizes should be increased accordingly for extra thick cab finishes.
- 4. Counterweight safeties are required if there is "occupied space" below the pit. This arrangement may not provide enough space to accommodate a counterweight safety. Consult with H-W engineering department.
- 5. Larger car sizes may be possible up to a maximum of 5,000# capacity. Consult with H-W engineering department.

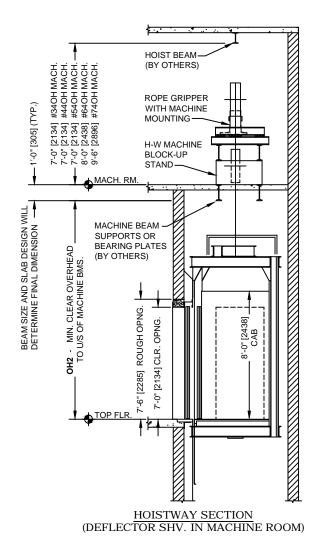
	HOISTWAY AND MACHINE ROOM DIMENSIONS											
CADACITY	INSIDE AREA	H1 CLEAR	OPENING	H2 CLEAR	OPENING	MINIMUM CLEAR CAB INSIDE		PLATFORM SIZE		HOISTWAY SIZE (SEISMIC ZONE 0 - 4)		MACH. ROOM
CAPACITY lb [kg]	(MAX. SF ALLOWED PER CODE)	OPENING WIDTH ft [mm]	TYPE (1)	OPENING WIDTH ft [mm]	TYPE (1)	A WIDTH ft [mm]	B DEPTH ft [mm]	C WIDTH ft [mm]	D DEPTH ft [mm]	E CLR. WIDTH ft [mm]	F CLR. DEPTH ft [mm]	MD DEPTH ft [mm]
2,000 [900]	24.2 [2.25]	3'-0" [914]	TSSO (a)	3'-0" [914]	3SSO (a)	5'-8" [1727]	4'-3" [1295]	6'-8 1/2" [2045]	5'-2" [1575]	8'-9" [2667]	6'-6" [1981]	14'-6" [4420]
2,500 [1160]	29.1 [2.70]	3'-6" [1067]	TSSO (b)	3'-0" [914]	3SSO (b)	6'-8" [2032]	4'-3" [1295]	7'-8 1/2" [2350]	5'-2" [1575]	9'-9" [2972]	6'-6" [1981]	14'-6" [4420]
3,000 [1380]	33.7 [3.13]	3'-6" [1067]	TSSO (b)	3'-0" [914]	TSSO (b)	6'-8" [2032]	4'-9" [1448]	7'-7" [2311]	5'-8" [1727]	9'-6" [2896]	7'-0" [2134]	15'-0" [4572]
3,500 [1600]	38.0 [3.53]	3'-6" [1067]	TSSO (c)	3'-6" [1067]	TSSO (c)	6'-8" [2032]	5'-5" [1651]	7'-7" [2311]	6'-4" [1930]	9'-6" [2896]	7'-9" [2362]	15'-9" [4801]
4,000 [1815]	42.2 [3.92]	4'-0" [1219]	TSSO (c)	3'-6" [1067]	TSSO (c)	7'-8" [2337]	5'-5" [1651]	8'-7" [2616]	6'-4" [1930]	10'-6" [3200]	7'-9" [2362]	15'-9" [4801]

- a. These car dimensions and entrance types provide wheelchair accessibility
- b. These car dimensions and entrance types provide wheelchair accessibility and accommodate an ambulance type stretcher of (76"x24") in the horizontal position.
- These car dimensions and entrance types provide wheelchair accessibility and accommodate an ambulance type stretcher of (84"x24") in the horizontal position as required by the IBC.



OVERHEAD GEARED TRACTION DESIGN GUIDE Passenger, Front & Side Opening (Cornerpost), CWT at Side



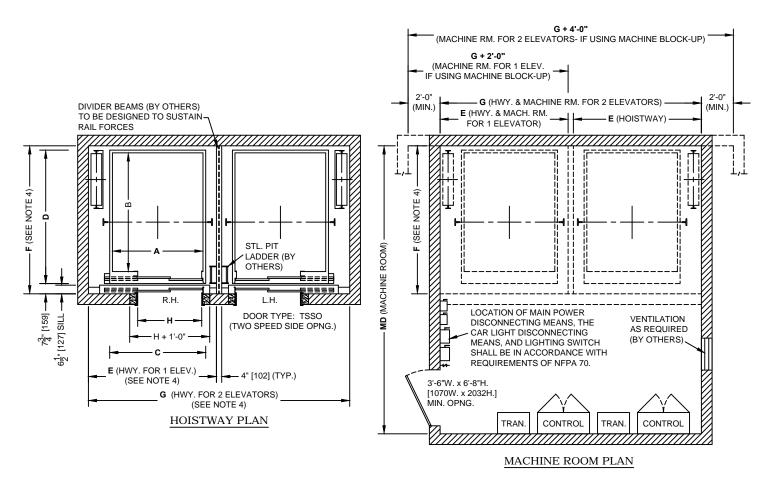


PIT AND OVERHEAD DIMENSIONS									
RATED SPEED fpm [m/s]	PIT DEPTH	MIN. OVERHEAD CLEAR TO U/S BMS. (DEFLECTOR SHV. AT TOP OF HOISTWAY)	MIN. OVERHEAD CLEAR TO U/S BMS. (DEFLECTOR SHV. IN MACHINE ROOM)						
	P	OH1	OH2						
100 - 200 fpm [.50 - 1.00 m/s]	5'-6" [1676]	14'-9" [4496]	14'-3" [4343]						
250 - 350 fpm [1.25 - 1.75m/s]	5'-8" [1727]	15'-4" [4674]	14'-10" [4521]						
400 fpm [2.00 m/s]	6'-0" [1829]	15'-8" [4775]	15'-2" [4623]						
450 fpm [2.25 m/s]	6'-9" [2057]	16'-3" [4953]	15'-9" [4801]						
500 fpm [2.50 m/s]	6'-9" [2057]	16'-5" [5004]	15'-11" [4851]						
Outstand discounting (OU) are based as as 01 011 (0420 and 1 as being to sixth a 71 011 (0424 and 1									





OVERHEAD GEARED TRACTION DESIGN GUIDE Hospital / Service, Front Opening, CWT at Side



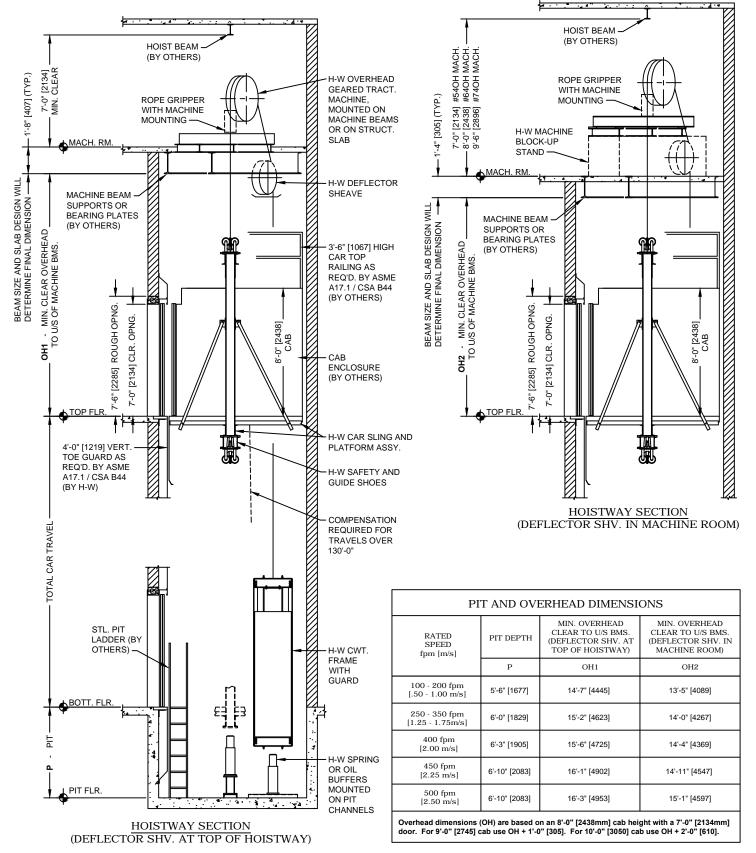
- 1. Dimensions shown are based on standard sizes and capacities for typical building installations and should only be used for preliminary planning. Contact H-W for additional information before proceeding with construction or for assistance with existing or special conditions.
- 2. Dimensional data complies with the ASME A17.1 / CSA B44 Safety Code for Elevators and Escalators. State or local codes must be used if they differ from national code.
- 3. Interior cab dimensions may vary depending on the interior finishes. The platform and hoistway sizes should be increased accordingly for extra thick cab finishes.
- 4. Counterweight safeties are required if there is "occupied space" below the pit. Add 8" [203] to the hoistway and machine room widths listed and 6" [152] to the hoistway and machine room depths listed for each elevator.

HOISTWAY AND MACHINE ROOM DIMENSIONS														
CAPACITY (M. AL	INSIDE AREA	H CLEAR OPENING WIDTH ft [mm]	OPENING TYPE (1)	MINIMUM CLEAR CAB INSIDE		PLATFORM SIZE		HOISTWAY SIZE (NON-SEISMIC)			HOISTWAY SIZE (SEISMIC ZONE 2 OR GREATER)			MACH. ROOM
	(MAX. SF ALLOWED PER CODE)			A WIDTH ft [mm]	B DEPTH ft [mm]	C WIDTH ft [mm]	D DEPTH ft [mm]	E CLR. WIDTH ft [mm]	F CLR. DEPTH ft [mm]	G (DUPLEX) WALL TO WALL ft [mm]	E CLR. WIDTH ft [mm]	F CLR. DEPTH ft [mm]	G (DUPLEX) WALL TO WALL ft [mm]	MD DEPTH ft [mm]
3,500	38.0	3'-10"	TSSO (a)	5'-2"	7'-4"	5'-6"	8'-4"	7'-8"	9'-3"	15'-8"	8'-0"	9'-3"	16'-4"	17'-0"
[1600]	[3.53]	[1169]		[1575]	[2235]	[1677]	[2540]	[2337]	[2820]	[4775]	[2438]	[2820]	[4978]	[5182]
4,000	42.2	4'-0"	TSSO (a)	5'-8"	7'-4"	6'-0"	8'-4"	8'-2"	9'-3"	16'-8"	8'-6"	9'-3"	17'-4"	17'-0"
[1815]	[3.92]	[1219]		[1727]	[2235]	[1829]	[2540]	[2489]	[2820]	[5080]	[2642]	[2820]	[5283]	[5182]
4,500	46.2	4'-0"	TSSO (a)	5'-8"	7'-10"	6'-0"	8'-10"	8'-4"	9'-9"	17'-0"	8'-6"	9'-9"	17'-4"	17'-6"
[2040]	[4.29]	[1219]		[1727]	[2388]	[1829]	[2693]	[2540]	[2972]	[5182]	[2642]	[2972]	[5283]	[5334]
5,000	50.0	4'-0"	TSSO (a)	5'-8"	8'-6"	6'-0"	9'-6"	8'-4"	10'-5"	17'-0"	8'-6"	10'-5"	17'-4"	18'-3"
[2270]	[4.65]	[1219]		[1727]	[2591]	[1829]	[2896]	[2540]	[3175]	[5182]	[2642]	[3175]	[5283]	[5563]

a. These car dimensions and entrance types provide wheelchair accessibility and accommodate an ambulance type stretcher of (84"x24") in the horizontal position as required by the IBC.



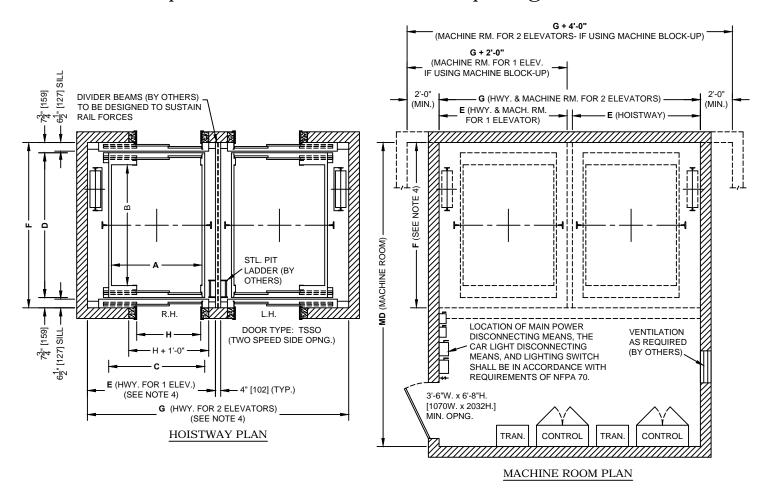
OVERHEAD GEARED TRACTION DESIGN GUIDE Hospital / Service, Front Opening, CWT at Side







OVERHEAD GEARED TRACTION DESIGN GUIDE Hospital / Service, Front & Rear Opening, CWT at Side



- 1. Dimensions shown are based on standard sizes and capacities for typical building installations and should only be used for preliminary planning. Contact H-W for additional information before proceeding with construction or for assistance with existing or special conditions.
- 2. Dimensional data complies with the ASME A17.1 / CSA B44 Safety Code for Elevators and Escalators. State or local codes must be used if they differ from national code.
- 3. Interior cab dimensions may vary depending on the interior finishes. The platform and hoistway sizes should be increased accordingly for extra thick cab finishes.
- 4. Counterweight safeties are required if there is "occupied space" below the pit. Add 8" [203] to the hoistway and machine room widths listed for each elevator.

HOISTWAY AND MACHINE ROOM DIMENSIONS														
	INSIDE AREA (MAX. SF ALLOWED PER CODE)	H CLEAR OPENING WIDTH ft [mm]	OPENING TYPE (1)	MINIMUM CLEAR CAB INSIDE		PLATFORM SIZE		HOISTWAY SIZE (NON-SEISMIC)			HOISTWAY SIZE (SEISMIC ZONE 2 OR GREATER)			MACH. ROOM
				A WIDTH ft [mm]	B DEPTH ft [mm]	C WIDTH ft [mm]	D DEPTH ft [mm]	E CLR. WIDTH ft [mm]	F CLR. DEPTH ft [mm]	G (DUPLEX) WALL TO WALL ft [mm]	E CLR. WIDTH ft [mm]	F CLR. DEPTH ft [mm]	G (DUPLEX) WALL TO WALL ft [mm]	MD DEPTH ft [mm]
3,500	38.0	3'-10"	TSSO (a)	5'-2"	7'-4"	5'-6"	9'-0 1/2"	7'-10"	10'-4"	16'-0"	8'-0"	10'-4"	16'-4"	18'-0"
[1600]	[3.53]	[1169]		[1575]	[2235]	[1677]	[2756]	[2388]	[3150]	[4877]	[2438]	[3150]	[4978]	[5486]
4,000	42.2	4'-0"	TSSO (a)	5'-8"	7'-4"	6'-0"	9'-0 1/2"	8'-4"	10'-4"	17'-0"	8'-6"	10'-4"	17'-4"	18'-0"
[1815]	[3.92]	[1219]		[1727]	[2235]	[1829]	[2756]	[2540]	[3150]	[5182]	[2642]	[3150]	[5283]	[5486]
4,500	46.2	4'-0"	TSSO (a)	5'-8"	7'-10"	6'-0"	9'-6 1/2"	8'-4"	10'-10"	17'-0"	8'-6"	10'-10"	17'-4"	18'-0"
[2040]	[4.29]	[1219]		[1727]	[2388]	[1829]	[2908]	[2540]	[3302]	[5182]	[2642]	[3302]	[5283]	[5486]
5,000	50.0	4'-0"	TSSO (a)	5'-8"	8'-6"	6'-0"	10'-2 1/2"	8'-4"	11'-6"	17'-0"	8'-6"	11'-6"	17'-4"	18'-8"
[2270]	[4.65]	[1219]		[1727]	[2591]	[1829]	[3112]	[2540]	[3505]	[5182]	[2642]	[3505]	[5283]	[5690]

a. These car dimensions and entrance types provide wheelchair accessibility and accommodate an ambulance type stretcher of (84"x24") in the horizontal position as required by the IBC.



OVERHEAD GEARED TRACTION DESIGN GUIDE Hospital / Service, Front & Rear Opening, CWT at Side

