



# SPECIFICATIONS

*These Items Must Be Considered By Purchaser*

The purchaser must provide the following in accordance with ANSI A17.1 code requirements or local code requirements, whichever are more stringent.

## HOISTWAY AND PIT

1. A clear hoistway of the dimensions shown, plumb to within 1".
2. Venting of hoistway as required by code.
3. A dry pit, reinforced to sustain vertical loads as shown.
4. A 30" square hole is to be left in the pit floor, if required for jack installation, and is to be grouted in by others after jack unit is installed.
5. A pit ladder for each elevator of non-combustible material, constructed and installed in accordance with code, and extending from pit floor to 42" above sill of lowest hoistway door.
6. Adequate supports for guide rail brackets, to support horizontal loads as shown. Support locations must not exceed spacing as required by code, and as shown. When maximum spacing is exceeded, rail reinforcement, or additional supports must be provided at purchaser's expense.
7. Guide rail support locations must be steel, brick, concrete, or filled concrete block. If inserts are furnished, these are to be installed by others, in locations shown, as walls are erected. If rail brackets are attached to steel beams, fire-proofing is to be applied AFTER rail brackets are installed.
8. Projections or recesses in the hoistway of 2" or more, on sides not used for loading or unloading, shall be beveled at an angle not less than 75° from the horizontal.
9. A hoist beam, hook, or eyebolt shall be furnished at the top of the hoistway, located on centerline of car and guides – designed for load capacity of # min.
10. Entrance walls accepting passenger type entrances are to be erected (or rough opening as shown filled in) after door frames and sills are installed.
11. A suitable sill support and recess as shown, full width of the hoistway, grouted by others after door sills are installed.
12. Door frames and sills for freight type elevator doors, set square with hoistway and plumb above each other. Door frames to be of sufficient strength to carry loads imposed, and side jambs shall extend to beam above with 2" min. return in hoistway on each side (see door drawings).
13. Required sleeves in hoistway wall, or any trenching and filling, for oil line and wiring duct for each elevator, as shown.
14. Any cutting and patching of building construction required to install signal fixtures, or other elevator apparatus, and any repairs, grouting, patching, or painting made necessary by same.
15. Barricades as may be required during construction.

## MACHINE ROOM

16. A machine room properly lighted and ventilated per code requirements with temperature maintained between 65°-95°. Door of size to permit access for hydraulic machine, to be self closing and locking, but openable from inside without key.

## ELECTRICAL

- All electrical in accordance with ANSI and NEC.
17. A fused disconnect switch for each elevator, of ample capacity, with wiring to the elevator motor starter control. Disconnecting means shall disconnect the normal power supply as well as emergency supply, when provided.
  18. Light and switch in elevator machine room, with switch located adjacent to access door. Convenience outlet in machine room.
  19. Light, switch and convenience outlet in elevator pit, light switch accessible from lower landing opening. Install light to clear elevator car.
  20. Suitable 110V service in the hoistway, midway of travel (see layout) or connected to terminals in elevator controller for car light service (elevator contractors option).
  21. Heat, and product of combustion sensors located in each elevator lobby with necessary wiring to elevator control panel, when fire service is specified.
  22. Telephone instrument in elevator car, and wiring from building source to elevator control panel.
  23. Furnishing of any special intercom, paging, or television systems, including wiring from building source to elevator control panel.
  24. Necessary power for installing, erecting, and testing, without charge.
  25. Any features or equipment required, but not specifically specified as being furnished by elevator contractor.
  26. A safe and dry space to store elevator equipment and tools before and during construction.



**SUBMERSIBLE**

LOW FLOW SUBMERSIBLE ELEVATOR MOTOR RATINGS				
SINGLE PHASE	HP	VOLTS	FLA	LRA <sup>1</sup>
	3	208-230	20.0-16.4	74
	5	208-230	23.4-21.0	104
	7.5	208-230	32.6-30.0	174
	10	208-230	43.0-40.0	237
THREE PHASE	5	208	14	48.25
	5	230/460	13.0/6.5	42.00
	7.5	208	21.5	66.25
	7.5	230/460	20.0/10.0	57.00
	10	208	26	86.50
	10	230/460	24.0/12.0	78.00
STANDARD SUBMERSIBLE ELEVATOR MOTOR RATINGS				
THREE PHASE	HP	VOLTS	FLA	LRA <sup>1</sup>
	15	200	46	241
	15	230	40	210
	15	460	20	105
	15	575	16	84
	20	200	60	299
	20	230	52	260
	20	460	26	130
	20	575	21	104
	25	200	75	380
	25	230	66	330
	25	460	33	165
	25	575	27	132
	30	200	85	494
	30	230	74	430
	30	460	37	215
	30	575	29.6	172
	40	200	112	644
	40	230	98	560
	40	460	49	280
	40	575	40	224
	50	200	133	748
	50	230	116	650
	50	460	58	325
	50	575	46.5	260
	60	230	140	720
	60	460	70	360
	60	575	56	288
75	230	178	840	
75	460	89	420	
75	575	71.5	336	

**BELT DRIVE**

BELT DRIVE MOTOR RATINGS			
HP	VOLTS	FLA	LRA
5	200	16	104
5	230/460	14.4/7.2	45
7.5	200	23	122
7.5	230/460	20/10	53
10	200	30	194
10	230/460	26/13	84
15	200	44	279
15	230/460	38/19	121
20	200	57	333
20	230/460	50/25	145
25	200	70	438
25	230/460	62/31	190
30	200	82	500
30	230/460	72/36	217
40	200	108	702
40	230/460	94/47	305
50	200	149	1035
50	230/460	130/65	448
60	200	165	1325
60	230/460	144/72	576
75	200	200	1385
75	230	180	1200
75	460	90	600
100	460	113	690

For dual voltage ratings LRA are given for 460 voltage.  
**LRA are given for across the line starting.**  
 Starting amps are .33 times LRA when starting on wye start – delta run. (Typical data)

<sup>1</sup>Across the line; single phase at 230 volt, three phase at 460 volt.



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