



PLAN CHECK WORKSHEET FOR HYDRO-ELECTRIC ELEVATORS

JOB ADDRESS:		ELEVATOR No:	
PCIS #: _____ - _____ - _____			
CONTRACTOR:	Licence #	C11	
BTRC #:	State Certification #		
Signature:	Date:		

The following information is necessary to check hydro-electric elevator plans. The information shall be shown on these worksheets and on the blue prints.

INFORMATION		EXAMPLE	ACTUAL VALUE
GENERAL			
H1	Passenger or freight class of loading	Passenger	
H2	Rated speed	100 fpm	
H3	Travel	10 ft.	
H4	Is this a medical emergency elevator?	No	
H5	If no, is there a medical emergency elevator in this building?	Yes	
H6	Height of building ¹	20 ft.	
H7	Location of installation in relation to the plans and elevation of the building	See drawings	
HOISTWAY ENCLOSURE			
H8	Number of elevators in the building	2	
H9	Number of cars in the hoistway	1	
PITS			
H10	Bottom runby	6 in.	
H11	Guards between adjacent pits	Only one pit	
H12	Horizontal refuge area	24"X47"	

¹ For high-rise buildings submit calculations to verify that the anchorage of drive and suspension system conforms to Section 91.403.10; 91.1626; and 91.1632.2 of the Los Angeles Building Code. ASME A17.1 Rules 2401.1; 2401.3; and 2401.4

INFORMATION		EXAMPLE	ACTUAL VALUE
H13	Height of refuge area	24 in.	
H14	Means to prevent the accumulation of water	N/A	
CAR CLEARANCES			
H15	Bottom	28 in.	
H16	Top	53 in.	
H17	Top runby	3 in.	
REFUGE SPACE ON TOP OF CAR ENCLOSURE			
H18	Width	24 in.	
H19	Depth	33 in.	
H20	Height	43 in.	
MACHINE ROOM			
H21	Height	7 ft	
H22	Disconnect switch in sight of motor	See layout	
H23	Work space for disconnect and controller	18 inches	
H24	Hydro machinery work space	See layout	
H25	Manually operated shut off valve between hydraulic machine and hydraulic jack	See layout	
CAR			
H26	Lining material	Cab 5-LA	
H27	Wall material	Cab 5-LA	
H28	Ceiling diffuser material	Cab 5-LA	
H29	Width, inside	80 in.	
H30	Depth, inside	51 in.	
H31	Weight, (car and accessories not including plunger)	2,700 lb	
H32	Capacity (rated load)	2,500 lb	
H33	Width of door	42 in.	
H34	Single door, center opening doors, or multi-speed doors	Single door	
H35	Hoistway door weight	250 lb	
H36	Car door weight	250 lb	
H37	Door travel time	3.4 seconds	

INFORMATION		EXAMPLE	ACTUAL VALUE
STILES			
H38	Steel	C5X6.7	
H39	Free length of styles (distance between cross head and plank)	7 ft	
H40	Vertical center distance between upper and lower guide shoes (or rollers)	8 ft	
PLANK			
H41	Steel	C5 X 8.2	
CROSSHEAD			
H42	Steel	C5 X 6.7	
H43	Distance equipment projects above top of crosshead	18 inches	
CAR BUFFERS			
H44	Type (oil or spring)	Spring	
H45	Make	ABC	
H46	Model	H102	
H47	State approval	12345	
H48	Capacity	7,000 lb	
H49	Stroke	3 in.	
H50	No. of buffers (Show on layout)	2	
GUIDE RAILS			
H51	Rail size	15 lb.	
H52	Fishplate thickness (if other than a plate, provide detail and moment of inertia calculations. A piece of rail of the same weight as the main rail is acceptable)	2¼ inches	
RAIL BRACKETS			
H53	Maximum vertical distance between rail brackets	144 in.	
H54	Design details	See drawing RB 26	
PUMP AND TANK			
H55	Weight	2,000 #	
H56	Location (distance between closer floor bolts)	34 in.	
H57	Height to center of gravity	58 in.	

INFORMATION		EXAMPLE	ACTUAL VALUE
H58	Type and number of floor bolts	"Red Head" Self-drill, 4	
H59	Floor bolt, size and minimum embedment	½ in. X 6 in. 5 in. embedment	
PRESSURE			
H60	Maximum working pressure	350 psi	
H61	Relief valve set pressure	525 psi	
PLUNGER			
H62	Inside diameter	3.813	
H63	Outside diameter	4 ⅜ in.	
H64	Free length	14 ft. 6 in.	
H65	Wall thickness	0.281 in.	
H66	Head thickness	0.750 in.	
H67	Shape of head	Flat	
H68	Inside diameter of skirt or radius of curvature of head (drawing required)	Head is not dished	
H69	Material	Carbon Steel AISE 1026 cold drawn	
H70	Yield point (based on 2% proof yield stress point)	60,000 psi	
H71	Percent Elongation	15%	
CYLINDER			
H72	Is the cylinder installed below ground?	Yes	
H73	If yes, what type of protection from corrosion is provided?	Protective plastic Casing	
H74	Inside diameter	6.065 in.	
H75	Outside diameter	6.625 in.	
H76	Wall thickness	0.280 in.	
H77	Head thickness	0.750 in.	
H78	Shape of head	Flat	
H79	Inside diameter of skirt or radius of curvature of head (drawing required)	Head is not dished	
H80	Safety bulkhead (detail required)	See drawing SP2	

INFORMATION		EXAMPLE	ACTUAL VALUE
H81	Material	Carbon Steel AISE 1026 cold drawn	
H82	Yield point (based on 2% proof yield point)	60,000 psi	
H83	Percent elongation	60,000 psi	
PIPING			
H84	Nominal size	2 in.	
H85	Schedule or type	Schedule 40	
H86	Material	Galvanized iron	
H87	Inside diameter ²		
H88	Outside diameter ²		
H89	Wall thickness ²		
H90	Yield stress ²		
H91	Percent elongation ²		

²If other than standard ASA B36.10 and ANSI B16.25 steel pipes or ASTM B88 copper tubes.