



PLAN CHECK WORKSHEET FOR PRIVATE RESIDENCE INCLINED ELEVATORS

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

The following information are necessary to check inclined elevator plans. The information shall be shown on these worksheets and on the blue prints.

INFORMATION		EXAMPLE	ACTUAL VALUE
GENERAL			
RI 1	Driving means	Ropes	
RI 2	Speed, rated	75 fpm	
RI 3	Angle of incline	30 ⁰	
RUNWAY PROTECTION			
RI 4	Are there obstructions along the runway within the arc formed by a 24 inch radius whose center is the outer corner of the top rail of the car enclosure?	Yes	
RI 5	If yes, show detail	See layout	
RI 6	Height of enclosure	6 feet	
RI 7	Landing gate type	Horizontally sliding	
RI 8	Landing gate height	6 feet	
RI 9	Clearance between landing gates and runway edge	3 inches	
RI 10	Clearance between landing gates and car door	7 inches	
RI 11	Construction of landing enclosure (if openwork provide detail)	Solid construction	
RI 12	Construction of landing gates (if openwork provide detail)	Solid construction	

RI 13	Horizontal clearance between car and landing sills	½ inches	
MACHINE ROOM			
RI 14	Location of the installation in relation to the plans and elevation of the building	See layout	
RI 15	Height	7 ft	
RI 16	Disconnect switch in sight of motor	See layout	
RI 17	Work space for disconnect and controller	See layout	
RI 18	Machinery work space	See layout	
MACHINERY BEAMS AND SUPPORTS			
RI 19	Type, size, and material	C5 X 8.2 Steel	
CAR			
RI 20	Platform material	Steel	
RI 21	Frame material	Steel	
RI 22	Height of car enclosure	42 in.	
RI 23	Width, inside	36 in.	
RI 24	Depth, inside	48 in.	
RI 25	Weight, (car and accessories-- not including plunger)	400 lb	
RI 26	Capacity (rated load)	700 lb	
RI 27	Height of door	42 in.	
RI 28	Construction of car door(if openwork provide detail)	Solid construction	
STILES			
RI 29	Type, size, and material	C5X6.7 Steel	
PLANK			
RI 30	Type, size, and material	C5 X 8.2 Steel	
CROSSHEAD			
RI 31	Type, size, and material	C5 X 6.7 Steel	

CAR BUFFERS			
RI 32	Type (oil, spring, or bumpers)	Spring	
RI 33	Make	ABC Co.	
RI 34	Model	XYZ	
RI 35	Capacity	4000 lb	
RI 36	Stroke	1 ½ in.	
RI 37	No. of buffers (Show on layout)	1	
GUIDE RAILS			
RI 38	Type, size, and material	C 4x7.25	
RAIL BRACKETS			
RI 39	Maximum distance between rail brackets	120 inches	
RI 40	Design details	See drawing SP2	
MACHINE			
RI 41	Weight	2,000 #	
RI 42	Location (distance between closer floor bolts)	34 in.	
RI 43	Height to center of gravity	58 in.	
RI 44	Type and number of floor bolts	“Red Head” Self-drill, 4	
RI 45	Floor bolt, size and minimum embedment	½ in. X 6 in. 5 in. embedment	
PRESSURE			
RI 46	Maximum working pressure	350 psi	
RI 47	Relief vale set pressure	525 psi	
PLUNGER			
RI 48	Inside diameter	3.813	
RI 49	Outside diameter	4 ⅜ in.	
RI 50	Free length	14 ft. 6 in.	
RI 51	Wall thickness	0.281 in.	
RI 52	Head thickness	0.750 in.	
RI 53	Shape of head	Flat	

RI 54	Dished Head dimensions (Drawing required)	Head is not dished	
RI 55	Material		
RI 56	Yield point in psi		
RI 57	Percentage elongation		
CYLINDER			
RI 58	Is the cylinder installed below ground?	Yes	
RI 59	If yes, what type of protection from corrosion is provided?	Protective plastic Casing	
RI 60	Head thickness	0.750 in.	
RI 61	Wall thickness	0.280 in.	
RI 62	Nominal size	6 in.	
RI 63	Shape of head	Flat	
RI 64	Dished head, dimensions	Head is not dished	
RI 65	Safety bulkhead (detail required)	See drawing SP2	
RI 66	Material		
RI 67	Yield point in psi		
RI 68	Percentage elongation		
PIPING			
RI 69	Size	2 in.	
RI 70	Schedule	40	
CAR ROPES:			
RI 71	Number of ropes	4	
RI 72	Roping ratio	1	
RI 73	Type and size of ropes	8X19 1/4 inch	
RI 74	Rated braking strength of one rope	4000 lbs	
CAR SAFETIES			
RI 75	No. and type	1B	
RI 76	Manufacturer	ABC Co.	
RI 77	Model	XYZ	

RI 78	State approval No.	12345	
GOVERNOR			
RI 79	Location of governor	See layout	
RI 80	Material and diameter of ropes and material	1/4" steel	
COUNTERWEIGHT			
RI 81	Weight (including frame)	N/A	
COUNTERWEIGHT BUFFERS			
RI 82	Type (oil, spring, or bumpers)	N/A	
RI 83	Make	N/A	
RI 84	Model	N/A	
RI 85	Capacity	N/A	
RI 86	Stroke	N/A	
RI 87	No. of buffers (Show on layout)	N/A	
COUNTERWEIGHT GUIDE RAILS			
RI 88	Type, size, and material		
COUNTERWEIGHT RAIL BRACKETS			
RI 89	Distance between rail brackets	N/A	
RI 90	Location of tie brackets	N/A	
COUNTERWEIGHT SAFETIES			
RI 91	No. and type	N/A	
RI 92	Manufacturer	N/A	
RI 93	Model	N/A	
RI 94	State approval No.	N/A	
COUNTERWEIGHT ROPES			
RI 95	Number of ropes	N/A	
RI 96	Size and type of Ropes	N/A	
RI 97	Rated braking strength of one rope	N/A	
RI 98	Weight (including frame)	N/A	