Schindler 5400 AP

Mini-Machine-Room Configuration Planning Data

Schindler Passenger Lifts

Schindler

Schindler 5400 AP MMR Planning Data

Load		Speed	Car (mm)	Door (mm)	Shaft (mm)	Overtravel (mm)				Pit Depth (mm)			
(kg)	Pers	(m/s)	(W x D)	(W x D)	(W x D)	EN81	CP2: 2000	CNS	Malaysia	EN81	CP2: 2000	CNS	Malaysia
900	12 / 13	1.0	1550 x 1350	900 x 2100	2100 x 2100	4300	4300	4300	4800	1350	1350	1500	1700
				1000 x 2100	2200 x 2100								
			1600 x 1400	900 x 2100	2150 x 2150								
				1000 x 2100	2200 x 2150								
			1400 x 1600	900 x 2100	2000 x 2350								
		1.6	1550 x 1350	900 x 2100	2100 x 2100	4400	4400	4700	4650	1450	1450	2100	1700
				1000 x 2100	2200 x 2100								
			1600 x 1400	900 x 2100	2150 x 2150								
				1000 x 2100	2200 x 2150								
			1400 x 1600	900 x 2100	2000 x 2350								
		1.75	1550 x 1350	900 x 2100	2100 x 2100	4500	4500	4700	4650	1550	1600	2100	1600
				1000 x 2100	2200 x 2100								
			1600 x 1400	900 x 2100	2150 x 2150								
				1000 x 2100	2200 x 2150								
			1400 x 1600	900 x 2100	2000 x 2350								
		2.0	1550 x 1350	900 x 2100	2100 x 2100	4700	4700	4700	4800	1700	1750	2100	1750
				1000 x 2100	2200 x 2100								
			1600 x 1400	900 x 2100	2150 x 2150								
				1000 x 2100	2200 x 2150								
			1400 x 1600	900 x 2100	2000 x 2350								
		2.5	1550 x 1350	900 x 2100	2100 x 2100	4800	4800	4900	4900	1750	1800	2400	1800
				1000 x 2100	2200 x 2100								
			1600 x 1400	900 x 2100	2150 x 2150								
				1000 x 2100	2200 x 2150								
			1400 x 1600	900 x 2100	2000 x 2350								
1000	13 / 15	1.0	1600 x 1400	900 x 2100	2150 x 2150	4300	4300	4300	4800	1350	1350	1500	1700
				1000 x 2100	2200 x 2150								
				1100 x 2100	2400 x 2150								
			1600 x 1550	900 x 2100	2150 x 2250								
				1000 x 2100	2200 x 2250								
				1100 x 2100	2400 x 2250								
			1100 x 2100	900 x 2100	2000 x 2850								
		1.6	1600 x 1400	900 x 2100	2150 x 2150	4400	4400	4700	4650	1450	1450	2100	1700
				1000 x 2100	2200 x 2150								
				1100 x 2100	2400 x 2150								
			1600 x 1550	900 x 2100	2150 x 2300								
				1000 x 2100	2200 x 2300								
				1100 x 2100	2400 x 2300								
			1100 x 2100	900 x 2100	2000 x 2850								

Reaction Load (kN)							Motor	Voltage	Circuit Breaker per elevator	Power Supply Capacity (kVA)			Starting power per elevator	Heat Dissipati-on per elevator	
F8	F9	F10	R1	R2	R3	R4	(kW)	(V)	(A)	1 unit	2 units	3 units	(kVA)	(kW)	(kcal/h)
54	100	82	18.2	69.8	33.2	43	5.6	220-230 380-415 460	40 25 25	12	22	32	17	0.74	634
							9	220-230 380-415 460	63 25 25	16	29	43	26	1.19	1019
							9.9	220-230 380-415 460	63 40 25	17	31	46	29	1.31	1121
							11.3	220-230 380-415 460	63 40 25	19	35	51	32	1.49	1279
							14.1	220-230 380-415 460	63 40 40	22	40	59	39	1.86	1596
56	126	87	18.4	76	35	46.7	6.3	220-230 380-415 460	40 25 25	13	24	35	19	0.84	713
							10	220-230 380-415 460	63 40 25	18	33	49	28	1.32	1132

Schindler 5400 AP MMR Planning Data

Load		Speed	Car (mm)	Door (mm)	Shaft (mm)	Overtravel (mm)				Pit Depth (mm)			
(kg)	Pers	(m/s)	(W x D)	(W x D)	(W x D)	EN81	CP2: 2000	CNS	Malaysia	EN81	CP2: 2000	CNS	Malaysia
1000	13 / 15	1.75	1600 x 1400	900 x 2100	2150 x 2150	4500	4500	4700	4650	1550	1600	2100	1600
				1000 x 2100	2200 x 2150								
				1100 x 2100	2400 x 2150								
			1600 x 1550	900 x 2100	2150 x 2300								
				1000 x 2100	2200 x 2300								
				1100 x 2100	2400 x 2300								
			1100 x 2100	900 x 2100	2000 x 2850								
		2.0	1600 x 1400	900 x 2100	2150 x 2150	4700	4700	4700	4800	1700	1750	2100	1750
				1000 x 2100	2200 x 2150								
				1100 x 2100	2400 x 2150								
			1600 x 1550	900 x 2100	2150 x 2300								
				1000 x 2100	2200 x 2300								
				1100 x 2100	2400 x 2300								
			1100 x 2100	900 x 2100	2000 x 2850								
		2.5	1600 x 1400	900 x 2100	2150 x 2150	4800	4800	4900	4900	1750	1800	2400	1800
				1000 x 2100	2200 x 2150								
				1100 x 2100	2400 x 2150								
			1600 x 1550	900 x 2100	2150 x 2300								
				1000 x 2100	2200 x 2300								
				1100 x 2100	2400 x 2300								
			1100 x 2100	900 x 2100	2000 x 2850								
1150	15 / 17	1.0	1800 x 1400	1000 x 2100	2350 x 2150	4300	4450	4400	4800	1450	1450	1500	1700
				1100 x 2100	2400 x 2150								
			1900 x 1350	1000 x 2100	2450 x 2100								
				1100 x 2100	2450 x 2100								
			1950 x 1400	1000 x 2100	2500 x 2150								
				1100 x 2100	2500 x 2150								
		1.6	1800 x 1400	1000 x 2100	2350 x 2150	4400	4550	4800	4650	1500	1500	2100	1700
				1100 x 2100	2400 x 2150								
			1900 x 1350	1000 x 2100	2450 x 2100								
				1100 x 2100	2450 x 2100								
			1950 x 1400	1000 x 2100	2500 x 2150								
				1100 x 2100	2500 x 2150								
		1.75	1800 x 1400	1000 x 2100	2350 x 2150	4500	4650	4800	4650	1600	1700	2100	1700
				1100 x 2100	2400 x 2150								
			1900 x 1350	1000 x 2100	2450 x 2100								
				1100 x 2100	2450 x 2100								
			1950 x 1400	1000 x 2100	2500 x 2150								
				1100 x 2100	2500 x 2150								

Reaction Load (kN)							Motor	Voltage	Circuit Breaker per elevator	Power Supply Capacity (kVA)			Starting power per elevator	Heat Dissipation per elevator	
F8	F9	F10	R1	R2	R3	R4	(kW)	(V)	(A)	1 unit	2 units	3 units	(kVA)	(kW)	(kcal/h)
56	126	87	18.4	76	35	46.7	10.9	220-230	63	19	35	51	32	1.44	1234
								380-415	40						
								460	25						
							12.5	220-230	63	21	38	57	35	1.65	1415
								380-415	40						
								460	40						
							15.6	220-230	63	24	44	65	43	2.06	1766
								380-415	40						
								460	40						
58	128	103	22.8	97.2	44.4	57.6	7.2	220-230	40	13	24	35	18	0.95	815
								380-415	25						
								460	25						
							11.5	220-230	63	18	33	49	27	1.52	1302
								380-415	40						
								460	25						
							12.6	220-230	63	19	35	51	31	1.66	1426
								380-415	40						
								460	25						

Schindler 5400 AP MMR Planning Data

Load		Speed	Car (mm)	Door (mm)	Shaft (mm)	Overtravel (mm)				Pit Depth (mm)			
(kg)	Pers	(m/s)	(W x D)	(W x D)	(W x D)	EN81	CP2: 2000	CNS	Malaysia	EN81	CP2: 2000	CNS	Malaysia
1150	15 / 17	2.0	1800 x 1400	1000 x 2100	2350 x 2150	4700	4900	4800	4800	1800	1850	2100	1850
				1100 x 2100	2400 x 2150								
			1900 x 1350	1000 x 2100	2450 x 2100								
				1100 x 2100	2450 x 2100								
			1950 x 1400	1000 x 2100	2500 x 2150								
				1100 x 2100	2500 x 2150								
		2.5	1800 x 1400	1000 x 2100	2350 x 2150	4800	4950	5000	4900	1850	1900	2400	1900
				1100 x 2100	2400 x 2150								
			1900 x 1350	1000 x 2100	2450 x 2100								
				1100 x 2100	2450 x 2100								
			1950 x 1400	1000 x 2100	2500 x 2150								
				1100 x 2100	2500 x 2150								
1350	18 / 20	1.0	1800 x 1700	1100 x 2100	2400 x 2450	4300	4450	4400	4800	1450	1450	1500	1700
				1200 x 2100	2600 x 2450								
			2000 x 1450	1100 x 2100	2550 x 2200								
				1200 x 2100	2600 x 2200								
			2000 x 1550	1100 x 2100	2550 x 2300								
				1200 x 2100	2600 x 2300								
		1.6	1800 x 1700	1100 x 2100	2400 x 2450	4400	4550	4800	4650	1500	1500	2100	1700
				1200 x 2100	2600 x 2450								
			2000 x 1450	1100 x 2100	2550 x 2200								
				1200 x 2100	2600 x 2200								
			2000 x 1550	1100 x 2100	2550 x 2300								
				1200 x 2100	2600 x 2300								
		1.75	1800 x 1700	1100 x 2100	2400 x 2450	4500	4650	4800	4650	1600	1700	2100	1700
				1200 x 2100	2600 x 2450								
			2000 x 1450	1100 x 2100	2550 x 2200								
				1200 x 2100	2600 x 2200								
			2000 x 1550	1100 x 2100	2550 x 2300								
				1200 x 2100	2600 x 2300								
		2.0	1800 x 1700	1100 x 2100	2400 x 2450	4700	4900	4800	4800	1800	1850	2100	1850
				1200 x 2100	2600 x 2450								
			2000 x 1450	1100 x 2100	2550 x 2200								
				1200 x 2100	2600 x 2200								
			2000 x 1550	1100 x 2100	2550 x 2300								
				1200 x 2100	2600 x 2300								
		2.5	1800 x 1700	1100 x 2100	2400 x 2450	4800	4950	5000	4900	1850	1900	2400	1900
				1200 x 2100	2600 x 2450								
			2000 x 1450	1100 x 2100	2550 x 2200								
				1200 x 2100	2600 x 2200								
			2000 x 1550	1100 x 2100	2550 x 2300								
				1200 x 2100	2600 x 2300								
1450	19 / 21	1.0	1800 x 1800	1100 x 2100	2400 x 2550	4300	4450	4400	4800	1450	1450	1500	1700
		1.6				4400	4550	4800	4650	1500	1500	2100	1700
		1.75				4500	4650	4800	4650	1600	1700	2100	1700
		2.0				4700	4900	4800	4800	1800	1850	2100	1850
		2.5				4800	4950	5000	4900	1850	1900	2400	1900

Reaction Load (kN)							Motor	Voltage	Circuit Breaker per elevator	Power Supply Capacity (kVA)			Starting power per elevator	Heat Dissipation per elevator	
F8	F9	F10	R1	R2	R3	R4	(kW)	(V)	(A)	1 unit	2 units	3 units	(kVA)	(kW)	(kcal/h)
58	128	103	22.8	97.2	44.4	57.6	14.4	220-230 380-415 460	63 40 40	21	38	57	34	1.9	1630
							18	220-230 380-415 460	100 40 40	25	46	68	44	2.38	2038
61	137	110	24.8	105.3	49.1	62.5	8.4	220-230 380-415 460	63 25 25	15	27	41	21	1.11	951
							13.5	220-230 380-415 460	63 40 40	21	38	57	32	1.78	1528
							14.8	220-230 380-415 460	63 40 40	23	42	62	37	1.95	1675
							16.9	220-230 380-415 460	100 40 40	25	46	68	41	2.23	1913
							21.1	220-230 380-415 460	100 63 40	30	55	81	51	2.79	2389
62	143	150	25.4	106.1	50.8	63.2	9.1	220-230	63	16	29	43	23	1.21	1030
							14.5	380-415	40	23	42	62	34	1.92	1642
							15.9	460	40	25	46	68	39	2.1	1800
							18.1			27	49	73	44	2.39	2049
							22.7			32	58	86	55	3	2570

Schindler 5400 AP MMR Planning Data

Load		Speed	Car (mm)	Door (mm)	Shaft (mm)	Overtravel (mm)				Pit Depth (mm)			
(kg)	Pers	(m/s)	(W x D)	(W x D)	(W x D)	EN81	CP2: 2000	CNS	Malaysia	EN81	CP2: 2000	CNS	Malaysia
1600	21 / 24	1.0	2000 x 1700	1100 x 2100	2550 x 2450	4300	4450	4400	4800	1450	1450	1500	1700
				1200 x 2100	2600 x 2450								
			2100 x 1700	1100 x 2100	2650 x 2450								
				1200 x 2100	2650 x 2450								
			1600 x 2100	1100 x 2100	2400 x 2850								
				1200 x 2100	2600 x 2850								
		1.6	2000 x 1700	1100 x 2100	2550 x 2450	4400	4550	4800	4650	1500	1500	2100	1700
				1200 x 2100	2600 x 2450								
			2100 x 1700	1100 x 2100	2650 x 2450								
				1200 x 2100	2650 x 2450								
			1600 x 2100	1100 x 2100	2400 x 2850								
				1200 x 2100	2600 x 2850								
		1.75	2000 x 1700	1100 x 2100	2550 x 2450	4500	4650	4800	4650	1600	1700	2100	1700
				1200 x 2100	2600 x 2450								
			2100 x 1700	1100 x 2100	2650 x 2450								
				1200 x 2100	2650 x 2450								
			1600 x 2100	1100 x 2100	2400 x 2850								
				1200 x 2100	2600 x 2850								
		2.0	2000 x 1700	1100 x 2100	2550 x 2450	4700	4900	4800	4800	1800	1850	2100	1850
				1200 x 2100	2600 x 2450								
			2100 x 1700	1100 x 2100	2650 x 2450								
				1200 x 2100	2650 x 2450								
			1600 x 2100	1100 x 2100	2400 x 2850								
				1200 x 2100	2600 x 2850								
		2.5	2000 x 1700	1100 x 2100	2550 x 2450	4800	4950	5000	4900	1850	1900	2400	1900
				1200 x 2100	2600 x 2450								
			2100 x 1700	1100 x 2100	2650 x 2450								
				1200 x 2100	2650 x 2450								
			1600 x 2100	1100 x 2100	2400 x 2850								
				1200 x 2100	2600 x 2850								

Remarks

Dimensions

- Shaft dimension width & depth are based on clear dimension with +/-25mm horizontal tolerances over the total travel height.
- Car dimensions with shaded background in compliance with EN81. For different car sizes, please contact our local office.
- Structural car height : 2500mm.
- Indicated dimension are standard for counterweight without safety gear.
- Load (Pers) shown are based on 75kg / 68kg per person.
- All given information are for general reference and planning. For specific construction, please contact our local sales offices.

Overtravel and Pit Depth

- EN81 for Hong Kong, CP2:2000 for Singapore and CNS for Taiwan.
- Overtravel requirement is based on 2500mm structural car height.
- For smaller overhead and pit depth as well as local codes in other countries, please contact our local sales offices.

Reaction Load (kN)							Motor	Voltage	Circuit Breaker per elevator	Power Supply Capacity (kVA)			Starting power per elevator	Heat Dissipation per elevator	
F8	F9	F10	R1	R2	R3	R4	(kW)	(V)	(A)	1 unit	2 units	3 units	(kVA)	(kW)	(kcal/h)
65	152	200	25.6	115.4	54.1	68.6	10	220-230 380-415 460	63 40 25	18	33	49	25	1.32	1132
							16	220-230 380-415 460	63 40 40	25	46	68	38	2.11	1811
							17.5	220-230 380-415 460	100 63 40	27	49	73	43	2.31	1961
							20	220-230 380-415 460	100 63 40	30	55	81	48	2.64	2264
							25	220-230 380-415 460	100 63 63	35	64	95	59	3.3	2830

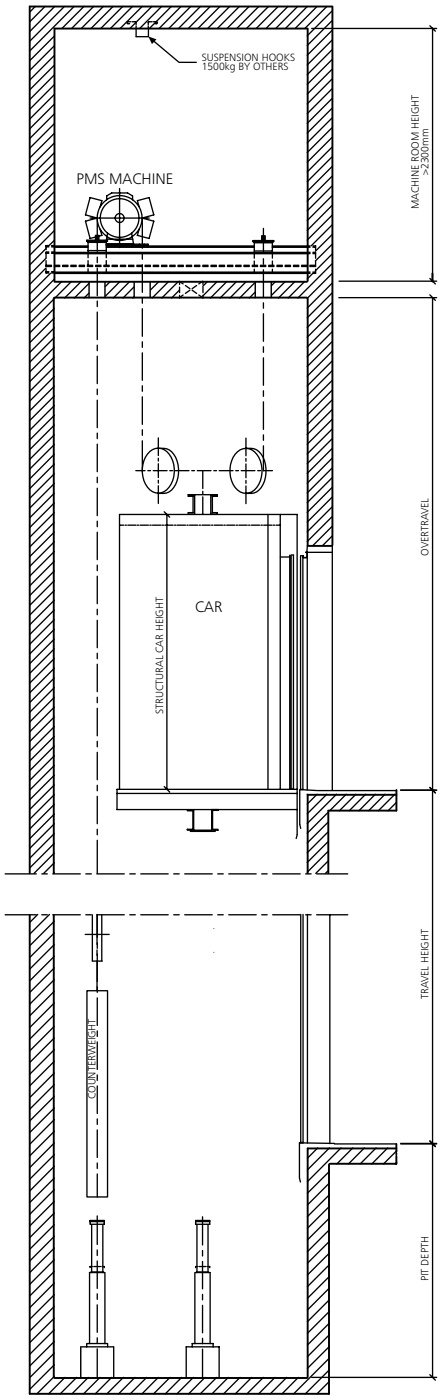
Heat Dissipation

– Our equipment is designed to withstand a temperature range of 5 to 40°C.

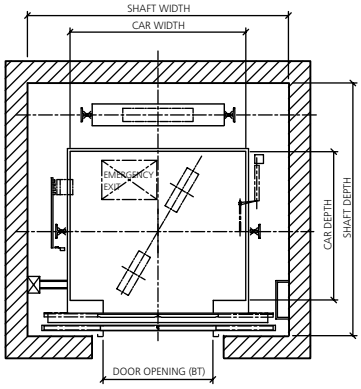
– To maintain a minimum room temperature for the service personnel, the machine room and shaft temperature should be kept within the range of 5 to 35°C.

– The humidity in the machine room should not exceed 90% in monthly average and 95% in daily average without condensation.

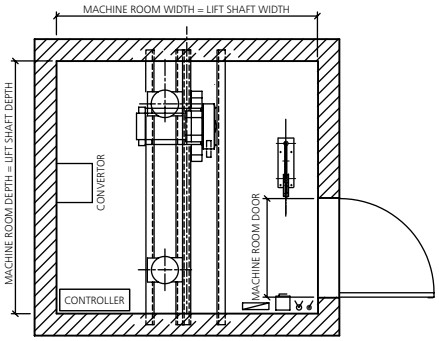
Schindler 5400 AP MMR Planning Data



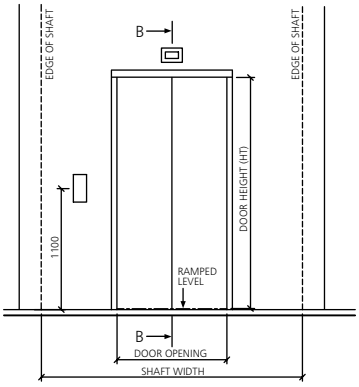
HOISTWAY SECTION



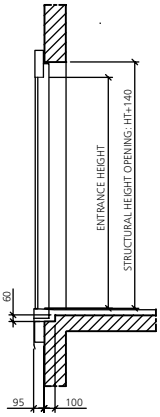
HOISTWAY PLAN



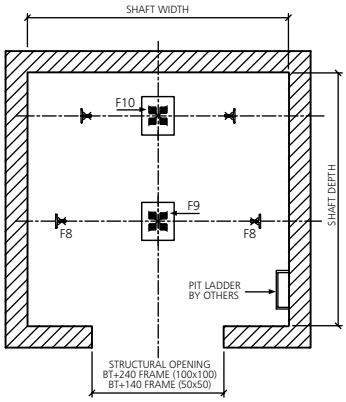
MACHINE ROOM PLAN



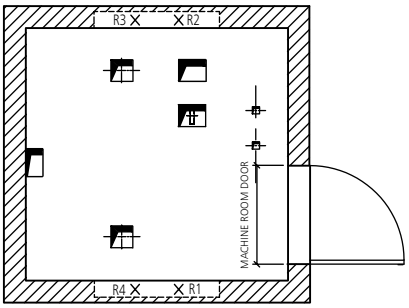
LANDING DOOR



SECTION B-B



FORCES ON PIT



FORCES ON SHAFT

F8 FORCE OF GUIDE RAIL CAR WALL SIDE
F9 FORCE OF BUFFER ON HOISTWAY PIT, CAR SIDE
F10 FORCE OF BUFFER ON HOISTWAY PIT, COUNTERWEIGHT SIDE
R1 SUPPORT FORCE 1 OF TRAVERSE BEAM MACHINE ROOM
R2 SUPPORT FORCE 2 OF TRAVERSE BEAM MACHINE ROOM
R3 SUPPORT FORCE 3 OF TRAVERSE BEAM MACHINE ROOM
R4 SUPPORT FORCE 4 OF TRAVERSE BEAM MACHINE ROOM

We are always close by.

Please contact one of the following addresses:

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Or visit our website:
www.jardineschindler.com

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