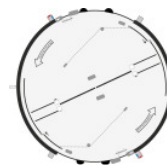
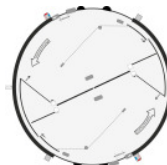


K21 two-wing revolving door without showcase



K21-VI two-wing revolving door with showcase



1 – GENERAL INFORMATION

Comfort zone of one person without trolley	approximately 0,6 à 0,8 m ²
Comfort zone of one person with trolley	approximately 2 à 2,2 m ²
Fill-up per segment without trolley	approximately 70 à 90%
Fill-up per segment with trolley	approximately 50 à 70%
Speed of rotation at the front of the door-wing	approximately 0,6 à 0,75 m/s (*)

(*) According to the setting of the system in relation to the number of rotations during the commissioning and according to the diameter of the door

Note:

- For the calculation, we always using the average of the values as mentioned above

2 – FORMULAS & LEGEND

N	= Rotations per minute	(0,675 m/s x 60 sec.) : (Pi x diameter)
P	= Number of persons per segment	((((Pi x r ²) – surface of showcase) : V) : comfort zone) x fill-up)
M	= Passage capacity per minute in one direction	V x N x P
H	= Passage capacity per hour in one direction	M x 60 minutes
V	= Number of segment/turnstile	
Appr.	= Approximately	
Nb.	= Number	

THEORETICAL THROUGHPUT CAPACITIES

3 – THROUGHPUT CAPACITY « K21 » WITHOUT TROLLEY

	V		N	P	M	H
Diameter	Number of wings	Speed of rotation at the end of the door-wing	Rotations per minute	Max. number of persons per segment	Capacity per minute appr.	Capacity per hour appr.
3000	2	0,675	4,29	4	34	2082
3200	2	0,675	4,02	4	37	2221
3400	2	0,675	3,79	5	39	2360
3600	2	0,675	3,58	5	41	2499
3800	2	0,675	3,39	6	43	2638
4000	2	0,675	3,22	7	46	2777
4200	2	0,675	3,06	7	48	2916
4400	2	0,675	2,92	8	50	3054
4600	2	0,675	2,80	9	53	3193
4800	2	0,675	2,68	10	55	3332
5000	2	0,675	2,57	11	57	3471
5200	2	0,675	2,47	12	60	3610
5400	2	0,675	2,38	13	62	3749
5600	2	0,675	2,30	14	64	3888
5800	2	0,675	2,22	15	67	4026
6000	2	0,675	2,14	16	69	4165
6200	2	0,675	2,07	17	71	4304
6400	2	0,675	2,01	18	74	4443
6600	2	0,675	1,95	19	76	4582
6800	2	0,675	1,89	20	78	4721
7000	2	0,675	1,84	21	81	4860
7200	2	0,675	1,79	23	83	4998
7400	2	0,675	1,74	24	85	5137
7600	2	0,675	1,69	25	87	5276
7800	2	0,675	1,65	27	90	5415
8000	2	0,675	1,61	28	92	5554

THEORETICAL THROUGHPUT CAPACITIES

4 – THROUGHPUT CAPACITY « K21-VI » WITHOUT TROLLEY

	V		N	P	M	H
Diameter	Number of wings	Speed of rotation at the end of doorwing	Rotations per minute	Max. number of persons per segment	Capacity per minute appr.	Capacity per hour appr.
3000	2	0,675	4,29	3	30	1805
3200	2	0,675	4,02	4	32	1962
3400	2	0,675	3,79	4	35	2116
3600	2	0,675	3,58	5	37	2268
3800	2	0,675	3,39	5	40	2419
4000	2	0,675	3,22	6	41	2498
4200	2	0,675	3,06	7	44	2646
4400	2	0,675	2,92	7	46	2797
4600	2	0,675	2,80	8	47	2874
4800	2	0,675	2,68	9	50	3019
5000	2	0,675	2,57	10	52	3170
5200	2	0,675	2,47	11	57	3443
5400	2	0,675	2,38	12	59	3585
5600	2	0,675	2,30	13	62	3730
5800	2	0,675	2,22	14	64	3874
6000	2	0,675	2,14	15	66	4018
6200	2	0,675	2,07	16	69	4161
6400	2	0,675	2,01	17	70	4247
6600	2	0,675	1,95	18	73	4389
6800	2	0,675	1,89	19	75	4533
7000	2	0,675	1,84	21	77	4678
7200	2	0,675	1,79	22	80	4822
7400	2	0,675	1,74	23	81	4908
7600	2	0,675	1,69	24	84	5053
7800	2	0,675	1,65	26	86	5197
8000	2	0,675	1,61	27	89	5342

THEORETICAL THROUGHPUT CAPACITIES

5 – THROUGHPUT CAPACITIES « K21 » WITH TROLLEY

	V		N	P	M	H
Diameter	Number of wings	Speed of rotation at the end of doorwing	Rotations per minute	Max. number of persons per segment	Capacity per minute appr.	Capacity per hour appr.
3000	2	0,675	4,29	1	8	520
3200	2	0,675	4,02	1	9	555
3400	2	0,675	3,79	1	9	590
3600	2	0,675	3,58	1	10	624
3800	2	0,675	3,39	1	10	659
4000	2	0,675	3,22	1	11	694
4200	2	0,675	3,06	1	12	729
4400	2	0,675	2,92	2	12	763
4600	2	0,675	2,80	2	13	798
4800	2	0,675	2,68	2	13	833
5000	2	0,675	2,57	2	14	867
5200	2	0,675	2,47	3	15	902
5400	2	0,675	2,38	3	15	937
5600	2	0,675	2,30	3	16	972
5800	2	0,675	2,22	3	16	1006
6000	2	0,675	2,14	4	17	1041
6200	2	0,675	2,07	4	17	1076
6400	2	0,675	2,01	4	18	1110
6600	2	0,675	1,95	4	19	1145
6800	2	0,675	1,89	5	19	1180
7000	2	0,675	1,84	5	20	1215
7200	2	0,675	1,79	5	20	1249
7400	2	0,675	1,74	6	21	1284
7600	2	0,675	1,69	6	21	1319
7800	2	0,675	1,65	6	22	1353
8000	2	0,675	1,61	7	23	1388

THEORETICAL THROUGHPUT CAPACITIES

6 –THEORETICAL THROUGHPUT CAPACITIES « K21-VI » WITH TROLLEY

	V		N	P	M	H
Diameter	Number of wings	Speed of rotation at the end of doorwing	Rotations per minute	Max. number of persons per segment	Capacity per minute appr.	Capacity per hour appr.
3000	2	0,675	4,29	0	0	0
3200	2	0,675	4,02	1	8	490
3400	2	0,675	3,79	1	8	529
3600	2	0,675	3,58	1	9	567
3800	2	0,675	3,39	1	10	604
4000	2	0,675	3,22	1	10	624
4200	2	0,675	3,06	1	11	661
4400	2	0,675	2,92	1	11	699
4600	2	0,675	2,80	2	11	718
4800	2	0,675	2,68	2	12	754
5000	2	0,675	2,57	2	13	792
5200	2	0,675	2,47	2	14	860
5400	2	0,675	2,38	3	14	896
5600	2	0,675	2,30	3	15	932
5800	2	0,675	2,22	3	16	968
6000	2	0,675	2,14	3	16	1004
6200	2	0,675	2,07	4	17	1040
6400	2	0,675	2,01	4	17	1061
6600	2	0,675	1,95	4	18	1097
6800	2	0,675	1,89	4	18	1133
7000	2	0,675	1,84	5	19	1169
7200	2	0,675	1,79	5	20	1205
7400	2	0,675	1,74	5	20	1227
7600	2	0,675	1,69	6	21	1263
7800	2	0,675	1,65	6	21	1299
8000	2	0,675	1,61	6	22	1335

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