

	454		455		456		457
Bottom	1	208		204		218	230
	2	190	18	190	14	218	210
	3	192	-2	193	-3	218	215
	4	193	-1	193	0	213	205
	5	196	-3	195	-2	215	210
	6	196	0	192	3	214	212
	7	195	1	192	0	215	214
	8	190	5	191	1	225	219
	9	192	-2	190	1	216	215
	10	192	0	190	0	212	219
	11	192	0	195	-5	218	220
	12	192	0	190	5	218	213
	13	190	2	193	-3	210	200
	14	195	-5	195	-2	216	
	15	190	5	191	4	220	220
	16	193	-3	189	2	220	
	17	190	3	198	-9	0	
Top	18	190	0	198	0	0	

Average	193.1111	193.2778	216.4	214.4286
1%	1.931111	1.932778	2.164	2.144286
±1%	3.862222	3.865556	4.328	4.288571

5.4 Uniformity of stairs

COMMENTARY ON 5.4

It is unusual for the rise and going on throughout the whole flight; variation (see BS 5606). Variation between adjacent steps changes the amount of the foot that is on the stairs at any one time. This effect is related to the change in the slope of the stairs. It is significant during descent where a step follows a step with a larger going. During ascent, a step follows a step with a smaller going. During going and the variability, a variation in the slope of the stairs leads to a variation in the risk of a slip on the smaller step to more than on the larger step. This increase in risk can be significant. In built stairs, the variations in built stairs are quite small. For accuracy it is suggested that larger goings should be used.

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	458		459		460		461	
	217		217		216		180	
20	206	11	208	9	203	13	192	-12
-5	213	-7	216	-8	210	-7	201	-9
10	219	-6	207	9	210	0	200	1
-5	217	2	210	-3	210	0	198	2
-2	215	2	211	-1	211	-1	199	-1
-2	216	-1	208	3	210	1	202	-3
-5	212	4	210	-2	209	1	198	4
4	215	-3	213	-3	211	-2	196	2
-4	212	3	210	3	206	5	202	-6
-1	215	-3	210	0	212	-6	200	2
7	209	6	208	2	211	1	196	4
13	215	-6	210	-2	212	-1	200	-4
#VALUE!	220	-5	212	-2	210	2	197	3
#VALUE!	213	7	215	-3	212	-2	204	-7
220		213		215	212	0	207	-3
0		0		0		212		207
0		0		0		0		0

214.2667

211

210.3125

198.25

2.142667

2.11

2.103125

1.9825

4.285333

4.22

4.20625

3.965

BS 5395-1:2010

any stair to be consistent
 ns of 4 mm to 6 mm are common
 cent steps can have the effect of
 t hangs over the nosing. The size of
 the rise or going and would be most
 ep with a smaller going immediately
 pending on the size of the average
 between steps can increase the risk
 han the risk associated with the rest
 make the stair even more dangerous
 it step dimensions. For this reason
 strict. If it is difficult to meet this
 ings are designed.

Plot Number

461		462		462		463		463
180		193		190		201		213
186	-6	193	0	190	0	200	1	203
182	4	195	-2	190	0	195	5	198
183	-1	194	1	191	-1	198	-3	195
183	0	200	-6	194	-3	195	3	196
184	-1	195	5	192	2	197	-2	193
185	-1	190	5	193	-1	193	4	195
182	3	197	-7	190	3	193	0	197
187	-5	192	5	193	-3	199	-6	197
185	2	195	-3	195	-2	198	1	198
185	0	190	5	198	-3	192	6	203
187	-2	196	-6	196	2	196	-4	196
183	4	195	1	195	1	195	1	200
190	-7	190	5	198	-3	195	0	195
185	5	190	0	190	8	196	-1	196
188	-3	180	10	190	0	189	7	196
193	-5		180		190		189	
	193		0		0		0	

185.1765

192.8125

192.8125

195.75

198.1875

1.851765

1.928125

1.928125

1.9575

1.981875

3.703529

3.85625

3.85625

3.915

3.96375

BRITISH STANDARD

Stairs should be uniform to within the following tolerances:

- For private stairs a variation of $\pm 1\%$ of the going from the design going is permitted, and a variation of $\pm 1\%$ of the rise from the design rise is permitted.
- For normal-use stairs a variation of $\pm 1.5\%$ of the going from the design going is permitted, and a variation of $\pm 1\%$ of the rise from the design rise is permitted.

	464		464		465		465	
	208		188		204		188	
10	190	18	183	5	190	14	185	3
5	190	0	190	-7	196	-6	184	1
3	194	-4	184	6	200	-4	189	-5
-1	192	2	180	4	199	1	180	9
3	195	-3	183	-3	198	1	187	-7
-2	192	3	181	2	200	-2	192	-5
-2	194	-2	178	3	195	5	191	1
0	193	1	184	-6	198	-3	185	6
-1	193	0	182	2	199	-1	190	-5
-5	195	-2	183	-1	200	-1	190	0
7	198	-3	186	-3	202	-2	188	2
-4	190	8	180	6	200	2	186	2
5	197	-7	185	-5	199	1	180	6
-1	200	-3	183	2	199	0	190	-10
0	173	27	183	0	190	9	188	2
196		173	184	-1		190	140	48
0		0		184		0		140

193.375
1.93375
3.8675

183.3529
1.833529
3.667059

198.0625
1.980625
3.96125

184.2941
1.842941
3.685882

466		466		467		467	
200		200		206		198	
193	7	200	0	200	6	184	14
200	-7	201	-1	196	4	184	0
196	4	198	3	200	-4	180	4
202	-6	191	7	200	0	180	0
195	7	200	-9	197	3	186	-6
193	2	195	5	198	-1	197	-11
193	0	198	-3	200	-2	184	13
194	-1	198	0	200	0	187	-3
196	-2	196	2	200	0	185	2
197	-1	195	1	203	-3	188	-3
200	-3	200	-5	201	2	186	2
201	-1	197	3	199	2	183	3
197	4	202	-5	194	5	188	-5
193	4	198	4	198	-4	191	-3
	193	182	16	191	7	180	11
	0		182		191	174	6
	0		0		0		174

196.6667
1.966667
3.933333

196.9375
1.969375
3.93875

198.9375
1.989375
3.97875

185.5882
1.855882
3.711765