

Design & specification considerations

BRICKWORK DIMENSIONS TABLE – Standard brick

Brickwork dimensions should be used whenever possible at the design stage to minimise the need for cut bricks. Tables 1 and 2 give dimensions for vertical and horizontal brickwork courses, based on the British Standard Co-ordinating size of 225mm x 112.5 x 75mm, which includes 10mm joints (this size being determined by the term CO). Table 1 and 3 should be used for 73mm bricks.

Table 1 - HORIZONTAL BRICKWORK DIMENSIONS - 215MM BRICKS

Number of Bricks	CO + Joint	CO (Coordinating Size)	CO - Joint
1/2	122.5	112.5	102.5
1	235	225	215
1 1/2	347.5	337.5	327.5
2	460	450	440
2 1/2	572.5	562.5	552.5
3	685	675	665
3 1/2	797.5	787.5	777.5
4	910	900	890
4 1/2	1022.5	1012.5	1002.5
5	1135	1125	1115
5 1/2	1247.5	1237.5	1227.5
6	1360	1350	1340
6 1/2	1472.5	1462.5	1452.5
7	1585	1575	1565
7 1/2	1697.5	1687.5	1677.5
8	1810	1800	1790
8 1/2	1922.5	1912.5	1902.5
9	2035	2025	2015
9 1/2	2147.5	2137.5	2127.5
10	2260	2250	2240
10 1/2	2372.5	2362.5	2352.5
11	2485	2475	2465
11 1/2	2597.5	2587.5	2577.5
12	2710	2700	2690
12 1/2	2822.5	2812.5	2802.5
13	2935	2925	2915
13 1/2	3047.5	3037.5	3027.5
14	3160	3150	3140
14 1/2	3272.5	3262.5	3252.5
15	3385	3375	3365
15 1/2	3497.5	3487.5	3477.5
16	3610	3600	3590
16 1/2	3722.5	3712.5	3702.5
17	3835	3825	3815
17 1/2	3947.5	3937.5	3927.5
18	4060	4050	4040
18 1/2	4172.5	4162.5	4152.5
19	4285	4275	4265
19 1/2	4397.5	4387.5	4377.5
20	4510	4500	4490
20 1/2	4622.5	4612.5	4602.5
21	4735	4725	4715
21 1/2	4847.5	4837.5	4827.5
22	4960	4950	4940
22 1/2	5072.5	5062.5	5052.5
23	5185	5175	5165
23 1/2	5297.5	5287.5	5277.5
24	5410	5400	5390
24 1/2	5522.5	5512.5	5502.5
25	5635	5625	5615
25 1/2	5747.5	5737.5	5727.5
26	5860	5850	5840
26 1/2	5972.5	5962.5	5952.5
27	6085	6075	6065
27 1/2	6197.5	6187.5	6177.5
28	6310	6300	6290
28 1/2	6422.5	6412.5	6402.5
29	6535	6525	6515
29 1/2	6647.5	6637.5	6627.5
30	6760	6750	6740
30 1/2	6872.5	6862.5	6852.5
31	6985	6975	6965
31 1/2	7097.5	7087.5	7077.5
32	7210	7200	7190
32 1/2	7322.5	7312.5	7302.5
33	7435	7425	7415
33 1/2	7547.5	7537.5	7527.5

Number of Bricks	CO + Joint	CO (Coordinating Size)	CO - Joint
34	7660	7650	7640
34 1/2	7772.5	7762.5	7752.5
35	7885	7875	7865
35 1/2	7997.5	7987.5	7977.5
36	8110	8100	8090
36 1/2	8222.5	8212.5	8202.5
37	8335	8325	8315
37 1/2	8447.5	8437.5	8427.5
38	8560	8550	8540
38 1/2	8672.5	8662.5	8652.5
39	8785	8775	8765
39 1/2	8897.5	8887.5	8877.5
40	9010	9000	8990
40 1/2	9122.5	9112.5	9102.5
41	9235	9225	9215
41 1/2	9347.5	9337.5	9327.5
42	9460	9450	9440
42 1/2	9572.5	9562.5	9552.5
43	9685	9675	9665
43 1/2	9797.5	9787.5	9777.5
44	9910	9900	9890
44 1/2	10022.5	10012.5	10002.5
45	10135	10125	10115
45 1/2	10247.5	10237.5	10227.5
46	10360	10350	10340
46 1/2	10472.5	10462.5	10452.5
47	10585	10575	10565
47 1/2	10697.5	10687.5	10677.5
48	10810	10800	10790
48 1/2	10922.5	10912.5	10902.5
49	11035	11025	11015
49 1/2	11147.5	11137.5	11127.5
50	11260	11250	11240
50 1/2	11372.5	11362.5	11352.5
51	11485	11475	11465
51 1/2	11597.5	11587.5	11577.5
52	11710	11700	11690
52 1/2	11822.5	11812.5	11802.5
53	11935	11925	11915
53 1/2	12047.5	12037.5	12027.5
54	12160	12150	12140
54 1/2	12272.5	12262.5	12252.5
55	12385	12375	12365
55 1/2	12497.5	12487.5	12477.5
56	12610	12600	12590
56 1/2	12722.5	12712.5	12702.5
57	12835	12825	12815
57 1/2	12947.5	12937.5	12927.5
58	13060	13050	13040
58 1/2	13172.5	13162.5	13152.5
59	13285	13275	13265
59 1/2	13397.5	13387.5	13377.5
60	13510	13500	13490
60 1/2	13622.5	13612.5	13602.5
61	13735	13725	13715
61 1/2	13847.5	13837.5	13827.5
62	13960	13950	13940
62 1/2	14072.5	14062.5	14052.5
63	14185	14175	14165
63 1/2	14297.5	14287.5	14277.5
64	14410	14400	14390
64 1/2	14522.5	14512.5	14502.5
65	14635	14625	14615
65 1/2	14747.5	14737.5	14727.5
66	14860	14850	14840
66 1/2	14972.5	14962.5	14952.5
67	15085	15075	15065

Number of Bricks	CO + Joint	CO (Coordinating Size)	CO - Joint
67 1/2	15197.5	15187.5	15177.5
68	15310	15300	15290
68 1/2	15422.5	15412.5	15402.5
69	15535	15525	15515
69 1/2	15647.5	15637.5	15627.5
70	15760	15750	15740
70 1/2	15872.5	15862.5	15852.5
71	15985	15975	15965
71 1/2	16097.5	16087.5	16077.5
72	16210	16200	16190
72 1/2	16322.5	16312.5	16302.5
73	16435	16425	16415
73 1/2	16547.5	16537.5	16527.5
74	16660	16650	16640
74 1/2	16772.5	16762.5	16752.5
75	16885	16875	16865
75 1/2	16997.5	16987.5	16977.5
76	17110	17100	17090
76 1/2	17222.5	17212.5	17202.5
77	17335	17325	17315
77 1/2	17447.5	17437.5	17427.5
78	17560	17550	17540
78 1/2	17672.5	17662.5	17652.5
79	17785	17775	17765
79 1/2	17897.5	17887.5	17877.5
80	18010	18000	17990
80 1/2	18122.5	18112.5	18102.5
81	18235	18225	18215
81 1/2	18347.5	18337.5	18327.5
82	18460	18450	18440
82 1/2	18572.5	18562.5	18552.5
83	18685	18675	18665
83 1/2	18797.5	18787.5	18777.5
84	18910	18900	18890
84 1/2	19022.5	19012.5	19002.5
85	19135	19125	19115
85 1/2	19247.5	19237.5	19227.5
86	19360	19350	19340
86 1/2	19472.5	19462.5	19452.5
87	19585	19575	19565
87 1/2	19697.5	19687.5	19677.5
88	19810	19800	19790
88 1/2	19922.5	19912.5	19902.5
89	20035	20025	20015
89 1/2	20147.5	20137.5	20127.5
90	20260	20250	20240
90 1/2	20372.5	20362.5	20352.5
91	20485	20475	20465
91 1/2	20597.5	20587.5	20577.5
92	20710	20700	20690
92 1/2	20822.5	20812.5	20802.5
93	20935	20925	20915
93 1/2	21047.5	21037.5	21027.5
94	21160	21150	21140
94 1/2	21272.5	21262.5	21252.5
95	21385	21375	21365
95 1/2	21497.5	21487.5	21477.5
96	21610	21600	21590
96 1/2	21722.5	21712.5	21702.5
97	21835	21825	21815
97 1/2	21947.5	21937.5	21927.5
98	22060	22050	22040
98 1/2	22172.5	22162.5	22152.5
99	22285	22275	22265
99 1/2	22397.5	22387.5	22377.5
100	22510	22500	22490

Design & specification considerations

Table 2 - Vertical Brickwork Courses Dimensions Table
using **65mm** bricks and 10mm mortar joints

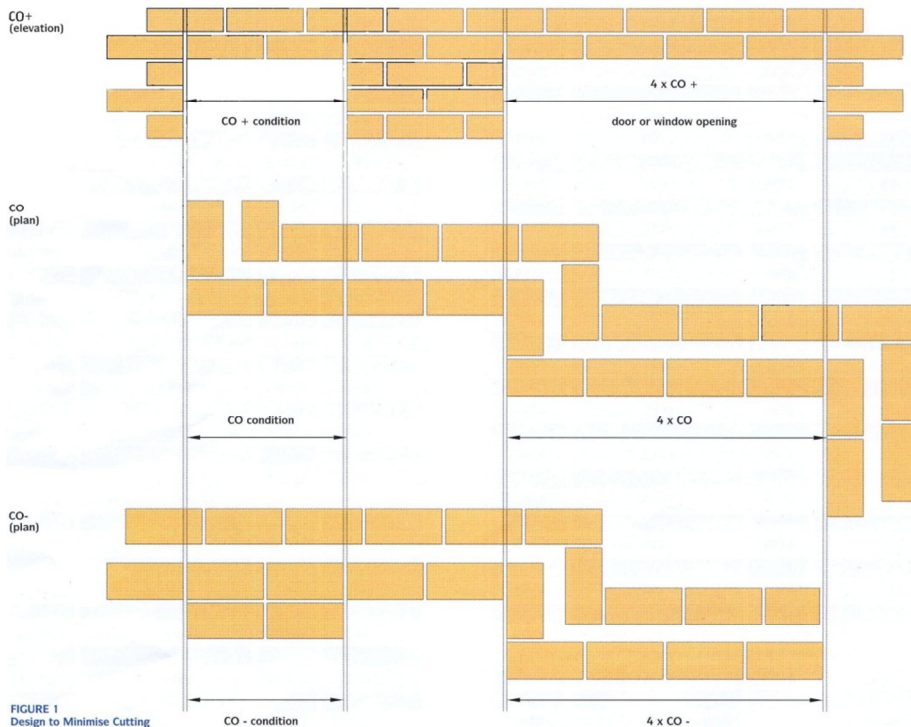
Course & joint	17	1275	34	2550	
1	75	18	1350	35	2625
2	150	19	1425	36	2700
3	225	20	1500	37	2775
4	300	21	1575	38	2850
5	375	22	1650	39	2925
6	450	23	1725	40	3000
7	525	24	1800	41	3075
8	600	25	1875	42	3150
9	675	26	1950	43	3225
10	750	27	2025	44	3300
11	825	28	2100	45	3375
12	900	29	2175	46	3450
13	975	30	2250	47	3525
14	1050	31	2325	48	3600
15	1125	32	2400	49	3675
16	1200	33	2475	50	3750

Table 3 - Vertical Brickwork Courses Dimensions Table
using **73mm** bricks and 10mm mortar joints

Course + Joint	17	1411	34	2822	
1	83	18	1494	35	2905
2	166	19	1577	36	2988
3	249	20	1660	37	3071
4	332	21	1743	38	3154
5	415	22	1826	39	3237
6	498	23	1909	40	3320
7	581	24	1992	41	3403
8	664	25	2075	42	3486
9	747	26	2158	43	3569
10	830	27	2241	44	3652
11	913	28	2324	45	3735
12	996	29	2407	46	3818
13	1079	30	2490	47	3901
14	1162	31	2573	48	3984
15	1245	32	2656	49	4067
16	1328	33	2739	50	4150

All brickwork dimensions are then determined by one of 3 conditions.

1. Brick + 2 joints CO+ e.g. door and window openings
2. Brick + 1 joint CO brick panel with opposite return end
3. Brick only CO- brick piers or panels between openings



For further information or advice regarding this topic please contact Ibstock's Design & Technical Helpline on **0844 800 4576** or email technical@ibstock.co.uk

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