

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	Number of Bricks	CO + Joint	CO (Coordinating Size)	CO - Joint	Number of Bricks	CO + Joint	CO (Coordinating Size)	CO - Joint	
1	1/2	122.5	112.5	102.5	34	7660	7650	7640	67 1/2	15197.5	15187.5	15177.5
1		235	225	215					68	15310	15300	15290
1	1 1/2	347.5	337.5	327.5	35	7885	7875	7865	68 1/2	15422.5	15412.5	15402.5
2		460	450	440					69	15535	15525	15515
2	2 1/2	572.5	562.5	552.5	35 1/2	7997.5	7987.5	7977.5	69 1/2	15647.5	15637.5	15627.5
3		685	675	665	36	8110	8100	8090	70	15760	15750	15740
3	3 1/2	797.5	787.5	777.5					70 1/2	15872.5	15862.5	15852.5
4		910	900	890	36 1/2	8222.5	8212.5	8202.5	71	15985	15975	15965
4	4 1/2	1022.5	1012.5	1002.5	37	8335	8325	8315	71 1/2	16097.5	16087.5	16077.5
5		1135	1125	1115					72	16210	16200	16190
5	5 1/2	1247.5	1237.5	1227.5	38	8560	8550	8540	72 1/2	16322.5	16312.5	16302.5
6		1360	1350	1340	38 1/2	8672.5	8662.5	8652.5	73	16435	16425	16415
6	6 1/2	1472.5	1462.5	1452.5	39	8785	8775	8765	73 1/2	16547.5	16537.5	16527.5
7		1585	1575	1565					74	16660	16650	16640
7	7 1/2	1697.5	1687.5	1677.5	39 1/2	8897.5	8887.5	8877.5	74 1/2	16772.5	16762.5	16752.5
8		1810	1800	1790	40	9010	9000	8990	75	16885	16875	16865
8	8 1/2	1922.5	1912.5	1902.5	40 1/2	9122.5	9112.5	9102.5	75 1/2	16997.5	16987.5	16977.5
9		2035	2025	2015					76	17110	17100	17090
9	9 1/2	2147.5	2137.5	2127.5	41	9235	9225	9215	76 1/2	17222.5	17212.5	17202.5
10		2260	2250	2240	41 1/2	9347.5	9337.5	9327.5	77	17335	17325	17315
10	10 1/2	2372.5	2362.5	2352.5					77 1/2	17447.5	17437.5	17427.5
11		2485	2475	2465	42	9460	9450	9440	78	17560	17550	17540
11	11 1/2	2597.5	2587.5	2577.5	42 1/2	9572.5	9562.5	9552.5	78 1/2	17672.5	17662.5	17652.5
12		2710	2700	2690					79	17785	17775	17765
12	12 1/2	2822.5	2812.5	2802.5	43	9685	9675	9665	79 1/2	17897.5	17887.5	17877.5
13		2935	2925	2915	43 1/2	9797.5	9787.5	9777.5	80	18010	18000	17990
13	13 1/2	3047.5	3037.5	3027.5	44	9910	9900	9890	80 1/2	18122.5	18112.5	18102.5
14		3160	3150	3140					81	18235	18225	18215
14	14 1/2	3272.5	3262.5	3252.5	44 1/2	10022.5	10012.5	10002.5	81 1/2	18347.5	18337.5	18327.5
15		3385	3375	3365	45	10135	10125	10115	82	18460	18450	18440
15	15 1/2	3497.5	3487.5	3477.5	45 1/2	10247.5	10237.5	10227.5	82 1/2	18572.5	18562.5	18552.5
16		3610	3600	3590					83	18685	18675	18665
16	16 1/2	3722.5	3712.5	3702.5	46	10360	10350	10340	83 1/2	18797.5	18787.5	18777.5
17		3835	3825	3815	46 1/2	10472.5	10462.5	10452.5	84	18910	18900	18890
17	17 1/2	3947.5	3937.5	3927.5					84 1/2	19022.5	19012.5	19002.5
18		4060	4050	4040	47	10585	10575	10565	85	19135	19125	19115
18	18 1/2	4172.5	4162.5	4152.5	47 1/2	10697.5	10687.5	10677.5	85 1/2	19247.5	19237.5	19227.5
19		4285	4275	4265					86	19360	19350	19340
19	19 1/2	4397.5	4387.5	4377.5	48	10810	10800	10790	86 1/2	19472.5	19462.5	19452.5
20		4510	4500	4490	48 1/2	10922.5	10912.5	10902.5	87	19585	19575	19565
20	20 1/2	4622.5	4612.5	4602.5					87 1/2	19697.5	19687.5	19677.5
21		4735	4725	4715	49	11035	11025	11015	88	19810	19800	19790
21	21 1/2	4847.5	4837.5	4827.5	49 1/2	11147.5	11137.5	11127.5	88 1/2	19922.5	19912.5	19902.5
22		4960	4950	4940					89	20035	20025	20015
22	22 1/2	5072.5	5062.5	5052.5	50	11260	11250	11240	89 1/2	20147.5	20137.5	20127.5
23		5185	5175	5165	50 1/2	11372.5	11362.5	11352.5	90	20260	20250	20240
23	23 1/2	5297.5	5287.5	5277.5					90 1/2	20372.5	20362.5	20352.5
24		5410	5400	5390	51	11485	11475	11465	91	20485	20475	20465
24	24 1/2	5522.5	5512.5	5502.5	51 1/2	11597.5	11587.5	11577.5	91 1/2	20597.5	20587.5	20577.5
25		5635	5625	5615					92	20710	20700	20690
25	25 1/2	5747.5	5737.5	5727.5	52	11710	11700	11690	92 1/2	20822.5	20812.5	20802.5
26		5860	5850	5840	52 1/2	11822.5	11812.5	11802.5	93	20935	20925	20915
26	26 1/2	5972.5	5962.5	5952.5					93 1/2	21047.5	21037.5	21027.5
27		6085	6075	6065	53	11935	11925	11915	94	21160	21150	21140
27	27 1/2	6197.5	6187.5	6177.5	53 1/2	12047.5	12037.5	12027.5	94 1/2	21272.5	21262.5	21252.5
28		6310	6300	6290					95	21385	21375	21365
28	28 1/2	6422.5	6412.5	6402.5	54	12160	12150	12140	95 1/2	21497.5	21487.5	21477.5
29		6535	6525	6515	54 1/2	12272.5	12262.5	12252.5	96	21610	21600	21590
29	29 1/2	6647.5	6637.5	6627.5					96 1/2	21722.5	21712.5	21702.5
30		6760	6750	6740	55	12385	12375	12365	97	21835	21825	21815
30	30 1/2	6872.5	6862.5	6852.5	55 1/2	12497.5	12487.5	12477.5	97 1/2	21947.5	21937.5	21927.5
31		6985	6975	6965					98	22060	22050	22040
31	31 1/2	7097.5	7087.5	7077.5	56	12610	12600	12590	98 1/2	22172.5	22162.5	22152.5
32		7210	7200	7190	56 1/2	12722.5	12712.5	12702.5	99	22285	22275	22265
32	32 1/2	7322.5	7312.5	7302.5					99 1/2	22397.5	22387.5	22377.5
33		7435	7425	7415	57	12835	12825	12815	100	22510	22500	22490
33	33 1/2	7547.5	7537.5	7527.5	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				

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

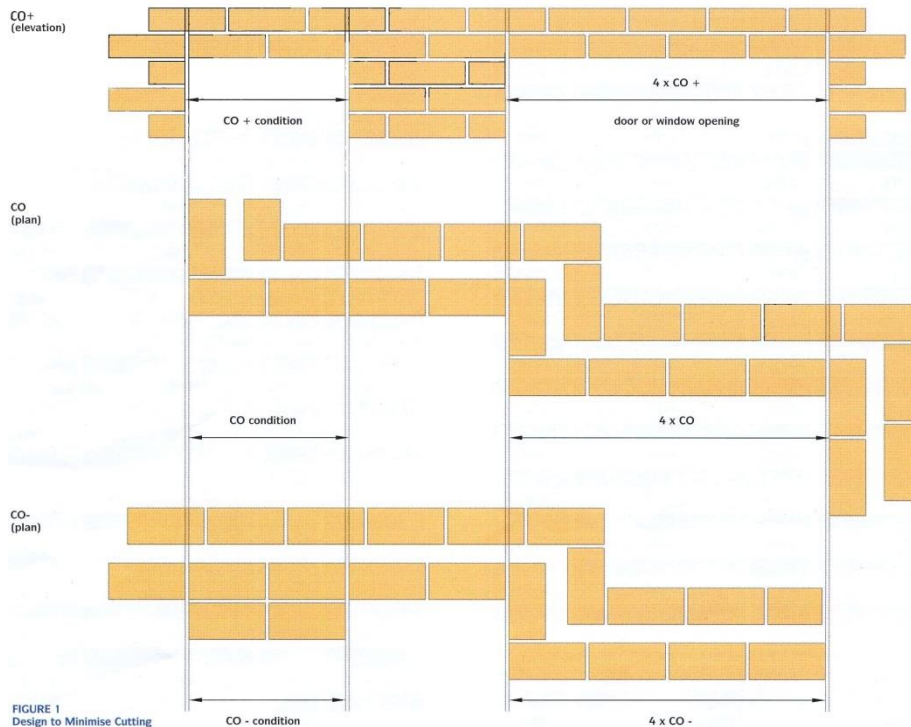
Table 3 - Vertical Brickwork Courses Dimensions Table

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

Although the instructions contained in this publication and any other information published by Ibstock Brick Ltd are believed to be accurate at the date of publication, they are strictly for guidance only and Ibstock Brick Ltd accepts no liability in relation to their use or for any losses, howsoever caused. You are responsible for taking all reasonable steps to ensure your use of the product conforms to all applicable health and safety requirements from time to time. If in doubt, please consult appropriately qualified persons. All products sold by Ibstock are sold subject to Ibstock's Terms and Conditions of Sale, a copy of which is available on request.