

## 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 (Co-ordinating Size)	CO - Joint	Number of Bricks	CO + Joint	CO (Co-ordinating Size)	CO - Joint	Number of Bricks	CO + Joint	CO (Co-ordinating Size)	CO - Joint			
	½	122.5	112.5	102.5										
1		235	225	215	23	22½	5072.5	5062.5	5052.5	45	44½	10022.5	10012.5	10002.5
	1½	347.5	337.5	327.5										
2		460	450	440	24	23½	5297.5	5287.5	5277.5	46	45½	10247.5	10237.5	10227.5
	2½	572.5	562.5	552.5										
3		685	675	665	24½	24½	5522.5	5512.5	5502.5	47	46½	10472.5	10462.5	10452.5
	3½	797.5	787.5	777.5										
4		910	900	890	25	25½	5747.5	5737.5	5727.5	47½	47½	10697.5	10687.5	10677.5
	4½	1022.5	1012.5	1002.5										
5		1135	1125	1115	26	26½	5972.5	5962.5	5952.5	48	48½	10922.5	10912.5	10902.5
	5½	1247.5	1237.5	1227.5										
6		1360	1350	1340	27	27½	6197.5	6187.5	6177.5	49	49½	11147.5	11137.5	11127.5
	6½	1472.5	1462.5	1452.5										
7		1585	1575	1565	28	28½	6422.5	6412.5	6402.5	50	50½	11372.5	11362.5	11352.5
	7½	1697.5	1687.5	1677.5										
8		1810	1800	1790	29	29½	6647.5	6637.5	6627.5	51	51½	11597.5	11587.5	11577.5
	8½	1922.5	1912.5	1902.5										
9		2035	2025	2015	30	30½	6872.5	6862.5	6852.5	52	52½	11822.5	11812.5	11802.5
	9½	2147.5	2137.5	2127.5										
10		2260	2250	2240	31	31½	7097.5	7087.5	7077.5	53	53½	12047.5	12037.5	12027.5
	10½	2372.5	2362.5	2352.5										
11		2485	2475	2465	32	32½	7322.5	7312.5	7302.5	54	54½	12272.5	12262.5	12252.5
	11½	2597.5	2587.5	2577.5										
12		2710	2700	2690	33	33½	7547.5	7537.5	7527.5	55	55½	12497.5	12487.5	12477.5
	12½	2822.5	2812.5	2802.5										
13		2935	2925	2915	34	34½	7772.5	7762.5	7752.5	56	56½	12722.5	12712.5	12702.5
	13½	3047.5	3037.5	3027.5										
14		3160	3150	3140	35	35½	7997.5	7987.5	7977.5	57	57½	12947.5	12937.5	12927.5
	14½	3272.5	3262.5	3252.5										
15		3385	3375	3365	36	36½	8222.5	8212.5	8202.5	58	58½	13172.5	13162.5	13152.5
	15½	3497.5	3487.5	3477.5										
16		3610	3600	3590	37	37½	8447.5	8437.5	8427.5	59	59½	13397.5	13387.5	13377.5
	16½	3722.5	3712.5	3702.5										
17		3835	3825	3815	38	38½	8672.5	8662.5	8652.5	60	60½	13622.5	13612.5	13602.5
	17½	3947.5	3937.5	3927.5										
18		4060	4050	4040	39	39½	8897.5	8887.5	8877.5	61	61½	13847.5	13837.5	13827.5
	18½	4172.5	4162.5	4152.5										
19		4285	4275	4265	40	40½	9122.5	9112.5	9102.5	62	62½	14072.5	14062.5	14052.5
	19½	4397.5	4387.5	4377.5										
20		4510	4500	4490	41	41½	9347.5	9337.5	9327.5	63	63½	14297.5	14287.5	14277.5
	20½	4622.5	4612.5	4602.5										
21		4735	4725	4715	42	42½	9572.5	9562.5	9552.5	64	64½	14522.5	14512.5	14502.5
	21½	4847.5	4837.5	4827.5										
22		4960	4950	4940	43	43½	9797.5	9787.5	9777.5	65	65½	14747.5	14737.5	14727.5
					44	44	9910	9900	9890	66		14860	14850	14840

## DESIGN & SPECIFICATION CONSIDERATIONS

### BRICKWORK DIMENSIONS TABLE – STANDARD BRICK

**TABLE 1 - HORIZONTAL BRICKWORK DIMENSIONS - 215MM BRICKS (Continued)**

Number of Bricks	CO + Joint	CO (Co-ordinating Size)	CO - Joint	Number of Bricks	CO + Joint	CO (Co-ordinating Size)	CO - Joint	Number of Bricks	CO + Joint	CO (Co-ordinating Size)	CO - Joint
66½	14972.5	14962.5	14952.5	78	17560	17550	17540	89½	20147.5	20137.5	20127.5
67	15085	15075	15065	78½	17672.5	17662.5	17652.5	90	20260	20250	20240
67½	15197.5	15187.5	15177.5	79	17785	17775	17765	90½	20372.5	20362.5	20352.5
68	15310	15300	15290	79½	17897.5	17887.5	17877.5	91	20485	20475	20465
68½	15422.5	15412.5	15402.5	80	18010	18000	17990	91½	20597.5	20587.5	20577.5
69	15535	15525	15515	80½	18122.5	18112.5	18102.5	92	20710	20700	20690
69½	15647.5	15637.5	15627.5	81	18235	18225	18215	92½	20822.5	20812.5	20802.5
70	15760	15750	15740	81½	18347.5	18337.5	18327.5	93	20935	20925	20915
70½	15872.5	15862.5	15852.5	82	18460	18450	18440	93½	21047.5	21037.5	21027.5
71	15985	15975	15965	82½	18572.5	18562.5	18552.5	94	21160	21150	21140
71½	16097.5	16087.5	16077.5	83	18685	18675	18665	94½	21272.5	21262.5	21252.5
72	16210	16200	16190	83½	18797.5	18787.5	18777.5	95	21385	21375	21365
72½	16322.5	16312.5	16302.5	84	18910	18900	18890	95½	21497.5	21487.5	21477.5
73	16435	16425	16415	84½	19022.5	19012.5	19002.5	96	21610	21600	21590
73½	16547.5	16537.5	16527.5	85	19135	19125	19115	96½	21722.5	21712.5	21702.5
74	16660	16650	16640	85½	19247.5	19237.5	19227.5	97	21835	21825	21815
74½	16772.5	16762.5	16752.5	86	19360	19350	19340	97½	21947.5	21937.5	21927.5
75	16885	16875	16865	86½	19472.5	19462.5	19452.5	98	22060	22050	22040
75½	16997.5	16987.5	16977.5	87	19585	19575	19565	98½	22172.5	22162.5	22152.5
76	17110	17100	17090	87½	19697.5	19687.5	19677.5	99	22285	22275	22265
76½	17222.5	17212.5	17202.5	88	19810	19800	19790	99½	22397.5	22387.5	22377.5
77	17335	17325	17315	88½	19922.5	19912.5	19902.5	100	22510	22500	22490
77½	17447.5	17437.5	17427.5	89	20035	20025	20015				

**TABLE 2 - VERTICAL BRICKWORK COURSES DIMENSIONS TABLE**

using 65mm bricks and 10mm mortar joints

Course & Joint	Course & Joint	Course & Joint			
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
17	1275	34	2550		

**TABLE 3 - VERTICAL BRICKWORK COURSES DIMENSIONS TABLE**

using 73mm bricks and 10mm mortar joints

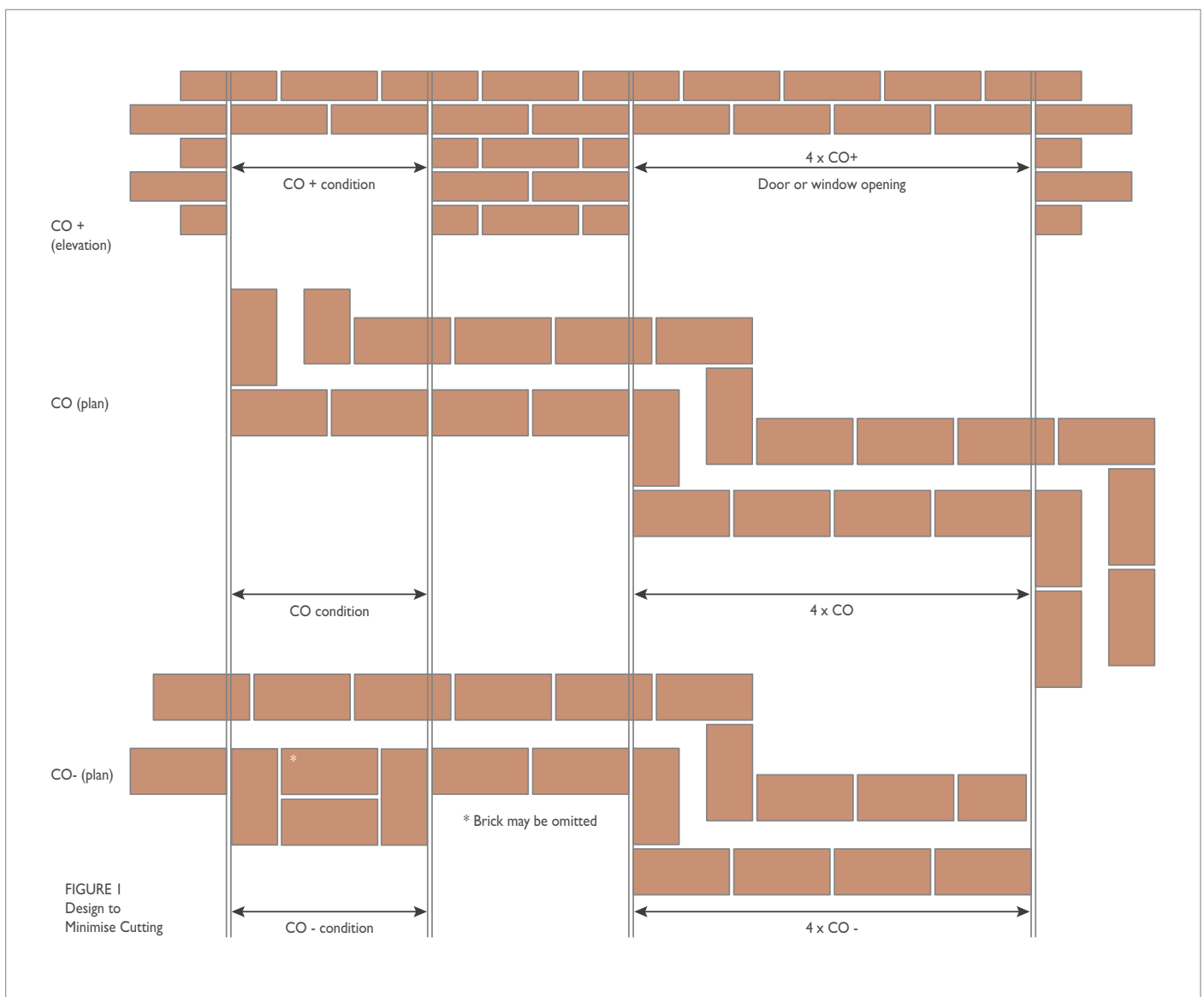
Course & Joint	Course & Joint	Course & Joint			
1	83	18	1494	35	2905
2	166	19	1577	36	2988
3	249	20	1660	37	3071
4	332	21	1743	38	3154
5	415	22	1826	39	3237
6	498	23	1909	40	3320
7	581	24	1992	41	3403
8	664	25	2075	42	3486
9	747	26	2158	43	3569
10	830	27	2241	44	3652
11	913	28	2324	45	3735
12	996	29	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
17	1411	34	2822		

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### BRICKWORK DIMENSIONS TABLE – STANDARD BRICK

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 |



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