

TECHNICAL INFORMATION SHEET 34

BRICKWORK DIMENSIONS TABLES– Larger Formats

Brickwork dimensions should be used whenever possible at the design stage to minimise the need for cut bricks.

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

HORIZONTAL BRICKWORK DIMENSIONS

Table 1 440mm

Number of Bricks	CO + Joint	CO (Coordinating Size)	CO - Joint	
	1/2	235	225	215
1		460	450	440
	1 1/2	685	675	665
2		910	900	890
	2 1/2	1135	1125	1115
3		1360	1350	1340
	3 1/2	1585	1575	1565
4		1810	1800	1790
	4 1/2	2035	2025	2015
5		2260	2250	2240
	5 1/2	2485	2475	2465
6		2710	2700	2690
	6 1/2	2935	2925	2915
7		3160	3150	3140
	7 1/2	3385	3375	3365
8		3610	3600	3590
	8 1/2	3835	3825	3815
9		4060	4050	4040
	9 1/2	4285	4275	4265
10		4510	4500	4490
	10 1/2	4735	4725	4715
11		4960	4950	4940
	11 1/2	5185	5175	5165
12		5410	5400	5390
	12 1/2	5635	5625	5615
13		5860	5850	5840
	13 1/2	6085	6075	6065
14		6310	6300	6290
	14 1/2	6535	6525	6525
15		6760	6750	6740
	15 1/2	6985	6975	6975
16		7210	7200	7190
	16 1/2	7435	7425	7415
17		7660	7650	7640
	17 1/2	7885	7875	7865
18		8110	8100	8090
	18 1/2	8335	8325	8315
19		8560	8550	8540
	19 1/2	8785	8775	8765
20		9010	9000	8990
	20 1/2	9235	9225	9215
21		9460	9450	9440
	21 1/2	9685	9675	9665
22		9910	9900	9890
	22 1/2	10135	10125	10115
23		10360	10350	10340
	23 1/2	10585	10575	10565
24		10810	10800	10790
	24 1/2	11035	11025	11015
25		11260	11250	11240
	25 1/2	11485	11475	11465
26		11710	11700	11690
	26 1/2	11935	11925	11915
27		12160	12150	12140
	27 1/2	12385	12375	12365
28		12610	12600	12590
	28 1/2	12835	12825	12815
29		13060	13050	13040
	29 1/2	13285	13275	13265
30		13510	13500	13490
	30 1/2	13735	13725	13715
31		13960	13950	13940
	31 1/2	14185	14175	14165
32		14410	14400	14390
	32 1/2	14635	14625	14615
33		14860	14850	14840
	33 1/2	15085	15075	15065
34		15310	15300	15290
	34 1/2	15535	15525	15515
35		15760	15750	15740

Table 2 327.5mm

Number of Bricks	CO + Joint	CO (Coordinating Size)	CO - Joint	
	1/2	178.75	168.75	158.75
1		347.5	337.5	327.5
	1 1/2	516.25	506.25	496.25
2		685	675	665
	2 1/2	853.75	843.75	833.75
3		1022.5	1012.5	1002.5
	3 1/2	1191.25	1181.25	1171.25
4		1360	1350	1340
	4 1/2	1528.75	1518.75	1508.75
5		1697.5	1687.5	1677.5
	5 1/2	1866.25	1856.25	1846.25
6		2035	2025	2015
	6 1/2	2203.75	2193.75	2183.75
7		2372.5	2362.5	2352.5
	7 1/2	2541.25	2531.25	2521.25
8		2710	2700	2690
	8 1/2	2878.75	2868.75	2858.75
9		3047.5	3037.5	3027.5
	9 1/2	3216.25	3206.25	3196.25
10		3385	3375	3365
	10 1/2	3553.75	3543.75	3533.75
11		3722.5	3712.5	3702.5
	11 1/2	3891.25	3881.25	3871.25
12		4060	4050	4040
	12 1/2	4228.75	4218.75	4208.75
13		4397.5	4387.5	4377.5
	13 1/2	4566.25	4556.25	4546.25
14		4735	4725	4715
	14 1/2	4903.75	4893.75	4883.75
15		5072.5	5062.5	5052.5
	15 1/2	5241.25	5231.25	5221.25
16		5410	5400	5390
	16 1/2	5578.75	5568.75	5558.75
17		5747.5	5737.5	5727.5
	17 1/2	5916.25	5906.25	5896.25
18		6085	6075	6065
	18 1/2	6253.75	6243.75	6233.75
19		6422.5	6412.5	6402.5
	19 1/2	6591.25	6581.25	6571.25
20		6760	6750	6740
	20 1/2	6928.75	6918.75	6908.75
21		7097.5	7087.5	7077.5
	21 1/2	7266.25	7256.25	7246.25
22		7435	7425	7415
	22 1/2	7603.75	7593.75	7583.75
23		7772.5	7762.5	7752.5
	23 1/2	7941.25	7931.25	7921.25
24		8110	8100	8090
	24 1/2	8278.75	8268.75	8258.75
25		8447.5	8437.5	8427.5
	25 1/2	8616.25	8606.25	8596.25
26		8785	8775	8765
	26 1/2	8953.75	8943.75	8933.75
27		9122.5	9112.5	9102.5
	27 1/2	9291.25	9281.25	9271.25
28		9460	9450	9440
	28 1/2	9628.75	9618.75	9608.75
29		9797.5	9787.5	9777.5
	29 1/2	9966.25	9956.25	9946.25
30		10135	10125	10115
	30 1/2	10303.75	10293.75	10283.75
31		10472.5	10462.5	10452.5
	31 1/2	10641.25	10631.25	10621.25
32		10810	10800	10790
	32 1/2	10978.75	10968.75	10958.75
33		11147.5	11137.5	11127.5
	33 1/2	11316.25	11306.25	11296.25
34		11485	11475	11465
	34 1/2	11653.75	11643.75	11633.75
35		11822.5	11812.5	11802.5

Table 3 290mm

Number of Bricks	CO + Joint	CO (Coordinating Size)	CO - Joint	
	1/2	160	150	140
1		310	300	290
	1 1/2	460	450	440
2		610	600	590
	2 1/2	760	750	740
3		910	900	890
	3 1/2	1060	1050	1040
4		1210	1200	1190
	4 1/2	1360	1350	1340
5		1510	1500	1490
	5 1/2	1660	1650	1640
6		1810	1800	1790
	6 1/2	1960	1950	1940
7		2110	2100	2090
	7 1/2	2260	2250	2240
8		2410	2400	2390
	8 1/2	2560	2550	2540
9		2710	2700	2690
	9 1/2	2860	2850	2840
10		3010	3000	2990
	10 1/2	3160	3150	3140
11		3310	3300	3290
	11 1/2	3460	3450	3440
12		3610	3600	3590
	12 1/2	3760	3750	3740
13		3910	3900	3890
	13 1/2	4060	4050	4040
14		4210	4200	4190
	14 1/2	4360	4350	4340
15		4510	4500	4490
	15 1/2	4660	4650	4640
16		4810	4800	4790
	16 1/2	4960	4950	4940
17		5110	5100	5090
	17 1/2	5260	5250	5240
18		5410	5400	5390
	18 1/2	5560	5550	5540
19		5710	5700	5690
	19 1/2	5860	5850	5840
20		6010	6000	5990
	20 1/2	6160	6150	6140
21		6310	6300	6290
	21 1/2	6460	6450	6440
22		6610	6600	6590
	22 1/2	6760	6750	6740
23		6910	6900	6890
	23 1/2	7060	7050	7040
24		7210	7200	7190
	24 1/2	7360	7350	7340
25		7510	7500	7490
	25 1/2	7660	7650	7640
26		7810	7800	7790
	26 1/2	7960	7950	7940
27		8110	8100	8090
	27 1/2	8260	8250	8240
28		8410	8400	8390
	28 1/2	8560	8550	8540
29		8710	8700	8690
	29 1/2	8860	8850	8840
30		9010	9000	8990
	30 1/2	9160	9150	9140
31		9310	9300	9290
	31 1/2	9460	9450	9440
32		9610	9600	9590
	32 1/2	9760	9750	9740
33		9910	9900	9890
	33 1/2	10060	10050	10040
34		10210	10200	10190
	34 1/2	10360	10350	10340
35		10510	10500	10490

BRICKWORK DIMENSIONS TABLES – Larger Formats (continued)

Vertical brickwork courses for 50mm, 65mm, 140mm and 215mm including a nominal 10mm mortar joint.

Table 4 - Vertical Brickwork Courses Dimensions Table

using **50mm** bricks and 10mm mortar joints

Course + Joint		17	1020		34	2040
1	60	18	1080		35	2100
2	120	19	1140		36	2160
3	180	20	1200		37	2220
4	240	21	1260		38	2280
5	300	22	1320		39	2340
6	360	23	1380		40	2400
7	420	24	1440		41	2460
8	480	25	1500		42	2520
9	540	26	1560		43	2580
10	600	27	1620		44	2640
11	660	28	1680		45	2700
12	720	29	1740		46	2760
13	780	30	1800		47	2820
14	840	31	1860		48	2880
15	900	32	1920		49	2940
16	960	33	1980		50	3000

Table 5 - 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 6 - Vertical Brickwork Courses Dimensions Table

using **140mm** bricks and 10mm mortar joints

Course & joint		17	2550		34	5100
1	150	18	2700		35	5250
2	300	19	2850		36	5400
3	450	20	3000		37	5550
4	600	21	3150		38	5700
5	750	22	3300		39	5850
6	900	23	3450		40	6000
7	1050	24	3600		41	6150
8	1200	25	3750		42	6300
9	1350	26	3900		43	6450
10	1500	27	4050		44	6600
11	1650	28	4200		45	6750
12	1800	29	4350		46	6900
13	1950	30	4500		47	7050
14	2100	31	4650		48	7200
15	2250	32	4800		49	7350
16	2400	33	4950		50	7500

Table 7 - Vertical Brickwork Courses Dimensions Table

using **215mm** bricks and 10mm mortar joints

Course + Joint		17	3825		34	7650
1	225	18	4050		35	7875
2	450	19	4275		36	8100
3	675	20	4500		37	8325
4	900	21	4725		38	8550
5	1125	22	4950		39	8775
6	1350	23	5175		40	9000
7	1575	24	5400		41	9225
8	1800	25	5625		42	9450
9	2025	26	5850		43	9675
10	2250	27	6075		44	9900
11	2475	28	6300		45	10125
12	2700	29	6525		46	10350
13	2925	30	6750		47	10575
14	3150	31	6975		48	10800
15	3375	32	7200		49	11025
16	3600	33	7425		50	11250

For further help and advice contact the Design & Technical Helpline on **0844 800 4576** or email technical@ibstock.co.uk

Issue 2 Jan 2010