



# DESIGN & SPECIFICATION CONSIDERATIONS

## 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 I - 440MM

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	235	225	215		11½	5185	5175	5165		22½	10135	10125	10115
1		460	450	440	12		5410	5400	5390	23		10360	10350	10340
	1½	685	675	665		12½	5635	5625	5615		23½	10585	10575	10565
2		910	900	890	13		5860	5850	5840	24		10810	10800	10790
	2½	1135	1125	1115		13½	6085	6075	6065		24½	11035	11025	11015
3		1360	1350	1340	14		6310	6300	6290	25		11260	11250	11240
	3½	1585	1575	1565		14½	6535	6525	6525		25½	11485	11475	11465
4		1810	1800	1790	15		6760	6750	6740	26		11710	11700	11690
	4½	2035	2025	2015		15½	6985	6975	6975		26½	11935	11925	11915
5		2260	2250	2240	16		7210	7200	7190	27		12160	12150	12140
	5½	2485	2475	2465		16½	7435	7425	7415		27½	12385	12375	12365
6		2710	2700	2690	17		7660	7650	7640	28		12610	12600	12590
	6½	2935	2925	2915		17½	7885	7875	7865		28½	12835	12825	12815
7		3160	3150	3140	18		8110	8100	8090	29		13060	13050	13040
	7½	3385	3375	3365		18½	8335	8325	8315		29½	13285	13275	13265
8		3610	3600	3590	19		8560	8550	8540	30		13510	13500	13490
	8½	3835	3825	3815		19½	8785	8775	8765		30½	13735	13725	13715
9		4060	4050	4040	20		9010	9000	8990	31		13960	13950	13940
	9½	4285	4275	4265		20½	9235	9225	9215		31½	14185	14175	14165
10		4510	4500	4490	21		9460	9450	9440	32		14410	14400	14390
	10½	4735	4725	4715		21½	9685	9675	9665		32½	14635	14625	14615
11		4960	4950	4940	22		9910	9900	9890	33		14860	14850	14840



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## BRICKWORK DIMENSIONS TABLES – LARGER FORMATS

HORIZONTAL BRICKWORK DIMENSIONS TABLE 2 - 327.5MM

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			
1	½	178.75	168.75	158.75	12	11½	3891.25	3881.25	3871.25	23	22½	7603.75	7593.75	7583.75
		347.5	337.5	327.5			4060	4050	4040			7772.5	7762.5	7752.5
2	1½	516.25	506.25	496.25	13	12½	4228.75	4218.75	4208.75	24	23½	7941.25	7931.25	7921.25
		685	675	665			4397.5	4387.5	4377.5			8110	8100	8090
3	2½	853.75	843.75	833.75	14	13½	4566.25	4556.25	4546.25	25	24½	8278.75	8268.75	8258.75
		1022.5	1012.5	1002.5			4735	4725	4715			8447.5	8437.5	8427.5
4	3½	1191.25	1181.25	1171.25	15	14½	4903.75	4893.75	4883.75	26	25½	8616.25	8606.25	8596.25
		1360	1350	1340			5072.5	5062.5	5052.5			8785	8775	8765
5	4½	1528.75	1518.75	1508.75	16	15½	5241.25	5231.25	5221.25	27	26½	8953.75	8943.75	8933.75
		1697.5	1687.5	1677.5			5410	5400	5390			9122.5	9112.5	9102.5
6	5½	1866.25	1856.25	1846.25	17	16½	5578.75	5568.75	5558.75	28	27½	9291.25	9281.25	9271.25
		2035	2025	2015			5747.5	5737.5	5727.5			9460	9450	9440
7	6½	2203.75	2193.75	2183.75	18	17½	5916.25	5906.25	5896.25	29	28½	9628.75	9618.75	9608.75
		2372.5	2362.5	2352.5			6085	6075	6065			9797.5	9787.5	9777.5
8	7½	2541.25	2531.25	2521.25	19	18½	6253.75	6243.75	6233.75	30	29½	9966.25	9956.25	9946.25
		2710	2700	2690			6422.5	6412.5	6402.5			10135	10125	10115
9	8½	2878.75	2868.75	2858.75	20	19½	6591.25	6581.25	6571.25	31	30½	10303.75	10293.75	10283.75
		3047.5	3037.5	3027.5			6760	6750	6740			10472.5	10462.5	10452.5
10	9½	3216.25	3206.25	3196.25	21	20½	6928.75	6918.75	6908.75	32	31½	10641.25	10631.25	10621.25
		3385	3375	3365			7097.5	7087.5	7077.5			10810	10800	10790
11	10½	3553.75	3543.75	3533.75	22	21½	7266.25	7256.25	7246.25	33	32½	10978.75	10968.75	10958.75
		3722.5	3712.5	3702.5			7435	7425	7415			11147.5	11137.5	11127.5

HORIZONTAL BRICKWORK DIMENSIONS TABLE 3 - 290MM

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			
1	½	160	150	140	12	11½	3460	3450	3440	23	22½	6760	6750	6740
		310	300	290			3610	3600	3590			6910	6900	6890
2	1½	460	450	440	13	12½	3760	3750	3740	24	23½	7060	7050	7040
		610	600	590			3910	3900	3890			7210	7200	7190
3	2½	760	750	740	14	13½	4060	4050	4040	25	24½	7360	7350	7340
		910	900	890			4210	4200	4190			7510	7500	7490
4	3½	1060	1050	1040	15	14½	4360	4350	4340	26	25½	7660	7650	7640
		1210	1200	1190			4510	4500	4490			7810	7800	7790
5	4½	1360	1350	1340	16	15½	4660	4650	4640	27	26½	7960	7950	7940
		1510	1500	1490			4810	4800	4790			8110	8100	8090
6	5½	1660	1650	1640	17	16½	4960	4950	4940	28	27½	8260	8250	8240
		1810	1800	1790			5110	5100	5090			8410	8400	8390
7	6½	1960	1950	1940	18	17½	5260	5250	5240	29	28½	8560	8550	8540
		2110	2100	2090			5410	5400	5390			8710	8700	8690
8	7½	2260	2250	2240	19	18½	5560	5550	5540	30	29½	8860	8850	8840
		2410	2400	2390			5710	5700	5690			9010	9000	8990
9	8½	2560	2550	2540	20	19½	5860	5850	5840	31	30½	9160	9150	9140
		2710	2700	2690			6010	6000	5990			9310	9300	9290
10	9½	2860	2850	2840	21	20½	6160	6150	6140	32	31½	9460	9450	9440
		3010	3000	2990			6310	6300	6290			9610	9600	9590
11	10½	3160	3150	3140	22	21½	6460	6450	6440	33	32½	9760	9750	9740
		3310	3300	3290			6610	6600	6590			9910	9900	9890



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## BRICKWORK DIMENSIONS TABLES – LARGER FORMATS

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		Course & Joint		Course & Joint	
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
17	1020	34	2040		

**TABLE 5 - 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 6 - VERTICAL BRICKWORK COURSES DIMENSIONS TABLE**

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

Course & Joint		Course & Joint		Course & Joint	
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
17	2550	34	5100		

**TABLE 7 - VERTICAL BRICKWORK COURSES DIMENSIONS TABLE**

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

Course & Joint		Course & Joint		Course & Joint	
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
17	3825	34	7650		

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