

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 |

DESIGN & SPECIFICATION CONSIDERATIONS

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 |
| 1 | | 347.5 | 337.5 | 327.5 | 12 | | 4060 | 4050 | 4040 | 23 | | 7772.5 | 7762.5 | 7752.5 |
| 2 | 1½ | 516.25 | 506.25 | 496.25 | | 12½ | 4228.75 | 4218.75 | 4208.75 | 24 | 23½ | 7941.25 | 7931.25 | 7921.25 |
| 2 | | 685 | 675 | 665 | 13 | | 4397.5 | 4387.5 | 4377.5 | 24 | | 8110 | 8100 | 8090 |
| 3 | 2½ | 853.75 | 843.75 | 833.75 | | 13½ | 4566.25 | 4556.25 | 4546.25 | 25 | 24½ | 8278.75 | 8268.75 | 8258.75 |
| 3 | | 1022.5 | 1012.5 | 1002.5 | 14 | | 4735 | 4725 | 4715 | 25 | | 8447.5 | 8437.5 | 8427.5 |
| 4 | 3½ | 1191.25 | 1181.25 | 1171.25 | | 14½ | 4903.75 | 4893.75 | 4883.75 | 26 | 25½ | 8616.25 | 8606.25 | 8596.25 |
| 4 | | 1360 | 1350 | 1340 | 15 | | 5072.5 | 5062.5 | 5052.5 | 26 | | 8785 | 8775 | 8765 |
| 5 | 4½ | 1528.75 | 1518.75 | 1508.75 | | 15½ | 5241.25 | 5231.25 | 5221.25 | 27 | 26½ | 8953.75 | 8943.75 | 8933.75 |
| 5 | | 1697.5 | 1687.5 | 1677.5 | 16 | | 5410 | 5400 | 5390 | 27 | | 9122.5 | 9112.5 | 9102.5 |
| 6 | 5½ | 1866.25 | 1856.25 | 1846.25 | | 16½ | 5578.75 | 5568.75 | 5558.75 | 28 | 27½ | 9291.25 | 9281.25 | 9271.25 |
| 6 | | 2035 | 2025 | 2015 | 17 | | 5747.5 | 5737.5 | 5727.5 | 28 | | 9460 | 9450 | 9440 |
| 7 | 6½ | 2203.75 | 2193.75 | 2183.75 | | 17½ | 5916.25 | 5906.25 | 5896.25 | 29 | 28½ | 9628.75 | 9618.75 | 9608.75 |
| 7 | | 2372.5 | 2362.5 | 2352.5 | 18 | | 6085 | 6075 | 6065 | 29 | | 9797.5 | 9787.5 | 9777.5 |
| 8 | 7½ | 2541.25 | 2531.25 | 2521.25 | | 18½ | 6253.75 | 6243.75 | 6233.75 | 30 | 29½ | 9966.25 | 9956.25 | 9946.25 |
| 8 | | 2710 | 2700 | 2690 | 19 | | 6422.5 | 6412.5 | 6402.5 | 30 | | 10135 | 10125 | 10115 |
| 9 | 8½ | 2878.75 | 2868.75 | 2858.75 | | 19½ | 6591.25 | 6581.25 | 6571.25 | 31 | 30½ | 10303.75 | 10293.75 | 10283.75 |
| 9 | | 3047.5 | 3037.5 | 3027.5 | 20 | | 6760 | 6750 | 6740 | 31 | | 10472.5 | 10462.5 | 10452.5 |
| 10 | 9½ | 3216.25 | 3206.25 | 3196.25 | | 20½ | 6928.75 | 6918.75 | 6908.75 | 32 | 31½ | 10641.25 | 10631.25 | 10621.25 |
| 10 | | 3385 | 3375 | 3365 | 21 | | 7097.5 | 7087.5 | 7077.5 | 32 | | 10810 | 10800 | 10790 |
| 11 | 10½ | 3553.75 | 3543.75 | 3533.75 | | 21½ | 7266.25 | 7256.25 | 7246.25 | 33 | 32½ | 10978.75 | 10968.75 | 10958.75 |
| 11 | | 3722.5 | 3712.5 | 3702.5 | 22 | | 7435 | 7425 | 7415 | 33 | | 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 |
| 1 | | 310 | 300 | 290 | 12 | | 3610 | 3600 | 3590 | 23 | | 6910 | 6900 | 6890 |
| 2 | 1½ | 460 | 450 | 440 | | 12½ | 3760 | 3750 | 3740 | 24 | 23½ | 7060 | 7050 | 7040 |
| 2 | | 610 | 600 | 590 | 13 | | 3910 | 3900 | 3890 | 24 | | 7210 | 7200 | 7190 |
| 3 | 2½ | 760 | 750 | 740 | | 13½ | 4060 | 4050 | 4040 | 25 | 24½ | 7360 | 7350 | 7340 |
| 3 | | 910 | 900 | 890 | 14 | | 4210 | 4200 | 4190 | 25 | | 7510 | 7500 | 7490 |
| 4 | 3½ | 1060 | 1050 | 1040 | | 14½ | 4360 | 4350 | 4340 | 26 | 25½ | 7660 | 7650 | 7640 |
| 4 | | 1210 | 1200 | 1190 | 15 | | 4510 | 4500 | 4490 | 26 | | 7810 | 7800 | 7790 |
| 5 | 4½ | 1360 | 1350 | 1340 | | 15½ | 4660 | 4650 | 4640 | 27 | 26½ | 7960 | 7950 | 7940 |
| 5 | | 1510 | 1500 | 1490 | 16 | | 4810 | 4800 | 4790 | 27 | | 8110 | 8100 | 8090 |
| 6 | 5½ | 1660 | 1650 | 1640 | | 16½ | 4960 | 4950 | 4940 | 28 | 27½ | 8260 | 8250 | 8240 |
| 6 | | 1810 | 1800 | 1790 | 17 | | 5110 | 5100 | 5090 | 28 | | 8410 | 8400 | 8390 |
| 7 | 6½ | 1960 | 1950 | 1940 | | 17½ | 5260 | 5250 | 5240 | 29 | 28½ | 8560 | 8550 | 8540 |
| 7 | | 2110 | 2100 | 2090 | 18 | | 5410 | 5400 | 5390 | 29 | | 8710 | 8700 | 8690 |
| 8 | 7½ | 2260 | 2250 | 2240 | | 18½ | 5560 | 5550 | 5540 | 30 | 29½ | 8860 | 8850 | 8840 |
| 8 | | 2410 | 2400 | 2390 | 19 | | 5710 | 5700 | 5690 | 30 | | 9010 | 9000 | 8990 |
| 9 | 8½ | 2560 | 2550 | 2540 | | 19½ | 5860 | 5850 | 5840 | 31 | 30½ | 9160 | 9150 | 9140 |
| 9 | | 2710 | 2700 | 2690 | 20 | | 6010 | 6000 | 5990 | 31 | | 9310 | 9300 | 9290 |
| 10 | 9½ | 2860 | 2850 | 2840 | | 20½ | 6160 | 6150 | 6140 | 32 | 31½ | 9460 | 9450 | 9440 |
| 10 | | 3010 | 3000 | 2990 | 21 | | 6310 | 6300 | 6290 | 32 | | 9610 | 9600 | 9590 |
| 11 | 10½ | 3160 | 3150 | 3140 | | 21½ | 6460 | 6450 | 6440 | 33 | 32½ | 9760 | 9750 | 9740 |
| 11 | | 3310 | 3300 | 3290 | 22 | | 6610 | 6600 | 6590 | 33 | | 9910 | 9900 | 9890 |

DESIGN & SPECIFICATION CONSIDERATIONS

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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