



Ring Combinations

6 Inch Lining - Rotary Kiln or Cupola Blocks
9 x 6 x 4 Inch --- 6 Inch Lining

| Diam. Inside Brickwork | | Number Required Per Ring | | |
|---------------------------|----|--------------------------|---------------|-------|
| Ft | In | | | Total |
| | | 54-66 | 60-72 | |
| 4 | 6 | 23 | - | 23 |
| 4 | 7 | 20 | 4 | 24 |
| 4 | 8 | 15 | 9 | 24 |
| 4 | 9 | 11 | 13 | 24 |
| 4 | 10 | 8 | 17 | 25 |
| 4 | 11 | 4 | 21 | 25 |
| | | 60-72 | 66-78 | |
| 5 | 0 | 26 | - | |
| 5 | 1 | 21 | 5 | 26 |
| 5 | 2 | 17 | 9 | 26 |
| 5 | 3 | 13 | 14 | 27 |
| 5 | 4 | 9 | 18 | 27 |
| 5 | 5 | 4 | 23 | 27 |
| | | 66-78 | 72-84 | |
| 5 | 6 | 28 | - | 28 |
| 5 | 7 | 23 | 5 | 28 |
| 5 | 8 | 18 | 10 | 28 |
| 5 | 9 | 14 | 15 | 29 |
| 5 | 10 | 9 | 20 | 29 |
| 5 | 11 | 5 | 24 | 29 |
| | | 72-84 | 78-90 | |
| 6 | 0 | 30 | - | 30 |
| 6 | 1 | 25 | 5 | 30 |
| 6 | 2 | 20 | 10 | 30 |
| 6 | 3 | 15 | 16 | 31 |
| 6 | 4 | 10 | 21 | 31 |
| 6 | 5 | 5 | 26 | 31 |
| | | 78-90 | 84-96 | |
| 6 | 6 | 32 | - | 32 |
| 6 | 7 | 26 | 6 | 32 |
| 6 | 8 | 21 | 12 | 33 |
| 6 | 9 | 16 | 17 | 33 |
| 6 | 10 | 11 | 22 | 33 |
| 6 | 11 | 6 | 28 | 34 |
| | | 84-96 | 90-102 | |
| 7 | 0 | 34 | - | 34 |
| 7 | 1 | 28 | 6 | 34 |
| 7 | 2 | 23 | 12 | 35 |
| 7 | 3 | 17 | 18 | 35 |
| 7 | 4 | 11 | 24 | 35 |
| 7 | 5 | 6 | 30 | 36 |
| | | 90-102 | 96-108 | |
| 7 | 6 | 36 | - | 36 |
| 7 | 7 | 30 | 6 | 36 |
| 7 | 8 | 24 | 13 | 37 |
| 7 | 9 | 18 | 19 | 37 |
| 7 | 10 | 12 | 25 | 37 |
| 7 | 11 | 6 | 32 | 38 |

| | | | | |
|----|----|----------------|----------------|----|
| 8 | 0 | 96-108 | 102-114 | |
| 8 | 1 | 38 | - | 38 |
| 8 | 2 | 31 | 7 | 38 |
| 8 | 3 | 25 | 14 | 39 |
| 8 | 4 | 19 | 20 | 39 |
| 8 | 5 | 13 | 26 | 39 |
| 8 | 5 | 7 | 33 | 40 |
| | | 102-114 | 108-120 | |
| 8 | 6 | 40 | - | 40 |
| 8 | 7 | 34 | 7 | 41 |
| 8 | 8 | 27 | 14 | 41 |
| 8 | 9 | 20 | 21 | 41 |
| 8 | 10 | 14 | 28 | 42 |
| 8 | 11 | 7 | 35 | 42 |
| | | 108-120 | 114-126 | |
| 9 | 0 | 42 | - | 42 |
| 9 | 1 | 35 | 8 | 43 |
| 9 | 2 | 28 | 15 | 43 |
| 9 | 3 | 21 | 22 | 43 |
| 9 | 4 | 14 | 30 | 44 |
| 9 | 5 | 7 | 37 | 44 |
| | | 114-126 | 120-132 | |
| 9 | 6 | 44 | - | 44 |
| 9 | 7 | 37 | 8 | 45 |
| 9 | 8 | 29 | 16 | 45 |
| 9 | 9 | 22 | 23 | 45 |
| 9 | 10 | 15 | 31 | 46 |
| 9 | 11 | 7 | 39 | 46 |
| | | 120-132 | 123-135 | |
| 10 | 0 | 46 | - | 46 |
| 10 | 1 | 31 | 16 | 47 |
| 10 | 2 | 15 | 32 | 47 |
| | | 123-135 | 126-138 | |
| 10 | 3 | 48 | - | 48 |
| 10 | 4 | 32 | 16 | 48 |
| 10 | 5 | 16 | 32 | 48 |
| | | 126-138 | 132-144 | |
| 10 | 6 | 49 | - | 49 |
| 10 | 7 | 40 | 9 | 49 |
| 10 | 8 | 32 | 17 | 49 |
| 10 | 9 | 24 | 26 | 50 |
| 10 | 10 | 16 | 34 | 50 |
| 10 | 11 | 8 | 42 | 50 |
| | | 132-144 | 138-150 | |
| 11 | 0 | 51 | - | 51 |
| 11 | 1 | 42 | 9 | 51 |
| 11 | 2 | 34 | 17 | 51 |
| 11 | 3 | 25 | 27 | 52 |
| 11 | 4 | 17 | 35 | 52 |
| 11 | 5 | 8 | 44 | 52 |
| | | 138-150 | 144-156 | |
| 11 | 6 | 53 | - | 53 |
| 11 | 7 | 44 | 9 | 53 |
| 11 | 8 | 35 | 18 | 53 |
| 11 | 9 | 26 | 28 | 54 |
| 11 | 10 | 18 | 36 | 54 |
| 11 | 11 | 9 | 46 | 55 |
| | | 144-156 | 150-162 | |
| 12 | 0 | 55 | - | 55 |
| 12 | 1 | 45 | 10 | 55 |
| 12 | 2 | 37 | 19 | 56 |
| 12 | 3 | 27 | 29 | 56 |
| 12 | 4 | 18 | 38 | 56 |
| 12 | 5 | 9 | 48 | 57 |

| | | | | |
|----|----|----------------|----------------|----|
| | | 150-162 | 156-168 | |
| 12 | 6 | 57 | - | 57 |
| 12 | 7 | 47 | 10 | 57 |
| 12 | 8 | 38 | 20 | 58 |
| 12 | 9 | 28 | 30 | 58 |
| 12 | 10 | 19 | 39 | 58 |
| 12 | 11 | 10 | 49 | 59 |
| | | 156-168 | 162-174 | |
| 13 | 0 | 59 | - | 59 |
| 13 | 1 | 49 | 10 | 59 |
| 13 | 2 | 39 | 21 | 60 |
| 13 | 3 | 29 | 31 | 60 |
| 13 | 4 | 20 | 40 | 60 |
| 13 | 5 | 10 | 51 | 61 |
| | | 162-174 | 168-180 | |
| 13 | 6 | 61 | - | 61 |
| 13 | 7 | 51 | 10 | 61 |
| 13 | 8 | 41 | 21 | 62 |
| 13 | 9 | 30 | 32 | 62 |
| 13 | 10 | 21 | 42 | 63 |
| 13 | 11 | 10 | 53 | 63 |
| | | 168-180 | 174-186 | |
| 14 | 0 | 63 | - | 63 |
| 14 | 1 | 53 | 11 | 64 |
| 14 | 2 | 42 | 22 | 64 |
| 14 | 3 | 31 | 33 | 64 |
| 14 | 4 | 21 | 44 | 65 |
| 14 | 5 | 11 | 54 | 65 |
| | | 174-186 | 180-192 | |
| 14 | 6 | 65 | - | 65 |
| 14 | 7 | 54 | 12 | 66 |
| 14 | 8 | 43 | 23 | 66 |
| 14 | 9 | 32 | 34 | 66 |
| 14 | 10 | 22 | 45 | 67 |
| 14 | 11 | 11 | 56 | 67 |
| | | 180-192 | 186-198 | |
| 15 | 0 | 67 | - | 67 |
| 15 | 1 | 56 | 12 | 68 |
| 15 | 2 | 45 | 23 | 68 |
| 15 | 3 | 33 | 35 | 68 |
| 15 | 4 | 23 | 46 | 69 |
| 15 | 5 | 11 | 58 | 69 |
| | | 192-204 | 186-198 | |
| 15 | 6 | 70 | - | 70 |
| 15 | 7 | 58 | 12 | 70 |
| 15 | 8 | 46 | 24 | 70 |
| 15 | 9 | 35 | 36 | 71 |
| 15 | 10 | 23 | 48 | 71 |
| 15 | 11 | 12 | 59 | 71 |
| | | 192-204 | 198-210 | |
| 16 | 0 | 72 | - | 72 |
| 16 | 1 | 60 | 12 | 72 |
| 16 | 2 | 48 | 24 | 72 |
| 16 | 3 | 36 | 37 | 73 |
| 16 | 4 | 24 | 49 | 73 |
| 16 | 5 | 12 | 61 | 73 |
| | | 198-210 | 204-216 | |
| 16 | 6 | 74 | - | 74 |
| 16 | 7 | 61 | 13 | 74 |
| 16 | 8 | 49 | 25 | 74 |
| 16 | 9 | 37 | 38 | 75 |
| 16 | 10 | 25 | 50 | 75 |
| 16 | 11 | 12 | 63 | 75 |
| | | 204-216 | 210-222 | |
| 17 | 0 | 76 | - | 76 |