



## Ring Combinations

**9 Inch Lining --- 3 Inch Wedge Brick  
9 x 4 1/2 x 3, 9 x 6 x 3 or 9 x 9 x 3 Inch**

| Diam. Inside<br>Brickwork |    | Number Required Per Ring |               |               |          |       |
|---------------------------|----|--------------------------|---------------|---------------|----------|-------|
|                           |    | No.3<br>Wedge            | No.2<br>Wedge | No.1<br>Wedge | Straight | Total |
| Ft                        | In |                          |               |               |          |       |
| 3                         | 0  | 57                       | -             | -             | -        | 57    |
| 3                         | 1  | 56                       | 2             | -             | -        | 58    |
| 3                         | 2  | 55                       | 4             | -             | -        | 59    |
| 3                         | 3  | 54                       | 6             | -             | -        | 60    |
| 3                         | 4  | 52                       | 9             | -             | -        | 61    |
| 3                         | 5  | 51                       | 11            | -             | -        | 62    |
| 3                         | 6  | 50                       | 13            | -             | -        | 63    |
| 3                         | 7  | 49                       | 15            | -             | -        | 64    |
| 3                         | 8  | 48                       | 17            | -             | -        | 65    |
| 3                         | 9  | 47                       | 19            | -             | -        | 66    |
| 3                         | 10 | 46                       | 21            | -             | -        | 67    |
| 3                         | 11 | 45                       | 23            | -             | -        | 68    |
| 4                         | 0  | 44                       | 26            | -             | -        | 70    |
| 4                         | 1  | 43                       | 28            | -             | -        | 71    |
| 4                         | 2  | 42                       | 30            | -             | -        | 72    |
| 4                         | 3  | 41                       | 32            | -             | -        | 73    |
| 4                         | 4  | 40                       | 34            | -             | -        | 74    |
| 4                         | 5  | 39                       | 36            | -             | -        | 75    |
| 4                         | 6  | 38                       | 38            | -             | -        | 76    |
| 4                         | 7  | 37                       | 40            | -             | -        | 77    |
| 4                         | 8  | 36                       | 42            | -             | -        | 78    |
| 4                         | 9  | 35                       | 44            | -             | -        | 79    |
| 4                         | 10 | 34                       | 46            | -             | -        | 80    |
| 4                         | 11 | 33                       | 48            | -             | -        | 81    |
| 5                         | 0  | 32                       | 50            | -             | -        | 82    |
| 5                         | 1  | 31                       | 52            | -             | -        | 83    |
| 5                         | 2  | 29                       | 55            | -             | -        | 84    |
| 5                         | 3  | 28                       | 57            | -             | -        | 85    |
| 5                         | 4  | 27                       | 59            | -             | -        | 86    |
| 5                         | 5  | 26                       | 61            | -             | -        | 87    |
| 5                         | 6  | 25                       | 63            | -             | -        | 88    |
| 5                         | 7  | 24                       | 65            | -             | -        | 89    |
| 5                         | 8  | 23                       | 67            | -             | -        | 90    |
| 5                         | 9  | 22                       | 70            | -             | -        | 92    |
| 5                         | 10 | 21                       | 72            | -             | -        | 93    |
| 5                         | 11 | 20                       | 74            | -             | -        | 94    |
| 6                         | 0  | 19                       | 76            | -             | -        | 95    |
| 6                         | 1  | 18                       | 78            | -             | -        | 96    |
| 6                         | 2  | 17                       | 80            | -             | -        | 97    |
| 6                         | 3  | 16                       | 82            | -             | -        | 98    |
| 6                         | 4  | 15                       | 84            | -             | -        | 99    |
| 6                         | 5  | 14                       | 86            | -             | -        | 100   |
| 6                         | 6  | 13                       | 88            | -             | -        | 101   |
| 6                         | 7  | 12                       | 90            | -             | -        | 102   |
| 6                         | 8  | 11                       | 92            | -             | -        | 103   |
| 6                         | 9  | 10                       | 94            | -             | -        | 104   |
| 6                         | 10 | 9                        | 96            | -             | -        | 105   |
| 6                         | 11 | 7                        | 99            | -             | -        | 106   |

|    |    |   |     |     |   |     |
|----|----|---|-----|-----|---|-----|
| 7  | 0  | 6 | 101 | -   | - | 107 |
| 7  | 1  | 5 | 103 | -   | - | 108 |
| 7  | 2  | 4 | 105 | -   | - | 109 |
| 7  | 3  | 3 | 107 | -   | - | 110 |
| 7  | 4  | 2 | 109 | -   | - | 111 |
| 7  | 5  | 1 | 111 | -   | - | 112 |
| 7  | 6  | - | 113 | -   | - | 113 |
| 7  | 7  | - | 112 | 3   | - | 115 |
| 7  | 8  | - | 111 | 5   | - | 116 |
| 7  | 9  | - | 110 | 7   | - | 117 |
| 7  | 10 | - | 109 | 9   | - | 118 |
| 7  | 11 | - | 108 | 11  | - | 119 |
| 8  | 0  | - | 107 | 13  | - | 120 |
| 8  | 1  | - | 106 | 15  | - | 121 |
| 8  | 2  | - | 105 | 17  | - | 122 |
| 8  | 3  | - | 104 | 19  | - | 123 |
| 8  | 4  | - | 103 | 21  | - | 124 |
| 8  | 5  | - | 102 | 23  | - | 125 |
| 8  | 6  | - | 101 | 25  | - | 126 |
| 8  | 7  | - | 100 | 27  | - | 127 |
| 8  | 8  | - | 99  | 29  | - | 128 |
| 8  | 9  | - | 97  | 32  | - | 129 |
| 8  | 10 | - | 96  | 34  | - | 130 |
| 8  | 11 | - | 95  | 36  | - | 131 |
| 9  | 0  | - | 94  | 38  | - | 132 |
| 9  | 1  | - | 93  | 40  | - | 133 |
| 9  | 2  | - | 92  | 42  | - | 134 |
| 9  | 3  | - | 91  | 44  | - | 135 |
| 9  | 4  | - | 90  | 47  | - | 137 |
| 9  | 5  | - | 89  | 49  | - | 138 |
| 9  | 6  | - | 88  | 51  | - | 139 |
| 9  | 7  | - | 87  | 53  | - | 140 |
| 9  | 8  | - | 86  | 55  | - | 141 |
| 9  | 9  | - | 85  | 57  | - | 142 |
| 9  | 10 | - | 84  | 59  | - | 143 |
| 9  | 11 | - | 83  | 61  | - | 144 |
| 10 | 0  | - | 82  | 63  | - | 145 |
| 10 | 1  | - | 81  | 65  | - | 146 |
| 10 | 2  | - | 80  | 67  | - | 147 |
| 10 | 3  | - | 79  | 69  | - | 148 |
| 10 | 4  | - | 78  | 71  | - | 149 |
| 10 | 5  | - | 77  | 73  | - | 150 |
| 10 | 6  | - | 76  | 75  | - | 151 |
| 10 | 7  | - | 74  | 78  | - | 152 |
| 10 | 8  | - | 73  | 80  | - | 153 |
| 10 | 9  | - | 72  | 82  | - | 154 |
| 10 | 10 | - | 71  | 84  | - | 155 |
| 10 | 11 | - | 70  | 86  | - | 156 |
| 11 | 0  | - | 69  | 88  | - | 157 |
| 11 | 1  | - | 69  | 90  | - | 159 |
| 11 | 2  | - | 67  | 93  | - | 160 |
| 11 | 3  | - | 66  | 95  | - | 161 |
| 11 | 4  | - | 65  | 97  | - | 162 |
| 11 | 5  | - | 64  | 99  | - | 163 |
| 11 | 6  | - | 63  | 101 | - | 164 |
| 11 | 7  | - | 62  | 103 | - | 165 |
| 11 | 8  | - | 61  | 105 | - | 166 |
| 11 | 9  | - | 60  | 107 | - | 167 |
| 11 | 10 | - | 59  | 109 | - | 168 |
| 11 | 11 | - | 58  | 111 | - | 169 |

|    |    |   |    |     |    |     |
|----|----|---|----|-----|----|-----|
| 12 | 0  | - | 57 | 113 | -  | 170 |
| 12 | 1  | - | 56 | 115 | -  | 171 |
| 12 | 2  | - | 55 | 117 | -  | 172 |
| 12 | 3  | - | 54 | 119 | -  | 173 |
| 12 | 4  | - | 52 | 122 | -  | 174 |
| 12 | 5  | - | 51 | 124 | -  | 175 |
| 12 | 6  | - | 50 | 126 | -  | 176 |
| 12 | 7  | - | 49 | 128 | -  | 177 |
| 12 | 8  | - | 48 | 130 | -  | 178 |
| 12 | 9  | - | 47 | 132 | -  | 179 |
| 12 | 10 | - | 47 | 134 | -  | 181 |
| 12 | 11 | - | 45 | 137 | -  | 182 |
| 13 | 0  | - | 44 | 139 | -  | 183 |
| 13 | 1  | - | 43 | 141 | -  | 184 |
| 13 | 2  | - | 42 | 143 | -  | 185 |
| 13 | 3  | - | 41 | 145 | -  | 186 |
| 13 | 4  | - | 40 | 147 | -  | 187 |
| 13 | 5  | - | 39 | 149 | -  | 188 |
| 13 | 6  | - | 38 | 151 | -  | 189 |
| 13 | 7  | - | 37 | 153 | -  | 190 |
| 13 | 8  | - | 36 | 155 | -  | 191 |
| 13 | 9  | - | 35 | 157 | -  | 192 |
| 13 | 10 | - | 34 | 159 | -  | 193 |
| 13 | 11 | - | 33 | 161 | -  | 194 |
| 14 | 0  | - | 32 | 163 | -  | 195 |
| 14 | 1  | - | 30 | 166 | -  | 196 |
| 14 | 2  | - | 29 | 168 | -  | 197 |
| 14 | 3  | - | 28 | 170 | -  | 198 |
| 14 | 4  | - | 27 | 172 | -  | 199 |
| 14 | 5  | - | 26 | 174 | -  | 200 |
| 14 | 6  | - | 25 | 176 | -  | 201 |
| 14 | 7  | - | 25 | 178 | -  | 203 |
| 14 | 8  | - | 23 | 181 | -  | 204 |
| 14 | 9  | - | 22 | 183 | -  | 205 |
| 14 | 10 | - | 21 | 185 | -  | 206 |
| 14 | 11 | - | 20 | 187 | -  | 207 |
| 15 | 0  | - | 19 | 189 | -  | 208 |
| 15 | 1  | - | 18 | 191 | -  | 209 |
| 15 | 2  | - | 17 | 193 | -  | 210 |
| 15 | 3  | - | 16 | 195 | -  | 211 |
| 15 | 4  | - | 15 | 197 | -  | 212 |
| 15 | 5  | - | 14 | 199 | -  | 213 |
| 15 | 6  | - | 13 | 201 | -  | 214 |
| 15 | 7  | - | 12 | 203 | -  | 215 |
| 15 | 8  | - | 11 | 205 | -  | 216 |
| 15 | 9  | - | 10 | 207 | -  | 217 |
| 15 | 10 | - | 8  | 210 | -  | 218 |
| 15 | 11 | - | 7  | 212 | -  | 219 |
| 16 | 0  | - | 6  | 214 | -  | 220 |
| 16 | 1  | - | 5  | 216 | -  | 221 |
| 16 | 2  | - | 4  | 218 | -  | 222 |
| 16 | 3  | - | 3  | 220 | -  | 223 |
| 16 | 4  | - | 2  | 222 | -  | 225 |
| 16 | 5  | - | 1  | 225 | -  | 226 |
| 16 | 6  | - | -  | 227 | -  | 227 |
| 17 | 0  | - | -  | 227 | 6  | 233 |
| 17 | 6  | - | -  | 227 | 12 | 239 |
| 18 | 0  | - | -  | 227 | 18 | 245 |
| 18 | 6  | - | -  | 227 | 25 | 252 |
| 19 | 0  | - | -  | 227 | 31 | 258 |
| 19 | 6  | - | -  | 227 | 37 | 264 |

|    |   |   |   |     |     |     |
|----|---|---|---|-----|-----|-----|
| 20 | 0 | - | - | 227 | 44  | 271 |
| 20 | 6 | - | - | 227 | 50  | 277 |
| 21 | 0 | - | - | 227 | 56  | 283 |
| 21 | 6 | - | - | 227 | 62  | 289 |
| 22 | 0 | - | - | 227 | 69  | 296 |
| 22 | 6 | - | - | 227 | 75  | 302 |
| 23 | 0 | - | - | 227 | 81  | 308 |
| 23 | 6 | - | - | 227 | 88  | 315 |
| 24 | 0 | - | - | 227 | 94  | 321 |
| 24 | 6 | - | - | 227 | 100 | 327 |
| 25 | 0 | - | - | 227 | 106 | 333 |
| 25 | 6 | - | - | 227 | 113 | 340 |
| 26 | 0 | - | - | 227 | 119 | 346 |
| 26 | 6 | - | - | 227 | 125 | 352 |
| 27 | 0 | - | - | 227 | 132 | 359 |
| 27 | 6 | - | - | 227 | 138 | 365 |
| 28 | 0 | - | - | 227 | 144 | 371 |
| 28 | 6 | - | - | 227 | 150 | 377 |
| 29 | 0 | - | - | 227 | 157 | 384 |
| 29 | 6 | - | - | 227 | 163 | 390 |
| 30 | 0 | - | - | 227 | 169 | 396 |
| 30 | 6 | - | - | 227 | 176 | 403 |
| 31 | 0 | - | - | 227 | 182 | 409 |
| 31 | 6 | - | - | 227 | 188 | 415 |
| 32 | 0 | - | - | 227 | 194 | 421 |
| 32 | 6 | - | - | 227 | 201 | 428 |
| 33 | 0 | - | - | 227 | 207 | 434 |
| 33 | 6 | - | - | 227 | 213 | 440 |
| 34 | 0 | - | - | 227 | 220 | 447 |
| 34 | 6 | - | - | 227 | 226 | 453 |
| 35 | 0 | - | - | 227 | 232 | 459 |
| 35 | 6 | - | - | 227 | 238 | 465 |
| 36 | 0 | - | - | 227 | 245 | 472 |
| 36 | 6 | - | - | 227 | 251 | 478 |