



DIMENSÕES E CONSUMOS MÉDIOS PARA UMA UNIDADE

| Esc. | BUEIRO SIMPLES TUBULAR $\Phi = 40$ | | | | | | | | | | | | | | formas m ² | con. cimento m ³ | cimento saco 50kg | areia m ³ | brita 1 brita 2 m ³ | água m ³ | madeira m ³ |
|------|------------------------------------|----|----|----|----|----|----|----|---|----|----|----|-----|-----|-----------------------|-----------------------------|-------------------|----------------------|--------------------------------|---------------------|------------------------|
| | a | b | c | d | e | f | g | h | k | m | n | p | L | M | | | | | | | |
| 0° | 80 | | | 20 | | | | | | | | | 90 | | 2,29 | 0,423 | 2,072 | 0,288 | 0,313 | 0,068 | 0,057 |
| 5° | 80 | | | 20 | | | | | | | | | 90 | | 2,30 | 0,423 | 2,072 | 0,288 | 0,313 | 0,068 | 0,057 |
| 10° | 81 | | | 20 | | | | | | | | | 91 | | 2,31 | 0,423 | 2,073 | 0,288 | 0,313 | 0,068 | 0,058 |
| 15° | 83 | | | 21 | | | | | | | | | 93 | | 2,33 | 0,423 | 2,074 | 0,288 | 0,313 | 0,068 | 0,058 |
| 20° | 85 | | | 21 | 15 | 10 | 20 | 66 | 5 | 20 | 20 | 20 | 96 | 115 | 2,36 | 0,424 | 2,076 | 0,288 | 0,314 | 0,068 | 0,059 |
| 25° | 88 | 20 | 90 | 22 | | | | | | | | | 99 | | 2,41 | 0,424 | 2,078 | 0,288 | 0,314 | 0,068 | 0,060 |
| 30° | 92 | | | 23 | | | | | | | | | 104 | | 2,47 | 0,425 | 2,081 | 0,289 | 0,314 | 0,068 | 0,062 |
| 35° | 96 | | | 24 | | | | | | | | | 110 | | 2,56 | 0,425 | 2,084 | 0,289 | 0,315 | 0,068 | 0,064 |
| 40° | 104 | | | 26 | | | | | | | | | 117 | | 2,67 | 0,426 | 2,088 | 0,290 | 0,315 | 0,068 | 0,067 |
| 45° | 113 | | | 28 | | | | | | | | | 127 | | 2,84 | 0,427 | 2,092 | 0,290 | 0,316 | 0,068 | 0,071 |

| Esc. | BUEIRO SIMPLES TUBULAR $\Phi = 100$ | | | | | | | | | | | | | | formas m ² | con. cimento m ³ | cimento saco 50kg | areia m ³ | brita 1 brita 2 m ³ | água m ³ | madeira m ³ |
|------|-------------------------------------|----|-----|----|----|----|----|-----|----|----|----|----|-----|-----|-----------------------|-----------------------------|-------------------|----------------------|--------------------------------|---------------------|------------------------|
| | a | b | c | d | e | f | g | h | k | m | n | p | L | M | | | | | | | |
| 0° | 170 | | | 35 | | | | | | | | | 190 | | 9,68 | 2,514 | 12,318 | 1,709 | 1,860 | 0,402 | 0,242 |
| 5° | 171 | | | 35 | | | | | | | | | 191 | | 9,69 | 2,514 | 12,320 | 1,710 | 1,861 | 0,402 | 0,242 |
| 10° | 173 | | | 36 | | | | | | | | | 193 | | 9,75 | 2,515 | 12,325 | 1,710 | 1,861 | 0,402 | 0,244 |
| 15° | 176 | | | 36 | | | | | | | | | 197 | | 9,85 | 2,517 | 12,334 | 1,712 | 1,863 | 0,403 | 0,246 |
| 20° | 181 | | | 37 | 50 | 20 | 30 | 142 | 10 | 27 | 37 | 27 | 202 | 205 | 9,99 | 2,520 | 12,346 | 1,713 | 1,865 | 0,403 | 0,250 |
| 25° | 188 | 30 | 165 | 39 | | | | | | | | | 210 | | 10,19 | 2,523 | 12,362 | 1,716 | 1,867 | 0,404 | 0,255 |
| 30° | 196 | | | 40 | | | | | | | | | 219 | | 10,47 | 2,527 | 12,381 | 1,718 | 1,870 | 0,404 | 0,262 |
| 35° | 208 | | | 43 | | | | | | | | | 232 | | 10,84 | 2,531 | 12,403 | 1,721 | 1,873 | 0,405 | 0,271 |
| 40° | 222 | | | 46 | | | | | | | | | 248 | | 10,38 | 2,536 | 12,427 | 1,725 | 1,877 | 0,406 | 0,284 |
| 45° | 240 | | | 49 | | | | | | | | | 269 | | 12,07 | 2,542 | 12,455 | 1,728 | 1,881 | 0,407 | 0,302 |

| Esc. | BUEIRO SIMPLES TUBULAR $\Phi = 60$ | | | | | | | | | | | | | | formas m ² | con. cimento m ³ | cimento saco 50kg | areia m ³ | brita 1 brita 2 m ³ | água m ³ | madeira m ³ |
|------|------------------------------------|----|-----|----|----|----|----|----|----|----|----|----|-----|-----|-----------------------|-----------------------------|-------------------|----------------------|--------------------------------|---------------------|------------------------|
| | a | b | c | d | e | f | g | h | k | m | n | p | L | M | | | | | | | |
| 0° | 110 | | | 25 | | | | | | | | | 130 | | 4,17 | 0,932 | 4,567 | 0,634 | 0,690 | 0,149 | 0,104 |
| 5° | 110 | | | 25 | | | | | | | | | 130 | | 4,18 | 0,932 | 4,568 | 0,634 | 0,690 | 0,149 | 0,104 |
| 10° | 112 | | | 25 | | | | | | | | | 132 | | 4,20 | 0,933 | 4,570 | 0,634 | 0,690 | 0,149 | 0,105 |
| 15° | 114 | | | 26 | | | | | | | | | 135 | | 4,24 | 0,933 | 4,573 | 0,635 | 0,691 | 0,149 | 0,108 |
| 20° | 117 | | | 27 | 25 | 10 | 30 | 88 | 10 | 23 | 33 | 23 | 138 | 155 | 4,30 | 0,934 | 4,577 | 0,635 | 0,691 | 0,149 | 0,107 |
| 25° | 121 | 20 | 125 | 28 | | | | | | | | | 143 | | 4,38 | 0,935 | 4,583 | 0,636 | 0,692 | 0,150 | 0,110 |
| 30° | 127 | | | 29 | | | | | | | | | 150 | | 4,49 | 0,937 | 4,589 | 0,637 | 0,693 | 0,150 | 0,112 |
| 35° | 134 | | | 31 | | | | | | | | | 159 | | 4,65 | 0,938 | 4,597 | 0,638 | 0,694 | 0,150 | 0,116 |
| 40° | 144 | | | 33 | | | | | | | | | 170 | | 4,85 | 0,940 | 4,605 | 0,639 | 0,695 | 0,150 | 0,121 |
| 45° | 156 | | | 35 | | | | | | | | | 184 | | 5,14 | 0,942 | 4,615 | 0,640 | 0,697 | 0,151 | 0,129 |

| Esc. | BUEIRO SIMPLES TUBULAR $\Phi = 120$ | | | | | | | | | | | | | | formas m ² | con. cimento m ³ | cimento saco 50kg | areia m ³ | brita 1 brita 2 m ³ | água m ³ | madeira m ³ |
|------|-------------------------------------|----|-----|----|----|----|----|-----|----|----|----|----|-----|-----|-----------------------|-----------------------------|-------------------|----------------------|--------------------------------|---------------------|------------------------|
| | a | b | c | d | e | f | g | h | k | m | n | p | L | M | | | | | | | |
| 0° | 200 | | | 40 | | | | | | | | | 220 | | 12,61 | 3,638 | 17,825 | 2,474 | 2,692 | 0,582 | 0,315 |
| 5° | 201 | | | 40 | | | | | | | | | 221 | | 12,64 | 3,639 | 17,830 | 2,474 | 2,693 | 0,582 | 0,316 |
| 10° | 203 | | | 41 | | | | | | | | | 223 | | 12,71 | 3,642 | 17,844 | 2,476 | 2,695 | 0,583 | 0,318 |
| 15° | 207 | | | 41 | | | | | | | | | 228 | | 12,84 | 3,646 | 17,868 | 2,479 | 2,698 | 0,583 | 0,321 |
| 20° | 213 | | | 43 | 60 | 25 | 30 | 163 | 10 | 28 | 38 | 28 | 234 | 230 | 13,03 | 3,653 | 17,898 | 2,484 | 2,703 | 0,584 | 0,326 |
| 25° | 221 | 40 | 180 | 44 | | | | | | | | | 243 | | 13,30 | 3,661 | 17,937 | 2,489 | 2,709 | 0,586 | 0,332 |
| 30° | 231 | | | 46 | | | | | | | | | 254 | | 13,67 | 3,671 | 17,986 | 2,496 | 2,716 | 0,587 | 0,342 |
| 35° | 244 | | | 49 | | | | | | | | | 269 | | 14,16 | 3,682 | 18,042 | 2,504 | 2,725 | 0,589 | 0,354 |
| 40° | 261 | | | 52 | | | | | | | | | 287 | | 14,85 | 3,695 | 18,105 | 2,513 | 2,734 | 0,591 | 0,371 |
| 45° | 283 | | | 57 | | | | | | | | | 311 | | 15,79 | 3,709 | 18,176 | 2,522 | 2,745 | 0,593 | 0,395 |

| Esc. | BUEIRO SIMPLES TUBULAR $\Phi = 80$ | | | | | | | | | | | | | | formas m ² | con. cimento m ³ | cimento saco 50kg | areia m ³ | brita 1 brita 2 m ³ | água m ³ | madeira m ³ |
|------|------------------------------------|----|-----|----|----|----|----|-----|----|----|----|----|-----|-----|-----------------------|-----------------------------|-------------------|----------------------|--------------------------------|---------------------|------------------------|
| | a | b | c | d | e | f | g | h | k | m | n | p | L | M | | | | | | | |
| 0° | 140 | | | 30 | | | | | | | | | 160 | | 6,83 | 1,619 | 7,932 | 1,101 | 1,198 | 0,259 | 0,171 |
| 5° | 141 | | | 30 | | | | | | | | | 161 | | 6,85 | 1,619 | 7,934 | 1,101 | 1,198 | 0,259 | 0,171 |
| 10° | 142 | | | 30 | | | | | | | | | 162 | | 6,88 | 1,620 | 7,937 | 1,101 | 1,199 | 0,259 | 0,172 |
| 15° | 145 | | | 31 | | | | | | | | | 166 | | 6,95 | 1,621 | 7,942 | 1,102 | 1,199 | 0,259 | 0,174 |
| 20° | 149 | | | 32 | 35 | 15 | 30 | 120 | 10 | 25 | 35 | 25 | 170 | 180 | 7,06 | 1,622 | 7,950 | 1,103 | 1,201 | 0,260 | 0,176 |
| 25° | 154 | 25 | 145 | 33 | | | | | | | | | 177 | | 7,20 | 1,624 | 7,960 | 1,105 | 1,202 | 0,260 | 0,180 |
| 30° | 162 | | | 35 | | | | | | | | | 185 | | 7,39 | 1,627 | 7,971 | 1,106 | 1,204 | 0,260 | 0,185 |
| 35° | 171 | | | 37 | | | | | | | | | 195 | | 7,66 | 1,630 | 7,985 | 1,108 | 1,206 | 0,261 | 0,191 |
| 40° | 183 | | | 39 | | | | | | | | | 209 | | 8,02 | 1,633 | 8,000 | 1,110 | 1,208 | 0,261 | 0,201 |
| 45° | 196 | | | 42 | | | | | | | | | 226 | | 8,52 | 1,636 | 8,017 | 1,113 | 1,211 | 0,262 | 0,213 |

| Esc. | BUEIRO SIMPLES TUBULAR $\Phi = 150$ | | | | | | | | | | | | | | formas m ² | con. cimento m ³ | cimento saco 50kg | areia m ³ | brita 1 brita 2 m ³ | água m ³ | madeira m ³ |
|------|-------------------------------------|----|-----|----|----|----|----|-----|----|----|----|----|-----|-----|-----------------------|-----------------------------|-------------------|----------------------|--------------------------------|---------------------|------------------------|
| | a | b | c | d | e | f | g | h | k | m | n | p | L | M | | | | | | | |
| 0° | 240 | | | 45 | | | | | | | | | 260 | | 20,39 | 6,487 | 31,784 | 4,411 | 4,800 | 1,038 | 0,510 |
| 5° | 241 | | | 45 | | | | | | | | | 261 | | 20,43 | 6,488 | 31,791 | 4,412 | 4,801 | 1,038 | 0,511 |
| 10° | 244 | | | 46 | | | | | | | | | 264 | | 20,53 | 6,492 | 31,810 | 4,414 | 4,804 | 1,039 | 0,513 |
| 15° | 248 | | | 47 | | | | | | | | | 269 | | 20,71 | 6,499 | 31,843 | 4,419 | 4,809 | 1,040 | 0,518 |
| 20° | 255 | | | 48 | 75 | 30 | 30 | 194 | 10 | 29 | 39 | 29 | 277 | 320 | 20,96 | 6,508 | 31,888 | 4,425 | 4,816 | 1,041 | 0,524 |
| 25° | 265 | 50 | 260 | 50 | | | | | | | | | 287 | | 21,35 | 6,520 | 31,946 | 4,433 | 4,824 | 1,043 | 0,534 |
| 30° | 277 | | | 52 | | | | | | | | | 300 | | 21,86 | 6,534 | 32,015 | 4,443 | 4,835 | 1,045 | 0,547 |
| 35° | 293 | | | 55 | | | | | | | | | 317 | | 22,56 | 6,550 | 32,096 | 4,454 | 4,847 | 1,048 | 0,564 |
| 40° | 313 | | | 59 | | | | | | | | | 339 | | 23,51 | 6,569 | 32,188 | 4,467 | 4,861 | 1,051 | 0,588 |
| 45° | 339 | | | 64 | | | | | | | | | 368 | | 24,84 | 6,590 | 32,290 | 4,481 | 4,876 | 1,054 | 0,621 |

NOTAS:

- UTILIZAR DETALHE DE BOCA DE BUEIRO COM DIAMETRO DE 40cm, INCLUSIVE PARA TUBO DE PVC DE 50cm

CONTRATANTE:

