## SLOTTED ROUND HEAD MACHINE SCREWS



| Nominal Diameter |  | HD |  | H |  | SW |  | SD |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Head Diameter |  | Head Height |  | Slot Width |  | Slot Depth |  |
| Fractional | Decimal | Max | Min | Max | Min | Max | Min | Max | Min |
| \#0000 | 0.0210 | 0.041 | 0.035 | 0.022 | 0.016 | 0.008 | 0.004 | 0.017 | 0.013 |
| \# 000 | 0.0340 | 0.062 | 0.056 | 0.031 | 0.025 | 0.012 | 0.008 | 0.018 | 0.012 |
| \# 00 | 0.0470 | 0.089 | 0.080 | 0.045 | 0.036 | 0.017 | 0.010 | 0.026 | 0.018 |
| \# 0 | 0.0600 | 0.113 | 0.099 | 0.053 | 0.043 | 0.023 | 0.016 | 0.039 | 0.029 |
| \# 1 | 0.0730 | 0.138 | 0.122 | 0.061 | 0.051 | 0.026 | 0.019 | 0.044 | 0.033 |
| \# 2 | 0.0860 | 0.162 | 0.146 | 0.069 | 0.059 | 0.031 | 0.023 | 0.048 | 0.037 |
| \# 3 | 0.0990 | 0.187 | 0.169 | 0.078 | 0.067 | 0.035 | 0.027 | 0.053 | 0.040 |
| \# 4 | 0.1120 | 0.211 | 0.193 | 0.086 | 0.075 | 0.039 | 0.031 | 0.058 | 0.044 |
| \# 5 | 0.1250 | 0.236 | 0.217 | 0.095 | 0.083 | 0.043 | 0.035 | 0.063 | 0.047 |
| \# 6 | 0.1380 | 0.260 | 0.240 | 0.103 | 0.091 | 0.048 | 0.039 | 0.068 | 0.051 |
| \# 8 | 0.1640 | 0.309 | 0.287 | 0.120 | 0.107 | 0.054 | 0.045 | 0.077 | 0.058 |
| \# 10 | 0.1900 | 0.359 | 0.334 | 0.137 | 0.123 | 0.060 | 0.050 | 0.087 | 0.065 |
| \# 12 | 0.2160 | 0.408 | 0.382 | 0.153 | 0.139 | 0.067 | 0.056 | 0.096 | 0.073 |
| 1/4 | 0.2500 | 0.472 | 0.443 | 0.175 | 0.160 | 0.075 | 0.064 | 0.109 | 0.082 |
| 5/16 | 0.3125 | 0.590 | 0.557 | 0.216 | 0.198 | 0.084 | 0.072 | 0.132 | 0.099 |
| 3/8 | 0.3750 | 0.708 | 0.670 | 0.256 | 0.237 | 0.094 | 0.081 | 0.155 | 0.117 |
| 7/16 | 0.4375 | 0.750 | 0.707 | 0.328 | 0.307 | 0.094 | 0.081 | 0.196 | 0.148 |
| 1/2 | 0.5000 | 0.813 | 0.766 | 0.355 | 0.332 | 0.106 | 0.091 | 0.211 | 0.159 |
| 9/16 | 0.5625 | 0.938 | 0.887 | 0.410 | 0.385 | 0.118 | 0.102 | 0.242 | 0.183 |
| 5/8 | 0.6250 | 1.000 | 0.944 | 0.438 | 0.411 | 0.133 | 0.116 | 0.258 | 0.195 |
| 3/4 | 0.7500 | 1.250 | 1.185 | 0.547 | 0.516 | 0.149 | 0.131 | 0.320 | 0.242 |

Note: L = Length of Screw.


## SLOTTED FLAT HEAD MACHINE SCREWS



Note: L = Length of Screw.

# BINDING HEAD UNDERCUT MACHINE SCREWS 



SLOTTED

| Nominal Size | A |  | F |  | 0 |  | J |  | T |  | U |  | X |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Head Dia. |  | Height of Head |  |  |  | Width of Slot |  | Depth of Slot |  | Dimensions of Undercut |  |  |  |
|  |  |  | Hgt. of Oval |  | Total Hgt. |  |  |  |  | eter |  |  |
|  | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. |  |  | Max. | Min. | Max. | Min. | Max. | Min. |
| 2 | . 181 | . 171 | . 018 | . 013 | . 050 | . 043 | . 031 | . 023 | . 030 | . 024 | . 141 | . 124 | . 010 | . 005 |
| 3 | . 208 | . 197 | . 022 | . 016 | . 059 | . 052 | . 035 | . 027 | . 036 | . 025 | . 162 | . 143 | . 011 | . 006 |
| 4 | . 235 | . 223 | . 025 | . 018 | . 068 | . 061 | . 039 | . 031 | . 042 | . 034 | . 184 | . 161 | . 012 | . 007 |
| 5 | . 263 | . 249 | . 029 | . 021 | . 078 | . 069 | . 043 | . 035 | . 048 | . 035 | . 205 | . 180 | . 014 | . 009 |
| 6 | . 290 | . 275 | . 032 | . 024 | . 087 | . 078 | . 048 | . 039 | . 053 | . 044 | . 226 | . 199 | . 015 | . 010 |
| 8 | . 344 | . 326 | . 039 | . 029 | . 105 | . 095 | . 054 | . 045 | . 065 | . 054 | . 269 | . 236 | . 017 | . 012 |
| 10 | . 399 | . 378 | . 045 | . 034 | . 123 | . 112 | . 060 | . 050 | . 077 | . 064 | . 312 | . 274 | . 020 | . 015 |
| 1/4 | . 513 | . 488 | . 061 | . 046 | . 165 | . 152 | . 075 | . 064 | . 105 | . 088 | . 410 | . 360 | . 026 | . 021 |

## FILLISTER HEAD MACHINE SCREWS



SLOTTED

| Nominal <br> Size | A |  | H |  | 0 |  | J |  | T |  | M |  | G | N | Phillips |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Head Diameter |  | Height of Head |  |  |  | Width of Slot |  | Depth of Slot |  | Dimensions of Recess |  |  |  |  |
|  |  |  | Side Height |  | Total Height |  |  |  | Diameter | Depth | Width |  |
|  | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. |  |  | Max. | Min. | Max. | Min. | Max. | Min. | Size |
| 2 | . 140 | . 124 | . 062 | . 053 | . 083 | . 066 | . 031 | . 023 | . 037 | . 025 | . 104 | . 091 | . 059 | . 017 | 1 |
| 3 | . 161 | . 145 | . 070 | . 061 | . 095 | . 077 | . 035 | . 027 | . 043 | . 030 | . 112 | . 099 | . 068 | . 019 | 1 |
| 4 | . 183 | . 166 | . 079 | . 069 | . 107 | . 088 | . 039 | . 031 | . 048 | . 035 | . 122 | . 109 | . 078 | . 019 | 1 |
| 5 | . 205 | . 187 | . 088 | . 078 | . 120 | . 100 | . 043 | . 035 | . 054 | . 040 | . 143 | . 130 | . 067 | . 027 | 2 |
| 6 | . 226 | . 208 | . 096 | . 086 | . 132 | . 111 | . 048 | . 039 | . 060 | . 045 | . 166 | . 153 | . 091 | . 028 | 2 |
| 8 | . 270 | . 250 | . 113 | . 102 | . 156 | . 133 | . 054 | . 045 | . 071 | . 054 | . 182 | . 169 | . 108 | . 030 | 2 |
| 10 | . 313 | . 292 | . 130 | . 118 | . 180 | . 156 | . 060 | . 050 | . 083 | . 064 | . 199 | . 186 | . 124 | . 031 | 2 |
| 12 | . 357 | . 334 | . 148 | . 134 | . 205 | . 178 | . 067 | . 056 | . 094 | . 074 | . 259 | . 246 | . 141 | . 034 | 3 |
| 1/4 | . 414 | . 389 | . 170 | . 155 | . 237 | . 207 | . 075 | . 064 | . 109 | . 087 | . 281 | . 268 | . 161 | . 036 | 3 |
| 5/16 | . 518 | . 490 | . 211 | . 194 | . 295 | . 262 | . 084 | . 072 | . 137 | . 110 | . 322 | . 309 | . 203 | . 042 | 3 |
| 3/8 | . 622 | . 590 | . 253 | . 233 | . 355 | . 315 | . 094 | . 081 | . 164 | . 133 | . 389 | . 376 | . 233 | . 065 | 4 |

## Dimensional Data



PHILLIPS

## FLAT HD UNDERCUT <br> MACHINE SCREWS TAPPING SCREWS

## SLOTTED

| Nominal Size | L | A |  |  | H |  |  |  |  |  |  |  |  | N | Phillips Driver Size |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | These <br> Lengths or Shorter are Undercut | Head Diameter |  | Height <br> of <br> Head |  | $\begin{gathered} \text { Width } \\ \text { of } \\ \text { Slot } \end{gathered}$ |  | $\begin{aligned} & \text { Depth } \\ & \text { of } \\ & \text { Slot } \end{aligned}$ |  | Dimensions of Recess |  |  |  |  |  |
|  |  | Max. <br> Edge <br> Sharp | Min. <br> Edge Rounded or Flat |  |  |  |  |  |  |  |  | Width |  |
|  |  |  |  | Max. | Min. |  |  | Max. | Min. | Max. | Min. | Max. | Min. | Max. |  | Min. | Min. |
| 4 | 3/16 | 0.225 | 0.195 | 0.047 | 0.038 | 0.039 | 0.031 | 0.022 | 0.014 | 0.117 | 0.104 | 0.078 | 0.062 | 0.018 | 1 |
| 6 | 3/16 | 0.279 | 0.244 | 0.059 | 0.048 | 0.048 | 0.039 | 0.027 | 0.017 | 0.146 | 0.133 | 0.078 | 0.055 | 0.025 | 2 |
| 8 | 1/4 | 0.332 | 0.292 | 0.070 | 0.058 | 0.054 | 0.045 | 0.032 | 0.021 | 0.174 | 0.161 | 0.106 | 0.083 | 0.029 | 2 |
| 10 | 5/16 | 0.385 | 0.340 | 0.081 | 0.068 | 0.060 | 0.050 | 0.037 | 0.024 | 0.189 | 0.176 | 0.121 | 0.098 | 0.030 | 2 |
| 12 | 3/8 | 0.438 | 0.389 | 0.092 | 0.078 | 0.067 | 0.056 | 0.043 | 0.028 | 0.233 | 0.220 | 0.121 | 0.098 | 0.030 | 3 |
| 1/4 | 7/16 | 0.507 | 0.452 | 0.107 | 0.092 | 0.075 | 0.064 | 0.050 | 0.032 | 0.250 | 0.237 | 0.136 | 0.113 | 0.032 | 3 |
| 5/16 | 1/2 | 0.635 | 0.568 | 0.134 | 0.116 | 0.084 | 0.072 | 0.062 | 0.041 | 0.317 | 0.304 | 0.168 | 0.146 | 0.053 | 4 |
| 3/8 | 9/16 | 0.762 | 0.685 | 0.161 | 0.140 | 0.094 | 0.081 | 0.075 | 0.049 | 0.365 | 0.352 | 0.216 | 0.194 | 0.061 | 4 |



HEX HEAD HEX WASHER HEAD MACHINE SCREWS TAPPING SCREWS SELF DRILLING SCREWS

SLOTTED

| Nominal Size | A |  | W <br> Width <br> Across <br> Corners <br> Min. | $\frac{\mathrm{H}}{\substack{\text { Height } \\ \text { of } \\ \text { Head }}}$ |  | F <br> meter of sher |  | $\mathbf{U}$ <br> Thickness <br> of <br> Washer |  |  |  | TDepthofSlot |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Width Across Flats |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Max. | Min. |  | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. |
| 4 | . 187 | . 181 | . 202 | . 060 | . 049 | . 243 | . 225 | . 019 | . 011 | . 039 | . 031 | . 042 | . 025 |
| 6 | . 250 | . 244 | . 272 | . 093 | . 080 | . 328 | . 302 | . 025 | . 015 | . 048 | . 039 | . 053 | . 033 |
| 7 | . 250 | . 244 | . 272 | . 093 | . 080 | . 328 | . 302 | . 029 | . 017 | . 048 | . 039 | . 062 | . 040 |
| 8 | . 250 | . 244 | . 272 | . 110 | . 096 | . 348 | . 322 | . 031 | . 019 | . 054 | . 045 | . 074 | . 052 |
| 10 | . 312 | . 305 | . 340 | . 120 | . 105 | . 414 | . 384 | . 031 | . 019 | . 060 | . 050 | . 080 | . 057 |
| 12 | . 312 | . 305 | . 340 | . 155 | . 139 | . 432 | . 398 | . 039 | . 022 | . 067 | . 056 | . 103 | . 077 |
| 14 | . 438 | . 428 | . 409 | . 190 | . 172 | . 520 | . 480 | . 050 | . 030 | . 075 | . 064 | . 111 | . 083 |
| 1/4 | . 375 | . 367 | . 409 | . 190 | . 172 | . 520 | . 480 | . 050 | . 030 | . 075 | . 064 | . 111 | . 083 |
| 5/16 | . 500 | . 489 | . 545 | . 230 | . 208 | . 676 | . 624 | . 055 | . 035 | . 084 | . 072 | . 134 | . 100 |
| 3/8 | . 562 | . 551 | . 614 | . 295 | . 270 | . 780 | . 720 | . 063 | . 037 | . 094 | . 081 | . 168 | . 131 |

## Dimensional Data

## OVAL HEAD

MACHINE SCREWS TAPPING SCREWS WOOD SCREWS*


SLOTTED
PHILLIPS

| Nom. Size | A |  | H |  | 0 |  | J |  | T |  | M |  | G | N | Phillips Driver Size |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Head Diameter |  | Height of Head |  |  |  | Width of Slot |  | Depth of Slot |  | Dimensions of Recess |  |  |  |  |
|  |  |  | Sid | eight | Total | ight |  |  | Diam | eter | Depth | Width |  |
|  | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. |  |  | Max. | Min. | Max. | Min. | Max. | Min. |  |
| 4 | . 225 | . 195 | . 067 | . 054 | . 104 | . 084 | . 039 | . 031 | . 059 | . 049 | . 136 | . 123 | . 094 | . 019 | 1 |
| 5* | . 252 | . 220 | . 075 | . 062 | . 116 | . 095 | . 043 | . 035 | . 067 | . 055 | . 158 | . 145 | . 085 | . 028 | 2 |
| 6 | . 279 | 244 | . 083 | . 069 | . 128 | . 105 | . 048 | . 039 | . 074 | . 060 | . 178 | . 165 | . 105 | . 030 | 2 |
| 8 | . 332 | . 292 | . 100 | . 084 | . 152 | . 126 | . 054 | . 045 | . 088 | . 072 | . 192 | . 179 | . 119 | . 031 | 2 |
| 9* | . 358 | . 316 | . 108 | . 091 | . 164 | . 137 | . 054 | . 045 | . 095 | . 078 | . 216 | . 203 | . 144 | . 034 | 2 |
| 10 | . 385 | . 340 | . 116 | . 098 | . 176 | . 148 | . 060 | . 050 | . 103 | . 084 | . 209 | . 196 | . 137 | . 033 | 2-3* |
| 12 | . 438 | . 389 | . 132 | . 112 | . 200 | . 169 | . 067 | . 056 | . 117 | . 096 | . 270 | . 257 | . 152 | . 038 | 3 |
| 14* | . 491 | . 452 | . 148 | . 127 | . 224 | . 190 | . 075 | . 064 | . 132 | . 108 | . 305 | . 292 | . 188 | . 042 | 3 |
| 1/4 | . 507 | . 452 | . 153 | . 131 | . 232 | . 197 | . 075 | . 064 | . 136 | . 112 | . 290 | . 277 | . 173 | . 040 | 3 |

## PAN HEAD <br> MACHINE SCREWS TAPPING SCREWS <br> SELF DRILLING SCREWS



SLOTTED

| $\begin{array}{\|c} \text { Nominal } \\ \text { Size } \end{array}$ | A |  | H |  | H1 |  | J |  | T |  | M |  | G | N | Phillips Driver Size |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Head Diameter |  | Height of Head |  |  |  | Width of Slot |  | Depth of Slot |  | Dimensions of Recess |  |  |  |  |
|  |  |  | Slotted |  | Recessed |  |  |  | Dian |  | Depth | Width |  |
|  | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. |  |  | Max. | Min. | Max. | Min. |  | Max. | Min. |
| 2 | . 167 | . 155 | . 053 | . 045 | . 062 | . 053 | . 031 | . 023 | . 031 | . 022 | . 104 | . 091 | . 059 | . 017 | 1 |
| 3 | . 193 | . 180 | . 060 | . 051 | . 071 | . 062 | . 035 | . 027 | . 036 | . 026 | . 112 | . 099 | . 068 | . 019 | 1 |
| 4 | . 219 | . 205 | . 068 | . 058 | . 080 | . 070 | . 039 | . 031 | . 040 | . 030 | . 122 | . 109 | . 078 | . 019 | 1 |
| 5 | . 245 | . 231 | . 075 | . 065 | . 089 | . 079 | . 043 | . 035 | . 045 | . 034 | . 158 | . 145 | . 083 | . 028 | 2 |
| 6 | . 270 | . 256 | . 082 | . 072 | . 097 | . 087 | . 048 | . 039 | . 050 | . 037 | . 166 | . 153 | . 091 | . 028 | 2 |
| 7 | . 296 | . 281 | . 089 | . 079 | . 106 | . 096 | . 048 | . 039 | . 054 | . 041 | . 176 | . 163 | . 100 | . 029 | 2 |
| 8 | . 322 | . 306 | . 096 | . 085 | . 115 | . 105 | . 054 | . 045 | . 058 | . 045 | . 182 | . 169 | . 108 | . 030 | 2 |
| 10 | . 373 | . 357 | . 110 | . 099 | . 133 | . 122 | . 060 | . 050 | . 068 | . 053 | . 199 | . 186 | . 124 | . 031 | 2 |
| 12 | . 425 | . 407 | . 125 | . 112 | . 151 | . 139 | . 067 | . 056 | . 077 | . 061 | . 259 | . 246 | . 141 | . 034 | 3 |
| 1/4 | . 492 | . 473 | . 144 | . 130 | . 175 | . 162 | . 075 | . 064 | . 087 | . 070 | . 281 | . 268 | . 161 | . 036 | 3 |
| 5/16 | . 615 | . 594 | . 178 | . 162 | . 218 | . 203 | . 084 | . 072 | . 106 | . 085 | . 350 | . 337 | . 193 | . 169 | 4 |
| 3/8 | . 740 | . 716 | . 212 | . 195 | . 261 | . 244 | . 094 | . 081 | . 124 | . 100 | . 389 | . 376 | 233 | . 210 | 4 |



## TRUSS HEAD <br> MACHINE SCREWS TAPPING SCREWS

SLOTTED
PHILLIPS

| Nominal <br> Size | A |  | H |  | J |  | T |  | M |  | G | N | Phillips Driver Size |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Head Diameter |  | Height of Head |  | Width of Slot |  | Depth of Slot |  | Dimensions of Recess |  |  |  |  |
|  |  |  |  |  |  |  | Depth | Width |  |  |
|  | Max. | Min. |  |  | Max. | Min. |  |  | Max. | Min. | Max. | Min. |  | Max. | Min. | Max. | Min. |
| 4 | . 257 | . 241 | . 069 | . 059 | - | - | - | - | . 112 | . 099 | . 069 | . 017 | 1 |
| 6 | . 321 | . 303 | . 086 | . 074 | . 048 | . 039 | . 050 | . 037 | . 158 | . 145 | . 084 | . 027 | 2 |
| 8 | . 384 | . 364 | . 102 | . 088 | . 054 | . 045 | . 058 | . 045 | . 173 | . 160 | . 099 | . 029 | 2 |
| 10 | . 448 | . 425 | . 118 | . 103 | . 060 | . 050 | . 068 | . 053 | . 188 | . 175 | . 115 | . 030 | 2 |
| 1/4 | . 573 | . 546 | . 150 | . 133 | . 075 | . 064 | . 087 | . 070 | . 263 | . 250 | . 143 | . 033 | 3 |
| 5/16 | . 698 | . 666 | . 183 | . 162 | . 084 | . 072 | . 106 | . 085 | . 352 | . 339 | . 193 | . 059 | 4 |
| 3/8 | . 823 | . 787 | . 215 | . 191 | . 094 | . 081 | . 124 | . 100 | - | - | - | - | - |



ROUND HEAD

## WOOD SCREWS

SLOTTED
PHILLIPS

| $\begin{gathered} \text { Nominal } \\ \text { Size } \end{gathered}$ | A |  | H |  | J |  | T |  | M |  | G | N | Phillips Driver Size |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Head Diameter |  | Height of Head |  | Width of Slot |  | Depth of Slot |  | Dimensions of Recess |  |  |  |  |
|  |  |  |  | eter |  |  | Depth | Width |  |
|  | Max. | Min. |  |  | Max. | Min. |  |  | Max. | Min. | Max. | Min. |  | Max. | Min. | Max. | Min. |
| 2 | . 162 | . 146 | . 069 | . 059 | . 031 | . 023 | . 048 | . 037 | . 100 | . 087 | . 053 | . 017 | 1 |
| 3 | . 187 | . 169 | . 078 | . 067 | . 035 | . 027 | . 053 | . 040 | . 109 | . 096 | . 062 | . 018 | 1 |
| 4 | . 211 | . 193 | . 086 | . 075 | . 039 | . 031 | . 058 | . 044 | . 118 | . 105 | . 072 | . 019 | 1 |
| 5 | . 236 | . 217 | . 095 | . 083 | . 043 | . 035 | . 063 | . 047 | . 154 | . 141 | . 074 | . 027 | 2 |
| 6 | . 260 | . 240 | . 103 | . 091 | . 048 | . 039 | . 068 | . 051 | . 162 | . 149 | . 084 | . 027 | 2 |
| 7* | . 285 | . 264 | . 111 | . 099 | . 048 | . 039 | . 072 | . 055 | . 170 | . 157 | . 092 | . 029 | 2 |
| 8 | . 309 | . 287 | . 120 | . 107 | . 054 | . 045 | . 077 | . 058 | . 178 | . 165 | . 101 | . 030 | 2 |
| 9* | . 334 | . 311 | . 128 | . 115 | . 054 | . 045 | . 082 | . 062 | . 186 | . 173 | . 110 | . 030 | 2 |
| 10 | . 359 | . 334 | . 137 | . 123 | . 060 | . 050 | . 087 | . 065 | . 195 | . 182 | . 119 | . 031 | 2-3* |
| 12 | . 408 | . 382 | . 153 | . 139 | . 067 | . 056 | . 096 | . 072 | . 249 | . 236 | . 125 | . 032 | 3 |
| 14* | . 457 | . 429 | . 170 | . 155 | . 075 | . 064 | . 106 | . 080 | . 265 | . 252 | . 142 | . 034 | 3 |
| 1/4 | . 472 | . 443 | . 175 | . 160 | . 075 | . 064 | . 109 | . 082 | . 268 | . 255 | . 147 | . 034 | 3 |
| 5/16 | . 590 | . 557 | . 216 | . 198 | . 084 | . 072 | . 132 | . 099 | - | - | - | - | - |
| 3/8 | . 708 | . 670 | . 256 | . 237 | . 094 | . 081 | . 155 | . 117 | - | - | - | - | - |
| 1/2 | . 813 | . 766 | . 355 | . 332 | . 106 | . 091 | . 211 | . 159 | - | - | - | - | - |

## THREADS FOR SELF TAPPING SCREWS



Type A

| Nominal Size or Basic Screw Diameter |  | Threads per Inch | D |  | d |  | L |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Major Diameter | Minor Diameter |  | These Lengths or Shorter Have AB Threads |  |
|  |  | Max. | Min. | Max. | Min. | $\begin{gathered} 90^{\circ} \\ \text { Heads } \end{gathered}$ | Csk <br> Heads |
| 6 | 0.139 |  | 18 | 0.141 | 0.136 | 0.102 | 0.096 | 1/4 | 5/16 |
| 7 | 0.155 |  | 16 | 0.158 | 0.152 | 0.114 | 0.108 | 5/16 | 3/8 |
| 8 | 0.165 | 15 | 0.168 | 0.162 | 0.123 | 0.116 | 3/8 | 7/16 |
| 10 | 0.192 | 12 | 0.194 | 0.188 | 0.133 | 0.126 | 3/8 | 1/2 |
| 12 | 0.218 | 11 | 0.221 | 0.215 | 0.162 | 0.155 | 7/16 | 9/16 |
| 14 | 0.252 | 10 | 0.254 | 0.248 | 0.185 | 0.178 | 1/2 | 5/8 |
| 20 | 0.330 | 9 | 0.333 | 0.327 | 0.234 | 0.226 | 11/16 | 13/16 |
| 24 | 0.385 | 9 | 0.390 | 0.383 | 0.291 | 0.282 | 3/4 | 1 |



## Type AB

| Nominal Size or Basic Screw Diameter | Threads per Inch | D |  | d |  | L |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Major Diameter |  | Minor Diameter |  | Minimum <br> Practical Screw Lengths |  |
|  |  | Max. | Min. | Max. | Min. | $90^{\circ}$ <br> Heads | Csk <br> Heads |
| $4 \quad 0.1120$ | 24 | 0.114 | 0.110 | 0.086 | 0.082 | 3/16 | 7/32 |
| 60.1380 | 20 | 0.139 | 0.135 | 0.104 | 0.099 | 7/32 | 17/64 |
| 80.1640 | 18 | 0.166 | 0.161 | 0.122 | 0.116 | 9/32 | 21/64 |
| 100.1900 | 16 | 0.189 | 0.183 | 0.141 | 0.135 | 21/64 | 3/8 |
| 120.2160 | 14 | 0.215 | 0.209 | 0.164 | 0.157 | 3/8 | 13/32 |
| 1/4 0.2500 | 14 | 0.246 | 0.240 | 0.192 | 0.185 | 13/32 | 15/32 |
| 5/16 0.3125 | 12 | 0.315 | 0.306 | 0.244 | 0.236 | 5/8 | 3/4 |
| $3 / 8 \quad 0.3750$ | 12 | 0.380 | 0.371 | 0.309 | 0.299 | 3/8 | 29/32 |

## THREADS FOR SELF TAPPING SCREWS



## THREADS AND POINTS FOR THREAD CUTTING SCREWS AND SELF-TAPPING SCREWS



|  | Threads per Inch | $\mathrm{D}$ <br> ajor meter |  | P |  | S |  |  |  | L |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Point Diameter |  | Point Taper Length |  |  |  | Determinate Length for Point Taper |  |  |  |
|  |  |  |  | For Short Screws | For Long Screws |  | Minimum <br> Practical <br> Screw Lengths |  |  |  |
|  |  | Max | Min |  |  | Max | Min | Max | Min | Max | Min | $\begin{gathered} \hline 90^{\circ} \\ \text { Heads } \end{gathered}$ | Csk Heads | $\begin{gathered} \mathbf{9 0} 0^{\circ} \\ \text { Heads } \end{gathered}$ | Csk <br> Heads |
| 20.0860 | 56 | 0.0860 | 0.0813 | 0.068 | 0.06 | 0.062 | 0.045 | 0.080 | 0.062 | 5/32 | 3/16 | 5/32 | 3/16 |
| $4 \quad 0.1120$ | 40 | 0.1120 | 0.1061 | 0.087 | 0.078 | 0.088 | 0.062 | 0.112 | 0.088 | 7/32 | 1/4 | 3/16 | 1/4 |
| $6 \quad 0.1380$ | 32 | 0.1380 | 0.1312 | 0.107 | 0.096 | 0.109 | 0.078 | 0.141 | 0.109 | 1/4 | 5/16 | 1/4 | 5/16 |
| 80.1640 | 32 | 0.1640 | 0.1571 | 0.132 | 0.122 | 0.109 | 0.078 | 0.141 | 0.109 | 1/4 | 11/32 | 1/4 | 5/16 |
| $10 \quad 0.1900$ | 24 | 0.1900 | 0.1818 | 0.148 | 0.135 | 0.146 | 0.104 | 0.188 | 0.146 | 11/32 | 7/16 | 5/16 | 13/32 |
| $10 \quad 0.1900$ | 32 | 0.1900 | 0.1831 | 0.158 | 0.148 | 0.109 | 0.078 | 0.141 | 0.109 | 1/4 | 11/32 | 1/4 | 5/16 |
| 120.2160 | 24 | 0.2160 | 0.2078 | 0.174 | 0.161 | 0.146 | 0.104 | 0.188 | 0.146 | 11/32 | 7/16 | 5/16 | 13/32 |
| $1 / 4 \quad 0.2500$ | 20 | 0.2500 | 0.2408 | 0.200 | 0.184 | 0.175 | 0.125 | 0.225 | 0.175 | 13/32 | 17/32 | 3/8 | 1/2 |
| $5 / 16$ | 18 | 0.3125 | 0.3026 | 0.257 | 0.239 | 0.194 | 0.139 | 0.250 | 0.194 | 15/32 | 19/32 | 7/16 | 9/16 |
| $3 / 8 \quad 0.3750$ | 16 | 0.3750 | 0.3643 | 0.312 | 0.293 | 0.219 | 0.156 | 0.281 | 0.219 | 1/2 | 11/16 | 15/32 | 5/8 |

## SERRATED FLANGE SCREWS

## Whiz-Lock Equivalents



| Size | W | F |
| :---: | :---: | :---: |
|  | Width Across <br> Flats | Flange <br> Dia |
| 6 | .187 | .260 |
| 8 | .250 | .348 |
| 10 | .312 | .433 |
| $1 / 4$ | .375 | .522 |
| $5 / 16$ | .500 | .696 |
| $3 / 8$ | .562 | .782 |


| Nominal Size or Basic Screw Diameter |  | Threads per Inch | E |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  | Body Diameter |
|  |  | Max. | Min. |
| 4 | 0.112 |  | 22 | 0.116 | 0.105 |
| 5 | 0.125 |  | 20 | 0.129 | 0.118 |
| 6 | 0.138 | 18 | 0.142 | 0.131 |
| 7 | 0.151 | 16 | 0.155 | 0.144 |
| 8 | 0.164 | 15 | 0.168 | 0.157 |
| 9 | 0.177 | 14 | 0.181 | 0.170 |
| 10 | 0.190 | 13 | 0.194 | 0.183 |
| 12 | 0.216 | 11 | 0.220 | 0.209 |
| 14 | 0.242 | 10 | 0.246 | 0.235 |

## SELF-DRILLING SCREWS

| Nominal <br> Size or <br> Basic Screw <br> Diameter | Threads <br> Per <br> Inch | T |  | t |  | P |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Minor Diameter |  | Protrusion <br> Allowance |  |  |  |  |
| 6 | 0.1380 | 20 | 0.139 | 0.135 | 0.104 | 0.099 | 0.190 | - |
| 8 | 0.1640 | 18 | 0.166 | 0.161 | 0.122 | 0.116 | 0.211 | - |
| 10 | 0.1900 | 16 | 0.189 | 0.183 | 0.141 | 0.135 | 0.235 | 0.300 |
| 12 | 0.2160 | 14 | 0.215 | 0.209 | 0.164 | 0.157 | - | 0.353 |
| $1 / 4$ | 0.2500 | 14 | 0.246 | 0.240 | 0.192 | 0.185 | - | 0.393 |

## THUMB SCREWS


P
Type $\mathbf{P}$

| Nominal Size or Basic Screw Diameter |  | Threads per Inch | A |  | B |  | C |  | C1 |  | L |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Head Width | Head Height |  | Head Thickness |  | Head Thickness |  | Practical Screw Lengths |  |
|  |  | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. |
| 8 | 0.164 |  | 32 | 0.51 | 0.49 | 0.32 | 0.30 | 0.09 | 0.07 | 0.04 | 0.02 | 1.00 | 0.38 |
| 10 | 0.190 |  | 24 | 0.89 | 0.83 | 0.78 | 0.66 | 0.18 | 0.16 | 0.08 | 0.06 | 2.00 | 0.50 |
| 1/4 | 0.250 | 20 | 1.05 | 0.99 | 0.94 | 0.81 | 0.24 | 0.22 | 0.10 | 0.08 | 3.00 | 0.50 |
| 5/16 | 0.312 | 18 | 1.21 | 1.15 | 1.00 | 0.88 | 0.27 | 0.25 | 0.11 | 0.09 | 4.00 | 0.50 |

Type S

| Nominal Size or Basic Screw Diameter | Threads per Inch | A |  | B |  | C |  | E |  | L |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Head Width |  | Head Height |  | Head Thickness |  | Shoulder <br> Diameter |  | Practical Screw Lengths |  |
|  |  | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. |
| 1/4 0.250 | 20 | 0.55 | 0.52 | 0.64 | 0.61 | 0.07 | 0.05 | 0.47 | 0.44 | 1.50 | 0.50 |

Due to variations in head dimensions from different manufacturers, thumb screws may not always conform to the listed (I.F.I.)specs.



## BUGLE HEAD

## Drywall Screws Deck Screws Particle Board Screws



| Size | A |  | H |  | R |  | I |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Head Diam. |  | Head Hgt. |  | Recess Diam. |  | Recess Depth |  |
|  | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. |
| 6 | .347 | .315 | .031 | .020 | .189 | .176 | .110 | .087 |
| 7 | .355 | .322 | .035 | .020 | .206 | .191 | .125 | .102 |
| 8 | .363 | .330 | .039 | .020 | .214 | .201 | .135 | .112 |
| 10 | .379 | .344 | .045 | .034 | .222 | .208 | .142 | .137 |

## FLAT HEAD TORX DRIVE (Floorboard)



| Screw Size | G |  | T | B | F |  | Drive Size |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Head Dimensions |  |  | Recess Dimensions |  |  |  |
|  | Max. <br> Sharp | Abs. <br> Min. | Ref. | Ref. | Gauge Penetration Min. | (Fallaway) Max. <br> Penetration Of No-Go Gage |  |
| 1/4 (.250) | . 507 | . 452 | . 153 | . 221 | . 060 | . 030 | T30 |
| 5/16 (.312) | . 635 | . 566 | . 191 | . 266 | . 087 | . 030 | T40 |

AMERICAN BOLT CORP.

## Dimensional Data

## DRYWALL AND DECK SCREWS



| $\begin{aligned} & \mathrm{T} \\ & \mathrm{w} \\ & \mathrm{i} \\ & \mathrm{n} \end{aligned}$ | Screw Size | A | U | M |  | D | d |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Head Dia. | Head Thickness | Recess Dia. | Recess Depth | Major Dia. | Minor Dia. |
|  | $\begin{gathered} \max \\ \# 6 \\ \min \end{gathered}$ | $\begin{aligned} & .340 \\ & .320 \end{aligned}$ | $\begin{aligned} & .031 \\ & .020 \end{aligned}$ | $\begin{aligned} & \max \\ & .189 \end{aligned}$ | $\begin{aligned} & .107 \\ & .087 \end{aligned}$ | $\begin{aligned} & .142 \\ & .136 \end{aligned}$ | $\begin{aligned} & .102 \\ & 0.96 \end{aligned}$ |
| s | $\begin{gathered} \max \\ \# 8 \\ \text { min } \end{gathered}$ | $\begin{aligned} & .358 \\ & .339 \end{aligned}$ | $\begin{aligned} & .039 \\ & .020 \end{aligned}$ | $\begin{aligned} & \max \\ & .205 \end{aligned}$ | $\begin{aligned} & .122 \\ & .115 \end{aligned}$ | $\begin{aligned} & .168 \\ & .160 \end{aligned}$ | $\begin{aligned} & .123 \\ & .116 \end{aligned}$ |
|  | $\begin{aligned} & \max \\ & \# 10 \\ & \min \end{aligned}$ | $\begin{aligned} & .376 \\ & .395 \end{aligned}$ | $\begin{aligned} & .044 \\ & .034 \end{aligned}$ | $\begin{aligned} & \max \\ & .221 \end{aligned}$ | $\begin{aligned} & .142 \\ & .137 \end{aligned}$ | $\begin{aligned} & .201 \\ & .193 \end{aligned}$ | $\begin{aligned} & .158 \\ & .152 \end{aligned}$ |

# TOLERANCE ON LENGTH 

## Machine Screws

| Nominal Screw Size | 0 thru 12 | $1 / 4$ thru 3/4 |
| :---: | :---: | :---: |
| Nominal Screw Length | Tolerance on Length |  |
| Up to $1 / 2$ in., Incl. | -0.02 | -0.03 |
| Over $1 / 2$ t 1 in., Incl . | -0.03 | -0.03 |
| Over 1 to 2 in., Incl. | -0.06 | -0.06 |
| Over 2 in. | -0.09 | -0.09 |



Type A - AB

| Nominal Screw Length | Tolerance on Length |
| :---: | :---: |
| Up to 1 in., Incl . | $\pm 0.03$ |
| Over 1 in. | $\pm 0.05$ |

Type B, F, H-L
1, 25 and 23

| Nominal Screw Length | Tolerance on Length |
| :---: | :---: |
| Up to $3 / 4$ in., Incl. | -0.03 |
| Over 3/4 to $1-1 / 2$ in., Incl. | -0.05 |



H-L


1


Type U


| Nominal Screw Length | Tolerance on Length |
| :---: | :---: |
| Up to $3 / 8$ in., Incl. | $\pm 0.02$ |
| Over $3 / 8$ in. | $\pm 0.03$ |

## Wood Screws

| Nominal Screw Length | Tolerance on Length |
| :--- | :---: |
| Up to 5/8 in., Incl. | -0.03 |
| Over 5/8 to $1-1 / 2$ in., Incl. | -0.05 |
| Over 1-1/2 to $2-3 / 4$ in., Incl. | -0.06 |
| Over 2-3/4 to 5 in., Incl. | -0.09 |



