

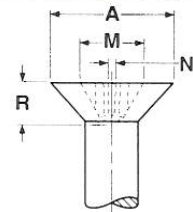
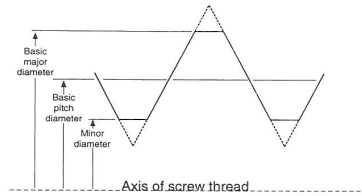
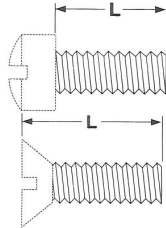
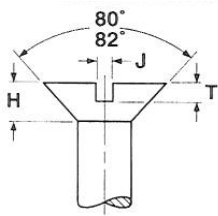


Atlanta, Georgia

Phone 800-521-7326

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Flat Head Machine Screw 80°



| Peco Catalog# | Size and Threads Per Inch | Series Designation | Allowance | Major Diameter | | Pitch Diameter | | | Tensile Strength, lb. Min** | Stress Area Inches ² | A | | H | | J | | T | | M R N | | | F | | Gaging Diameter | Phillips Bit Size | | |
|----------------------------------|---------------------------|--------------------|-----------|----------------|-------|-----------------|-------|---------------|-----------------------------|---------------------------------|---------------|-------------|------------|------------|---------------------|------|------|----------------------------------|--------|-------|-------|------|------|-----------------|-------------------|-----|-----|
| | | | | Min | Max | Min | Max | Tolerance | | | Head Diameter | Head Height | Slot Width | Slot Depth | Dimension of Recess | | | Protrusion Above Gaging Diameter | | | | | | | | | |
| | | | | | | | | | | | Min | Max | Min | Max | Min | Max | Min | Max | Diamet | Depth | Width | Min | Max | | | Min | Max |
| | 4-40 | 0.112 | UNC | .0008 | .1061 | .1112 | .0925 | .0950 | .0025 | 360 | 0.00604 | .191 | .212 | .055 | .067 | .031 | .039 | .020 | .030 | .105 | .072 | .019 | .019 | .032 | .172 | 1 | |
| | 5-40 | 0.125 | UNC | .0008 | .1191 | .1242 | .1054 | .1080 | .0026 | 470 | 0.00796 | .215 | .237 | .062 | .075 | .035 | .043 | .022 | .034 | .141 | .074 | .027 | .020 | .034 | .196 | 2 | |
| | 6-32 | 0.138 | UNC | .0008 | .1312 | .1372 | .1141 | .1169 | .0028 | 550 | 0.00909 | .238 | .262 | .069 | .083 | .039 | .048 | .024 | .038 | .149 | .084 | .027 | .021 | .036 | .220 | 2 | |
| | 8-32 | 0.164 | UNC | .0009 | .1571 | .1631 | .1399 | .1428 | .0029 | 850 | 0.0140 | .285 | .312 | .084 | .100 | .045 | .054 | .029 | .045 | .165 | .101 | .030 | .023 | .039 | .267 | 2 | |
| See Section Three of Our Catalog | 10-24 | 0.190 | UNC | .0010 | .1818 | .1890 | .1586 | .1619 | .0033 | 1050 | 0.0175 | .333 | .362 | .098 | .116 | .050 | .060 | .034 | .053 | .182 | .119 | .031 | .025 | .042 | .313 | 2 | |
| | 10-32 | 0.190 | UNF | .0009 | .1831 | .1891 | .1658 | .1688 | .0030 | 1200 | 0.0200 | .333 | .362 | .098 | .116 | .050 | .060 | .034 | .053 | .182 | .119 | .031 | .025 | .042 | .313 | 2 | |
| | 12-24 | 0.216 | UNC | .0010 | .2078 | .2150 | .1845 | .1879 | .0034 | 1450 | 0.0242 | .380 | .412 | .112 | .132 | .056 | .067 | .039 | .060 | .236 | .125 | .032 | .027 | .045 | .362 | 3 | |
| | 1/4-20 | 0.250 | UNC | .0011 | .2408 | .2489 | .2127 | .2164 | .0037 | 1900 | 0.0318 | .442 | .477 | .131 | .153 | .064 | .075 | .046 | .070 | .255 | .147 | .034 | .029 | .050 | .424 | 3 | |
| | 1/4-28 | 0.250 | UNF | .0010 | .2425 | .2490 | .2225 | .2258 | .0033 | 2200 | 0.0364 | .442 | .477 | .131 | .153 | .064 | .075 | .046 | .070 | .255 | .147 | .034 | .029 | .050 | .424 | 3 | |
| | 5/16-18 | 0.312 | UNC | .0012 | .3026 | .3113 | .2712 | .2752 | .0040 | 3150 | 0.0524 | .556 | .597 | .165 | .191 | .072 | .084 | .058 | .088 | .295 | .187 | .040 | .034 | .057 | .539 | 4 | |
| | 3/8-16 | 0.375 | UNC | .0013 | .3643 | .3737 | .3287 | .3331 | .0044 | 4650 | 0.0775 | .670 | .717 | .200 | .230 | .081 | .094 | .070 | .106 | .374 | .228 | .064 | .039 | .065 | .653 | 4 | |
| | 1/2-13 | 0.500 | UNC | .0015 | .4876 | .4985 | .4435 | .4485 | .0050 | 8500 | 0.1419 | .765 | .815 | .186 | .223 | .091 | .106 | .065 | .103 | .403 | .256 | .068 | .049 | .081 | .739 | 4 | |
| Tolerance on Length L | | Screw Size | | Screw Length | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | Up To 1/2" | | Over 1/2" to 1" | | Over 1" to 2" | | Over 2" | | | | | | | | | | | | | | | | | |
| | | 4 - 12 | | -0.02 | | -0.03 | | -0.06 | | -0.09 | | | | | | | | | | | | | | | | | |
| | | 1/4 - 3/4 | | -0.03 | | -0.03 | | -0.06 | | -0.06 | | | | | | | | | | | | | | | | | |

**Tensile strength is based off of 60,000 psi. and only apply to carbon steel screws. Hex and Hex Washer Head machine screws of adequate length may be wedge tensile tested. Other head styles can be axial tensile tested.

ANSI B18.6.3

| | |
|------------------|--|
| Material | AISI 1006 - 1022 or equivalent Steel or Stainless SAE 18-8 Stainless Steel Passivated |
| Hardness | Steel: Rockwell B70 - B100 - Stainless: Rockwell B85 - B95 |
| Tensile Strength | Size 4 and 5 diameter and lengths shorter than 1/2" are not subject to tensile testing. Steel: 60,000 psi. minimum - Stainless: 80,000 psi minimum |

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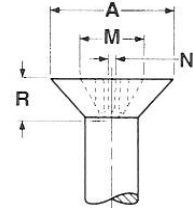
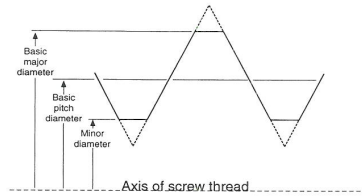
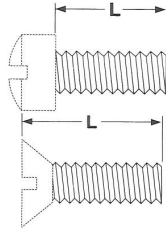
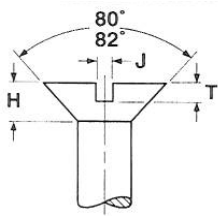


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Flat Head Machine Screw 80°



| Peco Catalog# | Size and Threads Per Inch | Series Designation | Allowance | Major Diameter | | Pitch Diameter | | | Tensile Strength, lb. Min** | Stress Area Inches ² | A | | H | | J | | T | | M R N | | | F | | Gaging Diameter | Phillips Bit Size |
|----------------------------------|---------------------------|--------------------|-----------|----------------|-------|----------------|-------|-----------|-----------------------------|---------------------------------|------|------|------|------|------|------|------|------|---------------------|--------|-------|----------------------------------|------|-----------------|-------------------|
| | | | | Min | Max | Min | Max | Tolerance | | | Min | Max | Min | Max | Min | Max | Min | Max | Dimension of Recess | | | Protrusion Above Gaging Diameter | | | |
| | | | | | | | | | | | | | | | | | | | | Diamet | Depth | Width | Min | | |
| | 4-40 | 0.112 UNC | .0008 | .1061 | .1112 | .0925 | .0950 | .0025 | 360 | 0.00604 | .191 | .212 | .055 | .067 | .031 | .039 | .020 | .030 | .105 | .072 | .019 | .019 | .032 | .172 | 1 |
| | 5-40 | 0.125 UNC | .0008 | .1191 | .1242 | .1054 | .1080 | .0026 | 470 | 0.00796 | .215 | .237 | .062 | .075 | .035 | .043 | .022 | .034 | .141 | .074 | .027 | .020 | .034 | .196 | 2 |
| | 6-32 | 0.138 UNC | .0008 | .1312 | .1372 | .1141 | .1169 | .0028 | 550 | 0.00909 | .238 | .262 | .069 | .083 | .039 | .048 | .024 | .038 | .149 | .084 | .027 | .021 | .036 | .220 | 2 |
| | 8-32 | 0.164 UNC | .0009 | .1571 | .1631 | .1399 | .1428 | .0029 | 850 | 0.0140 | .285 | .312 | .084 | .100 | .045 | .054 | .029 | .045 | .165 | .101 | .030 | .023 | .039 | .267 | 2 |
| See Section Three of Our Catalog | 10-24 | 0.190 UNC | .0010 | .1818 | .1890 | .1586 | .1619 | .0033 | 1050 | 0.0175 | .333 | .362 | .098 | .116 | .050 | .060 | .034 | .053 | .182 | .119 | .031 | .025 | .042 | .313 | 2 |
| | 10-32 | 0.190 UNF | .0009 | .1831 | .1891 | .1658 | .1688 | .0030 | 1200 | 0.0200 | .333 | .362 | .098 | .116 | .050 | .060 | .034 | .053 | .182 | .119 | .031 | .025 | .042 | .313 | 2 |
| | 12-24 | 0.216 UNC | .0010 | .2078 | .2150 | .1845 | .1879 | .0034 | 1450 | 0.0242 | .380 | .412 | .112 | .132 | .056 | .067 | .039 | .060 | .236 | .125 | .032 | .027 | .045 | .362 | 3 |
| | 1/4-20 | 0.250 UNC | .0011 | .2408 | .2489 | .2127 | .2164 | .0037 | 1900 | 0.0318 | .442 | .477 | .131 | .153 | .064 | .075 | .046 | .070 | .255 | .147 | .034 | .029 | .050 | .424 | 3 |
| | 1/4-28 | 0.250 UNF | .0010 | .2425 | .2490 | .2225 | .2258 | .0033 | 2200 | 0.0364 | .442 | .477 | .131 | .153 | .064 | .075 | .046 | .070 | .255 | .147 | .034 | .029 | .050 | .424 | 3 |
| | 5/16-18 | 0.312 UNC | .0012 | .3026 | .3113 | .2712 | .2752 | .0040 | 3150 | 0.0524 | .556 | .597 | .165 | .191 | .072 | .084 | .058 | .088 | .295 | .187 | .040 | .034 | .057 | .539 | 4 |
| | 3/8-16 | 0.375 UNC | .0013 | .3643 | .3737 | .3287 | .3331 | .0044 | 4650 | 0.0775 | .670 | .717 | .200 | .230 | .081 | .094 | .070 | .106 | .374 | .228 | .064 | .039 | .065 | .653 | 4 |
| | 1/2-13 | 0.500 UNC | .0015 | .4876 | .4985 | .4435 | .4485 | .0050 | 8500 | 0.1419 | .765 | .815 | .186 | .223 | .091 | .106 | .065 | .103 | .403 | .256 | .068 | .049 | .081 | .739 | 4 |
| Tolerance on Length L | | Screw Size | | Screw Length | | | | | | | | | | | | | | | | | | | | | |
| | | Up To 1/2" | | | | | | | | | | | | | | | | | | | | | | | |
| | | 4 - 12 | | | | | | | | | | | | | | | | | | | | | | | |
| | | 1/4 - 3/4 | | | | | | | | | | | | | | | | | | | | | | | |

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