



Atlanta, Georgia
 Phone 800-521-7326 Fax 770-745-1333

Hex Washer Head Self Drill Point Screw
 Zinc Plated & Stainless Steel

Diagram 1

Diagram 2



Drill Point Specification (Diagram 1)

| Peco Catalog# | Screw Diameter | | Threads Per Inch | T | | t | | P | | Min Practical Nominal Screw Lengths - Formed Points | | | | Min Torsional Strength Lb./In. Steel Screws Only |
|--------------------------------------|----------------|--------|------------------|----------------|------|----------------|------|----------------------|----------|---|-----------------|-----------------|-----------------|--|
| | | | | Major Diameter | | Minor Diameter | | Protrusion Allowance | | | | | | |
| | | | | Min | Max | Min | Max | #2 Point | #3 Point | 90° Head #2 Pt. | CSK Head #3 Pt. | 90° Head #2 Pt. | CSK Head #3 Pt. | |
| See Section One of Our Catalog | 4 | 0.1120 | 24 | .110 | .114 | .082 | .086 | .163 | n/a | 5/16 | 3/8 | n/a | n/a | 14 |
| | 6 | 0.1380 | 20 | .135 | .139 | .099 | .104 | .190 | .220 | 5/16 | 3/8 | 3/8 | 7/16 | 24 |
| | 7 | 0.1510 | 19 | .146 | .153 | .109 | .113 | .137 | .157 | 5/16 | 3/8 | 3/8 | 7/16 | - |
| | 8 | 0.1640 | 18 | .161 | .166 | .116 | .122 | .211 | .251 | 3/8 | 7/16 | 4/16 | 1/2 | 42 |
| | 10 | 0.1900 | 16 | .183 | .189 | .135 | .141 | .235 | .300 | 7/16 | 1/2 | 1/2 | 9/16 | 61 |
| | 12 | 0.2160 | 14 | .209 | .215 | .157 | .164 | .283 | .353 | 1/2 | 5/8 | 1/2 | 5/8 | 92 |
| 1/4 | .2500 | 14 | .240 | .246 | .185 | .192 | .318 | .393 | 1/2 | 5/8 | 1/2 | 5/8 | 150 | |

5/16" and 3/8" diameter are #3 Point (Diagram 2)

Self-Drilling Screw Selection Chart*

| Screw Diameter | | Threads Per Inch | | T | | t | | A | | B | | Screw Size | Point # | Panel Thickness, In. Min-Max | |
|----------------|-------|------------------|-------|----------------|-------|----------------|-------|--------------------|-------|---------------------------|-----|------------|---------|------------------------------|--|
| | | | | Major Diameter | | Minor Diameter | | Drill Point Length | | Penetrating Gauging Depth | | | | | |
| | | | | Min | Max | Min | Max | Min | Max | Min | Max | | | | |
| 5/16 | .3125 | 12 | 0.307 | 0.315 | 0.263 | 0.272 | 0.361 | 0.421 | 0.265 | 0.270 | 4 | 2 | 0.035 | 0.060 | |
| | | | | | | | | | | | 6 | 2 | 0.035 | 0.090 | |
| | | | | | | | | | | | 8 | 2 | 0.035 | 0.100 | |
| | | | | | | | | | | | 10 | 2 | 0.035 | 0.110 | |
| 3/8 | .3750 | 12 | 0.370 | 0.380 | 0.298 | 0.308 | 0.314 | 0.354 | 0.330 | 0.338 | 10 | 3 | 0.110 | 0.175 | |
| | | | | | | | | | | | 12 | 3 | 0.110 | 0.210 | |
| 1/4 | .2500 | 14 | .240 | .246 | .185 | .192 | .318 | .393 | 1/2 | 5/8 | 1/2 | 5/8 | 150 | | |

*This is strictly a guide, no warranty is implied or applicable.

| | |
|-----------------------|--|
| Material | AISI 1016 - 1024 or equivalent Steel or Stainless Austenitic 18-8 or 410 Stainless Steel |
| Heat Treatment | Steel - Quenched in liquid and tempered by reheating to 625°F minimum. Stainless Steel 410 tempered by heating to 1800°F-1900°F Held for min of 30 minutes. Reheated to 500°F-600°F for 60 minutes. Then air cooled. |
| Core Hardness | Steel - Rockwell C32 - C40 Stainless Steel 410 - Rockwell C38 - C42 Stainless Steel 18-8 - Rockwell B90 - C25 |
| Case Depth | No. 4 and No. 6 diameter .002 - .007 No. 8 - No. 12 .004 - .009 1/4" and larger .005 - .011 |

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**Hex Washer Head Self Drill Point Screw
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Head Dimensions and Specifications

| Screw Diameter | Minimum Torsional Strength, Lb. Steel Screws Only | Hex Chuck Size | A | | W | | H | | F | | U | | J | | T | |
|----------------|---|----------------|--------------------|------|----------------------|------|-------------|------|--------------------|------|---------------------|------|---------------|------|---------------|------|
| | | | Width Across Flats | | Width Across Corners | | Head Height | | Diameter of Washer | | Thickness of Washer | | Width of Slot | | Depth of Slot | |
| | | | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max |
| 6 | 0.1380 | 24 | 1/4 | .244 | .250 | .272 | .080 | .093 | .302 | .328 | .015 | .025 | .039 | .048 | .033 | .046 |
| 7 | 0.1510 | 30 | 1/4 | .244 | .250 | .272 | .080 | .093 | .302 | .328 | .017 | .029 | .039 | .048 | .040 | .054 |
| 8 | 0.1640 | 39 | 1/4 | .244 | .250 | .272 | .096 | .110 | .322 | .348 | .019 | .031 | .045 | .054 | .052 | .066 |
| 10 | 0.1900 | 48 | 5/16 | .305 | .312 | .340 | .105 | .120 | .384 | .414 | .019 | .031 | .050 | .060 | .057 | .072 |
| 12 | 0.2160 | 83 | 5/16 | .305 | .312 | .340 | .139 | .155 | .398 | .432 | .022 | .039 | .056 | .067 | .077 | .093 |
| 14 | 0.2420 | 125 | 3/8 | .367 | .375 | .409 | .172 | .190 | .480 | .520 | .030 | .050 | .064 | .075 | .083 | .101 |
| 1/4 | .2500 | 142 | 3/8 | .367 | .375 | .409 | .172 | .190 | .480 | .520 | .030 | .050 | .064 | .075 | .083 | .101 |

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Diagram 1

Diagram 2



Drill Point Specification (Diagram 1)

| Peco Catalog# | Screw Diameter | | Threads Per Inch | T | | t | | P | | Min Practical Nominal Screw Lengths - Formed Points | | | | Min Torsional Strength Lb./In. Steel Screws Only |
|--------------------------------------|----------------|--------|------------------|----------------|------|----------------|------|----------------------|----------|---|-----------------|-----------------|-----------------|---|
| | | | | Major Diameter | | Minor Diameter | | Protrusion Allowance | | | | | | |
| | | | | Min | Max | Min | Max | #2 Point | #3 Point | 90° Head #2 Pt. | CSK Head #3 Pt. | 90° Head #2 Pt. | CSK Head #3 Pt. | |
| See Section One of Our Catalog | 4 | 0.1120 | 24 | .110 | .114 | .082 | .086 | .163 | n/a | 5/16 | 3/8 | n/a | n/a | 14 |
| | 6 | 0.1380 | 20 | .135 | .139 | .099 | .104 | .190 | .220 | 5/16 | 3/8 | 3/8 | 7/16 | 24 |
| | 7 | 0.1510 | 19 | .146 | .153 | .109 | .113 | .137 | .157 | 5/16 | 3/8 | 3/8 | 7/16 | - |
| | 8 | 0.1640 | 18 | .161 | .166 | .116 | .122 | .211 | .251 | 3/8 | 7/16 | 4/16 | 1/2 | 42 |
| | 10 | 0.1900 | 16 | .183 | .189 | .135 | .141 | .235 | .300 | 7/16 | 1/2 | 1/2 | 9/16 | 61 |
| | 12 | 0.2160 | 14 | .209 | .215 | .157 | .164 | .283 | .353 | 1/2 | 5/8 | 1/2 | 5/8 | 92 |
| 1/4 | .2500 | 14 | .240 | .246 | .185 | .192 | .318 | .393 | 1/2 | 5/8 | 1/2 | 5/8 | 150 | |

5/16" and 3/8" diameter are #3 Point (Diagram 2)

Self-Drilling Screw Selection Chart*

| Screw Diameter | | Threads Per Inch | | T | | t | | A | | B | | Screw Size | Point # | Panel Thickness, In. Min-Max | |
|----------------|-------|------------------|-------|----------------|-------|----------------|-------|--------------------|-------|---------------------------|-----|------------|---------|------------------------------|--|
| | | | | Major Diameter | | Minor Diameter | | Drill Point Length | | Penetrating Gauging Depth | | | | | |
| | | | | Min | Max | Min | Max | Min | Max | Min | Max | | | | |
| 5/16 | .3125 | 12 | 0.307 | 0.315 | 0.263 | 0.272 | 0.361 | 0.421 | 0.265 | 0.270 | 4 | 2 | 0.035 | 0.060 | |
| | | | | | | | | | | | 6 | 2 | 0.035 | 0.090 | |
| | | | | | | | | | | | 8 | 2 | 0.035 | 0.100 | |
| | | | | | | | | | | | 10 | 2 | 0.035 | 0.110 | |
| 3/8 | .3750 | 12 | 0.370 | 0.380 | 0.298 | 0.308 | 0.314 | 0.354 | 0.330 | 0.338 | 10 | 3 | 0.110 | 0.175 | |
| | | | | | | | | | | | 12 | 3 | 0.110 | 0.210 | |
| 1/4 | | | | | | | | | | | 1/4 | 3 | 0.110 | 0.220 | |

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| | |
|-----------------------|--|
| Material | AISI 1016 - 1024 or equivalent Steel or Stainless Austenitic 18-8 or 410 Stainless Steel |
| Heat Treatment | Steel - Quenched in liquid and tempered by reheating to 625°F minimum. Stainless Steel 410 tempered by heating to 1800°F-1900°F Held for min of 30 minutes. Reheated to 500°F-600°F for 60 minutes. Then air cooled. |
| Core Hardness | Steel - Rockwell C32 - C40 Stainless Steel 410 - Rockwell C38 - C42 Stainless Steel 18-8 - Rockwell B90 - C25 |
| Case Depth | No. 4 and No. 6 diameter .002 - .007 No. 8 - No. 12 .004 - .009 1/4" and larger .005 - .011 |

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|----------------|---|----------------|--------------------|------|----------------------|------|-------------|------|--------------------|------|---------------------|------|---------------|------|---------------|------|
| | | | Width Across Flats | | Width Across Corners | | Head Height | | Diameter of Washer | | Thickness of Washer | | Width of Slot | | Depth of Slot | |
| | | | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max |
| 6 | 0.1380 | 24 | 1/4 | .244 | .250 | .272 | .080 | .093 | .302 | .328 | .015 | .025 | .039 | .048 | .033 | .046 |
| 7 | 0.1510 | 30 | 1/4 | .244 | .250 | .272 | .080 | .093 | .302 | .328 | .017 | .029 | .039 | .048 | .040 | .054 |
| 8 | 0.1640 | 39 | 1/4 | .244 | .250 | .272 | .096 | .110 | .322 | .348 | .019 | .031 | .045 | .054 | .052 | .066 |
| 10 | 0.1900 | 48 | 5/16 | .305 | .312 | .340 | .105 | .120 | .384 | .414 | .019 | .031 | .050 | .060 | .057 | .072 |
| 12 | 0.2160 | 83 | 5/16 | .305 | .312 | .340 | .139 | .155 | .398 | .432 | .022 | .039 | .056 | .067 | .077 | .093 |
| 14 | 0.2420 | 125 | 3/8 | .367 | .375 | .409 | .172 | .190 | .480 | .520 | .030 | .050 | .064 | .075 | .083 | .101 |
| 1/4 | .2500 | 142 | 3/8 | .367 | .375 | .409 | .172 | .190 | .480 | .520 | .030 | .050 | .064 | .075 | .083 | .101 |

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