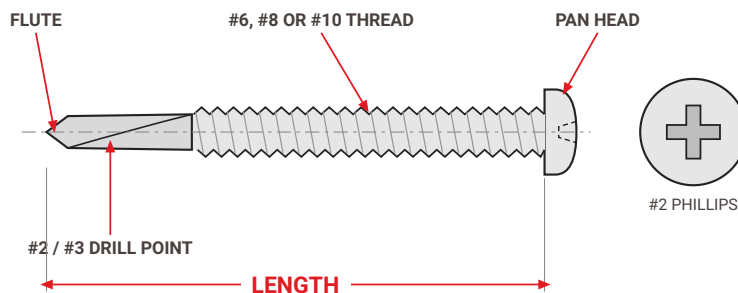




PRODUCT DATA SHEET

# Phillips Pan Head Self-Drilling Screws

**1.0 Sizes Stocked** Pan head • #2 Phillips drive • #2 / #3 drill point • zinc plated



LENGTH MEASURED FROM UNDER HEAD • MAX DRILL CAPACITY 0.112" (#2) / 0.175" (#3)

| Diameter | Length | Threads / Inch | Drive       | Drill Point | Max Drill Capacity | Nutty Stock # |
|----------|--------|----------------|-------------|-------------|--------------------|---------------|
| #6       | 1/2"   | 20             | #2 Phillips | #2          | 0.112"             | PT612         |
| #6       | 5/8"   | 20             | #2 Phillips | #2          | 0.112"             | PT658         |
| #6       | 3/4"   | 20             | #2 Phillips | #2          | 0.112"             | PT634         |
| #6       | 1"     | 20             | #2 Phillips | #2          | 0.112"             | PT61          |
| #8       | 1/2"   | 18             | #2 Phillips | #2          | 0.112"             | PT812         |
| #8       | 5/8"   | 18             | #2 Phillips | #2          | 0.112"             | PT858         |
| #8       | 3/4"   | 18             | #2 Phillips | #2          | 0.112"             | PT834         |
| #8       | 1"     | 18             | #2 Phillips | #2          | 0.112"             | PT81          |
| #8       | 1-1/4" | 18             | #2 Phillips | #2          | 0.112"             | PT8114        |
| #8       | 1-1/2" | 18             | #2 Phillips | #2          | 0.112"             | PT8112        |
| #10      | 1/2"   | 16             | #2 Phillips | #3          | 0.175"             | PT1012        |
| #10      | 5/8"   | 16             | #2 Phillips | #3          | 0.175"             | PT1058        |
| #10      | 3/4"   | 16             | #2 Phillips | #3          | 0.175"             | PT1034        |
| #10      | 1"     | 16             | #2 Phillips | #3          | 0.175"             | PT101         |
| #10      | 1-1/4" | 16             | #2 Phillips | #3          | 0.175"             | PT10114       |
| #10      | 1-1/2" | 16             | #2 Phillips | #3          | 0.175"             | PT10112       |
| #10      | 2"     | 16             | #2 Phillips | #3          | 0.175"             | PT102         |

## 2.0 Performance Ultimate values

| Load                   | Diameter | Steel Thickness Fastened |        |        |        |        |        |        | Min. Torsional Strength (in-lb) |
|------------------------|----------|--------------------------|--------|--------|--------|--------|--------|--------|---------------------------------|
|                        |          | 25 Ga.                   | 22 Ga. | 20 Ga. | 18 Ga. | 16 Ga. | 14 Ga. | 12 Ga. |                                 |
| Tension (lb) – Pullout | #6       | 128                      | 176    | 263    | 426    | 498    | 911    | 1,156  | 24                              |
| Shear (lb) – Bearing   | #6       | –                        | 449    | 683    | 728    | 1,091  | 1,148  | –      |                                 |
| Tension (lb) – Pullout | #8       | 97                       | 196    | 285    | 444    | 550    | 924    | 1,100  | 42                              |
| Shear (lb) – Bearing   | #8       | –                        | 580    | 829    | 994    | 1,096  | 1,332  | 1,337  |                                 |
| Tension (lb) – Pullout | #10      | –                        | –      | 389    | 554    | 727    | 1,050  | 1,216  | 61                              |
| Shear (lb) – Bearing   | #10      | –                        | –      | 811    | 1,223  | 1,492  | 1,545  | 1,650  |                                 |

Gauge = thickness of the steel being fastened. – = no published value.

## 3.0 Material & Specifications

| Property     | Specification                                                                                                                                                                                                                                                                                                                     |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Material     | C1022 low carbon steel. Core hardness HV 240–425                                                                                                                                                                                                                                                                                  |
| Finish       | Zinc plating – 24-hour minimum salt spray corrosion resistance (ASTM B117)                                                                                                                                                                                                                                                        |
| Application  | Metal to metal applications                                                                                                                                                                                                                                                                                                       |
| Installation | Screw gun with depth-sensitive nosepiece; speed not to exceed 2,500 RPM. Overdriving may cause fastener failure or strip-out of the work surface. The fastener is fully seated when the head's bearing surface is flush with the material being attached. Impact drivers are not recommended – they can strip or break the screw. |

## 4.0 Reference Standards

| Standard   | Description                                                                               |
|------------|-------------------------------------------------------------------------------------------|
| ASTM A510  | General requirements for carbon steel wire rods (minimum grade 1018)                      |
| ASTM B117  | Standard practice for operating salt spray (fog) apparatus                                |
| ASTM C1513 | Steel tapping screws for cold-formed steel framing connections                            |
| SAE J78    | Dimensional, mechanical & performance requirements for steel self-drilling tapping screws |

**Disclaimer:** The above is a compilation of data from various industry standards. The Nutty Company, Inc. has made every effort to present the data accurately. However, The Nutty Company, Inc. cannot be held liable for any claim traceable to any errors, typographical or otherwise, contained herein.



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