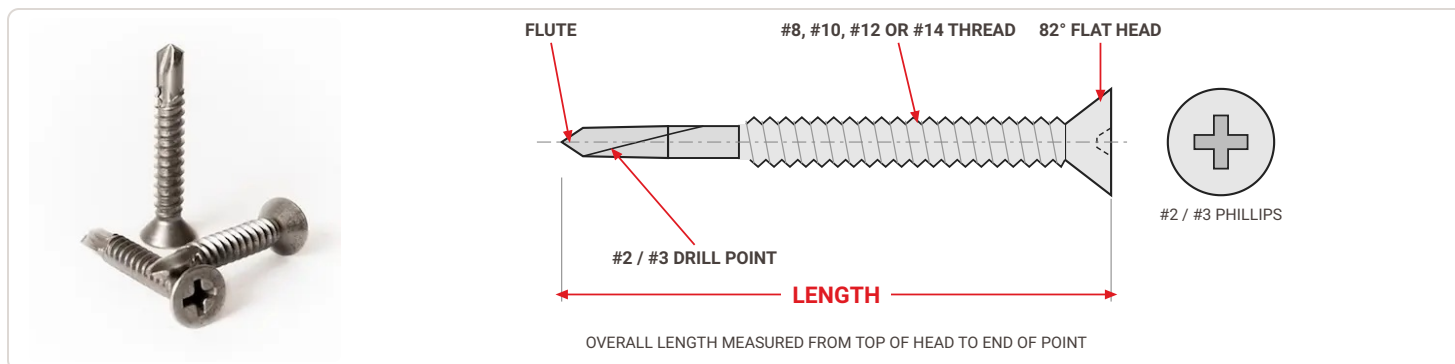




PRODUCT DATA SHEET

Phillips Flat Head Self-Drilling Screws

1.0 Sizes Stocked 82° flat head • #2 / #3 Phillips drive • #2 / #3 drill point • zinc plated



Diameter	Length	Threads / Inch	Drive	Drill Point	Max Drill Capacity	Nutty Stock #
#8	3/4"	18	#2 Phillips	#2	0.112"	FT834
#8	1"	18	#2 Phillips	#2	0.112"	FT81
#8	1-1/4"	18	#2 Phillips	#2	0.112"	FT8114
#8	1-1/2"	18	#2 Phillips	#2	0.112"	FT8112
#10	1"	16	#2 Phillips	#3	0.175"	FT101
#10	1-1/4"	16	#2 Phillips	#3	0.175"	FT10114
#10	1-1/2"	16	#2 Phillips	#3	0.175"	FT10112
#10	2"	16	#2 Phillips	#3	0.175"	FT102
#12	1-1/4"	14	#3 Phillips	#3	0.210"	FT12114
#12	1-1/2"	14	#3 Phillips	#3	0.210"	FT12112
#12	2"	14	#3 Phillips	#3	0.210"	FT122
#12	2-1/2"	14	#3 Phillips	#3	0.210"	FT12212
#12	3"	14	#3 Phillips	#3	0.210"	FT123
#14	1-1/2"	14	#3 Phillips	#3	0.220"	FT14112
#14	2"	14	#3 Phillips	#3	0.220"	FT142
#14	2-1/2"	14	#3 Phillips	#3	0.220"	FT14212
#14	3"	14	#3 Phillips	#3	0.220"	FT143

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.	3/16"	
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	–	
Tension (lb) – Pullout	#12	–	–	–	472	735	1,057	1,242	3,394	92
Shear (lb) – Bearing	#12	–	–	–	983	1,556	2,072	2,210	–	
Tension (lb) – Pullout	#14	–	–	300	402	776	1,057	1,477	3,941	156
Shear (lb) – Bearing	#14	–	–	797	1,083	1,942	2,300	2,754	–	

Gauge = thickness of the steel being fastened. Torsional strength = minimum torque to failure. – = 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 (#8 & #10) or 1,800 RPM (#12 & #14). Overdriving may cause fastener failure or strip-out of the work surface. The screw must penetrate beyond the metal with a minimum of three threads protruding past the back side. 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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