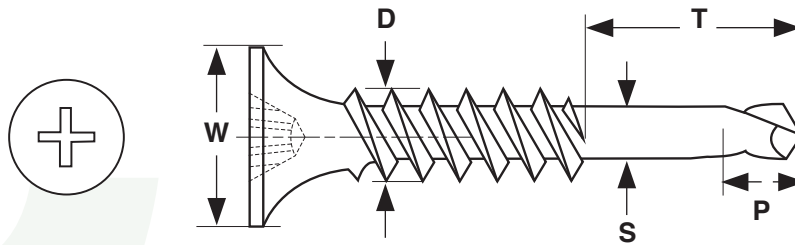


SELF- TAPPING SCREWS

SELF-DRILLING

Bugle Phillips
with Pilot Point

BUGLE PHILLIPS SELF-DRILLING SCREW WITH PILOT POINT

Nominal Diameter	Threads per Inch	W		D		S	T	P	Recess Size
		Head Diameter		Major Thread Diameter		Unthreaded Shank Diam	Total Length of Pilot Point	Drill Point Length	
		Max	Min	Max	Min	Ref	Ref	Ref	
8	18	.363	.315	.166	.161	.128	.763	.270	2
Tolerance on Length						-0.06			

Description	An externally threaded fastener that has a countersunk head with a flat top surface, cross-shaped recess, a concave bearing surface on the underside of the head, spaced thread and self drilling point.
Applications/ Advantages	Common usage is to attach lumber 3/4" or less in thickness to steel..
Material	AISI 1016 - 1022 or equivalent steel.
Heat Treatment	Screws shall be quenched in liquid and then tempered by reheating to 625°F minimum.
Surface Hardness	Rockwell C 52 - 58
Case Depth	#8 & #10 diameters: .004 - .009
Core Hardness (after tempering)	Rockwell C 32 - 40
Average Pullout*	20 gauge steel: 292 Lbs.; 18 gauge: 479 Lbs.; 16 gauge: 685 Lbs.; 14 gauge: 933 Lbs.
Average Shear*	20 gauge steel: 721 Lbs.; 18 gauge: 1031 Lbs.; 16 gauge: 1049 Lbs.
Plating	Screws are commonly available in zinc or black phosphate coatings. See Appendix-A for details.

* NOTE: Pullout and Shear values listed were achieved under laboratory conditions. They should be used as a guide and safety factors should be used when designing applications.