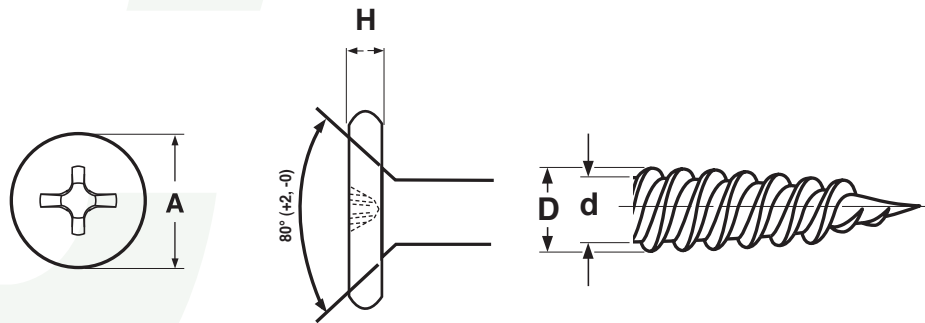


SELF- TAPPING SCREWS

Pancake Phillips

SELF-PIERCING



PANCAKE PHILLIPS SELF-PIERCING SCREWS

Size	A		H		D		d		Phillips Driver Size
	Head Diameter		Head Height		Major Diameter		Minor Diameter		
	Max	Min	Max	Min	Max	Min	Max	Min	
10 - 12	.441	.425	.098	.079	.194	.188	.133	.126	2
Tolerance on Length							± 0.05		

Description	An externally threaded fastener with a low-profile, disk-shaped head, a single lead thread rolled to the tip of an extra sharp point, and a second thread spaced 180° apart. The head is identically smooth on both the top and the bottom, bearing surface with a rounded edge. The top of the shank has a small section with an 80° countersink before it meets the bearing surface of the head. The recess is punched to accommodate a Phillips screwdriver.
Applications/ Advantages	Popular in applications that require minimal protrusion above the mating surface, including: metal roofing, steel framing, interior metal walls, HVAC applications. May be used in thin metal (less than .050 thick). Eliminates need for pre-drilled or pre-punched holes. Twin lead threads help to reduce driving torque.
Material	AISI 1018 - 1022 or equivalent steel
Heat Treatment	Screws shall be quenched in liquid and then tempered by reheating to 650°F minimum.
Surface Hardness	Rockwell C45 minimum
Case Depth	<i>No. 10 diameter:</i> .004 - .009
Core Hardness (after tempering)	Rockwell C28 - 38
Plating	See Appendix-A for plating information.