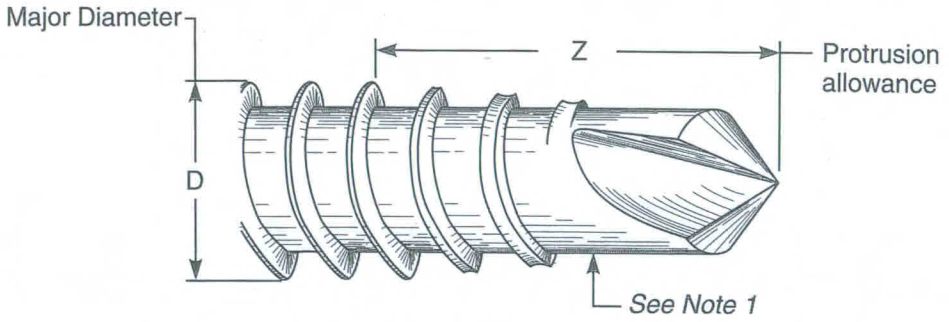

Table 2 Dimensions of Threads and Points for Types BSD and CSD Self-Drilling Tapping Screws

Nominal Size or Basic Screw Diameter		Type BSD							Type CSD					Types BSD and CSD							
		Threads per Inch	D		d		Z		Threads per Inch	D		Z		L							
			Major Diameter		Minor Diameter		Protrusion Allowance (Ref)			Major Diameter		Protrusion Allowance (Ref)		Minimum Practical Nominal Screw Lengths (Ref)							
														Style 2 Points				Style 3 Points			
														Formed		Milled		Formed		Milled	
			Max	Min	Max	Min	Style 2 Point	Style 3 Point		Max	Min	Style 2 Point	Style 3 Point	90 Deg Heads	Csk Heads	90 Deg Heads	Csk Heads	90 Deg Heads	Csk Heads	90 Deg Heads	Csk Heads
4	0.1120	24	0.114	0.110	0.086	0.082	0.163	—	40	0.1120	0.1072	0.130	—	5/16	3/8	3/8	7/16	—	—	—	—
6	0.1380	20	0.139	0.135	0.104	0.099	0.190	0.220	32	0.1380	0.1326	0.152	0.172	5/16	3/8	3/8	7/16	3/8	7/16	7/16	1/2
8	0.1640	18	0.166	0.161	0.122	0.116	0.211	0.251	32	0.1640	0.1586	0.162	0.202	3/8	7/16	7/16	1/2	7/16	1/2	1/2	9/16
10	0.1900	16	0.189	0.183	0.141	0.135	0.235	0.300	24	0.1900	0.1834	0.193	0.258	7/16	1/2	15/32	19/32	1/2	9/16	9/16	21/32
12	0.2160	14	0.215	0.209	0.164	0.157	0.283	0.353	24	0.2160	0.2094	0.223	0.293	1/2	5/8	17/32	21/32	1/2	5/8	21/32	25/32
1/4	0.2500	14	0.246	0.240	0.192	0.185	0.318	0.393	20	0.2500	0.2428	0.275	0.350	1/2	5/8	17/32	11/16	1/2	5/8	11/16	27/32
See Notes 2							3					3									

NOTES:

1. Drill portion of points may be milled and/or cold formed and details of point taper and flute design shall be optional with the manufacturer, provided the screws meet the performance requirements specified in this standard and are capable of drilling the maximum panel thicknesses shown in Table 5 prior to thread pickup.
2. Where specifying nominal size in decimals, zeros preceding decimal and in fourth decimal place shall be omitted.
3. Protrusion allowance Z is the distance, measured parallel to the axis of screw, from the extreme end of the point to the first full form thread beyond the point and encompasses the length of drill point and the tapered incomplete threads. It is intended for use in calculating the maximum effective design grip length Y on the screw in accordance with the following: Y = L min – Z

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