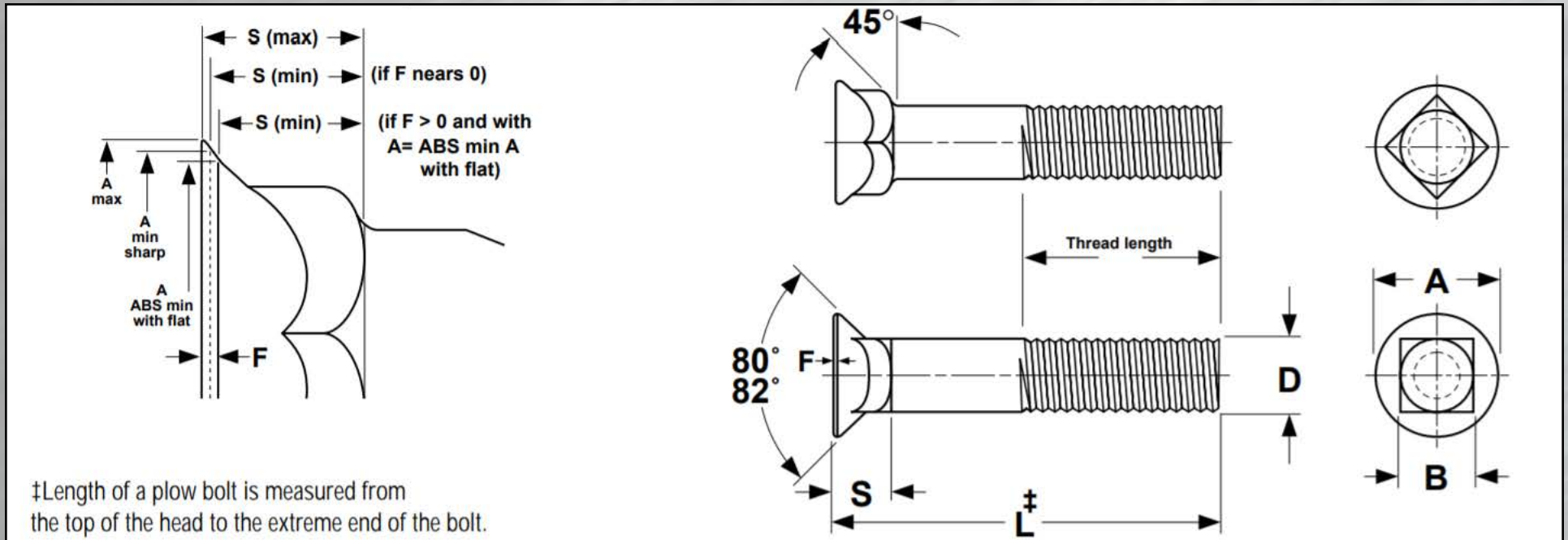




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# PLOW BOLTS - ZINC PLATED FINISH GRADE 5 & GRADE 8





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Number 3 Head Plow Bolts										
D Nominal Diameter	E Diameter of Full Size Body		A Diameter of Head			F Feed Thickness	S Depth of Square and Head		B Width of Square	
	Max	Min	Max	Min Sharp	Abs. Min with Flat	Max	Max	Min	Max	Min (Basic)
	5/16	0.312	0.299	0.605	0.578	0.563	0.025	0.269	0.243	0.325
3/8	0.375	0.360	0.708	0.671	0.656	0.031	0.312	0.281	0.387	0.375
7/16	0.438	0.421	0.826	0.781	0.766	0.036	0.364	0.328	0.450	0.438
1/2	0.500	0.483	0.945	0.890	0.875	0.042	0.417	0.375	0.515	0.500
5/8	0.657	0.606	1.147	1.094	1.063	0.050	0.506	0.456	0.640	0.625
3/4	0.782	0.729	1.303	1.250	1.219	0.050	0.541	0.491	0.765	0.750
7/8	0.938	0.853	1.512	1.469	1.406	0.063	0.625	0.563	0.906	0.875
1	1.062	0.976	1.700	1.656	1.594	0.063	0.690	0.627	1.031	1.000

Tolerance on Length	Nominal Bolt Size	All lengths
	1/4 through 3/8	+/- 0.03
	7/16 and 1/2	+/- 0.06
	5/8 through 1	+/- 0.12



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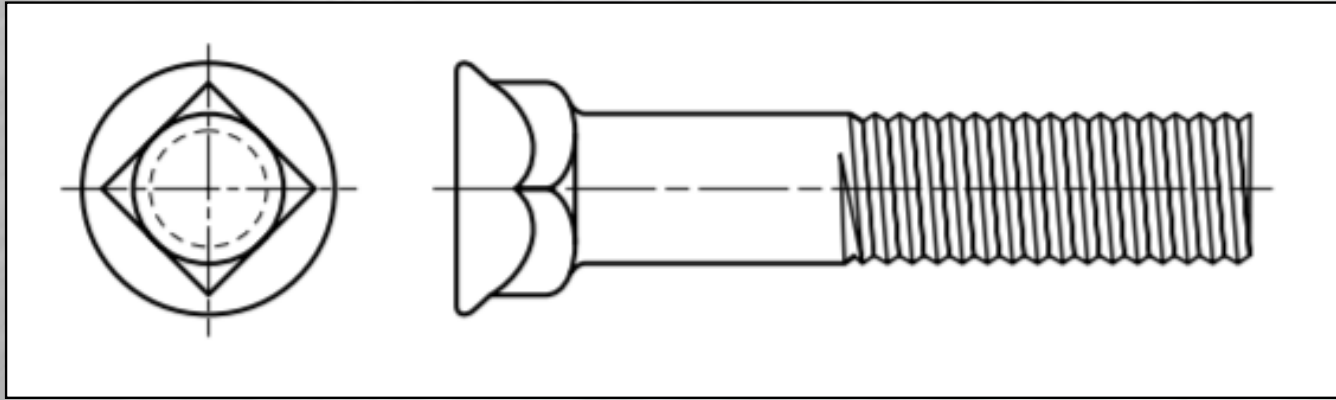
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Minimum Thread Length of Plow Bolts (2D + 0.25)								
Recommended Bolt Length	Nominal Bolt Diameter							
	5/16	3/8	7/16	1/2	5/8	3/4	7/8	1
1	T to H	T to H	-	-	-	-	-	-
1-1/4	0.875	T to H	T to H	T to H	T to H	-	-	-
1-1/2	0.875	1.000	T to H	T to H	T to H	T to H	T to H	-
1-3/4	0.875	1.00	1.125	1.250	T to H	T to H	T to H	T to H
2	0.875	1.000	1.125	1.250	T to H	T to H	T to H	T to H
2-1/4	0.875	1.000	1.125	1.250	1.500	T to H	T to H	T to H
2-1/2	0.875	1.000	1.125	1.250	1.50	1.750	T to H	T to H
3	0.875	1.000	1.125	1.250	1.50	1.750	2.000	2.250
3-1/2	0.875	1.000	1.125	1.250	1.500	1.750	2.000	2.250
4	0.875	1.000	1.125	1.250	1.500	1.750	2.000	2.250



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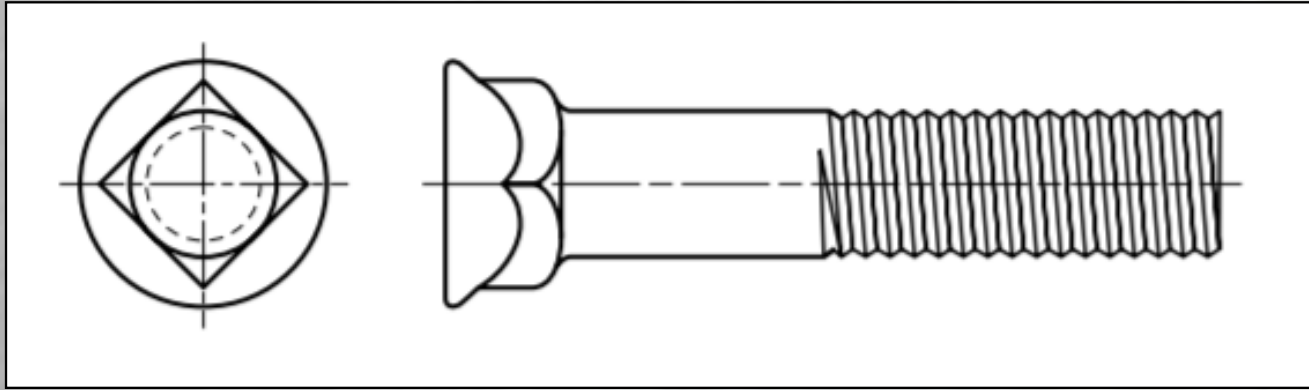
<b>Description</b>	Bolt with a countersunk, flat head, square neck and unified thread pitch, made from medium-carbon steel
<b>Applications / Advantages</b>	Used in road graders, scoops, shovels, and other heavy-duty equipment where a smooth surface is required at the spot of the head protrusion.
<b>Material</b>	Grade 5 plow bolts shall be made from a medium carbon steel which conforms to the following chemical composition requirements: <ul style="list-style-type: none"> <li>• <b>Carbon:</b> 0.28% to 0.55% • <b>Phosphorus:</b> 0.048% maximum • <b>Sulfur:</b> 0.058% maximum</li> </ul>
<b>Heat Treatment</b>	Grade 5 plow bolts shall be heat treated, oil or water quenched, and tempered at a minimum tempering temperature of 800* F
<b>Core Hardness</b>	Rockwell C25 - C34
<b>Surface Hardness</b>	Rockwell 30N 54 Maximum
<b>Proof Load</b>	85,000 psi
<b>Yield Strength</b>	92,000 psi minimum
<b>Tensile Strength</b>	120,000 psi minimum





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# PLOW BOLTS - ZINC PLATED FINISH GRADE 5 & GRADE 8



<b>Description</b>	A plow bolt made from ally steel.
<b>Applications / Advantages</b>	Greater tensile and proof load strength than a grade 5 bolt. Poplular use is with bulldozers and snowplow blades.
<b>Material</b>	AISI 4037 and 4042 steel
<b>Heat Treatment</b>	Grade 8 plow bolts shall be heat treated, oil quenched and tempered at a minimum tempering temperature of 800* F
<b>Core Hardness</b>	Rockwell C33 - C39
<b>Surface Hardness</b>	Rockwell 30N58.6 maximum
<b>Proof Load</b>	120,000 psi
<b>Yield Strength</b>	130,000 psi minimum
<b>Tensile Strength</b>	150,000 psi minimum