

# 80°/82° - Flat Head - Type III (square socket) - Wood Screw



THREAD DATA		
<b>Size:</b> #8	<b>Threads per in.:</b> 15	<b>Series Designation:</b> Single-Lead
<b>Thread Class or Type:</b> WSSL	<b>Major Diameter:</b> 0.168 - 0.157	<b>Minor Dia Max/Min.:</b> 0.111 Max.
<b>Standard:</b> ASME B18.6.1-2008		
DIMENSIONAL DATA		
<b>Type:</b> 80°/82° - Flat Head - Type III (square socket) - Wood Screw	<b>Standard:</b> ASME B18.6.1 - 2008	<b>Nominal Diameter:</b> 0.164
<b>E - Body Diameter :</b> 0.136 - 0.125	<b>A - Head Diameter:</b> 0.332 - 0.292	<b>H - Head Height:</b> 0.100 Ref.
<b>Point Type:</b> Gimlet (sharp)	<b>Driver Size:</b> 2S	<b>Penetration Depth:</b> 0.063 - 0.048
<b>Wobble:</b> 3°	<b>M – Ref. Recess Dim.:</b> 0.204	<b>L - Length:</b> 2-1/2
<b>Length Tolerance:</b> -0.06		
PHYSICAL REQUIREMENTS		
<b>Nominal:</b> 0.164	<b>Standard:</b> ASME B18.6.1, carbon steel	<b>Typical Materials:</b> carbon steel, 1010
<b>Straightness Factor:</b> 0.015		
FINISH DATA		
<b>Finish:</b> Zinc & Clear, non-hexavalent/Cr(VI) free - .0001"/ 3µm	<b>K factor (ref. DIN 946):</b> 0.22	<b>Standard:</b> ASTM F1941/F1941M-2016, Fe/Zn 3AN

<sup>1</sup> These torque values are based on K factors determined using DIN 946, tightening tension of 75% of the yield strength, and the calculation formula  $T=KDP$ . These values are advisory only. The torque for assembling critical joints should be determined and/or verified through actual experimentation by the user. The IFI is not responsible for any losses or claims resulting from the use of these values.<sup>2</sup> Calculated Pretension is equal to 75% of the bolt's yield strength achieved when using the indicated Tightening Torque.

