

**SUPPORT ANGLE DESIGN: (Grade 40 Steel)**

Yield Strength (Fy):	40,000 psi			
Working Stress (0.725*Fy):	29,000 psi			
Gage:	12			
Material Thickness (Ta):	0.1003			
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Moment Arm (e):	1" Min. Brg. - Material Thickness (Ta)			
e:	0.8997			
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Design Length (D):	C/C - Flange - 2(Ta)			
D:	83.00	16.000	0.2006	66.7994
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Load (P):	(Ws)(D / 12 / 2)			
P:	169.39	2.78		471.46
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Moment (M):	(P)(e)			
M:	471.46	0.8997		424.18
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Section Modulus (S):	(12)(Ta^2) / 6			
S:	12	0.01006	6	0.02012018
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Actual Stress (As):	M / S			
As:	424.18	0.02012		21,082.15