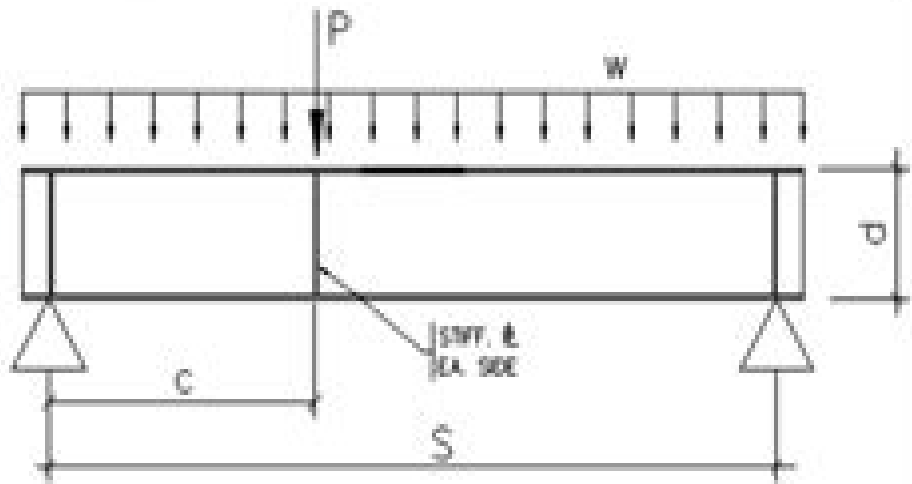


Plate Girder Design Based on AISC Manual 13th Edition (AISC 360-05)

INPUT DATA & DESIGN SUMMARY

STEEL YIELD STRESS	$F_y =$	50	ksi
SIMPLY SUPPORTED SPAN	$S =$	72	ft
SUPERIMPOSED UNIFORM DEAD LOAD	$DL =$	1	kips / ft
UNIFORM LIVE LOAD	$LL =$	1	kips / ft
POINT DEAD LOAD	$P_{DL} =$	60	kips
POINT LIVE LOAD	$P_{LL} =$	60	kips
DISTANCE POINT LOAD TO END	$c =$	24	ft
TOP FLANGE WIDTH	$b_{t,top} =$	16	in
TOP FLANGE THICKNESS	$t_{t,top} =$	1.5	in
BOTTOM FLANGE WIDTH	$b_{t,bot} =$	16	in
BOTTOM FLANGE THICKNESS	$t_{t,bot} =$	1.5	in
WEB THICKNESS	$t_w =$	0.5	in
BEAM DEPTH	$d =$	53	in
UNBRACED LENGTH	$L_b =$	8	ft



1/4 x 7 STIFFENER, E. SIDES, AT SUPPORTS ONLY.
FLANGE TO WEB WELDING USE 5/16 in - 24 in @ 41 in o.c.

THE GIRDER DESIGN IS ADEQUATE.

ANALYSIS

CHECK LIMITING WIDTH-THICKNESS RATIOS FOR WEB (AISC 360-05 Table B4.1)

$$h_e / t_w = 100.00 < \lambda_p = 137.27$$

$$> \lambda_n = 90.55$$

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W.F. Chen, E.M. Lui



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