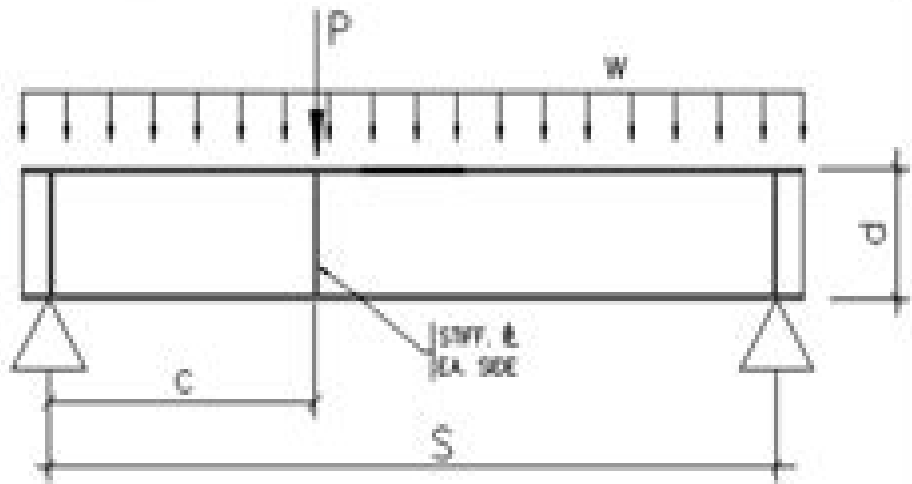


Plate Girder Design Based on AISC Manual 13th Edition (AISC 360-05)

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)

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

$$> \lambda_n = 90.55$$

Aisc Design Manual Plate Girders

Brendan G. Carr



Aisc Design Manual Plate Girders:

The Enigmatic Realm of **Aisc Design Manual Plate Girders**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Aisc Design Manual Plate Girders** a literary masterpiece penned with a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of people who partake in its reading experience.

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