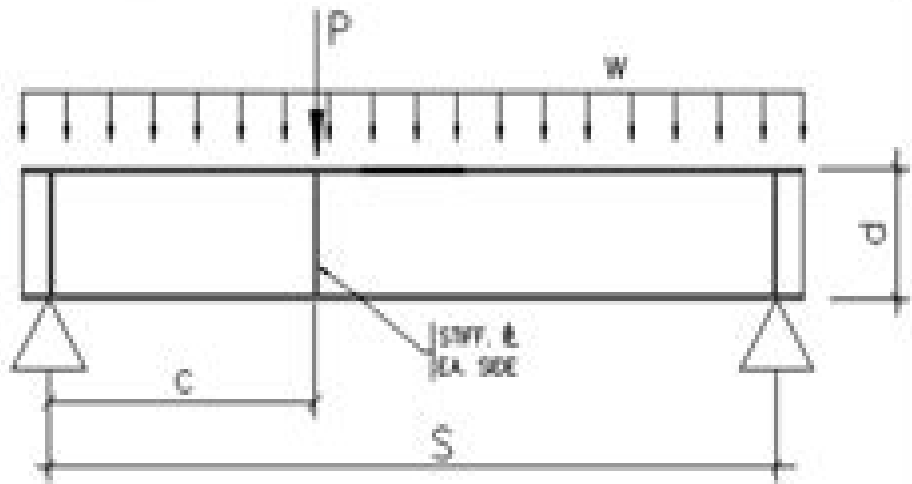


Plate Girder Design Based on AISC Manual 13th Edition (AISC 360-05)

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

**M Walker**



## **Aisc Design Manual Plate Girders:**

Resilient Structures and Infrastructure Ehsan Noroozinejad Farsangi, Izuru Takewaki, Tony Y. Yang, Abolhassan Astaneh-Asl, Paolo Gardoni, 2019-05-03 This book discusses resilience in terms of structures and infrastructures responses to extreme loading conditions These include static and dynamic loads such as those generated by blasts terrorist attacks seismic events impact loadings progressive collapse floods and wind In the last decade the concept of resilience and resilient based structures has increasingly gained in interest among engineers and scientists Resilience describes a given structure s ability to withstand sudden shocks In other words it can be measured by the magnitude of shock that a system can tolerate This book offers a valuable resource for the development of new engineering practices codes and regulations public policy and investigation reports on resilience and provides broad and integrated coverage of the effects of dynamic loadings and of the modeling techniques used to compute the structural response to these loadings      **Design of Steel Structures** Elias G. Abu-Saba, 2012-12-06 This book is intended for classroom teaching in architectural and civil engineering at the graduate and undergraduate levels Although it has been developed from lecture notes given in structural steel design it can be useful to practicing engineers Many of the examples presented in this book are drawn from the field of design of structures Design of Steel Structures can be used for one or two semesters of three hours each on the undergraduate level For a two semester curriculum Chapters 1 through 8 can be used during the first semester Heavy emphasis should be placed on Chapters 1 through 5 giving the student a brief exposure to the consideration of wind and earthquakes in the design of buildings With the new federal requirements vis a vis wind and earthquake hazards it is beneficial to the student to have some understanding of the underlying concepts in this field In addition to the class lectures the instructor should require the student to submit a term project that includes the complete structural design of a multi story building using standard design procedures as specified by AISC Specifications Thus the use of the AISC Steel Construction Manual is a must in teaching this course In the second semester Chapters 9 through 13 should be covered At the undergraduate level Chapters 11 through 13 should be used on a limited basis leaving the student more time to concentrate on composite construction and built up girders

Guide to Stability Design Criteria for Metal Structures Ronald D. Ziemian, 2010-02-08 The definitive guide to stability design criteria fully updated and incorporating current research Representing nearly fifty years of cooperation between Wiley and the Structural Stability Research Council the Guide to Stability Design Criteria for Metal Structures is often described as an invaluable reference for practicing structural engineers and researchers For generations of engineers and architects the Guide has served as the definitive work on designing steel and aluminum structures for stability Under the editorship of Ronald Ziemian and written by SSRC task group members who are leading experts in structural stability theory and research this Sixth Edition brings this foundational work in line with current practice and research The Sixth Edition incorporates a decade of progress in the field since the previous edition with new features including Updated chapters on

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**Modern Steel Railway Bridges** John F. Unsworth, 2017-08-03 This new edition encompasses current design methods used for steel railway bridges in both SI and Imperial US Customary units It discusses the planning of railway bridges and the appropriate types of bridges based on planning considerations *Bridge Engineering Handbook* Wai-Fah Chen, Lian Duan, 2019-09-11 First Published in 1999 The Bridge Engineering Handbook is a unique comprehensive and state of the art reference work and resource book covering the major areas of bridge engineering with the theme bridge to the 21st century

Computational Analysis and Design of Bridge Structures Chung C. Fu, Shuqing Wang, 2014-12-11 Gain Confidence in Modeling Techniques Used for Complicated Bridge Structures Bridge structures vary considerably in form size complexity and importance The methods for their computational analysis and design range from approximate to refined analyses and rapidly improving computer technology has made the more refined and complex methods of analysis *PPI PE Structural Reference Manual, 10th Edition - Complete Review for the NCEES PE Structural Engineering (SE) Exam* Alan Williams, 2021-08-27 The NCEES SE Exam is Open Book You Will Want to Bring This Book Into the Exam Alan Williams PE Structural Reference Manual Tenth Edition STRM10 offers a complete review for the NCEES 16 hour Structural Engineering SE exam This book is part of a comprehensive learning management system designed to help you pass the PE Structural exam the first time PE Structural Reference Manual Tenth Edition STRM10 features include Covers all exam topics and provides a comprehensive review of structural analysis and design methods New content covering design of slender and shear walls Covers all up to date codes for the October 2021 Exams Exam adopted codes and standards are frequently referenced and solving methods including strength design for timber and masonry are thoroughly explained 270 example problems Strengthen your problem solving skills by working the 52 end of book practice problems Each problem's complete solution lets you check your own solving approach Both ASD and LRFD SD solutions and explanations are provided for masonry problems allowing you to familiarize yourself with different problem solving methods Topics Covered Bridges Foundations and Retaining Structures Lateral Forces Wind and Seismic Prestressed Concrete Reinforced Concrete Reinforced Masonry Structural Steel Timber Referenced Codes and Standards Updated to October 2021 Exam Specifications

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 Manual AISC 325 Design of Highway Bridges Richard M. Barker, Jay A. Puckett, 2021-03-23 The latest in bridge design  
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 today's gradual transition from allowable stress design to Load and Resistance Factor Design by presenting LRFD  
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