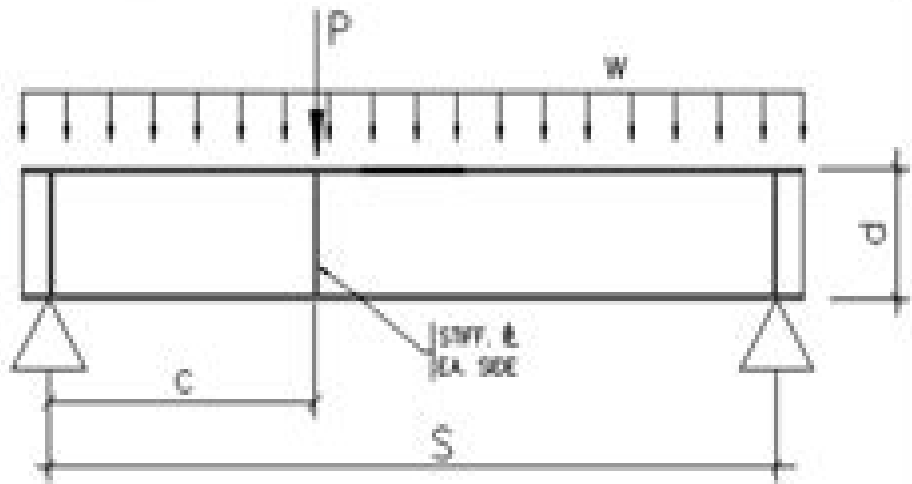


Plate Girder Design Based on AISC Manual 13th Edition (AISC 360-05)

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

**Ehsan Noroozinejad Farsangi, Izuru
Takewaki, Tony Y. Yang, Abolhassan
Astaneh-Asl, Paolo Gardoni**



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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

beams beam columns bracing plates box girders and curved girders Significantly revised chapters on columns plates composite columns and structural systems frame stability and arches Fully rewritten chapters on thin walled cold formed metal structural members stability under seismic loading and stability analysis by finite element methods State of the art coverage of many topics such as shear walls concrete filled tubes direct strength member design method behavior of arches direct analysis method structural integrity and disproportionate collapse resistance and inelastic seismic performance and design recommendations for various moment resistant and braced steel frames Complete with over 350 illustrations plus references and technical memoranda the Guide to Stability Design Criteria for Metal Structures Sixth Edition offers detailed guidance and background on design specifications codes and standards worldwide Guide to Stability Design Criteria for Metal Structures Theodore V. Galambos, 1998-06-15 This book provides simplified and refined procedures applicable to design and to accessing design limitations and offers guidance to design specifications codes and standards currently applied to the stability of metal structures Design of Steel Structures (Vol. 2) Ramchandra, V. Gehlot, 2015-02-01 Eight edition of this book is based on Bridge Rules Adopted in 1941 Revised in 1964 and Reprinted in 1989 and IS 800 2007 Authors have distributed present text in the edition in thirty two chapters that is in Four parts 1 Steel Bridges and Influence Lines Diagrams for axial forces for the members of different types of truss girders 2 Special Steel Structures 3 Analysis of Structures specially the method of tension co efficient for determinate and indeterminate structures 4 Aluminium structures In order to emphasize that similar to various other subjects this subject is also very vast Therefore space steel structures and stressed skin steel structures have been described special features of this new edition of this book may be mentioned as under 1 Historical development of different types of steel bridges details of some spans of longest spans of various types of steel bridges 2 Design of Guyed Steel Chimneys 3 Instantaneous Centre of Rotation ICR and Plastic Analysis of Pitched slope i e gable structure and influences of axial forces and shear forces on the plastic moment of resistance of the member cross sections **Guide to Stability Design Criteria for Metal Structures** Structural Stability Research Council, 1976 1st and 2d editions have title Guide to design criteria for metal compression members **Principles of Structural Design** W.F. Chen, E.M. Lui, 2005-10-31 Many important advances in designing high performance structures have occurred over the last several years Structural engineers need an authoritative source of information that thoroughly and concisely covers the foundational principles of the field Comprising chapters selected from the second edition of the best selling Handbook of Structural Engineering this book provides a tightly focused economical guide to the theoretical practical and computational aspects of structural design Expert contributors discuss a wide variety of structures including steel aluminum timber and prestressed concrete as well as reliability based design and structures based on wind engineering Recent Advances in Structural Engineering, Volume 1 A. Rama Mohan Rao, K. Ramanjaneyulu, 2018-08-01 This book is a collection of select papers presented at the Tenth Structural Engineering Convention 2016 SEC 2016 It comprises plenary invited and

contributory papers covering numerous applications from a wide spectrum of areas related to structural engineering. It presents contributions by academics, researchers and practicing structural engineers addressing analysis and design of concrete and steel structures, computational structural mechanics, new building materials for sustainable construction, mitigation of structures against natural hazards, structural health monitoring, wind and earthquake engineering, vibration control and smart structures, condition assessment and performance evaluation, repair, rehabilitation and retrofit of structures. Also covering advances in construction techniques, practices, behavior of structures under blast impact loading, fatigue and fracture, composite materials and structures and structures for non-conventional energy, wind and solar, it will serve as a valuable resource for researchers, students and practicing engineers alike.

PPI PE Structural Reference Manual, 10th Edition - Complete Review for the NCEES PE Structural Engineering (SE) Exam Alan Williams, 2021-09-21. 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:

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Highway Bridge Superstructure Engineering Narendra Taly, 2014-11-21. A How-To Guide for Bridge Engineers and Designers. Highway Bridge Superstructure Engineering LRFD Approaches to Design and Analysis provides a detailed discussion of traditional structural design perspectives and serves as a state-of-the-art resource on the latest design and analysis of highway bridge.

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