

This Excel Sheet uploaded in pdf format gives a detailed design of four bolt unstiffened extended end plate connection type 4E. The design is as per AISC Design Guide 4 - Extended End-Plate Moment Connections Seismic and Wind Applications –second edition. Used in Steel Structures and Pre Engineered Buildings.

cells marked yellow is for user input

cells marked Pink gives drop-down list of beam sections and column sections as per AISC Database.

So the user can have different combination of Column and Beam section for Moment Connection design.

There is also a Drop down list for bolt dia and Plate thickness.

There is also a Master Check sheet in the beginning which tell the user whether all the Design Criteria are satisfied or not.

The Excel sheet is for sale and works on for one computer for four years on which it is configured.

Please visit my website www.abqiconsultants.com for more details.

Thanking you

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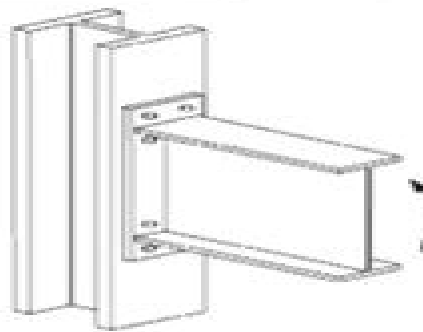
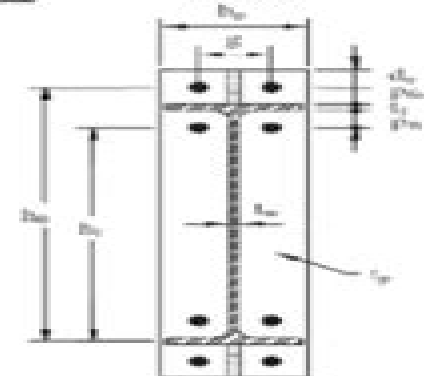
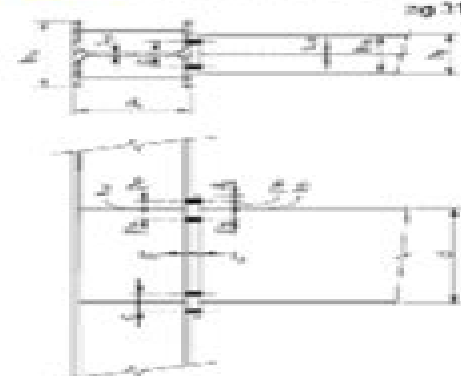
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Prepared by :	Date :	ADQ Consultants	Job no :	Sheet No :
A.B Quadri	17-Aug-18	Calculation Sheet		cont'd :
Verified by :	Date :		Revision no :	
	17-Aug-18			
Project : Students neighborhood center				
Subject : Police Station			Description : Ground Floor Load calculations	

Ref	Calculation	Output
5.2 Design of Four-Bolt Unstiffened Extended (E) End-Plate Connection 4E Example A  Fig. 5.2 Four-Bolt Unstiffened, 4E	Cell for Drop-Down list 	Cell for Inputting user data  Fig. 5.2. Four-bolt unstiffened extended, 4E, end plate geometry.
Beam	W21x55 (ASTM A992 Steel)	End Plate Type 4E (ASTM A572 Or 50 Steel)
Column	W14x109 (ASTM A992 Steel)	Bolts ASTM A-550
Shear Res. Ineq. : Vu =	40.00 Kips	

Aisc Design Guide 9

W.F. Chen, E.M. Lui



Aisc Design Guide 9:

The Seismic Design Handbook Farzad Naeim, 2001-03-31 The Seismic Design Handbook is a primary resource for both researchers and teachers in the field of earthquake resistant design. The first edition of this handbook was received with much enthusiasm. It is the de facto textbook for teaching seismic design principles at many major universities. In the United States, UC Berkeley, Stanford, UCLA, University of Southern California, SUNY Buffalo, the University of Illinois, Washington University, the University of Texas at Austin, Georgia Tech, Cornell, and the University of Michigan have adopted the text. Abroad, the Imperial College of London and the Israel Institute of Technology are among its adopters. This second edition contains up to date information on planning, analysis, and design of earthquake resistant building structures. Its intention is to provide engineers, architects, developers, and students of structural engineering and architecture with authoritative yet practical design information. It bridges the gap between advances in the theories and concepts of seismic design and their implementation in practice. This handbook has been endorsed by the International Conference of Building Officials. Audience: The Seismic Design Handbook is a must for practicing engineers, architects, building officials, developers, teachers, and students in the field of earthquake resistant building design. Its distinguished panel of contributors is made up of 22 experts from industry and universities recognized for their knowledge and extensive practical experience in their fields.

Structural Steel Design Abieyuwa Aghayere, 2025-05-13 Essential knowledge of steel framed structure design is a cornerstone for architectural, civil, and structural engineers, as well as for students planning careers in structural design and construction. Structural Steel Design, Fourth Edition, delivers a comprehensive understanding of structural steel design, starting with the fundamentals and progressing to the design of a complete structural system. It emphasizes not just the individual steel elements or components but their integration within the broader context of the entire structure. By working through the chapters and corresponding design project tasks, readers will complete the design of a full steel structure, allowing them to grasp the connections between discrete components and the larger system. This approach reinforces the importance of seeing the big picture in structural design. Encouraged by the American Institute for Steel Construction, this book goes beyond traditional textbook exercises by offering real world examples, project based exercises, and open ended problems that challenge the reader to make decisions and navigate the iterative nature of structural design. Practical details and real world end of chapter problems reflect the types of challenges encountered in professional engineering practice, making this text not just an academic resource but a practical guide for aspiring engineers.

Design of Steel EduGorilla Prep Experts, 2024-10-15 EduGorilla Publication is a trusted name in the education sector, committed to empowering learners with high quality study materials and resources. Specializing in competitive exams and academic support, EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels.

Structural Steel Design Abieyuwa Aghayere, Jason Vigil, 2020-02-06 This simple practical and concise guide to structural

steel design using the Load and Resistance Factor Design LRFD and the Allowable Strength Design ASD methods will equip the reader with the necessary skills for designing real world structures Following a holistic project based learning approach that bridges the gap between engineering education and professional practice the design of each building component is presented in a way such that the reader can see how each element fits into the entire building design and construction process Structural details and practical example exercises that realistically mirror what obtains in professional design practice are presented

The Civil Engineering Handbook W.F. Chen,J.Y. Richard Liew,2002-08-29 Providing extensive coverage of all major areas of civil engineering the second edition of this award winning handbook features contributions from leading professionals and academicians and is packed with formulae data tables and definitions vignettes on topics of recent interest and additional sources of information It includes a wealth of material in areas such as coastal engineering polymeric materials computer methods shear stresses in beams and pavement performance evaluation Its wide range of information makes it an essential resource for anyone working in civil structural or environmental engineering

Dynamics of Civil Structures, Volume 2 Shamim Pakzad,2019-05-22 Dynamics of Civil Structures Volume 2 Proceedings of the 37th IMAC A Conference and Exposition on Structural Dynamics 2019 the second volume of eight from the Conference brings together contributions to this important area of research and engineering The collection presents early findings and case studies on fundamental and applied aspects of the Dynamics of Civil Structures including papers on Structural Vibration Humans Structures Innovative Measurement for Structural Applications Smart Structures and Automation Modal Identification of Structural Systems Bridges and Novel Vibration Analysis Sensors and Control

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

Handbook of Structural Engineering W.F. Chen,E.M. Lui,2005-02-28 Continuing the best selling tradition of the Handbook of Structural Engineering this second edition is a comprehensive reference to the broad spectrum of structural engineering encapsulating the theoretical practical and computational aspects of the field The contributors cover traditional and innovative approaches to analysis design and rehabilitation New topics include fundamental theories of structural dynamics advanced analysis wind and earthquake resistant design design of prestressed structures high performance steel concrete and fiber reinforced polymers semirigid frame structures structural bracing and structural design for fire safety

Handbook of Steel Connection Design and Details Akbar R. Tamboli,2010 Surveys the leading methods for

connecting structural steel components covering state of the art techniques and materials and includes new information on welding and connections Hundreds of detailed examples photographs and illustrations are found throughout this handbook from publisher description

Tubular Structures XI Jeffrey A. Packer, Silke Willibald, 2017-10-02 This topical book contains the latest scientific and engineering developments in the field of tubular steel structures as presented at the 11th International Symposium and IIW International Conference on Tubular Structures The International Symposium on Tubular Structures ISTS has a long standing reputation for being the principal showcase for manufactured tubing and the prime international forum for discussion of research developments and applications in this field Various key and emerging subjects in the field of hollow structural sections are covered such as novel applications and case studies static and fatigue behaviour of connections joints concrete filled and composite tubular members earthquake resistance specification and code developments material properties and structural reliability impact resistance and brittle fracture fire resistance casting and fabrication innovations Research and development issues presented in this book are applicable to buildings bridges offshore structures entertainment rides cranes towers and various mechanical and agricultural equipment This book is thus a pertinent reference source for architects civil and mechanical engineers designers steel fabricators and contractors manufacturers of hollow sections or related construction products trade associations involved with tubing owners or developers of tubular structures steel specification committees academics and research students The conference presentations herein include two keynote lectures the International Institute of Welding Houdremont Lecture and the ISTS Kurobane Lecture plus finalists in the CIDECT Student Papers Competition The 11th International Symposium and IIW International Conference on Tubular Structures ISTS11 took place in Qu bec City Canada from August 31 to September 2 2006

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Table of Contents Aisc Design Guide 9

1. Understanding the eBook Aisc Design Guide 9
 - The Rise of Digital Reading Aisc Design Guide 9
 - Advantages of eBooks Over Traditional Books
2. Identifying Aisc Design Guide 9
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Aisc Design Guide 9
 - User-Friendly Interface
4. Exploring eBook Recommendations from Aisc Design Guide 9
 - Personalized Recommendations
 - Aisc Design Guide 9 User Reviews and Ratings
 - Aisc Design Guide 9 and Bestseller Lists
5. Accessing Aisc Design Guide 9 Free and Paid eBooks
 - Aisc Design Guide 9 Public Domain eBooks
 - Aisc Design Guide 9 eBook Subscription Services

- Aisc Design Guide 9 Budget-Friendly Options
- 6. Navigating Aisc Design Guide 9 eBook Formats
 - ePub, PDF, MOBI, and More
 - Aisc Design Guide 9 Compatibility with Devices
 - Aisc Design Guide 9 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Aisc Design Guide 9
 - Highlighting and Note-Taking Aisc Design Guide 9
 - Interactive Elements Aisc Design Guide 9
- 8. Staying Engaged with Aisc Design Guide 9
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Aisc Design Guide 9
- 9. Balancing eBooks and Physical Books Aisc Design Guide 9
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Aisc Design Guide 9
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Aisc Design Guide 9
 - Setting Reading Goals Aisc Design Guide 9
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Aisc Design Guide 9
 - Fact-Checking eBook Content of Aisc Design Guide 9
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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