

STEEL COLUMN BASE PLATE ANALYSIS

Per AISC 9th Edition Manual (ASD) and "Design of Welded Structures" (O. Blodgett)
For Axial Load with or without Moment

Job Name:		Subject:	
Job Number:		Originator:	Checker:

Input Data:

Column Size:

Select: **W14x90**

Column Loadings:

Axial Load, $P(\text{total})$ = **-130.00** kips
 Axial Load, $P(\text{DL})$ = **0.00** kips
 Shear Load, $V(\text{total})$ = **10.00** kips
 Moment @ Base, M = **175.00** ft-kips

Design Parameters:

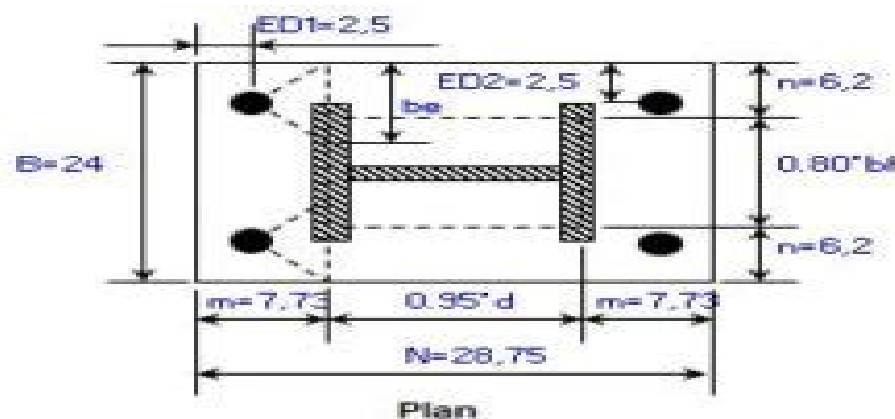
Base Plate Length, N = **28.750** in.
 Base Plate Width, B = **24.000** in.
 Plate Yield Stress, F_y = **36.00** ksi
 Concrete Strength, f'_c = **3.000** ksi
 Bearing Area, A_2 = **1296.00** in.²
 Shear Coef., C = **1.85**
 Coef. of Friction, μ = **0.70**

Anchor Bolt/Rod Data:

Total No. of Bolts, N_b = **6**
 Bolt Diameter, d_b = **1.750** in.
 Anchor Bolt Material = **F1554 (36)**
 Bolt Edge Dist., $ED1$ = **2.500** in.
 Bolt Edge Dist., $ED2$ = **2.500** in.

Column Properties:

A = **26.50** in.²
 d = **14.000** in.
 t_w = **0.440** in.
 b_f = **14.500** in.
 t_f = **0.710** in.



Results:

Eccentricity, Bearing Length, and Bearing Pressures:

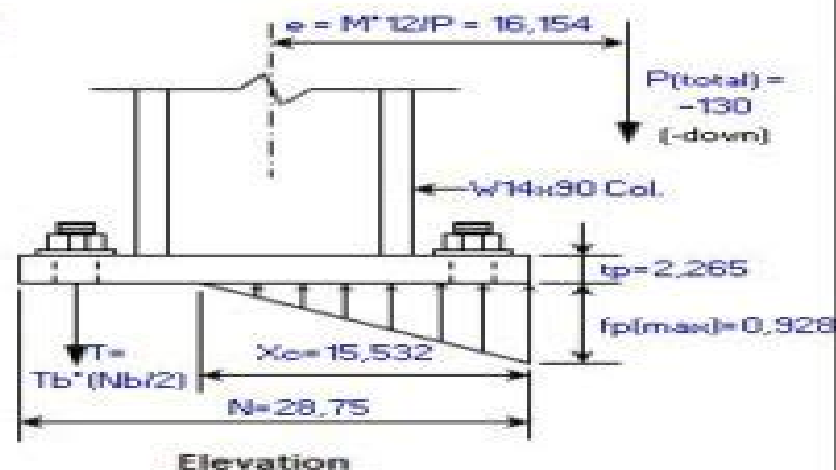
Eccentricity, e = **16.154** in.
 Length, X_c = **15.532** in.
 F_p = **1.439** ksi
 $f_p(\text{max})$ = **0.928** ksi
 $f_p(\text{min})$ = **0.000** ksi

$F_p \geq f_p(\text{max})$, O.K.

Anchor Bolt/Rod Tension and Shear:

F_t = **19.10** ksi
 T_a = **45.94** k/bolt
 T_b = **14.30** k/bolt
 $T_a \geq T_b$, O.K.
 F_v = **9.90** ksi
 V_a = **23.81** k/bolt
 $V(\text{bolts})$ = **10.00** = $V(\text{total}) - 1/2 \cdot \mu \cdot P(\text{DL})$ k/bolt
 V_b = **1.67** k/bolt
 $V_a \geq V_b$, O.K.

(Interaction) S.R. = **0.441** = $T_b/T_a + (C \cdot V_b)/V_a$



Aisc Steel Detailing Manual Base Plate

Liyong Dong

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Aisc Steel Detailing Manual Base Plate:

Column Base Plates John T. DeWolf, David T. Ricker, 1990 This report contains a compilation of existing information on the design of base plates for steel columns The material is taken from reports papers texts and design guides The intent is to provide engineers with the research background and an understanding of the behaviour of base plates and then to present information and guidelines for their design The material is intended for the design of column base plates in building frames though it can be used for related structures Bearing plates for beams would be based on similar principles Page 1 **Steel Detailers' Manual** Alan Hayward, Frank Weare, A. C. Oakhill, 2011-05-06 This highly illustrated manual provides practical guidance on structural steelwork detailing It describes the common structural shapes in use and how they are joined to form members and complete structures explains detailing practice and conventions provides detailing data for standard sections bolts and welds emphasises the importance of tolerances in order to achieve proper site fit up discusses the important link between good detailing and construction costs Examples of structures include single and multi storey buildings towers and bridges The detailing shown will be suitable in principle for fabrication and erection in many countries and the sizes shown will act as a guide to preliminary design The third edition has been revised to take account of the new Eurocodes on structural steel work together with their National Annexes The new edition also takes account of developments in 3 D modelling techniques and it includes more CAD standard library details SP-66(04): ACI Detailing Manual-2004 ,

Structural Masonry Designers' Manual W. G. Curtin, Gerry Shaw, J. K. Beck, W. A. Bray, David Easterbrook, 2008-04-15 This major handbook covers the structural use of brick and blockwork A major feature is a series of step by step design examples of typical elements and buildings The book has been revised to include updates to the code of practice BS 5628 2000 2 and the 2004 version of Part A of the Building Regulations New information on sustainability issues innovation in masonry health and safety issues and technical developments has been added **Detailing for Steel Construction** , 2002

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 Structural Steel Design Alan Williams,2001-07-15 **Behaviour of Steel Structures in Seismic Areas** Federico Mazzolani,James M. Ricles,Richard Sause,2009-12-03 Behaviour of Steel Structures in Seismic Areas comprises the latest progress in both theoretical and experimental research on the behaviour of steel structures in seismic areas The book presents the most recent trends in the field of steel structures in seismic areas with particular reference to the utilisation of multi level performance bas Manual of Steel Construction American Institute of Steel Construction,1980 Technical Education Program Series No. 9.

Architectural and Building Construction Technology United States. Education Office,1969 **Architectural and Building Construction Technology** United States. Office of Education,Walter J. Brooking,1969 **Design of Structural Steel Joints** Ashoke Kumar Dasgupta,2024-12-18 This book presents a systematic method of learning how to design perfect joints for steel buildings in industrial projects It describes the types of joints details different types of jointing and covers the mechanics of joints supported by worked out examples for different situations It also includes design charts for full strength joints of all standard sections The design and details presented in this book conform to Indian codes and US standards for general building and structural steel work Features Provides details on connection design principles and applications from an application point of view Covers practical aspects and good engineering practices related to connection design Explains mechanics of joints with illustrations and sketches Includes design charts for full strength member joints of standard sections Covers worked out examples sketches with supporting calculations of all typical connections from roofs to base plates This book is aimed at professionals in civil and structural engineering steel structure design and detailing **Structural Design Guide to the ACI Building Code** Edward S. Hoffman,David P. Gustafson,Albert J. Gouwens,2013-03-09 This book is intended to guide practicing structural engineers familiar with ear lier ACI building codes into more profitable routine designs with the ACI 1995 Building Code ACI 318 95 Each new ACI Building Code expresses the latest knowledge of reinforced concrete in legal language for safe design application Beginning in 1956 with the introduction of ultimate strength design each new code offered better uti lization of high strength reinforcement and the compressive strength of the con crete itself Each new code thus permitted more economy as to construction material but achieved it through more detailed and complicated design calcula tions In addition to competition requiring independent structural engineers to follow the latest code for economy it created a professional obligation to fol low the latest code for accepted levels of structural safety The increasing complexity of codes has encouraged the use of computers for design and has stimulated the development of computer based handbooks Before computer software can be successfully used in the structural design of buildings preliminary sizes of structural elements must be established from handbook tables estimates or experienced first guesses for input into the com puter Structural Foundation Designers' Manual W. G. Curtin,Gerry Shaw,Gary Parkinson,J.

Golding, Norman Seward, 2006-12-04 This manual for civil and structural engineers aims to simplify as much as possible a complex subject which is often treated too theoretically by explaining in a practical way how to provide uncomplicated buildable and economical foundations It explains simply clearly and with numerous worked examples how economic foundation design is achieved It deals with both straightforward and difficult sites following the process through site investigation foundation selection and finally design The book includes chapters on many aspects of foundation engineering that most other books avoid including filled and contaminated sites mining and other man made conditions features a step by step procedure for the design of lightweight and flexible rafts to fill the gap in guidance in this much neglected yet extremely economical foundation solution concentrates on foundations for building structures rather than the larger civil engineering foundations includes many innovative and economic solutions developed and used by the authors practice but not often covered in other publications provides an extensive series of appendices as a valuable reference source For the Second Edition the chapter on contaminated and derelict sites has been updated to take account of the latest guidelines on the subject including BS 10175 Elsewhere throughout the book references have been updated to take account of the latest technical publications and relevant British Standards **Structural Design Guide to AISC Specifications for Buildings**

Paul F. Rice, Edward S. Hoffman, 1976 **Steel Designers' Manual** SCI (Steel Construction Institute), 2016-06-27 In 2010 the then current European national standards for building and construction were replaced by the EN Eurocodes a set of pan European model building codes developed by the European Committee for Standardization The Eurocodes are a series of 10 European Standards EN 1990 EN 1999 that provide a common approach for the design of buildings other civil engineering works and construction products The design standards embodied in these Eurocodes will be used for all European public works and are set to become the de facto standard for the private sector in Europe with probable adoption in many other countries This classic manual on structural steelwork design was first published in 1955 since when it has sold many tens of thousands of copies worldwide For the seventh edition of the Steel Designers Manual all chapters have been comprehensively reviewed revised to ensure they reflect current approaches and best practice and brought in to compliance with EN 1993 Design of Steel Structures the so called Eurocode 3 Structural Detailing in Steel M. Y. H. Bangash, 2000 Acknowledgements Metric conversions Definitions Introduction to codes List of comparative symbols Introduction Structural steel Draughting practice for detailers Bolts and bolted joints Welding Design detailing of major steel components Steel buildings case studies Steel bridges case studies Appendix Section properties Bibliography British Standards and other standards ASTM Standards **Residential and Light Commercial Construction Standards** RSMeans, 2008-06-26 A popular reference used daily by builders contractors architects and owners this guide is a unique collection of industry standards that define quality in construction For contractors subcontractors owners developers architects engineers attorneys and insurance personnel it provides authoritative requirements and recommendations compiled from the nation s

leading professional associations industry publications and building code organizations New third edition is completely updated to the latest standards codes and trends Coverage includes standards for concrete masonry framing finish carpentry and cabinetry insulation roofing windows and doors drywall and ceramic tile floor covering plumbing electrical HVAC and more This one stop reference is enhanced by helpful commentary from respected practitioners including identification of items most frequently targeted for construction defect claims FEATURES This one of a kind resource enables you to Establish an acceptable quality of workmanship Resolve disputes and avoid litigation Train personnel in correct installation procedures Answer client questions and authority Easily find applicable building code information The nationwide team of editors includes leading contractors engineers architects and construction defect analysts They provide practical installation tips along with advice on how to avoid the most frequently cited defect claims Load & Resistance Factor Design American Institute of Steel Construction,1986 Scientific, Engineering, and Medical Societies Publications in Print ,1978

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