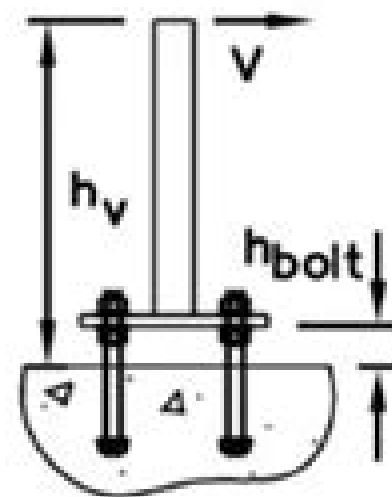
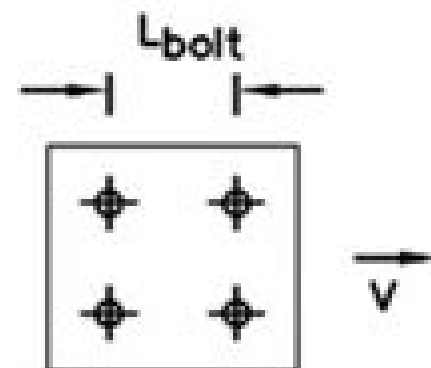


Check Base Plate Bolts in Bending and Shear

$\Phi_{nom} =$	0.5	in = nominal bolt diameter
$K_{bolt} =$	0.417	in = min root bolt diameter
$F_y =$	36	ksi = bolt yield strength
$N =$	4	= number of bolts
$h_{bolt} =$	2	in = height between TOConc and BOSteel
$L_{bolt} =$	5	in = distance between bolts, parallel to V
$V =$	200	lb = shear applied to bolts
$h_v =$	42	in = height above TOC where V is applied
$h_{bolt} \leq 2\Phi_{nom}?$	FALSE	therefore, clear span is long enough to develop significant moment
$M_{bolt} =$	50	lb * in = $V * h_{bolt} / 2 / N$ = moment on a bolt (assumed double curvature)
$V_{bolt} =$	50	lb = V / N = shear on a bolt
$T_{bolt} =$	800	lb = $V * (h_v - h_{bolt}) * 2 / L_{bolt} / N$ = tension on a bolt
$z_{bolt} =$	0.0121	in ³ = $K_{bolt}^3 / 6$ = plastic section modulu
$\Omega =$	1.67	= failure mode safety factor
$M_{AL} =$	261	lb*in = $F_y * z_{bolt} / \Omega$ = allowable tension
$V_{AL} =$	2,646	lb = allowable shear
$T_{AL} =$	3,195	lb = allowable tension
$M_{DCR} =$	0.192	= M_{bolt} / M_{AL} = moment DCR
$V_{DCR} =$	0.019	= V_{bolt} / V_{AL} = shear DCR
$T_{DCR} =$	0.250	= T_{bolt} / T_{AL} = tension DCR
$DCR =$	0.443	= $((M_{DCR} + T_{DCR})^2 + V_{DCR}^2)^{0.5} \leq 1.00 \therefore OK$



Aisc Anchor Bolt Design Guide

Alphose Zingoni

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.

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Wind Loads and Anchor Bolt Design for Petrochemical Facilities Task Committee on Anchor Bolt Design, 1997-01-01 Prepared by the Task Committee on Wind Induced Forces and Task Committee on Anchor Bolt Design of the Petrochemical Committee of the Energy Division of ASCE This report presents state of the practice set of guidelines for the determination of wind induced forces and the design of anchor bolts for petrochemical facilities Current codes and standards do not address many of the structures found in the petrochemical industry As a result engineers and petrochemical companies have independently developed procedures and techniques for handling engineering issues such as the two contained in this report A lack of standardization in the industry has led to inconsistent structural reliability however This volume is intended for structural design engineers familiar with design of industrial type structures *Structural Design Guide to AISC Specifications for Buildings* Paul F. Rice, Edward S. Hoffman, 1976 **Structural Design Guide** Edward S. Hoffman, David P. Gustafson, Albert J. Gouwens, Paul F. Rice, 2012-12-06 I I This book is intended to guide practicing structural engineers into more profitable routine designs with the AISC Load and Resistance Factor Design Specification LRFD for structural steel buildings LRFD is a method of proportioning steel structures so that no applicable limit state is exceeded when the structure is subjected to all appropriate factored load combinations Strength limit states are related to safety and concern maximum load carrying capacity Serviceability limit states are related to performance under service load conditions such as deflections The term resistance includes both strength states and serviceability limit states LRFD is a new approach to the design of structural steel for buildings It involves explicit consideration of limit states multiple load factors and resistance factors and implicit probabilistic determination of reliability The type of factoring used by LRFD differs from the allowable stress design of Chapters A through M of the 1989 Ninth Edition of the AISC Specifications for Allowable Stress Design where only the resistance is divided by a factor of safety to obtain an allowable stress and from the plastic design provisions of Chapter N where the loads are multiplied by a common load factor of 1.7 for gravity loads and 1.3 for gravity loads acting with wind or seismic loads LRFD offers the structural engineer greater flexibility rationality and economy than the previous 1989 Ninth Edition of the AISC Specifications for Allowable Stress Design *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 *Principles of Structural Design* W.F. Chen, E.M. Lui, 2005-10-31 Many important advances in designing high performance structures have occurred

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Foundation and Anchor Design Guide for Metal Building Systems Alexander Newman, 2013 This practical guide serves as the industry standard for foundation design of metal building systems

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

Design and Analysis of Connections in Steel Structures Alfredo Boracchini, 2018-07-09 Dieses Buch f hrt in alle Aspekte der sicheren Berechnung Bemessung und Konstruktion von wirtschaftlichen modernen Verbindungen im Stahlbau ein Die Hintergrunderl uterungen sind nicht an eine spezifische Norm gekoppelt sondern es werden unterschiedliche Normen und Methoden verglichen die in der Praxis zur Anwendung kommen wie z B Eurocode AISC DIN BS Anhand einer Reihe von Beispielen werden Probleml sungen detailliert beschrieben und illustriert Damit erh lt der Leser alle notwendigen Werkzeuge an die Hand um auch komplexe Probleme bei der Konstruktion von Verbindungen zu l sen Das Buch ist f r Berufseinsteiger f r erfahrene Praktiker sowie auch f r Stahlbaufachleute eine Arbeitshilfe denn es werden einfache und komplexe Beanspruchungen an Verbindungen abgebildet Weniger ausf hrlich werden Erdbebenauslegung Schwei n hte die Wechselwirkung mit anderen Materialien Beton Holz und kalt geformte Verbindungen behandelt

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Adams,2022-08-26 This up to date self study system delivers comprehensive coverage of all topics on the current version of the Structural Engineering SE exam This up to date self study guide provides comprehensive coverage of all topics expected on the current version of the SE exam Structural Engineering SE All in One Exam Guide Breadth and Depth Second Edition offers background material real world examples updated regulations and requirements sample problems and realistic practice exams both multiple choice and essay Written by a practicing engineer and a former exam developer and grader Structural Engineering SE All in One Exam Guide Breadth and Depth Second Edition will focus and enhance your preparation for the 16 hour Structural Engineering exam produced by NCEES and adopted by your jurisdiction This book prepares you for every topic expected to be on the exam including building systems structural analysis seismic and wind analysis structural materials bridges and simple and complex code provisions You will learn strategies for taking the exam and gain insight into how the test is written and graded Coverage includes An introduction to exam preparation and professional licensure Design codes and general loading Computer modeling and verification Construction administration and quality control Structural analysis Reinforced and prestressed concrete design Masonry design Foundation and retaining wall design Structural and cold formed steel design Timber design Seismic loading Wind loading Bridge design

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