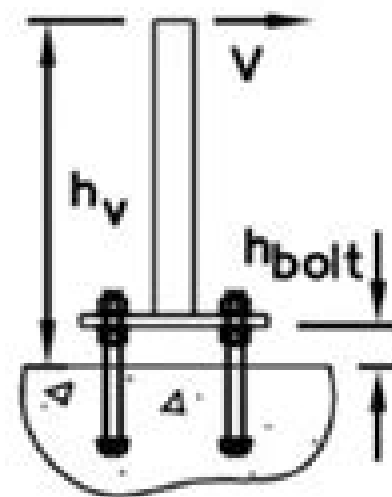
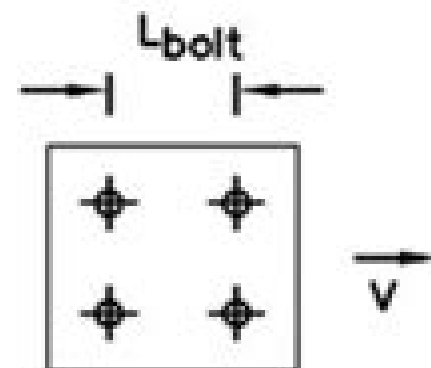


Check Base Plate Bolts in Bending and Shear

$\Phi_{nom} =$	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	= $((M_{DCR} + T_{DCR})^2 + V_{DCR}^2)^{0.5} \leq 1.00 \therefore OK$



Bs Anchor Bolt Design Guide

Comité euro-international du béton

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the text 'Comité euro-international du béton'.

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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

Pressure Vessel Design Manual Dennis R. Moss, 2004-01-24 A pressure vessel is a container that holds a liquid vapor or gas at a different pressure other than atmospheric pressure at the same elevation More specifically in this instance a pressure vessel is used to distill crack crude material taken from the ground petroleum etc and output a finer quality product that will eventually become gas plastics etc This book is an accumulation of design procedures methods techniques formulations and data for use in the design of pressure vessels their respective parts and equipment The book has broad applications to chemical civil and petroleum engineers who construct install or operate process facilities and would also be an invaluable tool for those who inspect the manufacturing of pressure vessels or review designs ASME standards and guidelines such as the method for determining the Minimum Design Metal Temperature are impenetrable and expensive avoid both problems with this expert guide Visual aids walk the designer through the multifaceted stages of analysis and design Includes the latest procedures to use as tools in solving design issues

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Handbook of Bolts and Bolted Joints John Bickford, 1998-04-28 Presenting time tested standard as well as reliable emerging knowledge on threaded fasteners and joints this book covers how to select parts and materials predict behavior control assembly processes and solve on the job problems It examines key issues affecting bolting in the automotive pressure vessel petrochemical aerospace and structural steel industries The editors have successfully created a useful rather than scholarly handbook with chapters written in a straightforward how to do it manner Theory is discussed only when necessary and the handbook s logical organization and thorough index enhances its usefulness

North American Tunneling: 2014 Proceedings Davidson, Gregg, Howard, Alan, Jacobs, Lonnie, Pintabona, Robert, Zernich, Brett, 2014-06-17 The North American Tunneling Conference is the premier forum to discuss new trends and developments in underground construction in North America With every conference the number of attendees and breadth of topics grows North American Tunneling 2014 Proceedings reflects the theme for the 2014 conference Mission Possible The authors share new theories novel innovations and the latest tools that make what once may have been perceived as impossible now possible The authors of 128 papers share the latest case histories expertise lessons learned and real world applications from around the globe on a wide range of topics They cover the successes and failures of challenging construction projects Read about challenging design issues fresh approaches on performance future projects and industry trends as well as ground movement and support

structure analysis risk and cost management rock tunnels caverns and shafts TBM technology and selection and water and wastewater conveyance

Guidelines for the Design of Horizontal Wood Diaphragms, 1981 This report summarizes current design practices for horizontal wood diaphragms which function as part of the lateral force resisting system of a structure It provides guidelines which include 1 analogies and procedures used to determine stresses and deflections 2 design details to transfer forces to and from the diaphragm 3 concepts involved in determining the lateral forces acting on the diaphragm 4 guidance on selection of materials and construction procedures 5 limitations of current practice and 6 research needs required to improve the state of the art The guidelines also included twelve design examples of varying complexity and a brief summary of pertinent research

Underground Mining Methods W. A. Hustrulid, Richard L. Bullock, 2001 Reflecting the highly international and diverse nature of the industry a series of mining case studies covers the commodity range from iron ore to diamonds as extracted by operations located in all corners of the world Industry experts have contributed 77 chapters

Construction Management and Design of Industrial Concrete and Steel Structures Mohamed A. El-Reedy, 2010-09-29 The recent worldwide boom in industrial construction and the corresponding billions of dollars spent every year in industrial oil gas and petrochemical and power generation project has created fierce competition for these projects Strong management and technical competence will bring your projects in on time and on budget An in depth exploration of both these aspects and the resulting challenges Construction Management and Design of Industrial Concrete and Steel Structures provides a practical guide to the design of reinforced concrete and steel structures and foundations in industrial projects Renowned expert Mohamed A El Reedy covers the entire industrial construction process from project management to design and construction to sign off and providing a maintenance plan Highlighting the differences between industrial construction and real estate or residential construction he examines every phase and every role from managerial to technical He includes cases from industrial projects and covers the international technical practices codes and standards used in steel or concrete onshore or offshore projects The book provides up to date methodologies in structure analysis geotechnical studies and international special codes and standards for industrial structures such as tanks foundation under towers machines and special structures in industrial projects It also examines the safety and economic benefits of developing a structure integrity management system When a project has a budget that seems as huge at the structure itself the client engineering firm and contractor must work together to achieve success Discussing the interface between these three main partners this book outlines strategies for checking the design and controlling a project in all its phases

Design of Fastenings in Concrete Comité euro-international du béton, 1997 This design guide is based on a safety concept using partial safety factors taken from the CEB FIB Model Code 1990 and it covers all loading situations and failure models It is valid for expansion undercut and headed anchors and is applicable to both new structures and the repair and strengthening of existing structures

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