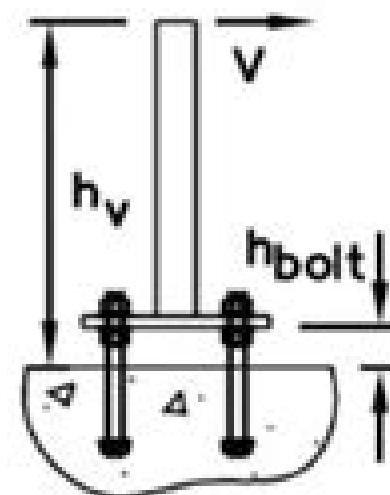
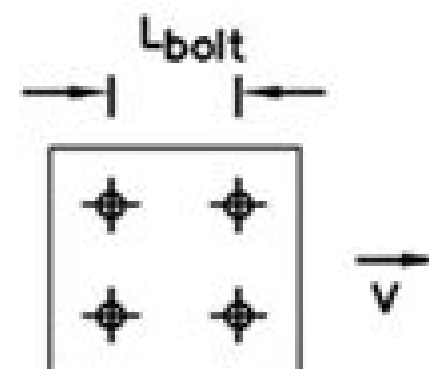


Check Base Plate Bolts in Bending and Shear

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



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Task Committee on Anchor Bolt Design



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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* 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 *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

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Manual of Steel Construction: Connections American Institute of Steel Construction,1992 Includes bibliographical references and index

Design Manual United States. Naval Facilities Engineering Command,1967

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