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Base Plate and  
Anchor Rod Design: A  
Step by Step  
Approach

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Base Plate and  
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Introduction Base

Plate and Anchor Rod

Design Overview

~~Base Plate and~~

~~Anchor Rod Analysis~~

~~(Video 1) Anchor Rod~~

Design - The Complex

ACI Provisions Steel

Design - Base Plates -

Fixed base plate

design calculations -

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Take2: Anchor Bolt

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Anchor bolt /u0026fo  
undation details steel  
detailing|SWT ENTER  
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soundrapandian Base  
Plate Design  
according to AISC  
Seismic Design  
Manual Design of  
Base Plate Example  
Problem Tolerance  
for Anchor Bolts and  
Base Plates S07 Steel  
Anchor Bolts Rods

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Base Plates

How to Build Deck

Footings with

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eciviltech Layout  
anchor bolts with  
plexiglass /u0026  
lasers

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How It Works: Wedge  
Anchors

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Grouting for column.  
Part 3V22-1 High  
Strength Bolt

Installation and Slip  
Critical Connections

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Bolt Plate Bearing  
Strength - Steel and

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Connections Part 1 -

Bolt Basics Anchor

Bolt Location For

Concrete Foundation



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– Three-Bedroom

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{Webinar}: Complete

Connection Design

For Steel To Concrete

Connection Using

Software Hilti Profis

Baseplate Design

Seminar Aisc Anchor

Bolt Design Arkcom

Only LFRD is

available. Anchor

rods are designed

according to AISC

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360-16 – J9 and ACI

318-14 – Chapter 17.

The following

resistances of anchor bolts are evaluated:

Steel strength of

anchor in tension  $N_s$

$N_{sa}$ , Concrete breakout strength in tension

$N_{cbg}$ , Concrete

pullout strength  $N_p$

$N_{sp}$ , Concrete side-face

blowout strength  $N_{sb}$ ,

$N_{sb}$ ,

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Design check of  
anchors according to  
AISC - IDEA StatiCa  
"Design of Headed  
Anchor Bolts,"  
Engineering Journal,  
American Institute of  
Steel Construction,  
Vol. 20, pp. 58-69. In  
current practice the  
design of base plates  
is controlled by  
bearing restrictions

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Bolt Design;

shear is transmitted  
to the concrete

largely through

anchor bolts, shear

lugs or bars attached

to the base plate and

the tensile anchorage

steel is generally

proportioned only for

direct stress.

Design of Headed

Anchor Bolts - AISC

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Anchor rods may be configured to provide anchorage into concrete by means of a head, threading with a nut on the end, a hook, or by swaging. The term anchor bolt, when used with ASTM A307 grade C, A325, or A490 material, however, only describes the first

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option for the following reasons:

These specifications include heading requirements.

7.1. Anchor Rods |  
American Institute of  
Steel Construction  
Design Guide 1: Base  
Plate and Anchor Rod  
Design (Second  
Edition) Format: PDF.  
Category: Design

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Guides. Design Guide

1: Base Plate and

Anchor Rod Design

(Second Edition)

Member FREE Non-

member \$60.00 This

second edition

design guide was

created to assist

engineers and

fabricators in the

design, detailing and

specification of

column-base-plate ...

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Design Guide 1: Base  
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1 Base Plate and  
Anchor Rod Design  
JAMES M. FISHER,  
Ph.D., P.E.

Computerized  
Structural Design,  
S.C. Milwaukee,  
Wisconsin and  
LAWRENCE A.

KLOIBER, P.E.



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## Base Plate and Anchor Rod Design - Portada

ductile anchor design  
is mandatory as  
specified in ACI  
318-08 D.3.3.4 and  
CSA A23.3-04 R2010  
D.4.3.6. For  
anchorage design in  
low seismic zone (ACI  
318-08 SDC<C and  
CSA A23.3-04 R2010

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IEFaSa(0.2) $<$ 0.35), the non-ductile anchor design is permitted, but when calculating anchor bolt force distribution, the plastic analysis approach is not permitted

03 Design of Anchorage to Concrete Using CSA and ACI Code ...

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With strength seen as a function of bolt diameter, Table 1 shows the solution of Equation 25 for four different bolt diameters used in the conventional configuration single-plate shear connection.

Table 1. Design Shear Strength as a Function of Bolt Diameter Bolt

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diameter,  $d$  (in.)

Design shear  
strength,  $V_n$

$1.35nt_p F_u s$   $1.58nt$

$p F_u$   $1$   $1$  ...

Single-Plate Shear  
Connection Design to  
Meet ... - AISC

1: Base Plate and  
Anchor Rod Design.

This article high-  
lights a number of  
engineering,

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fabrication, and erection considerations that will aid in the overall design, detailing, and erection processes for column bases— and repair, too, when that is necessary.

Materials Chapter A  
in the 2005 AISC  
Specification for  
Structural Steel  
Buildings ...

*Page 21/40*

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A review of the  
concepts behind  
anchoring ... - AISC

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The AISC

Specification for  
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Buildings and various  
ASTM material

standards cover

requirements for the  
use of anchor rods

and base plates. The

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FAQs in this section include a discussion of portions of these provisions and subsequent recommendations.

Additional information is available from AISC Design Guide #1: Base Plate and Anchor Rod Design (Second Edition, Fisher and Kloiber ...

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Engineering FAQs |  
American Institute of  
Steel Construction

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OF STEEL

CONSTRUCTION, INC.

One East Wacker  
Drive, Suite 3100

Chicago, IL

60601-2001 ... Anchor

Bolts and Threaded

Rods 5-28 6. Filler

Metal and Flux for



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Welding 5-28 ...

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CONSIDERATIONS

5-80 K1. Webs and

Flanges Under

Concentrated Forces

5-80 1. Design Basis

5-80

Specification for

Structural Steel

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Kharod, Umesh J.

(1980). "Anchor Bolt  
Design for Shear and  
Tension,"

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Engineering Journal,  
American Institute of  
Steel Construction,  
Vol. 17, pp. 22-23.

When column base plates are subject to both uplift and very large shear loads, two independent systems are normally used to resist tension in the anchor bolts and shear at the level of the base plate: (1) the

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length of  
embedment and the  
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...

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AISC has produced more than 30 design guides to provide detailed information on various topics related to structural steel design and

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connect to an anchor rod set too low (see Figure 6). The engineer may also investigate using an anchor rod with a partially engaged nut. Information on this option can be found in the second edition of AISC Design Guide 1: Base Plate and Anchor Rod Design. Damaged

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Rods When anchor rods are installed in an out-of-plumb position

BY ERIC BOLIN - AISC

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DESIGN GUIDE 1, 2ND

EDITION / BASE

PLATE AND ANCHOR

ROD DESIGN / 13

mentary to the AISC

Seismic Provisions

notes some signifi-

cant differences: 1.

Long anchor rods

embedded in

concrete will strain

much more than high-

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Strength bolts or  
welds in beam-to-  
column connections.

2. Column base plates  
are bearing on grout  
and concrete,

Base Plate and  
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Texas A&M University

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listings. This is just one of the solutions for you to be successful. As understood, ability does not recommend that you have extraordinary points. Comprehending as skillfully as treaty even more than further will present each success. next to,

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Aisc Manual For  
Anchor Bolt Design  
anchorage  
applications between  
steel members and

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Concrete elements.

This includes such issues as installed tension, slip resistance, and hole sizes, which do not apply in anchor-rod applications as they are covered for all-steel bolting applications. 7.1.

Anchor Rods |

American Institute of  
Steel Construction

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Page 7/24

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Aisc Manual For

Anchor Bolt Design

zones, they should be designed so that the anchor forces are directly transferred to anchor reinforcement that carries these anchor forces into the member beyond the anchor region.

(RD.3.3.2) Post-

*Page 39/40*

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Installed Anchors

must meet ACI 355.2  
or AQCI 355-4

(D3.3.3) Anchors in  
Seismic Design

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