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Base Plate Design
according to AISC
Seismic Design
Manual ~~How to check~~
~~the connection bolts~~
~~for tightness~~ Base
Plate and Anchor Rod
Design: A Step by
Step Approach Base

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Design Introduction
Base Plate and

Anchor Rod Design
Overview DIS-TRAN

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~~Tab Your AISC Steel~~
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Foundation And
Framing Tips ~~4 AISC-~~
~~Anchor bolt /u0026fo~~

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~~Foundation details steel
detailing | SWT ENTER
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What you need to

Know | Fasteners 101

Anchor rod design

example using ASDIP

STEEL Sleeve Anchors

for Attaching a Light

to Concrete How To

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bolting: stud bolt
removal technique

Veterans concrete,..
anchor bolts

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to Concrete Replacing
Anchor Bolts

~~SidePlate Bolted Field~~

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Modeling Techniques
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Structures How to
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Anchors | Fasteners~~

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things to walls? Meet
the WALL BOLT! How
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Fixed base plate
design calculations -
SD424 How to
Anchor Bolts, Railings
and Rebar in

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Concrete How I Epoxy
(Glue) Anchor Bolts
Into Concrete, Video

#4 New Room

Addition Toggle Bolts

Molly Bolts and

Anchors Aisc Manual

For Anchor Bolt

connect to an anchor

rod set too low (see

Figure 6). The

engineer may also

investigate using an

anchor rod with a

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

~~BY ERIC BOLIN - AISC~~
Home

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AISC has changed its terminology to anchor "rod" to eliminate confusion between structural bolting applications, such as those covered by the AISC and RCSC Specifications, and anchorage applications between steel members and concrete elements. This includes such

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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
The AISC~~

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Specification for
Structural Steel
Design Detail
Buildings and various
ASTM material
standards cover
requirements for the
use of anchor rods
and base plates. The
FAQs in this section
include a discussion
of portions of these
provisions and
subsequent
recommendations.

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~~Engineering FAQs |
American Institute of
Steel Construction~~

(This Preface is not part of ANSI/AISC 360-16, Specification for Structural Steel Buildings, but is included for informational purposes only.) This Specification is based upon past successful

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usage, advances in
the state of
knowledge, and
changes in design
practice. The 2016
American Institute of
Steel Construction ' s

~~ANSI/AISC 360-16:~~
~~Specification for~~
~~Structural Steel~~
~~Buildings~~
Chapter A in the
2005 AISC

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Specification for Structural Steel Buildings
(ANSI/AISC 360-05)

lists the materials that can be used for structural steel base plates and anchor rods. Based upon this, Table 1 lists common base plate materials, and the range of available thicknesses for these materials. Table 2 lists com-

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

~~Home~~

bolt installation
equipment has been
designed with a capac-
ity to fully tension
1-in. diameter ASTM
A490 bolts when re-
quired; larger bolts
will usually require
special equipment

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and/or effort. Additionally, bolt diameters larger than 1 in. may require larger clearances, edge distances, and spacings than are standard.

~~steelwise~~ — AISC

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The AISC LRFD still provides method to evaluate these

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fasteners, mainly for review of existing old structures. Rivet steel is a mild carbon steel designated by ASTM as A502 Grade 1 ($F_y=28$ ksi) and grade 2 & 3 ($F_y=38$ ksi). The principal causes for the obsolescence of rivets have been the development of high-strength bolts and welding techniques.

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~~Design of Bolts in
Shear Bearing~~

~~Connections per AISI
LRFD ...~~

The ASTM
specification allows
F1554 anchor rods to
be supplied either
straight (threaded
with nut for
anchorage), bent or
headed. Rods up to
approximately 1 in. in

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diameter are sometimes supplied with heads hot forged similar to a structural bolt. Thereafter, it is more common that the rods will be threaded and nutted.

~~Base Plate and
Anchor Rod Design~~
15th Edition AISC
Steel Construction
Manual, is referred to

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as the AISC Manual.

2. The source of equations or tabulated values taken from the AISC Specification or AISC Manual is noted along the right-hand edge of the page. 3. Values are presented to three significant figures throughout this Companion. iii

AMERICAN

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INSTITUTE OF STEEL
CONSTRUCTION

~~COMPANION TO THE
AISC STEEL
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MANUAL~~

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CONSTRUCTION, INC.
One East Wacker
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Chicago, IL
60601-2001

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INSTITUTE OF STEEL
CONSTRUCTION .

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Anchor Bolts and
Threaded Rods 5-28

6. Filler Metal and
Flux for Welding 5-28

7. Stud Shear
Connectors 5-29 A4.

Loads and Forces
5-29

~~Specification for~~

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Structural Steel
Buildings - AISC
Home

Scacco, Mario N.
(1992). "Design Aid-
Anchor Bolt
Interaction of Shear
and Tension Loads,"
Engineering Journal,
American Institute of
Steel Construction,
Vol. 29, pp. 137-140.
A common practice
among structural

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engineers involved in industrial building design is to specify either ASTM A36 threaded rod bolts or A307 headed bolts for use as cast-inplace anchors to carry combined shear and tension ...

~~Design Aid Anchor Bolt Interaction of Shear and Tension ...~~

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Tolerances ASCC

Position Statement

#14 The American

Institute of Steel

Construction (AISC)

Structural Steel

Educational Council,

Steel TIPS (Technical

Information and

Product Services),

Dec. 1993, states:

“ The installation of
anchor bolts is not an

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easy task under the best of conditions. If the contractor has a firm, level, dry,

~~Anchor Bolt
Tolerances—ASCC~~
454 Result(s) Found
for: anchor bolts
tightening . Design
for Eccentric and
Inclined Loads on
Bolt and Weld
Groups. Design for

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Eccentric and Inclined
Loads on Bolt and
Weld Groups

Iwankiw, Nestor R.
Nestor R. Iwankiw 4
1987 The 8th Edition
AISC Manual of Steel
Construction
introduced the
ultimate strength,

~~Site Search Results |
American Institute of
Steel Construction~~

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The AISC Steel
Construction Manual,
in the judgment of
the owner s
designated
representative for
design, Portland Bolt
provides anchor bolts
and risabase - base
plate and anchor bolt
design Award-
winning RISABase is
an advanced base
plate and anchor bolt

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design codes: AISC
anchor bolts in the
field) Anchor bolt

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could go to your near
connections listings.
This is just one of the
solutions for you to
be successful. As
understood, carrying
out does not suggest
that you have
fantastic points.

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The forces in anchors including prying forces are determined by finite element analysis, but the resistances are checked using code provisions of ACI 318-14 - Chapter 17. Only LFRD is available. Anchor rods are designed

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According to AISC
360-16 – J9 and ACI
318-14 – Chapter
17. The following
resistances of anchor
bolts are evaluated:

~~Anchors (AISC) | IDEA
StatiCa~~

Like threaded rods,
anchor rods can be
made of any grade of
steel. One choice,
however, is to use

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steel meeting ASTM
A307, which is a steel
used for bolts, studs,
and other products of
circular...

~~Aisc design guide 17
high strength bolts by
Pedro Antonio ...~~

The AISC Steel
Construction Manual,
in the judgment of
the owner s
designated

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Design Draft

representative for
design, Portland Bolt
provides anchor bolts
and risabase - base
plate and anchor bolt
design Award-
winning RISABase is
an advanced base
plate and anchor bolt
design program Steel
design codes: AISC
anchor bolts in the
field) Anchor bolt

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