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tion on the design of
base plates for steel

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columns. The material is taken from reports, papers, texts and design guides. The intent is to provide engineers with the research background and an understanding of the behavior of base plates and then to present information and guidelines for their design. The material is intended for

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E. Via Department of
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University ... columns
and to connect two
rafter segments in
typical gable frames as
shown in Figures 1-1
and 1-2. Hence,

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PRACTICAL DESIGN
AND DETAILING OF

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Series Column Base Plates STEEL COLUMN BASE PLATES 1.0

INTRODUCTION 1.1

Preface Steel column base plates are one of the most ~ndamental parts of a steel structure, yet the design of base plates is commonly not given the attention that it should by engineers. This results in base plate details that are expensive, difficult to ...

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2 / DESIGN GUIDE 1,
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PLATE AND ANCHOR
ROD DESIGN The vast
majority of building
columns are designed
for axial compression

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only with little or no uplift. For such columns, the simple column-base-plate connection detail shown in Figure 1.1 is sufficient. The design of column-base-plate

Base Plate and Anchor Rod Design

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Rehabilitation and

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Shapes and

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Specifications ... began with cast-iron columns and wrought-iron beams. Early uses of cast iron in England in the 1770s included a small arch bridge over the river

AISC Rehabilitation and Retrofit Guide

methods outlined in the AISC Steel Design Guide No. 1, Base Plate and Anchor Rod Design. The tests described in this article may be

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subdivided into three series, each addressing one aspect of base connection design. The first series consists of seven large-scale tests investigating the moment capacity of base connections under compressive axial load. A second series of seven tests

Recent Research on Column base Connections

This second edition

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design guide was created to assist engineers and fabricators in the design, detailing and specification of column-base-plate and anchor-rod connections, in a manner that avoids common fabrication and erection problems. This Guide is based on the 2005 AISC Specification for Structural Steel Buildings (AISC 2005) and includes design

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guidance in accordance with both Load and Resistance Factor Design (LRFD) and Allowable Stress Design (ASD).

Design Guide 1: Base Plate and Anchor Rod Design (Second ...

This design guide is an update to the AISC publication Tor-sional Analysis of Steel Members and advances further the

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work upon which that
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Coverage of shapes
has been expanded
and includes W-, M-, S-,
and HP-Shapes,
channels

Torsional Analysis of

The guide is authored
by Dr. James Fisher,
Vice-President of

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Computerized
Structural Design, and
Chairman of the AISC
Committee on
Specifications. The
updated guide provides
complete coverage of
structural
considerations
encountered in the
design of conventional
industrial buildings.

Design Guide 7: Industrial Buildings--Roofs to Anchor Rods ...

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Beam-Column Base
Plate Design—... area of
steel concentrically
bearing on a concrete N
te that equation 12 is
that a closed form solution
be-support, in. case;
maximum area of the p
rtion of the supporting is
a function of λ , surface
that is geometrically
similar to and c_n is a
function of λ ,

Beam-Column Base Plate Design--LRFD Method

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anchorage (Steel
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DESIGN / 61 Anchor
rods are placed at a
12-in. edge distance.
The required moment
strength, M_u or M_a ,
for a 1-in. strip of
plate due to the
tension in the anchor
rods is The required
moment strength due
to the bearing stress
distribution is critical.

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The required plate thickness is:

pI LRFD ASD

struction, Inc. as part of a series of publications on special topics related to fabricated structural steel. Its purpose is to serve as a supplemental reference to the AISC Manual of Steel Construction to assist practicing engineers engaged in building

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guidelines suggested
by the author that are
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