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*INSTITUTE OF STEEL
CONSTRUCTION ... began with
cast-iron columns and
wrought-iron beams. Early
uses of cast iron in England
in the*

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*Extended End-Plate Moment
Connections*

*This second edition design
guide was created to assist
engineers and fabricators in*

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the design, detailing and specification of column-base-plate and anchor-rod connections, in a manner that avoids common fabrication and erection problems.

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*Industrial Buildings has
been updated to its second*

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edition. The guide is authored by Dr. James Fisher, Vice-President of Computerized Structural Design, and Chairman of the AISC Committee on Specifications.

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Industrial Buildings
DESIGN GUIDE 4, 2ND EDITION
/ EXTENDED END-PLATE MOMENT
CONNECTIONS—SEISMIC AND WIND
APPLICATIONS/1 1.1*

*Background A typical moment
end-plate connection is*

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*composed of a steel plate
welded to the end of a beam
section with attach-*

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

2 / DESIGN GUIDE 1, 2ND

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*EDITION / BASE PLATE AND
ANCHOR ROD DESIGN* The vast
majority of building columns
are designed for axial
compression only with little
or no uplift. For such col-
umns, the simple column-base-
plate connection detail

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*shown in Figure 1.1 is
sufficient. The design of
column-base-plate*

*Practical Design and
Detailing of Steel Column
Base Plates*

Chapter 6: Structural Steel

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*Design 6-3 § SDI Luttrell,
Larry D. 1981. Steel Deck
Institute Diaphragm Design
Manual. Steel Deck
Institute. The symbols used
in this chapter are from
Chapter 11 of the Standard,
the above referenced*

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*documents, or are as defined
in the text.*

*Base Plate and Anchor Rod
Design - Portada*

*DESIGN GUIDE 1, 2ND EDITION
/ BASE PLATE AND ANCHOR ROD
DESIGN / 61 Anchor rods are*

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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

Load and Resistance Factor

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*Design of W-Shapes
Steel Construction, Inc. as
part of a series of publica-
tions on special topics
related to fabricated
structural steel. Its
purpose is to serve as a
supplemental re ference to*

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*the AISC Manual of Steel
Construction to assist
practicing engineers engaged
in building design. The
design guidelines suggested
by the author that are*

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of Steel Construction, Inc

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PRACTICAL DESIGN AND

DETAILING OF STEEL COLUMN

BASE PLATES 1.0 INTRODUCTION

1.1 Preface Steel column

base plates are one of the

most ~ndamental parts of a

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steel structure, yet the design of base plates is commonly not given the attention that it should by engineers. This results

pl LRFD ASD

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*Thomas M. Murray, P.E.,
Ph.D. Montague Betts
Professor of Structural
Steel Design Charles E. Via
Department of Civil
Engineering ... are
sometimes used for beam-to-
column moment connections*

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*when a plate extension would
interfere with other members
or the roof deck.*

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...

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*Load and Resistance Factor
Design of W-Shapes ... Steel
Design Guide Series Load and
Resistance Factor Design of
W-Shapes Encased in Concrete
Lawrence G. Griffis Walter
P. Moore and Associates,
Inc. Houston, Texas ...*

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*encased steel columns to
carry the floor loads have
also been*

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American Institute of Steel*

...

Design of Column Base Plates

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*John T. DeWolf Professor of
Civil Engineering University
of Connecticut Storrs,
Connecticut Some Practical
Aspects of Column Base
Selection David T. Bicker
Vice President, Engineering
The Berlin Steel*

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*AISC SDGS-4 AISC Steel
Design Guide Series 4. 1990.
Extended End-Plate Moment
Connections, 1990. SDI
Luttrell, Larry D. 1981.
Steel Deck Institute
Diaphragm Design Manual.
Steel ... The design of*

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footings and columns in the braced bays requires consideration of combined seismic loadings. The design of foundations is not included here.

*Structural Steel Design -
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YMCDN

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plate 1. Steel Design Guide
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