

Design Capacity Tables For Structural Steel

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Australian Steel Institute 1999-08-01

Design Capacity Tables for Structural Steel

Australian Institute Of Steel Construction Staff

1999 Regarded as a "must have" design aid for engineers, designers, fabricators and other

specifiers of structural steel, the Design

Capacity Tables for Structural Steel (DCT)

provides information for the design and detailing of structural steel members and connections.

Data is presented in the limit states format of AS

4100. Volume 1 of the DCT contains information on the readily available range of "open"

structural steel sections (WB, WC, UB, UC, PFC,

TFC, TFB, EA & UA). Also included are BHP

Grade 300PLUSTM, the new "Lean Beams", and

incorporation of Amendments 1 and 2 to AS

4100. Significant enhancements have been made to the second edition, including improved table layout and easy to read design curves. Data in the DCT includes: dimensions and section properties; design section capacities; values for fire design; and design capacities for members subject to bending, shear, bearing, axial compression, axial tension and combined actions. Also included are design capacities for bolts, welds and floor plates; elastic buckling loads; detailing parameters; section properties for gantry girders and rails; and useful tables for angles subjects to flexural loadings about their rectangular axes (restrained and unrestrained) and angles in trusses. Volume 2 of the DCT (DCTv2ed2) provides up-to-date information on the full range of Australian manufactured hollow sections complying with AS 1163. Additionally,

the 1998 version of AS 4100 included some significant changes to the hollow section design provisions. These changes have also been incorporated in DCTv2ed2. Other features of DCTv2ed2 include tables associated with section properties, surface areas, telescoping sections, maximum design loads for simply supported beams with full lateral restraint, design section moment (including torsion) and web capacities, design moment capacities for members without full lateral restraint and design member capacities in axial compression/tension. The text includes data used to generate the tables, information relevant to common applications, useful examples and noting of clauses/equations in AS 4100 which are specific to hollow sections. *Mechanics of Structures and Materials* R. Al-Mahaidi 2026-03-02 These proceedings include a selection of a broad range of research topics currently being investigated in the fields of structures, foundations and materials in Australasia. Papers cover diverse topics such as:

Fibre reinforced composites; Concrete and steel composite structures; Concrete design; Steel design and welding; Dynamic, fire and seismic loading; Finite element analysis and optimisation; Stability in structures; Reliability; Timber and masonry structures; and Geomechanics.

Simple Connections T. J. Hogan 2007

Design Capacity Tables for Structural Steel 1994

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Australian Steel Institute 1991

Design Capacity Tables for Structural Steel T. J. Hogan 2009

Design Capacity Tables for Structural Steel T. Hogan 2009 "This fourth edition of the 'Design capacity tables for structural steel - vol 1 (DCTv1)' is a design aid to the limit states standard 'AS 4100-1998: steel structures' -- published by Standards Australia. The DCTv1 only considers standard open type hot-rolled sections and standard open sections

manufactured from hot-rolled plate[s]."--Preface, p. v.

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Australian Steel Institute Staff 2004

Design Capacity Tables for Structural Steel 1994

Tubular Structures VIII Y.S. Choo 2022-03-30

First published in 1998. Looking at the architecture and engineering of tubular structures, and the behaviour of section joints, members and frames under different loads and conditions, this book provides a reference point for both civil and mechanical engineers.

Steel Designers' Handbook Branko Gorenc 2005 "This book makes extensive use of worked numerical examples to demonstrate the methods of calculating the capacities of structural elements. These examples have been extensively revised from the previous edition, with further examples added. The worked examples are cross-referenced to the relevant clauses in AS 4100: 1998."--BOOK JACKET.

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Hollow Sections 2003

Computer Modeling in Engineering & Sciences 2009

Design Capacity Tables for Structural Steel

Australian Steel Institute 2016

Tubular Structures Paul Grundy 2021-10-06

Tubular structures remain a source of architectural inspiration and practical solutions to difficult performance specifications. New developments are covered in this text, which contains papers on design innovations and applications presented at an international symposium held in Australia in 1994.

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Hollow Sections Australian Steel Institute 1992

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