

Eurocode 3

Table of Design Properties for Steel Tubes - Circular Hollow Sections (CHS)

Description:

Design aid - Table of design properties for circular hollow steel sections (CHS) including section dimensions, cross-section properties (area A, second moment of area I, elastic modulus W_{el}, plastic modulus W_{pl}, strength properties (elastic moment M_{el}, plastic moment M_{pl}, plastic shear V_{pl}, and buckling properties (section class, buckling curve)

According to:

EN 1993-1-1:2005+AC1:2009

Input

Profile type

Tables

Design properties of hot finished Circular Hollow Section (CHS) for S235 steel class ($\gamma_{M0} = 1.00$, units = mm)

Profile	Drawing	Profile dimensions		Area properties				Inertia properties				Torsional properties		Axial force resista
		Ext. Diameter D (mm)	Wall thickness t (mm)	Weight m (kg/m)	External perimeter P (m)	Area A (mm ²)	Shear area A _v (mm ²)	Second moment of area I (·10 ⁸ mm ⁴)	Radius of gyration i (mm)	Elastic section modulus W _{el} (·10 ³ mm ³)	Plastic section modulus W _{pl} (·10 ³ mm ³)	Torsion constant I _t (·10 ⁸ mm ⁴)	Torsion modulus W _t (·10 ³ mm ³)	Design plastic axial force resistance N _{Rd,00} (kN)
CHS 21.3 / 2.3	02f	21.3	2.3	1.08	0.067	137	87	0.006286	8.8	0.5902	0.8546	12.57	1.180	32.26
CHS 21.3 / 2.6	02f	21.3	2.6	1.20	0.074	152	97	0.006806	8.7	0.639	0.9151	13.61	1.278	35.89
CHS 21.3 / 3.2	02f	21.3	3.2	1.43	0.087	182	118	0.007684	8.5	0.7215	1.059	15.37	1.443	42.76
CHS 26.9 / 2.3	02f	26.9	2.3	1.40	0.085	179	113	0.01256	8.7	1.008	1.396	27.13	2.017	45.77
CHS 26.9 / 2.6	02f	26.9	2.6	1.58	0.085	198	126	0.01482	8.6	1.102	1.541	29.64	2.203	48.64

Design Guide For Circular Hollow Sections

Leroy Gardner, D. A. Nethercot



Design Guide For Circular Hollow Sections:

Design Guide for Circular Hollow Section (CHS) Joints Under Predominantly Static Loading, 2008 **Design Guide for Circular Hollow Section (chs) Joint Under Predominantly Static Loading** J. Wardenier, Y. Kurobane, J. A. Packer, 2003

Berechnung + [und] Bemessung von Verbindungen aus Rundhohlprofilen unter vorwiegend ruhender Beanspruchung Jaap Wardenier, 1991-01 **Tubular Structures XII** Z.Y. Shen, Y.Y. Chen, Xian-zhong Zhao, 2008-09-11

Presentation of the latest scientific and engineering developments in the field of tubular steel structures Covers key and emerging subjects of hollow structural sections such as static and fatigue behaviour of connections joints concrete filled hollow sections and composite tubular members offshore structures earthquake resistance **Tubular Structures IX** Puthli, 2001-01-01 A reference for architects and engineers this work covers themes on architecture case studies and the application and strengths of tubular beams *Cold-formed Tubular Members and Connections* Greg Hancock, Tim J Wilkinson, Xiao-Ling Zhao, 2005-08-17 Cold formed structural members are being used more widely in routine structural design as the world steel industry moves from the production of hot rolled section and plate to coil and strip often with galvanised and or painted coatings Steel in this form is more easily delivered from the steel mill to the manufacturing plant where it is usually cold rolled into open and closed section members This book not only summarises the research performed to date on cold form tubular members and connections but also compares design rules in various standards and provides practical design examples **Design Guide for Hollow Structural Section Connections** J. A. Packer, J. E. Henderson, Canadian Institute of Steel Construction, 1992 *Tubular Structures XIV* Leroy Gardner, 2012-08-24 Tubular Structures XIV contains the latest scientific and engineering developments in the field of tubular steel structures as presented at the 14th International Symposium on Tubular Structures ISTS14 Imperial College London UK 12-14 September 2012 The International Symposium on Tubular Structures ISTS has a long standing reputation for b *Fatigue Design Procedure for Welded Hollow Section Joints* X-L Zhao, J A Packer, 2000-05-22 Provides recommendations for the fatigue design of directly welded unstiffened joints or connections between structural steel hollow sections in uniplanar or multiplanar truss type structural systems The recommendations represent the current international consensus on practice The fatigue design procedure is based on the hot spot stress approach *Contribution on the behavior of welded joints to metallic structural elements with tubular section* Dr.-Ing. Patrick Heinemann, 2023-02-22 Doctoral Thesis Dissertation from the year 2022 in the subject Engineering Civil Engineering grade Summa cum laude language English abstract Steel structures which are made of hollow section profiles are mainly used for construction structures There are many fields of applications for structures made of hollow section profiles Hollow section profiles are lightweight and have got a high resistance to compression which is an advantage for column structures The most common profile types have squared or circular hollow cross sections Connecting two or more pipes by welding the joints have got different shapes These joints are

part of trusses or columns with a tree shaped optic The standards have got restrictions regarding the geometry material or load cases By choosing a node which is excluded in the standards designing engineers have to create their own models This thesis is about the designing of a Y shaped steel joint full overlapped on top connection which is not defined in current standards up to the time the thesis is created In this thesis only uniplanar joints are investigated A special focus is on the welding line which has got a three dimensional shape The aim is to figure out the influence on the inclination angle between the two members on the resistance of the joint Beside this the profile shape and profile thickness vary to see the differences in their resistance Square and circular hollow section profiles are in focus To analyse the behaviour of the different steel joints a numerical and experimental investigation is executed Design charts are created as a medium for designing engineers to calculate the ultimate resistance in the elastic and plastic state depending on the steel profile thickness and inclination angle The structure of the thesis is split into four main parts Firstly there is an explanation of the general topic with its difficultness Secondly there is the state of the art presentation of literature and standards in this range Thirdly there is a numerical analysis of the joints The basement of the numerical studies is detailed in pre studies which explain and compare different mesh types or geometrical variations Fourthly there is an experimental verification of the numerical tests It is figured out if the inclination angle increase the resistance of the steel joint will decrease significantly This effect is non linear Beside this it is found that the full overlapped joint with the squared profile has got a higher resistance than a comparable joint with a similar circular hollow section

Tubular Structures XI Jeffrey A. Packer, Silke Willibald, 2006-07-31 This topical book contains the latest scientific and engineering developments in the field of tubular steel structures as presented at the 11th International Symposium and IIW International Conference on Tubular Structures The International Symposium on Tubular Structures ISTS has a long standing reputation for being the principal showcase for manufactured tubing and the prime international forum for discussion of research developments and applications in this field Various key and emerging subjects in the field of hollow structural sections are covered such as novel applications and case studies static and fatigue behaviour of connections joints concrete filled and composite tubular members earthquake resistance specification and code developments material properties and structural reliability impact resistance and brittle fracture fire resistance casting and fabrication innovations Research and development issues presented in this book are applicable to buildings bridges offshore structures entertainment rides cranes towers and various mechanical and agricultural equipment This book is thus a pertinent reference source for architects civil and mechanical engineers designers steel fabricators and contractors manufacturers of hollow sections or related construction products trade associations involved with tubing owners or developers of tubular structures steel specification committees academics and research students The conference presentations herein include two keynote lectures the International Institute of Welding Houdremont Lecture and the ISTS Kurobane Lecture plus finalists in the CIDECT Student Papers Competition The 11th International Symposium and IIW

International Conference on Tubular Structures ISTS11 took place in Qu bec City Canada from August 31 to September 2 2006 Design Guide for Rectangular Hollow Section (RHS) Joints Under Predominantly Static Loading ,2009

Research and Applications in Structural Engineering, Mechanics and Computation Alphose Zingoni,2013-08-15
Research and Applications in Structural Engineering Mechanics and Computation contains the Proceedings of the Fifth International Conference on Structural Engineering Mechanics and Computation SEMC 2013 Cape Town South Africa 2 4 September 2013 Over 420 papers are featured Many topics are covered but the contributions may be seen to fall

Structures with Hollow Sections Dipak Dutta,2002-06-28 Structures using hollow sections are a special area within steel construction and are often ignored as such in publications This work represents a comprehensive treatment of the whole field from manufacture right up to useful applications in steel construction **Design Guide for Circular and Rectangular**

Hollow Section Welded Joints Under Fatigue Loading Xiao-Ling Zhao,2001 **The Behavior of Thin Hollow**
Structural Section (HSS) to Plate Connections Justin Michael Ocel,2006 *Design Guide for Rectangular Hollow*
Section (RHS) Joints Under Predominantly Static Loading Jeffrey A. Packer,1992 This design guide deals with the static strength criteria for various uniplanar and multiplanar welded and bolted connections of square and rectangular hollow sections with emphasis on the connection behaviour and governing connection parameters Advances in Structures Lijuan

Li,2010-12-06 Selected peer reviewed papers from the 2011 International Conference on Structures and Building Materials ICSBM 2011 7 9 January 2011 Guangzhou China **Designers' Guide to EN 1993-1-1** Leroy Gardner,D. A.

Nethercot,2005 After some 25 years in preparation the key parts of EN 1993 1 1 Eurocode 3 Design of steel structures General rules and rules for buildings have now been finalised Eurocode 3 covers many forms of steel construction and provides the most comprehensive and up to date set of design guidance currently available Throughout this book concentrates on the most commonly encountered aspects of structural steel design with an emphasis on the situation in buildings Much of its content is therefore devoted to the provisions of the Part 1 1 General rules and rules for buildings of EN 1993 This is however supplemented by material on loading joints and cold formed design For each of the principal aspects covered the book provides background to the structural behaviour explanation of the codified treatment including departure from existing practice BS 5950 and numerous worked examples This Guide should serve as the primary point of reference for designing steel structures to Eurocode 3 **BOOK JACKET Design Guide for Circular and Rectangular Hollow Section Welded Joint Under Fatigue Loading** X. L. Zhao,S. Herion,J. A. Packer,2003

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