

Steel Design to Eurocode 3

Joints

Eurocode 3 Part: 1-8

Joint Types

CL 5.2.2.2 'Nominally pinned' joints are capable of transmitting internal forces without developing significant moments, and capable of accepting the resulting rotations under the design loads.

CL 5.2.2.3 'Rigid and full strength' joints have sufficient rotational stiffness to justify analysis based on full continuity.

'Semi-rigid' joints lie somewhere between 'nominally pinned' and 'rigid'.

Eurocode 3

- Principles mostly the same as BS 5950
- Results are similar although EC3 results are slightly more conservative and this is due to the larger partial safety factor ($\gamma_{M2}=1.25$)

Bolt Strength

These values should be adopted as characteristic values in design calculations :

Bolt classes	4.6	5.6	8.8	10.9
f_{ub} (N/mm ²)	240	300	640	900
f_{tb} (N/mm ²)	400	500	800	1000

EN 1993-1-8 Table 3.1 - Nominal values of f_{ub} and f_{tb} for bolts

Steel Strength

Steel grade	f_y (N/mm ²)				f_u (N/mm ²)	
	Nominal thickness of element t (mm)				Nominal thickness of element t (mm)	
	t ≤ 16	16 < t ≤ 40	40 < t ≤ 63	63 < t ≤ 80	t < 3	3 ≤ t ≤ 100
S 275	275	265	255	245	430 to 580	410 to 560
S 355	355	345	335	325	510 to 680	470 to 630

Extract from Table 7 of EN 10025-2

EN 1993-1-8 Clause 2.2

- Partial safety factors, γ_w for joints are given in Table 2.1 of EC 3-8.
- Refer to NA to get the required values of the different partial safety factors
- Resistance of bolts and welds, $\gamma_{M2} = 1.25$

Bolted Joints – Table 3.4

Table 3.4 of EN 1993-1-8 gives the different checks required for individual fasteners subjected to shear and/or tension.

Checks need to be carried out for a number of possible failure modes:

- Shear resistance per shear plate
- Bearing Resistance
- Tension Resistance
- Combined shear and tension

Bolted Joints – Tension

Tension resistance for ordinary bolts:

$$F_{t,kd} = k_2 f_{ub} \frac{A_s}{\gamma_{M2}}$$

where:

- A_s is the tensile stress area of the bolt
- $\gamma_{M2} = 1.25$
- f_{ub} is the ultimate tensile strength of the bolt
- $k_2 = 0.63$ for countersunk bolt, otherwise $k_2 = 0.9$

Bolted Joints – Shear

Shear resistance per shear plane for ordinary bolts where the shear plane passes through the threaded portion of the bolt:

$$F_{v,kd} = \alpha_v f_{ub} \frac{A_s}{\gamma_{M2}}$$

where:

- A_s is the tensile stress area of the bolt
- f_{ub} is the ultimate tensile strength of the bolt
- $\gamma_{M2} = 1.25$

Bolt classes	4.6	4.8	5.6	5.8	6.8	8.8	10.9
α_v	0.6	0.5	0.6	0.5	0.5	0.6	0.5

Guide Eurocode 3 Fatigue

Dr.-Ing. Patrick Heinemann



Guide Eurocode 3 Fatigue:

Innovative Bridge Design Handbook Alessio Pipinato, 2021-09-08 Innovative Bridge Design Handbook Construction Rehabilitation and Maintenance Second Edition brings together the essentials of bridge engineering across design assessment research and construction Written by an international group of experts each chapter is divided into two parts the first covers design issues while the second presents current research into the innovative design approaches used across the world This new edition includes new topics such as foot bridges new materials in bridge engineering and soil foundation structure interaction All chapters have been updated to include the latest concepts in design construction and maintenance to reduce project cost increase structural safety and maximize durability Code and standard references have been updated Completely revised and updated with the latest in bridge engineering and design Provides detailed design procedures for specific bridges with solved examples Presents structural analysis including numerical methods FEM dynamics risk and reliability and innovative structural typologies

Handbook of Structural Engineering W.F. Chen, E.M. Lui, 2005-02-28 Continuing the best selling tradition of the Handbook of Structural Engineering this second edition is a comprehensive reference to the broad spectrum of structural engineering encapsulating the theoretical practical and computational aspects of the field The contributors cover traditional and innovative approaches to analysis design and rehabilitation New topics include fundamental theories of structural dynamics advanced analysis wind and earthquake resistant design design of prestressed structures high performance steel concrete and fiber reinforced polymers semirigid frame structures structural bracing and structural design for fire safety

Bridge Engineering Handbook, Second Edition Wai-Fah Chen, Lian Duan, 2014-01-24 Over 140 experts 14 countries and 89 chapters are represented in the second edition of The Bridge Engineering Handbook This extensive collection highlights bridge engineering specimens from around the world contains detailed information on bridge engineering and thoroughly explains the concepts and practical applications surrounding the subject Published in five books Fundamentals Superstructure Design Substructure Design Seismic Design and Construction and Maintenance this new edition provides numerous worked out examples that give readers step by step design procedures includes contributions by leading experts from around the world in their respective areas of bridge engineering contains 26 completely new chapters and updates most other chapters It offers design concepts specifications and practice as well as the various types of bridges The text includes over 2 500 tables charts illustrations and photos The book covers new innovative and traditional methods and practices explores rehabilitation retrofit and maintenance and examines seismic design and building materials The first book Fundamentals contains 22 chapters and covers aesthetics planning design specifications structural modeling fatigue and fracture What's New in the Second Edition Covers the basic concepts theory and special topics of bridge engineering Includes seven new chapters Finite Element Method High Speed Railway Bridges Concrete Design Steel Design Structural Performance Indicators for Bridges High Performance Steel and Design and Damage

Evaluation Methods for Reinforced Concrete Beams under Impact Loading Provides substantial updates to existing chapters including Conceptual Design Bridge Aesthetics Achieving Structural Art in Bridge Design and Application of Fiber Reinforced Polymers in Bridges This text is an ideal reference for practicing bridge engineers and consultants design construction maintenance and can also be used as a reference for students in bridge engineering courses

Bridge Engineering Handbook Wai-Fah Chen, Lian Duan, 2014-01-24 Over 140 experts 14 countries and 89 chapters are represented in the second edition of The Bridge Engineering Handbook This extensive collection highlights bridge engineering specimens from around the world contains detailed information on bridge engineering and thoroughly explains the concepts and practical applications surrounding the subject

The Manual of Bridge Engineering M. J. Ryall, G. A. R. Parke, J. E. Harding, 2000

Bridge type behaviour and appearance David Bennett David Bennett Associates History of bridge development Bridge form Behaviour Loads and load distribution Mike Ryall University of Surrey Brief history of loading specifications Current code specification Load distribution concepts Influence lines Analysis Professor R Narayanan Consulting Engineer Simple beam analysis Distribution coefficients Grillage method Finite elements Box girder analysis steel and concrete Dynamics Design of reinforced concrete bridges Dr Paul Jackson Gifford and Partners Right slab Skew slab Beam and slab Box Design of prestressed concrete bridges Nigel Hewson Hyder Consulting Pretensioned beams Beam and slab Pseudo slab Post tensioned concrete beams Box girders Design of steel bridges Gerry Parke and John Harding University of Surrey Plate girders Box girders Orthotropic plates Trusses Design of composite bridges David Collings Robert Benaim and Associates Steel beam and concrete Steel box and concrete Timber and concrete Design of arch bridges Professor Clive Melbourne University of Salford Analysis Masonry Concrete Steel Timber Seismic analysis of design Professor Elnashai Imperial College of Science Technology and Medicine Modes of failure in previous earthquakes Conceptual design issues Brief review of seismic design codes Cable stayed bridges Daniel Farquhar Mott MacDonald Analysis Design Construction Suspension bridges Vardaman Jones and John Howells High Point Rendel Analysis Design Construction Moving bridges Charles Birnstiel Consulting engineer History Types Special problems Substructures Peter Lindsell Peter Lindsell and Associates Abutments Piers Other structural elements Robert Broome et al WS Atkins Parapets Bearings Expansion joints Protection Mike Mulheren University of Surrey Drainage Waterproofing Protective coating systems for concrete Painting system for steel Weathering steel Scour protection Impact protection Management systems and strategies Perrie Vassie Transport Research Laboratory Inspection Assessment Testing Rate of deterioration Optimal maintenance programme Prioritisation Whole life costing Risk analysis Inspection monitoring and assessment Charles Abdunur Laboratoire Central Des Ponts et Chaussées Main causes of deterioration Investigation methods Structural evaluation tests Stages of structural assessment Preparing for recalculation Repair and Strengthening John Darby Consulting Engineer Repair of concrete structures Metal structures Masonry structures Replacement of structures

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 *Fatigue Design of Steel and Composite Structures* ECCS - European Convention for Constructional

Steelwork,2018-06-05 This volume addresses the specific subject of fatigue a subject not familiar to many engineers but still relevant for proper and good design of numerous steel structures It explains all issues related to the subject Basis of fatigue design reliability and various verification formats determination of stresses and stress ranges fatigue strength application range and limitations It contains detailed examples of applications of the concepts computation methods and verifications

High-Cycle Metal Fatigue Ky Dang Van,Ioannis V. Paradopoulos,1999-05-04 This book is devoted to the high cycle fatigue behaviour of metal components thus covering essential needs of current industrial design The new developments included in the book rely on the use of the mesoscopic scale approach in metal fatigue and allow the specific handling of such difficult fatigue problems as multiaxial non proportional loading conditions *Advanced Engineering Forum Vol. 26* Dumitru

Nedelcu,2018-02-23 The 26th volume of the journal *Advanced Engineering Forum* contains peer reviewed manuscripts describing the results of engineering solutions and research dealing with actual problems in the study of structural and functional materials their behaviour and their processing technologies Published articles will be useful for professionals in the field of materials development and application in the various branches of engineering and for students and academic staff concerned with the related specialties *ASM Handbook* ASM International. Handbook Committee,1990 These volumes

cover the properties processing and applications of metals and nonmetallic engineering materials They are designed to provide the authoritative information and data necessary for the appropriate selection of materials to meet critical design and performance criteria *Applied Mechanics Reviews* ,2000 **Annual Book of ASTM Standards** ASTM

International,American Society for Testing and Materials,2004 **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** **Fatigue Assessment of Welded Joints by Local Approaches**

Dieter Radaj, C M Sonsino, W Fricke, 2006-10-30 Local approaches to fatigue assessment are used to predict the structural durability of welded joints to optimise their design and to evaluate unforeseen joint failures This standard work provides a systematic survey of the principles and practical applications of the various methods It covers the hot spot structural stress approach to fatigue in general the notch stress and notch strain approach to crack initiation and the fracture mechanics approach to crack propagation Seam welded and spot welded joints in structural steels and aluminium alloys are also considered This completely reworked second edition takes into account the tremendous progress in understanding and applying local approaches which has been achieved in the last decade It is a standard reference for designers structural analysts and testing engineers who are responsible for the fatigue resistant in service behaviour of welded structures

Steel Design Handbook Akbar R. Tamboli, 1997 Very Good No Highlights or Markup all pages are intact 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 *Fatigue Under Spectrum Loading and in Corrosive Environments* A. F. Blom,1993 **Proceedings of the ... International Conference on Offshore Mechanics and Arctic Engineering** ,1994 **Proceedings - Offshore Technology Conference** ,1993
Proceedings of the First International Conference on Steel & Composite Structures Chang-Koon Choi,Hyo-Gyoung Kwak,2001

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