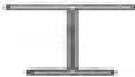
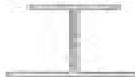


Table 19 — Slenderness factor  $\lambda$  for sections with two plain flanges

$\lambda_y$	Unequal flanges, larger flange in compression				Equal flanges		Unequal flanges, smaller flange in compression			
	 Compression Tension				 Compression Tension		 Compression Tension			
	$\lambda$				$\lambda$		$\lambda$			
	0.9	0.8	0.7	0.6	0.5		0.4	0.3	0.2	0.1
0.5	0.81	0.84	0.88	0.93	1.00		1.11	1.28	1.57	2.20
1.0	0.80	0.83	0.87	0.92	0.99		1.10	1.27	1.53	2.11
1.5	0.80	0.82	0.86	0.91	0.97		1.08	1.24	1.48	1.98
2.0	0.78	0.81	0.85	0.89	0.96		1.06	1.20	1.42	1.84
2.5	0.77	0.80	0.83	0.88	0.93		1.03	1.16	1.35	1.70
3.0	0.76	0.78	0.82	0.86	0.91		1.00	1.12	1.29	1.57
3.5	0.74	0.77	0.80	0.84	0.89		0.97	1.07	1.22	1.46
4.0	0.73	0.75	0.78	0.82	0.86		0.94	1.03	1.16	1.36
4.5	0.71	0.73	0.76	0.80	0.84		0.91	0.99	1.11	1.27
5.0	0.70	0.72	0.75	0.78	0.82		0.88	0.95	1.05	1.20
5.5	0.68	0.70	0.73	0.76	0.79		0.85	0.92	1.01	1.13
6.0	0.67	0.69	0.71	0.74	0.77		0.82	0.89	0.97	1.07
6.5	0.65	0.67	0.70	0.72	0.75		0.80	0.86	0.93	1.02
7.0	0.64	0.66	0.68	0.70	0.73		0.78	0.83	0.89	0.97
7.5	0.63	0.65	0.67	0.69	0.72		0.76	0.80	0.86	0.93
8.0	0.62	0.63	0.65	0.67	0.70		0.74	0.78	0.83	0.89
8.5	0.60	0.62	0.64	0.66	0.68		0.72	0.76	0.80	0.86
9.0	0.59	0.61	0.63	0.64	0.67		0.70	0.74	0.78	0.83
9.5	0.58	0.60	0.61	0.63	0.65		0.68	0.72	0.76	0.80
10.0	0.57	0.59	0.60	0.62	0.64		0.67	0.70	0.74	0.78
11.0	0.55	0.57	0.58	0.60	0.61		0.64	0.67	0.70	0.73
12.0	0.54	0.55	0.56	0.58	0.59		0.61	0.64	0.66	0.70
13.0	0.52	0.53	0.54	0.56	0.57		0.59	0.61	0.64	0.66
14.0	0.51	0.52	0.53	0.54	0.55		0.57	0.59	0.61	0.63
15.0	0.49	0.50	0.51	0.52	0.53		0.55	0.57	0.59	0.61
16.0	0.48	0.49	0.50	0.51	0.52		0.53	0.55	0.57	0.59
17.0	0.47	0.48	0.49	0.49	0.50		0.52	0.53	0.55	0.57
18.0	0.46	0.47	0.47	0.48	0.49		0.50	0.52	0.53	0.55
19.0	0.45	0.46	0.46	0.47	0.48		0.49	0.50	0.52	0.53
20.0	0.44	0.45	0.45	0.46	0.47		0.48	0.49	0.50	0.51

NOTE: For T-sections see B.3.8.

**Bs 5950**

**Christian Drosten**



## **Bs 5950:**

**Structural Steel Design to BS 5950: Part 1** Frixos Joannides, Alan Weller, 2002 BS 5950 the design code for structural steel has been greatly revised Joannides and Weller introduce the new code and provide the necessary information for design engineers to implement the code when designing steel structures in the UK **Design of Structural Elements C.** Arya, 2002-11-28 The second edition of this popular textbook provides in a single volume an introduction to the design of structural elements in concrete steel timber and masonry Part One explains the principles and philosophy of design basic techniques and structural concepts Designing in accordance with British Standard codes of practice follows in Part Two with numerous diagrams and worked examples In Part Three the Eurocodes are introduced and their main differences to British codes are explained Comprehensively revised and updated to comply with the latest British Standards and Eurocodes the second edition also features a new section on the use and design of composite materials With an accompanying solutions manual available online Design of Structural Elements is the ideal course text for students of civil and structural engineering on degree HNC and HND courses *Limit States Design of Structural Steelwork, Third Edition* David Nethercot, 2003-09-02 This textbook is a comprehensive introduction to structural steelwork design based on the limit states approach to BS 5950 for use by undergraduates in civil and structural engineering It will also serve as a reference for practising engineers unfamiliar with new parts of BS 5950 The text introduces basic properties of steel types of steel structure and steelwork design in order to develop an understanding of the various aspects of the behaviour and design of structural steelwork This edition has been thoroughly revised in accordance with the 2000 amendment to Part 1 of BS 5950 all references have been updated and a new section on partial encasement for fire resistance has been added Each chapter features worked examples practice problems and references **Design of Structural Elements** Chanakya Arya, 2009-05-07 This third edition of a popular textbook is a concise single volume introduction to the design of structural elements in concrete steel timber masonry and composites It provides design principles and guidance in line with both British Standards and Eurocodes current as of late 2007 Topics discussed include the philosophy of design basic structural concepts and material properties After an introduction and overview of structural design the book is conveniently divided into sections based on British Standards and Eurocodes *Structural Engineer's Pocket Book, 2nd Edition* Fiona Cobb, 2009 Now in its second edition the Structural Engineer's Pocket Book is a comprehensive pocket reference guide for professional and student structural engineers particularly those taking the iStructE Part 3 Exam The combination of tables data facts formulae and rules of thumb make it a valuable aid in scheme design for structural engineers in the office in transit or on site Concise and precise this second edition is updated to reflect changes to the British Standards which are used and referenced throughout as well as the addition of a new section on sustainability Other subject areas include timber masonry steel concrete aluminium and glass Book Jacket *Limit States Design of Structural Steelwork, Third Edition* David Nethercot, 2001-01-25 This textbook is

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**Materials and Technologies in Construction and Architecture** Batyr Yazyev, Stepan V. Litvinov, Anton S. Chepurnenko, Anastasia Lapina, Oksana Akay, 2018-09-20 International Conference on Construction and Architecture Theory and Practice of Industry Development CATPID 2018 Selected peer reviewed papers from the International Scientific and Technical Conference Construction and Architecture Theory and Practice of Industry Development CATPID 2018 October 8 12 2018 Rostov on Don Russia

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1. Understanding the eBook Bs 5950
  - The Rise of Digital Reading Bs 5950
  - Advantages of eBooks Over Traditional Books
2. Identifying Bs 5950
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Bs 5950
  - User-Friendly Interface
4. Exploring eBook Recommendations from Bs 5950
  - Personalized Recommendations
  - Bs 5950 User Reviews and Ratings
  - Bs 5950 and Bestseller Lists
5. Accessing Bs 5950 Free and Paid eBooks
  - Bs 5950 Public Domain eBooks
  - Bs 5950 eBook Subscription Services
  - Bs 5950 Budget-Friendly Options
6. Navigating Bs 5950 eBook Formats

- ePub, PDF, MOBI, and More
- Bs 5950 Compatibility with Devices
- Bs 5950 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Bs 5950
  - Highlighting and Note-Taking Bs 5950
  - Interactive Elements Bs 5950
- 8. Staying Engaged with Bs 5950
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Bs 5950
- 9. Balancing eBooks and Physical Books Bs 5950
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Bs 5950
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Bs 5950
  - Setting Reading Goals Bs 5950
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Bs 5950
  - Fact-Checking eBook Content of Bs 5950
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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