

CIBSE Guide B Tables

Table 3.2 Recommended maximum duct velocities for low pressure ductwork systems where noise generation is the controlling factor^a

Typical applications	Typical noise rating (NR) ^a	Velocity / m.s ⁻¹		
		Main ducts	Branch	Runouts
Domestic buildings (bedrooms)	25	3.0	2.5	< 2.0
Theatres, concert halls	20-25	4.0	2.5	< 2.0
Auditoria, lecture halls, cinemas	25-30	4.0	3.5	< 2.0
Bedrooms (non-domestic buildings)	20-30	5.0	4.5	2.5
Private offices, libraries	30-35	6.0	5.5	3.0
General offices, restaurants, banks	35-40	7.5	6.0	3.5
Department stores, supermarkets, shops, cafeterias	40-45	9.0	7.0	4.5
Industrial buildings	45-55	10.0	8.0	5.0

^a See CIBSE Guide A⁽²⁰⁾, Table 1.1, and Table 1.17

Table 3.3 Recommended maximum duct velocities for medium and high pressure systems

Volume flow in duct / m ³ .s ⁻¹	Velocity / m.s ⁻¹	
	Medium pressure systems	High pressure systems
< 0.1	8	9
0.1-0.5	9	11
0.5-1.5	11	15
> 1.5	15	20

Table 3.5 Maximum velocity for supply and return air openings (grilles and terminals)⁽¹⁰⁾

Supply or return air	Permitted air velocity / m.s ⁻¹		
	Critical	Normal	Uncritical
Supply	1.5	2.5	3
Return	2	3	4

Table 3.4 Guide to maximum duct velocities in risers and ceilings⁽¹⁰⁾

Duct location	Duct type	Maximum air velocity / m.s ⁻¹ for stated room type		
		Critical	Normal	Non-critical
Riser or above plasterboard ceiling	Rectangular	5	7.5	10
	Circular	7	10	15
Above suspended ceiling	Rectangular	3	5	6
	Circular	5	7	10

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H.B. Awbi



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eWork and eBusiness in Architecture, Engineering and Construction Attila Dikbas, Raimar Scherer, 2004-08-15 Biannually since 1994 the European Conference on Product and Process Modelling in the Building and Construction Industry has provided a review of research given valuable future work outlooks and provided a communication platform for future co operative research and development at both European and global levels This volume of special interest t *Faber & Kell's Heating and Air-Conditioning of Buildings* Doug Oughton, Steve Hodkinson, Richard Brailsford, 2014-11-27 For over 70 years Faber Kell s has been the definitive reference text in its field It provides an understanding of the principles of heating and air conditioning of buildings in a concise manner illustrating practical information with simple easy to use diagrams now in full colour This new look 11th edition has been re organised for ease of use and includes fully updated chapters on sustainability and renewable energy sources as well as information on the new Building Regulations Parts F and L As well as extensive updates to regulations and codes it now includes an introduction that explains the role of the building services engineer in the construction process Its coverage of design calculations advice on using the latest technologies building management systems operation and maintenance makes this an essential reference for all building services professionals *Integrated Sustainable Design of Buildings* Paul Appleby, 2012-10-12 This book aims to provide a guide to members of design and masterplanning teams on how to deliver sustainable development and buildings cost effectively meeting current and emerging UK and international statutory and planning requirements The book sets out a clear and understandable strategy that deals with all aspects of sustainable design and construction and the implications for delivery costs saleability and long term operation The extensive scope includes all aspects of environmental social and economic sustainability including strategies to reduce carbon emissions and the impact of climate change **Materials for Energy Efficiency and Thermal Comfort in Buildings** Matthew R Hall, 2010-04-21 Almost half of the total energy produced in the developed world is inefficiently used to heat cool ventilate and control humidity in buildings to meet the increasingly high thermal comfort levels demanded by occupants The utilisation of advanced materials and passive technologies in buildings would substantially reduce the energy demand and improve the environmental impact and carbon footprint of building stock worldwide Materials for energy efficiency and thermal comfort in buildings critically reviews the advanced building materials applicable for improving the built environment Part one reviews both fundamental building physics and occupant comfort in buildings from heat and mass transport hygrothermal behaviour and ventilation on to thermal comfort and health and safety requirements Part two details the development of advanced materials and sustainable technologies for application in buildings beginning with a review of lifecycle assessment and environmental profiling of materials The section moves on to review thermal insulation materials materials for heat and moisture control and heat energy storage and passive cooling technologies Part two concludes with coverage of modern methods of construction roofing design and technology and benchmarking of fa ades

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The Environmental Design Pocketbook Sofie Pelsmakers, 2019-10-23 The Environmental Design Pocketbook 2nd ed places the information you need for sustainable low energy building design at your fingertips Packed with diagrams tools and tips it cuts through the complex mass of technical data and legislation that faces the designer and distils all the key guidance into a single reference that is quick easy to use and points to the facts figures and performance data that are most important This 2nd edition is now fully up to date with the latest Building Regulations Part L and F legislation England and Wales RIBA Plan of Work 2013 new information on the Green Deal and Zero Carbon and contains revised references and further reading sections throughout Whether used in the classroom office or on site the book guides the designer through the entire process from the fundamentals to the building details From future proofing for a changing climate to rainwater harvesting retrofit and zero carbon technologies the Pocketbook has got it covered **Plant Engineer's Handbook** R. Keith

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Reclaimed Components and Materials William Addis, 2006 First Published in 2006 Routledge is an imprint of Taylor Francis an informa company **Building with Reclaimed Components and Materials** Bill Addis, 2012-05-16 Interest in green and sustainable design is growing throughout the world Both national and local governments are active in promoting reuse and recycling in order to reduce the amount of waste going to landfill This guide identifies how building designers and constructors can minimize the generation of waste at the design stage of a building project by using reclaimed components and materials Authoritative accessible and much needed this book highlights the opportunities for using reclaimed components and materials and recycled content building products for each element of a building from structure and foundations to building services and external works Current experience is illustrated with international case studies and practical advice It discusses different approaches to designing with recycling in mind and identifies the key issues to address when specifying reclaimed components and recycled materials in construction work This book will be invaluable for building professionals including architects specifiers structural and service engineers quantity surveyors contractors and facilities managers as well as students of architecture and civil engineering Published with NEF

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 - The Rise of Digital Reading Cibse Guide B 2001 Section B
 - Advantages of eBooks Over Traditional Books
2. Identifying Cibse Guide B 2001 Section B
 - 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 Cibse Guide B 2001 Section B
 - User-Friendly Interface
4. Exploring eBook Recommendations from Cibse Guide B 2001 Section B
 - Personalized Recommendations
 - Cibse Guide B 2001 Section B User Reviews and Ratings
 - Cibse Guide B 2001 Section B and Bestseller Lists
5. Accessing Cibse Guide B 2001 Section B Free and Paid eBooks
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 - Cibse Guide B 2001 Section B eBook Subscription Services
 - Cibse Guide B 2001 Section B Budget-Friendly Options
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 - Cibse Guide B 2001 Section B Enhanced eBook Features
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 - Adjustable Fonts and Text Sizes of Cibse Guide B 2001 Section B
 - Highlighting and Note-Taking Cibse Guide B 2001 Section B
 - Interactive Elements Cibse Guide B 2001 Section B
 8. Staying Engaged with Cibse Guide B 2001 Section B
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Cibse Guide B 2001 Section B
 9. Balancing eBooks and Physical Books Cibse Guide B 2001 Section B
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Cibse Guide B 2001 Section B
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Cibse Guide B 2001 Section B
 - Setting Reading Goals Cibse Guide B 2001 Section B
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Cibse Guide B 2001 Section B
 - Fact-Checking eBook Content of Cibse Guide B 2001 Section B
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
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