

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

Cibse Guide B Section

Keith J. Moss



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Understanding the Building Regulations Simon Polley, 2014-09-15 Do you need a concise jargon free and compact guide to the UK building regulations Simon Polley boils down the regulations to their basic features explaining the core principles behind them Easy to read and light enough to carry around with you this is the ideal introduction to a vital part of your remit as a building control officer architect or surveyor Updated with the extensive 2013 changes and illustrated with cartoons and diagrams

Building Energy Management Systems Geoff Levermore, 2013-07-04 Energy management systems are used to monitor building temperature inside and outside buildings and control the boilers and coolers Energy efficiency is a major cost issue for commerce and industry and of growing importance on university syllabuses Fully revised and updated this text considers new developments in the control of low energy and HVAC systems and contains two new chapters Written for practising engineers essential for control engineers and energy managers in addition to being essential reading for under postgraduate courses in building services and environmental engineering

CIBSE Guide B: 2016, 2016 Combined index to CIBSE Guides 2016 B1 Heating including hot water systems and an appendix on hydronic systems which is also applicable to chilled water systems B2 Ventilation and ductwork B3 Air conditioning and refrigeration B4 Noise and vibration control for building services systems applicable to all systems Each chapter has an individual index but to facilitate cross referencing this combined index allows for navigation of topics across the complete Guide Page references are indicated by a prefix defining the chapter and a suffix referring to the page number For instance 1 22 represents chapter 1 page 22

Heating and Water Services Design in Buildings Keith J. Moss, 1996 Avoiding the need for a detailed knowledge of mathematical theory this book involves the reader in working through examples and case studies to come to a thorough understanding of the design of heating and water services in buildings

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

The Building Regulations 2000 Stationery Office, 2010-05-26 Guidance on Part J has been revised to ensure that combustion appliances can continue to function safely in more airtight homes A new requirement has been introduced for the provision of Carbon Monoxide alarms when installing all solid fuel appliances The changes also remove technical

disincentives to the wider use of Biomass heating systems This Approved Document J 2010 comes into effect on 1 October 2010 The Approved Documents provide technical guidance on ways of complying with the Building Regulations they are continuously revised in line with new legislation

Faber & Kell's Heating and Air-conditioning of Buildings D. R. Oughton, S. Hodkinson, 2008 For 70 years Faber Kell's has been the definitive reference text in its field The book provides understanding of the principles of heating and air conditioning of buildings in a concise manner Practical applicable information is illustrated with simple easy to use diagrams This 10th edition includes chapters on sustainability renewable energy sources as well as information on the updated Approved Documents Part F and L whilst still retaining the structure and character of the previous editions Building services professionals will find this a reliable everyday source of information The book is also an ideal purchase for newly qualified building services students beginning their career THE book for building services engineers for everyday reference on heating and air conditioning design Includes updates to take into account revised Part F and L sustainability and renewable energy sources Recommended purchase for newly qualified students in the building services sector

How Buildings Work Huw Evans, 2019-07-25 An understanding of building physics is fundamental for the design and construction of safe functional energy efficient buildings Without it occupants health and comfort is compromised energy bills become unmanageable or the building fabric itself can fail But it's not just about providing a heating source or stopping the cold coming in at the heart of building physics is a fine balancing act how much ventilation will be required for the occupants and how can that be provided without compromising the thermal performance How will the layout and fenestration affect light levels and cooling demand How Buildings Work provides construction professionals with a clear understanding of the basic mechanisms of physics and how they affect the performance and operation of buildings Heat air moisture sound light and radioactivity are explained in turn yet all the while reminding the reader that none of these phenomena can be considered in isolation when designing a building Whether you're a student trying to get your head round the basics or a seasoned practitioner looking for a quick refresher course

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 reorganised 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

The Scottish Building Regulations George Bett, Frith Hoehnke, James Robison, 2008-04-15 The book provides

a practical guide with worked examples to the Scottish Building Regulations The new edition takes account of substantial revisions to the Regulations on fire and means of escape structural stability conservation of fuel and power and drainage

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The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts.

The Secret History is a exceptional and thrilling novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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