

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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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

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Metric Handbook Pamela Buxton,2021-11-25 The Metric Handbook is the major handbook of planning and design data for architects and architecture students with over 100 000 copies sold to successive generations of architects and designers It remains the ideal starting point for any project and belongs in every design office The seventh edition references the latest regulations and construction standards and includes new chapters on data centres and logistics facilities alongside basic design data for all the major building types For each building type the book gives the basic design requirements and all the principal dimensional data and succinct guidance on how to use the information and what regulations the designer needs to be aware of As well as buildings the Metric Handbook deals with broader aspects of design such as materials acoustics and lighting and general design data on human dimensions and space requirements The Metric Handbook is the unique reference for solving everyday planning problems

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 **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 *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

Heating Systems, Plant and Control Antony R. Day,Martin S. Ratcliffe,Keith Shepherd,2008-04-15 In many climates buildings are unable to provide comfort conditions for year round occupancy without the benefit of a heating system and most HVAC engineers will routinely be involved with issues concerning the design installation and performance of such systems Furthermore in temperate climates heating of buildings accounts for a large slice of annual carbon emissions The design of heating systems for maximum efficiency and minimum carbon emission is therefore now a matter of prime concern to all HVAC engineers The book provides an up to date review of the design engineering and control of modern heating systems Part A deals with heat generating plant While this concentrates on conventional and condensing boilers small scale combined heat and power systems and heat pumps are also discussed Part B deals with heat emitters pipe circuits and variable speed pumping hot water service optimum plant size and the vital issues of plant and system control including sequence control of multiple boilers Techniques for managing the energy use and running costs of heating systems are also discussed The authors have brought together over a half century of combined experience covering all aspects of the building services Industry to provide an up to date and comprehensive text that is both technically rigorous yet highly practical This makes the book equally relevant to the busy HVAC engineer looking for a handy practical reference the student looking to build on their basic knowledge or the researcher interested in key issues of heating system design and performance

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

Building Services Design for Energy Efficient Buildings Paul Tymkow, Savvas Tassou, Maria Kolokotroni, Hussam Jouhara, 2020-07-12 The role and influence of building services engineers are undergoing rapid change and are pivotal to achieving low carbon buildings However textbooks in the field have tended to remain fairly traditional with a detailed focus on the technicalities of heating ventilation and air conditioning HVAC systems often with little wider context This book addresses that need by embracing a contemporary understanding of the urgent challenge to address climate change together with practical approaches to energy efficiency and carbon mitigation for mechanical and electrical systems in a concise manner The essential conceptual design issues for planning the principal building services systems that influence energy efficiency are examined in detail These are HVAC and electrical systems In addition the following issues are addressed background issues on climate change whole life performance and design collaboration generic strategies for energy efficient low carbon design health and wellbeing and post occupancy evaluation building ventilation air conditioning and HVAC system selection thermal energy generation and distribution systems low energy approaches for thermal control electrical systems data collection controls and monitoring building thermal load assessment building electric power load assessment space planning and design integration with other disciplines In order to deliver buildings that help mitigate climate change impacts a new perspective is required for building services engineers from the initial conceptual design and throughout the design collaboration with other disciplines This book provides a contemporary introduction and guide to this new approach for students and practitioners alike

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