

CIBSE Guide B Tables

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

Typical applications	Typical noise rating (NR) [*]	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

^{*} 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)⁽¹⁾

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⁽¹⁾

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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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 Combined Index Chartered Institution of Building Services Engineers, 2016 **Heating, Ventilating, Air Conditioning and Refrigeration**, 2005 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 **Heating, Ventilating, Air Conditioning and Refrigeration** Ken Butcher, 2005-01-01 *European Building Construction Illustrated* Francis D. K. Ching, Mark Mulville, 2014-02-10 The first European edition of Francis DK Ching s classic visual guide to the basics of building construction For nearly four decades the US publication Building Construction Illustrated has offered an outstanding introduction to the principles of building construction This new European edition focuses on the construction methods most commonly used in Europe referring largely to UK Building Regulations overlaid with British and European while applying Francis DK Ching s clear graphic signature style It provides a coherent and essential primer presenting all of the basic concepts underlying building construction and equipping readers with useful guidelines for approaching any new materials or techniques they may encounter European Building Construction Illustrated provides a comprehensive and lucid presentation of everything from foundations and floor systems to finish work Laying out the material and structural choices available it provides a full understanding of how these choices affect a building s form and dimensions Complete with more than 1000 illustrations the book moves through each of the key stages of the design process from site selection to building components mechanical systems and finishes Illustrated throughout with clear and accurate drawings that effectively communicate construction processes and materials Provides an overview of the mainstream construction methods used in Europe Based around the UK regulatory framework the book refers to European level regulations where appropriate References leading environmental assessment methods of BREEAM and LEED while outlining the Passive House Standard Includes emerging construction methods driven by the sustainability agenda such as structural insulated panels and insulating concrete formwork Features a chapter dedicated to construction in the Middle East focusing on the Gulf States *Heating Services in Buildings* David E. Watkins, 2011-09-26 Water based heating systems are efficient flexible versatile

and offer many advantages over other heating systems. These advantages: fast response, good controllability, efficient zonal heating and largely silent operation, all require that initial design, installation, commissioning and maintenance be carried out to a high standard by competent engineers. Heating Services in Buildings provides the reader with a detailed and thorough understanding of the principles and elements of heating buildings using modern water based heating systems. A key theme of the book is that there is little difference in the approach to the design and engineering between domestic and commercial installations. The author's detailed but highly practical approach to the subject ensures there is sufficient information for students from both a craft background and those with more academic backgrounds to understand the material. This approach is complemented by straightforward, easy to use diagrams. Heating Services in Buildings supports a range of educational courses including degree level building services engineering, NVQ Level 4 Higher Professional Diploma in Building Services Engineering, City Guilds supplementary heating course and the Heating Design and Installation Course accredited by the European Registration Scheme (ERS).

Air Conditioning David Chadderton, 2014-05-09. David Chadderton's *Air Conditioning* is the complete introduction and reference guide for students and practitioners of air conditioning design, installation and maintenance. The scientific principles involved are introduced with the help of case studies and exercises and downloadable spreadsheets help you work through important calculations. New chapters on peak summertime air temperature in buildings without cooling systems, air duct acoustic calculations and air conditioning system cost enhance the usefulness to design engineers. Case studies are created from real life data including PROBE post occupancy reports relating all of the theoretical explanations to current practice. Trends and recent applications in lowering energy use by air conditioning are also addressed, keeping the reader informed of the latest sustainable air conditioning technologies. Over 75 multiple choice questions will help the reader check on their progress. Covering both tropical and temperate climates, this is the ideal book for those learning about the basic principles of air conditioning, seeking to understand the latest technological developments or maintaining a successful HVAC practice anywhere in the world.

Building Services Journal, 2007. *Installation and Equipment Data*, 1986.

Air Conditioning Systems Roger Colby Legg, 1991. The efficient use of energy resources both for economic and environmental reasons will remain a top priority for the foreseeable future. Roger Legg's comprehensive treatment of air conditioning systems is devoted to ensuring that when installed they not only meet their design criteria but maximize energy efficiency.

The Architecture of Building Services Gordon Nelson, 1995. Provides architects with information on integrating the physical aspects of designing a building with their aesthetic concepts.

Designing for Pupils with Special Educational Needs Great Britain. Department for Education, 1992. The legal requirement that special needs students have access to a balanced and broadly based curriculum carries implications for accommodation in special schools. This document offers advice and guidance on the provision of accommodation which takes account of the special educational needs of the pupils and also explains those factors relating to premises which are taken into consideration by the

Secretary of State when approving the arrangements It is intended for those involved in preparation of the briefs and designs for new buildings and for reorganizing adapting and extending existing special and ordinary school buildings for pupils with special educational needs Chapters examine general as well as special requirements for schools catering to particular special needs groups as well as other accommodations such as medical facilities technicians rooms staff accommodation and parents facilities Also examined are general considerations involving school location environmental services communication and electrical systems and safety Finally area requirements are detailed for teaching spaces and teaching area tables based on those observed to meet curricular and other requirements in practice A glossary is provided Contains 20 references GR

Energy Efficient Building Susan Roaf, Mary Hancock, 1992-10-06 The need to design energy efficient buildings arises from a variety of external pressures legislation emissions of greenhouse and ozone depleting gases public awareness of our pollution of this planet among others Experts in their respective fields contribute articles ranging in scope from issues of basic competence to advanced design enabling designers to obtain insight into the entire gamut of the subject and at the same time provide sufficient back up references for individuals to follow up areas of special interest The Parliamentary Debates (Hansard). Great Britain. Parliament. House of Lords, 1999 *Information Sources in Architecture and Construction* Valerie J. Nurcombe, 1996 The new edition first 1983 comprises 24 chapters each written by an expert in the field who describes sources and in addition provides instructions in methodology and hints on keeping up with advances in information Coverage includes architectural history conservation contracts and liability **SASH Design Guide 2** Sports Council (Great Britain), 1986 The British National Bibliography Arthur James Wells, 2007 **Effective Ventilation: and 2**, 1989 *Renewable Energy Sources for Buildings* Andrew Thorne, 2006

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