CIBSE Guide B Tables

Return

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

Typical applications	Typical noise	Velocity / m·s ⁻¹			
	rating (NR)*	Main ducts	Bramch	Rumourts	
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⁽¹⁰⁾, 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	1.1		
0.5-1.5	1.1	1.5		
> 1.5	11:5	20		

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

Supply or Permitted air velocity / m·s⁻¹

Critical Normal Uncritical Supply 1.5 2.5 3

34

22

Table 35 d	Climbelies no	s, emany fermiorini,	chancet:	nordicantinues a	time.	rissers and ceilling	ments (RE)
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Duct location	Duct type	Maximum air velocity / m·s· ¹ for stated room type			
		Critical	Normal	Non-critical	
Riser or above plasterboard ceiling	Rectangular Circular	5 7	7.5 10	10 15	
Above suspended ceiling	Rectangular Circular	3 5	5 7	6	

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Christina Hopfe, Robert McLeod

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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 Air Conditioning System Design Roger Legg, 2017-06-15 Air Conditioning System Design summarizes essential theory and then explains how the latest air conditioning technology operates Load calculations energy efficiency and selection of technology are all explained in the context of air conditioning as a system helping the reader fully consider the implications of design decisions. Whether users need to figure out how to apply their mechanical engineering degree to an air conditioning design task or simply want to find out more about air conditioning technology for a research project this book provides a perfect guide Approaches air conditioning as a system not just a collection of machines Covers the essential theory on fluid flow and the latest in A C technology in a very readable and easy to use style Explains the significance of factors such as climate and thermal comfort as A C design considerations Addresses design using a range of air conditioning technologies such as evaporative cooling VRF systems psychromatic software and dessicant dehumidification 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 BUiD Doctoral Research Conference 2023 Khalid Al Marri, Farzana Asad Mir, Solomon Arulraj David, Mostafa Al-Emran, 2024-03-28 This open access book presents selected contributions on a wide range of scientific and technological areas originating from the BUiD Doctoral Research Conference BDRC 2023 It discusses the following topics project management macroeconomic factors Fourth Industrial Revolution agility multiculturalism diversity inclusion leadership language discourse analysis curriculum critical thinking programming online learning and natural ventilation The contributions reflect the multifaceted nature of the research in three academic disciplines i e humanities formal science and applied science This publication shares with its readers genuine research studies and reflections from practitioners on the current practice and understanding in the three academic disciplines The significant findings of these studies have considerable educational industrial and economic implications This is an open access book **Precedented Environmental Futures** Colin Porteous, 2019-04-17 This book addresses the built environment through the lens of environmental architecture and in a holistic manner It moves gradually from psychophysiology and thinking doing feeling modalities through environmental criteria to environmental modulation concluding with a debate around mitigation and adaptation Much use is made of re interpreting past quotations seen as relevant for environmental architecture No definitive conclusions are reached but rather broad discursive messages are offered The text will have lasting luminance for new generations involved with the built environment The Passivhaus Designer's Manual Christina Hopfe, Robert McLeod, 2015-10-05 Passivhaus is the fastest growing energy performance standard in the world with almost 50 000 buildings realised to date Applicable to both domestic and non domestic building types the strength of Passivhaus lies in the simplicity of the concept As European and global energy directives move ever closer towards Zero fossil Energy standards Passivhaus provides a robust fabric first approach from which to make the next step The Passivhaus Designers Manual is the most comprehensive technical guide available to those wishing to design and build Passivhaus and Zero Energy Buildings As a technical reference for architects engineers and construction professionals The Passivhaus Designers Manual provides State of the art guidance for anyone designing or working on a Passivhaus project In depth information on building services including high performance ventilation systems and ultra low energy heating and cooling systems Holistic design guidance encompassing daylight design ecological materials thermal comfort indoor air quality and economics Practical advice on procurement methods project management and quality assurance Renewable energy systems suitable for Passivhaus and Zero Energy Buildings Practical case studies from the UK USA and Germany amongst others Detailed worked examples to show you how it s done and what to look out for Expert advice from 20 world

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