

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⁾

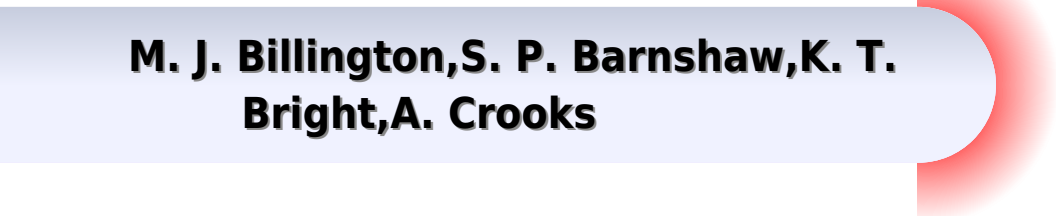
Supply or return air	Permitted air velocity / m.s ⁻¹		
	Critical	Normal	Uncritical
Supply	1.5	2.5	3
Return	2	3	4

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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Environmental Design Randall Thomas, 2006 Written and edited by a team of specialists at Max Fordham LLP one of the UK's leading environmental and building services engineering consultancies Environmental Design is the result of their extensive experience in designing environmentally friendly buildings The principles of their approach which they have taught in numerous schools of architecture and engineering are clearly presented here The book starts with some basic scientific principles and environmental issues and then moves on to site planning energy use materials and building form Natural ventilation systems high efficiency mechanical equipment and alternative energy sources are also covered State of the art buildings of exceptional quality are incorporated throughout the text and illustrate the authors belief that environmentally responsible architecture can be visually exciting They conclude with a selection of detailed case studies of award winning projects including new for this third edition Beaufort Court King's Langley and the National Trust Headquarters Swindon This book is essential reading for architects engineers planners and students of these disciplines *Newnes Building Services Pocket Book* Andrew Prentice, John Knight, W.P. Jones, 2012-05-31 Newnes Building Services Pocket Book is a unique compendium of essential data techniques and procedures best practice and underpinning knowledge This makes it an essential tool for engineers involved in the design and day to day running of mechanical services in buildings and a valuable reference for managers students and engineers in related fields This pocket reference gives the reader access to the knowledge and knowhow of the team of professional engineers who wrote the sixteen chapters that cover all aspects of mechanical building services Topic coverage includes heating systems ventilation air conditioning refrigeration fans ductwork pipework and plumbing drainage and fire protection The result is a comprehensive guide covering the selection of HVAC systems and the design process from initial drafts through to implementation The second edition builds on the success of this popular guide with references to UK and EU legislation fully updated throughout and coverage fully in line with the latest CIBSE guides *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

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