

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)⁽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⁽¹¹⁾

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 A3

Simos Yannas



Cibse Guide A3:

CIBSE Guide, 1989 **Air Conditioning Application and Design** W.P. Jones, 2012-11-12 Intended for advanced students of building services this practical book describes the design of air conditioning systems Readers are assumed to have a knowledge of the basic principles of air conditioning which are covered in the companion volume **Air Conditioning Engineering** This new edition takes account of the latest building codes and pays greater attention to energy conservation The section on systems characteristics is expanded and extensively revised to take account of developments in the technology of air conditioning since publication of the previous edition There are expanded sections on specialist applications such as systems for clean rooms in the semiconductor industry The author has wide experience both in lecturing on the subject and in the practical design and installation of air conditioning systems

Energy: Management, Supply and Conservation Clive Beggs, 2012-06-25 With more and more concern being expressed over the Earth's dwindling energy resources as well as rising pollution levels the subject of energy management and conservation is becoming increasingly important Over half of all energy consumed is used in buildings so effective management of buildings whether commercial or domestic is vital This book is a comprehensive text dealing with the theory and practice of the supply of energy to consumers energy management and auditing and energy saving technology It will be a core text on courses on energy management and building services as well as updating professionals in the building sector

Air Conditioning Engineering W Peter Jones, 2007-08-31 Designed for students and professional engineers the fifth edition of this classic text deals with fundamental science and design principles of air conditioning engineering systems W P Jones is an acknowledged expert in the field and he uses his experience as a lecturer to present the material in a logical and accessible manner always introducing new techniques with the use of worked examples

Combustion Engineering and Gas Utilisation British Gas, 2014-05-01 Combustion Engineering Gas Utilisation is a practical guide to sound engineering practice for engineers from industry and commerce responsible for the selection installation designing and maintenance of efficient and safe gas fired heating equipment

Air Conditioning Engineering William Peter Jones, 1994 This text covers the fundamental science and design principles of air conditioning engineering for the student and professional alike This new edition has been updated to provide greater coverage of developments in safety hygiene and reduced energy consumption An ELBS LPBB edition is available

Low-E Glazing Design Guide Timothy Edward Johnson, 1991 This book outlines all the factors to be taken into consideration when using low e glazings including energy thermal and visual comfort issues Product comparisons and listings by new performance indices make it easier for the practitioner to choose the correct glazing This book offers both the designer and specifier a comprehensive reference on this new technology

Building in Steel 1991, 1991 Window Design Chartered Institution of Building Services Engineers, 1987 This document is a revision and expansion of Technical Report No Daytime Lighting in Buildings The original document was published in 1962 by the Illuminating Engineering Society A revision was

published in 1972. Since then attitudes towards the lighting of buildings have changed. Some of the reasons for this are the considerable increase in the cost of energy and the recognition of the need to use it efficiently in the commercial sector particularly the use of computers has resulted in different approaches to the use of space within buildings. The earlier document concerned itself mainly with design for daylight. This new document while sharing this concern brings together in greater detail than before the other design factors which are influenced by daylight design decisions. It is all too easy to design windows to provide daylight and at the same time create problems of unwanted noise intrusion glare summertime overheating and energy waste. This guide provides designers with a means of identifying the important factors and a method of solving some of the design problems which will inevitably arise. The reader's attention is drawn to the fact that in applying data and ideas from the different sections of the guide there will inevitably be a need to retain a balance between often conflicting requirements. This document is intended to supplement the current range of CIBSE documentation and there is ample cross referencing. The guide is divided into Part A Design sequence and Part B Design information. The reference numbers throughout Part A and the supplementary numbers within the sectional reference lists in Part B refer to the Classified Bibliography on page 64. Part A guides the designer through the various stages of design and indicates the interaction between daylighting considerations and others. It is cross referenced to Part B which provides more detailed guidance on prediction methods and basic data along with references to the relevant CIBSE publications. The design information section is longer than the design sequence which it supports. This is inevitable when alternative evaluation and prediction methods are provided. It is not envisaged that a designer would ever work step by step through the whole design sequence. For this reason Part A is set out in a three column format to enable the reader more easily to locate the particular material which interests him from the left hand column to read the relevant text in the centre column and to pick up the references from the right hand column. Many aspects of window design may legitimately be based on experience or intuition rather than on formal analysis for example the use of splayed reveals the position of glazing bars and the use of the colour. The role of the design sequence is to prompt the designer when he reaches an impasse and to offer a rational basis for decision making whenever necessary. This publication refers to the design of conventional windows in the United Kingdom though it may also apply to other localities with a similar climate. Some of the procedures presented are relatively new for example the concept of average daylight factor. Although values of average daylight factor have been recommended it should be noted that experience of what the precise values imply in terms of daylight quality and quantity is limited and the recommendations may be changed in the light of experience. On a similar note some of the techniques presented for designing conventional windows may not be totally reliable when applied to atrium design. Therefore caution is urged when applying the content of the guide to anything other than conventional fenestration. In this content window covers vertical glazing in walls and glazing in sloping environments such as roofs. Some aspects of window design are beyond the scope of

this guide such as constructional methods or problems of strength or weather tightness Guidance on these aspects can be obtained from the window manufacturers **BRE Digest** ,2003 *Solar Energy and Housing Design: Principles, objectives, guidelines* Simos Yannas,1994 **Building Energy and Environmental Modelling** ,1998 **Building Services Journal** ,2007 Tool and Materials for Zero-net Energy California Buildings Murray Milne,Robin S. Liggett,Laurent Pilon,Gaurav Sant,University of California, Los Angeles,2018 **Guidelines for Environmental Design in Schools** Great Britain. Department for Education and Employment. Architects & Building Branch,1997 This guide provides advice on meeting the standards prescribed in The Education School Premises Regulations 1996 It replaces Design Note 17 The guidelines are aimed at the designers of new school buildings but may also be used for the improvement of existing buildings For the computer age International Council for Building Research, Studies and Documentation. Congress,1986 **Documents** Statens institut för byggnadsforskning (Sweden),1987 1989 2nd European Conference on Architecture T.C. Steemers,Wolfgang Palz,1990-04-30 Proceedings of an International Conference held at Paris France December 4 8 1989 Building Technology Ivor H. Seeley,1986 *The Architects' Journal* ,2002

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