ISO/TR 11219:2012-05 (E)

Information and documentation - Qualitative conditions and basic statistics for library buildings - Space, function and design

Contents

Page

Foreword vi

Introduction vii

1 Scope 1

2 Terms and definitions 1

3 Planning library buildings 13
3.1 First steps in planning 13
3.2 Factors affecting library space requirements 16
3.3 Special service areas 19
3.4 Joint facilities 27

4 Usable areas 28
4.1 General 28
4.2 Space for user places 29
4.3 Space for events and exhibitions 34
4.4 Space for lending 35
4.5 Space for reference and information 37
4.6 Space for other usage areas 38
4.7 Space for collections 40
4.8 Space for library staff 66
4.9 Other spaces for library management and technical services 69

5 Technical building issues 76
5.1 Storage conditions 76
5.2 Load assumption 81
5.3 Conveyor systems 85
5.4 Security and safety systems 88
5.5 Light and lighting 91
5.6 Acoustic conditions 98
5.7 Floor construction and covering 102
5.8 Wiring 110
5.9 Sign system 114

6 Outdoor space 116
6.1 General 116
6.2 Access 116
6.3 Open spaces 117

7 Barrier free construction 118
7.1 General 118
7.2 Measures for barrier free design 118
7.3 Sign system 119
7.4 Overview 119

8 Sustainable building 120
8.1 General 120
8.2 Energy efficiency 120
8.3 Conservation of natural resources 121

Annex A (informative) Reconstruction and reorganisation of old buildings 122

Annex B (informative) List of functional areas and rooms 125

Bibliography 129

Figures Figure 1 -- Access to shelving sections 51

Tables Table 1 -- Shelf depth recommended for types of media and types of shelving 42

Table 2 -- Shelf depth for special media furniture 42

Table 3 -- Recommended length of shelving ranges 43

Table 4 -- Shelf frame height and number of shelf boards on top of each other for books 44

Table 5 -- Number of shelf boards on top of each other for non-book media 45

Table 6 -- Shelf capacity for books (standing, spine-out) 46

Table 7 -- Shelf capacity for unbound periodicals and newspapers 47

Table 8 -- Required compartments for the yearly issues of one periodical or newspaper 47

Table 9 -- Shelf capacity for non-book media 48

Table 10 -- Shelf capacity of cabinets for non-book media 48

Table 11 -- Stack aisle width and axis centre distance for shelves of 0,25 m to 0,35 m depth in different functional areas 49

Table 12 -- Space needed for access to shelving sections 53

Table 13 -- Required space for books and bound periodicals with standard conditions 57

Table 14 -- Required space for one year of one unbound periodical title with standard conditions ... 57

Table 15 -- Required space for one newspaper title (issues of 1 month) with standard conditions ... 58

Table 16 -- Required space for printed music documents with standard conditions 58

Table 17 -- Required space for maps and plans (folded) with standard conditions 59

Table 18 -- Required space for maps and plans in cabinets for A0 maps with standard conditions .. 59

Table 19 -- Required space for files with standard conditions 60

Table 20 -- Required space for phonograph records with standard conditions 61

Table 21 -- Required space for CDs and CD-ROMs with standard conditions 62

Table 22 -- Required space for audio cassettes with standard conditions 63

Table 23 -- Required space for DVDs with standard conditions 64

Table 24 -- Required space for video cassettes with standard conditions 65

Table 25 -- Space requirements for staff 69

Table 26 -- Overview of live load (rounded) 85

Table 27 -- Fire extinguishing systems 91

Table 28 -- Recommended lighting levels for specified areas 92

Table 29 -- Advantages and disadvantages of the light sources most used in libraries 97

Table 30 -- Recommended acoustic comfort levels for functional areas 100

Table 31 -- Types of flooring 104