DIN EN ISO 28803:2012-06 (E)

Ergonomics of the physical environment - Application of international standards to people with special requirements (ISO 28803:2012)

Contents

Page

Foreword 3

Introduction 4

1 Scope 5

2 Normative references 5

3 Terms and definitions 5

4 General factors requiring consideration when designing or evaluating environments for people with special requirements 6

5 Considerations related to design and evaluation of the thermal environment 7
5.1 Factors requiring special consideration for design and evaluation 7
5.2 Moderate thermal environments and people with special requirements 8
5.3 Hot environments and people with special requirements 9
5.4 Cold environments and people with special requirements 10
5.5 Supporting standards for evaluation of thermal environments 10
5.6 Thermal disabilities 11

6 Considerations related to design and evaluation of the acoustic environment 13
6.1 General factors requiring consideration when designing and evaluating environments for people with special requirements 13
6.2 ISO 7731, Ergonomics -- Danger signals for public and work areas -- Auditory danger signals 15
6.3 ISO 11429, Ergonomics -- System of auditory and visual danger and information signals 16
6.4 ISO 9355-2, Ergonomic requirements for the design of displays and control actuators -- Part 2: Displays 16
6.5 ISO 9921, Ergonomics -- Assessment of speech communication 16
6.6 IEC 60268-16, Sound system equipment -- Part 16: Objective rating of speech intelligibility by speech transmission index 17

7 Assessment of visual and lighting environments 17
7.1 General 17
7.2 Contrast sensitivity 18
7.3 ISO 8995, Lighting of indoor work places 18
7.4 Lighting for older people 18

8 Considerations related to air quality 18

9 Considerations related to assessment of other environmental components 19
9.1 General 19
9.2 Vibration environments 19
9.3 Interaction of environmental components 20

10 Environmental design and adaptive opportunity 20

Bibliography 22