

Nederlandse norm

# **NEN-ISO 21542**

(en)

Bouwconstructies - Toegankelijkheid en  
bruikbaarheid van de gebouwde omgeving (ISO  
21542:2011, IDT)

Building construction - Accessibility and usability  
of the built environment (ISO 21542:2011, IDT)

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**Building construction — Accessibility  
and usability of the built environment**

*Construction immobilière — Accessibilité et facilité d'utilisation de  
l'environnement bâti*



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## Contents

Page

Foreword .....	viii
Introduction .....	ix
1 Scope .....	1
2 Normative references .....	1
3 Terms and definitions .....	2
4 General design considerations .....	9
4.1 General .....	9
4.2 Design requirements according to human abilities .....	9
4.3 Key accessibility issues .....	9
5 Approach to the building .....	12
5.1 Arrival by motor vehicle .....	12
5.2 Principal entrance .....	12
6 Designated accessible parking space .....	13
6.1 Location .....	13
6.2 Number of designated accessible parking spaces .....	13
6.3 Car parking .....	13
6.4 Van parking with auxiliary movable ramps .....	14
6.5 Signage .....	15
6.6 Surface .....	15
6.7 Kerb ramp from parking space to an adjacent higher pedestrian path .....	15
6.8 Indoor parking .....	16
6.9 Parking control .....	16
7 Paths to the building .....	16
7.1 General .....	16
7.2 Wayfinding, guided path and other physical support of information .....	17
7.3 Path .....	18
7.4 Width of the path .....	19
7.5 Passing space for wheelchair users .....	19
7.6 Turning space for wheelchair users on landings .....	20
7.7 Path construction .....	20
7.8 Stepped path and stair .....	20
7.9 Width of stepped path and stair .....	21
7.10 Landing of stepped path and stair .....	21
7.11 Landings of sloped paths .....	21
7.12 Support and guidance by a handrail on paths .....	21
7.13 Drainage of access routes .....	21
7.14 Solitary obstacles in a path .....	21
7.15 Guards against falling within a path .....	22
8 Ramps .....	22
8.1 General .....	22
8.2 Slope and length .....	24
8.3 Width of ramps .....	25
8.4 Landings of ramps .....	25
8.5 Support and guidance by handrail on ramps .....	25
8.6 Drainage of ramp .....	25
8.7 Surface materials .....	25
9 Guarding along paths and ramps .....	25

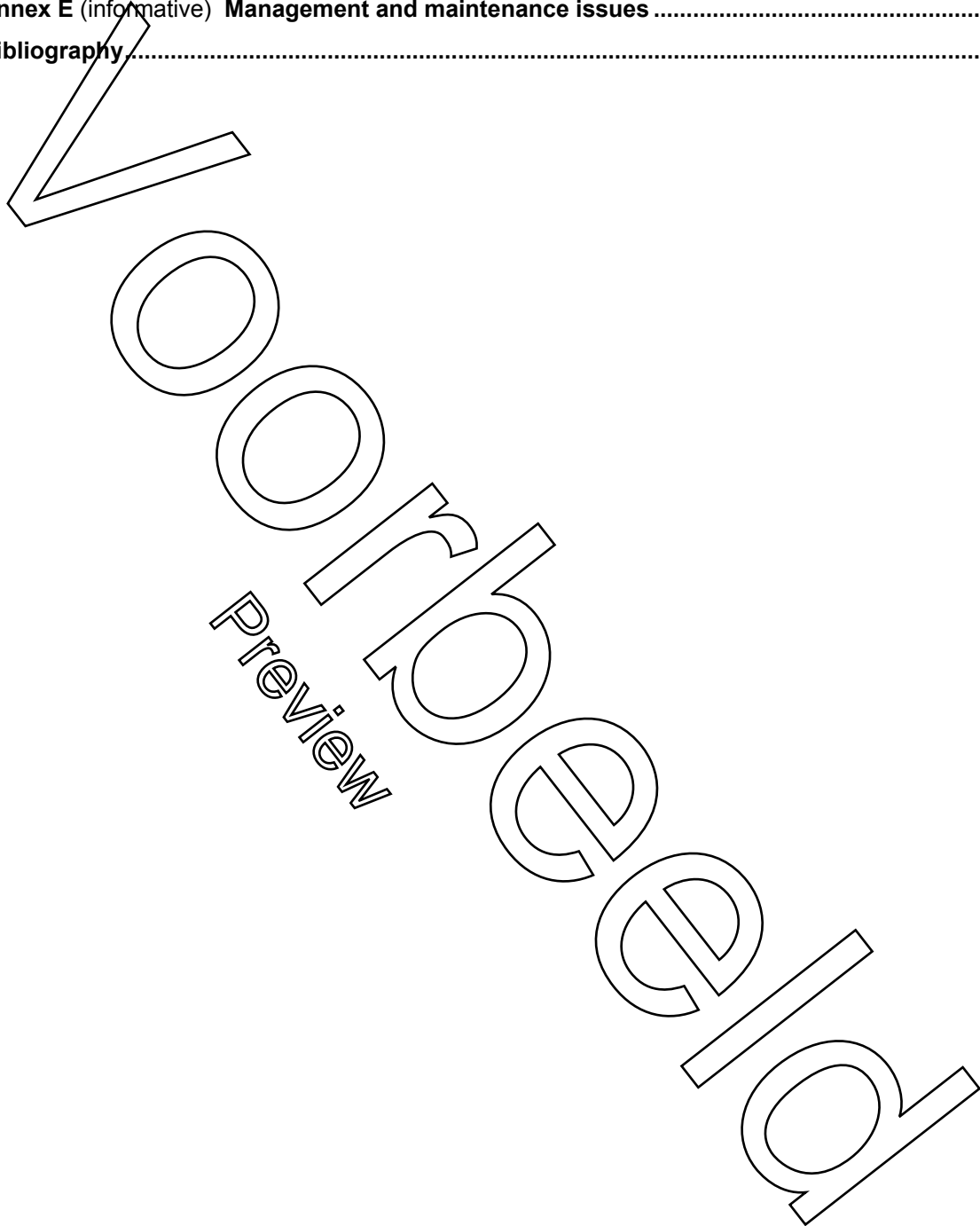
<b>10</b>	<b>Building entrances and final fire exits</b> .....	<b>26</b>
10.1	General.....	26
10.2	Identification.....	27
10.3	Floor level at the entrance .....	27
10.4	Principal entrance doorway.....	27
10.5	Doorway width .....	27
10.6	Clear height of a doorway.....	28
10.7	Circulation space.....	28
10.8	Lobbies.....	28
10.9	Visibility through an entrance door.....	29
<b>11</b>	<b>Horizontal circulation</b> .....	<b>29</b>
11.1	General.....	29
11.2	Internal passages.....	30
11.3	Turning space for 90° turn of a wheelchair in corridors.....	31
11.4	Circulation space for 180° wheelchair turn.....	31
<b>12</b>	<b>Vertical circulation</b> .....	<b>32</b>
12.1	General.....	32
12.2	Ramps in buildings.....	32
<b>13</b>	<b>Stairs</b> .....	<b>32</b>
13.1	Rise and going of steps.....	32
13.2	Minimum width of stair flights.....	33
13.3	Staircase landings.....	34
13.4	Head clearance.....	34
13.5	Visual and tactile warnings.....	35
13.6	Guards along stairs.....	35
<b>14</b>	<b>Handrails</b> .....	<b>36</b>
14.1	General.....	36
14.2	Provision of handrails.....	36
14.3	Profile of a handrail.....	37
14.4	Continuity of a handrail.....	37
14.5	Height of a handrail.....	37
14.6	Horizontal extension of a handrail.....	38
14.7	Visual and tactile information.....	38
14.8	Mechanical resistance.....	38
<b>15</b>	<b>Lifts (Elevators)</b> .....	<b>38</b>
15.1	General comments.....	38
15.2	Inner dimensions of cars.....	39
15.3	Lift car entrance — Door opening.....	40
15.4	Equipment in the car.....	41
15.5	Control devices and signals.....	43
15.6	Use of lifts (elevators) for fire evacuation.....	45
<b>16</b>	<b>Vertical and inclined lifting platforms</b> .....	<b>46</b>
16.1	General application.....	46
16.2	Platform dimensions.....	46
16.3	Vertical lifting platforms.....	46
<b>17</b>	<b>Escalators and moving walks</b> .....	<b>46</b>
<b>18</b>	<b>Doors and windows</b> .....	<b>47</b>
18.1	Doors and door furniture.....	47
18.2	Fire resisting doorsets.....	53
18.3	Windows and window hardware.....	54
<b>19</b>	<b>Reception areas, counters, desks and ticket offices</b> .....	<b>55</b>
19.1	Hearing and lip-reading.....	55
19.2	Location.....	55
19.3	Space to manoeuvre.....	55
19.4	Height.....	55

19.5	Lighting.....	56
19.6	Ticket systems.....	56
20	Cloakroom.....	56
21	Auditoriums, concert halls, sports arenas and similar seating .....	57
21.1	Hearing enhancement systems .....	57
21.2	Lighting for sign language interpretation.....	57
21.3	Designated seating areas for wheelchair users.....	57
21.4	Access to stage and backstage.....	57
21.5	Row and seat numbers.....	57
21.6	Accessible changing rooms.....	57
22	Conference rooms and meeting rooms .....	58
23	Viewing spaces in assembly areas.....	58
23.1	Floor area .....	58
23.2	Sight lines .....	59
24	Bars, pubs, restaurants, etc.....	59
25	Terraces, verandas and balconies.....	59
26	Toilet rooms and sanitary rooms.....	60
26.1	General.....	60
26.2	WC compartments for ambulant disabled people .....	60
26.3	Wheelchair user accessible toilet rooms.....	61
26.4	Dimensions for wheelchair user accessible toilet rooms.....	61
26.5	Toilet room doors.....	66
26.6	Toilet seat.....	66
26.7	Grab rails.....	67
26.8	Toilet paper.....	68
26.9	Washbasin.....	69
26.10	Water supply.....	70
26.11	Taps .....	71
26.12	Urinals.....	71
26.13	Other fittings .....	71
26.14	Alarm.....	71
26.15	Emergency warning alarm.....	72
26.16	Shower.....	72
26.17	Individual shower room .....	73
26.18	Bathrooms.....	74
27	Accessible bedrooms in non-domestic buildings.....	77
28	Kitchen areas .....	79
29	Storage areas.....	79
30	Facilities for guide dogs and other assistance dogs .....	79
30.1	General .....	79
30.2	Relief facilities for guide dogs and assistance dogs.....	79
31	Floor and wall surfaces.....	80
32	Acoustic environment.....	80
32.1	General .....	80
32.2	Acoustic requirements.....	80
32.3	Hearing enhancement systems .....	81
33	Lighting.....	82
33.1	General .....	82
33.2	External lighting .....	82
33.3	Natural lighting .....	82
33.4	Artificial lighting .....	82
33.5	Lighting to facilitate wayfinding .....	82
33.6	Controllable and adjustable lighting .....	83
33.7	Light levels in different areas.....	83

33.8	Lighting in auditoriums.....	83
33.9	Glare and shadows.....	83
34	Fire emergency warning systems, signals and information.....	84
34.1	General.....	84
34.2	Light warning signals.....	84
34.3	Acoustic warning systems.....	84
35	Visual contrast.....	84
35.1	General.....	84
35.2	Choice of colours and patterns.....	85
36	Equipment, controls and switches.....	86
36.1	General.....	86
36.2	Location, heights and distances.....	86
36.3	Location of controls from walls, corners and opening doors.....	88
36.4	Operation.....	89
36.5	Identification.....	90
36.6	Usability.....	90
36.7	Telephones.....	90
36.8	Card access, dispensing machines and automatic teller machines (ATMs), etc.....	91
36.9	Security access systems.....	93
36.10	Drinking fountains.....	93
36.11	Refuse bins.....	93
37	Furnishing.....	93
37.1	General.....	93
37.2	Seating in waiting areas.....	93
37.3	Seating at desks, tables, etc.....	94
38	Fire safety, protection and evacuation for all.....	95
38.1	Fire engineering design objectives.....	95
38.2	Principles of fire evacuation for all.....	95
38.3	Assisted fire evacuation.....	96
38.4	Evacuation chairs.....	97
38.5	Emerging fire evacuation technologies.....	97
38.6	Fire defence plans.....	97
39	Orientation and information.....	98
39.1	General.....	98
39.2	Principle of two senses.....	99
39.3	Audible information.....	99
39.4	Levels of information.....	99
40	Signage.....	99
40.1	General.....	99
40.2	Main types of signs.....	100
40.3	Placement of signs.....	100
40.4	Height and location of signs.....	101
40.5	Font and size of lettering.....	102
40.6	Differences in LRVs.....	102
40.7	Glare free.....	103
40.8	Illumination.....	103
40.9	Understandable.....	103
40.10	Provision of raised tactile and Braille signs.....	103
40.11	Tactile letters, figures, signs and graphical symbols.....	103
40.12	Braille.....	104
40.13	Tactile symbols.....	104
40.14	Tactile maps and floor plans.....	104
40.15	Information displays.....	105
41	Graphical symbols.....	105
42	Management and maintenance issues.....	109



**Annex A** (informative) **Tactile walking surface indicators (TWSIs)** ..... 110  
**Annex B** (informative) **Human abilities and associated design considerations**..... 118  
**Annex C** (informative) **Circulation spaces at doorways**..... 132  
**Annex D** (informative) **Fire safety and assisted evacuation for all in buildings**..... 144  
**Annex E** (informative) **Management and maintenance issues** ..... 146  
**Bibliography**..... 149


  
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 Preview

## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 21542 was prepared by Technical Committee ISO/TC 59, *Buildings and civil engineering works*, Subcommittee SC 16, *Accessibility and usability of the built environment*.

This first edition cancels and replaces ISO/TR 9527:1994.

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NEN-ISO 21542:2012

## Introduction

This International Standard provides building users, architects, designers, engineers, builders, building owners and managers, manufacturers, policy makers and legislators with requirements and recommendations to create a sustainable built environment which is accessible.

The purpose of this International Standard is to define how the built environment should be designed, constructed and managed to enable people to approach, enter, use, egress from and evacuate a building independently, in an equitable and dignified manner and to the greatest extent possible.

The intention of this International Standard is to meet the needs of the majority of people. This goal is achieved by agreement on minimum standards of provision which are generally accepted to accommodate the diversities of age and of human condition. This agreement has been reached by consensus between different countries all over the world.

In some countries a higher level of technical specifications has been achieved due to their long history in developing accessible building standards and regulations. The requirements of this International Standard are not intended to replace more demanding requirements defined in those national standards or national regulations.

These principles are supported by Preamble (g) and Articles 9, 10 and 11 of the United Nations Convention on the Rights of Persons with Disabilities.

NOTE 1 The Convention on the Rights of Persons with Disabilities, with its Optional Protocol, was adopted by the General Assembly of the United Nations on 13 December 2006. It came into force, i.e. became an international legal instrument, on 3 May 2008. Furthermore, information about the Convention and its text can be found on the United Nations website: <http://www.un.org/disabilities/>. The Convention is serviced by a joint secretariat, consisting of staff from both the United Nations Department of Economic and Social Affairs (DESA), based in New York, and the Office of the High Commissioner for Human Rights (OHCHR) in Geneva.

This International Standard sets out the objectives, design considerations, requirements and recommendations that ISO expects to result in accessible and usable buildings when fully implemented.

This International Standard should be applied to new and existing buildings.

If these design requirements are taken into consideration in the early stages of building design, the costs of providing accessibility and usability measures are minimal and raise the value of the property in terms of sustainability. Where alterations and refurbishment occur, the additional cost depends on the size and complexity of the particular building and its adaptations.

NOTE 2 For further information on costs of accessible buildings see ETH-Study from Switzerland: [http://www.hindernisfrei-bauen.ch/kosten\\_f.php](http://www.hindernisfrei-bauen.ch/kosten_f.php).

This International Standard contains a combination of essential requirements, i.e. provisions which are essential for accessibility and usability of the built environment, and recommendations for an improved environment. The essential requirements are preceded by the word "shall". For recommendations which are desirable, the provisions are preceded by the word "should".

This International Standard may be applied in accordance with the National Regulations of the Member Bodies who have adopted this International Standard and stated in their National Foreword the terms under which it is to be applied.

**ISO 21542:2011(E)**

This International Standard may be used by

- a) national authorities to determine a specific programme of implementation, and
- b) building owners to fulfil their responsibilities according to anti-discrimination and equity legislation, or on a voluntary basis.

As most buildings are subject to refurbishment, upgrade or change of use at some stage during their life cycle, national regulations can require all or part of this International Standard to be applied.

National building regulations may include considerations of legislation on equality, particular building and site constraints, different types of buildings, and the costs and benefits to society generally. It is also important to ensure that existing buildings of historical, architectural and cultural importance are accessible. In such cases it might be necessary for national authorities to allow some exceptions to this International Standard, as well as recommending appropriate alternative accessibility measures.

This International Standard should lead to continuous improvement in the built environment. Whilst the objectives always remain unchanged, the means of achieving them is part of a continuing process of change, i.e. as human knowledge and building technology improve and as the relationship between generally accepted building practice and technology alters.

ISO/IEC Guide 71 and its guidance document ISO/TR 22411 should be used to augment and assist in understanding the requirements of this International Standard.

Within the figures all dimensions are given in millimetres and measured from finished surfaces, unless otherwise stated. All figures are provided as examples.

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# Building construction — Accessibility and usability of the built environment

## 1 Scope

This International Standard specifies a range of requirements and recommendations for many of the elements of construction, assemblies, components and fittings which comprise the built environment. These requirements relate to the constructional aspects of access to buildings, to circulation within buildings, to egress from buildings in the normal course of events and evacuation in the event of an emergency. An informative annex is also included which deals with aspects of accessibility management in buildings.

This International Standard contains provisions with respect to features in the external environment directly concerned with access to a building or group of buildings from the edge of the relevant site boundary or between such groups of buildings within a common site. This International Standard does not deal with those elements of the external environment, such as public open spaces, whose function is self-contained and unrelated to the use of one specific building, nor does it deal with single family dwellings, other than those circulation spaces and fittings that are common to two or more such dwellings.

At present, consideration is being given to the development and publication of additional parts to this International Standard to deal with the types of external environments described above and single family dwellings.

For existing buildings there are options included in some paragraphs which appear as “*exceptional considerations for existing buildings in developing countries*” (see “Guidance on the Implications of the ISO Global Relevance Policy for ISO Standardization”, 2005) and as “*exceptional considerations for existing buildings*” where a lesser standard than expected in new developments is accepted on the grounds of technical and economic circumstances only.

The dimensions stated in this International Standard, relevant to the use of wheelchairs, are related to the footprint of commonly used wheelchair sizes and users. The footprint for a wheelchair within this International Standard is based on ISO 7176-5 and ISO/TR 13570-2<sup>1)</sup> and is 800 mm wide and 1 300 mm long. For larger wheelchairs and scooters, dimensions will have to be considered accordingly.

NOTE This International Standard is primarily written for adults with disabilities but it includes some specifications regarding the specific accessibility requirements that would suit children with disabilities. However, it is envisaged that more detailed requirements will be included in future revisions of this International Standard.

## 2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 4190-1:2010, *Lift (Elevator) installation — Part 1: Class I, II, III and VI lifts*

ISO 4190-5:2006, *Lift (Elevator) installation — Part 5: Control devices, signals and additional fittings*

1) Under preparation.

**ISO 21542:2011(E)**

ISO 7176-5, *Wheelchairs — Part 5: Determination of dimensions, mass and manoeuvring space*

ISO 9386-1, *Power-operated lifting platforms for persons with impaired mobility — Rules for safety, dimensions and functional operation — Part 1: Vertical lifting platforms*

ISO 9386-2, *Power-operated lifting platforms for persons with impaired mobility — Rules for safety, dimensions and functional operation — Part 2: Powered stairlifts for seated, standing and wheelchair users moving in an inclined plane*

ISO/TR 13570-2<sup>1)</sup>, *Wheelchairs — Part 2: Typical values and recommended limits or dimensions, mass and manoeuvring space as determined in ISO 7176-5*

ISO/IEC Guide 71, *Guidelines for standards developers to address the needs of older persons and persons with disabilities*

International Commission on Illumination, CIE, Publication 15:2004, 3<sup>rd</sup> Edition, *Colorimetry*

### 3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO/IEC Guide 71 and the following apply.

#### 3.1 ability faculty

identifiable human attribute, including but not exclusively, to walk, to speak, to hear, to see, to feel by touch, to taste, to understand, and recognize

#### 3.2 accessibility

⟨buildings or parts of buildings⟩ provision of buildings or parts of buildings for people, regardless of disability, age or gender, to be able to gain access to them, into them, to use them and exit from them

NOTE Accessibility includes ease of independent approach, entry, evacuation and/or use of a building and its services and facilities, by all of the building's potential users with an assurance of individual health, safety and welfare during the course of those activities.

#### 3.3 area of rescue assistance

building space directly adjoining, and visible from, a main vertical evacuation route, robustly and reliably protected from heat, smoke and flame during and after a fire, where people can temporarily wait with confidence for further information, instructions, and/or rescue assistance, without obstructing or interfering with the evacuation travel of other building users

NOTE "Robust" means structurally hardened and resistant to mechanical damage during the fire and for a period of time afterwards, i.e. the cooling phase.

#### 3.4 assisted evacuation

strategy that exists during which a designated person or persons provide assistance, during an emergency, to another person to leave a building or a specific part of the built environment and to reach a final place of safety

1) Under preparation.

**3.5****assistive product**

product especially produced or generally available, for preventing, compensating for, monitoring, relieving or neutralizing impairments, activity limitations and participation restrictions

EXAMPLE Devices, equipment, instruments, technology and software.

[ISO 9999:2007, definition 3.3]

**3.6****attention pattern**

tactile walking surface indicators (TWSIs) that call attention to particular decision points

**3.7****audio description**

verbal narration that conveys the visual aspects of a presentation or performance

**3.8****building related ill-health**

adverse impact on the health of building users while living, working, generally occupying or visiting a specific building caused by the planning, design, construction, management, operation or maintenance of that building

**3.9****buffer zone**

compartments and/or spaces immediately adjoining the fire compartment in a building

**3.10****built environment**

external and internal environments and any element, component or fitting that is commissioned, designed, constructed and managed for use by people

NOTE Loose items are excluded because decisions with respect to their location within the built environment are more likely to be under the day-to-day control of facilities managers and not of those who commission, design or construct the built environment.

**3.11****circulation space**

unobstructed space necessary for access to, into and within and egress from any part of the built environment

**3.12****colour deficiency**

inability to perceive certain colours and to clearly distinguish between combinations of these colours

**3.13****common**

serving more than one single-family dwelling or more than one building or more than one tenancy

**3.14****contraflow**

(fire) emergency access by fire fighters or rescue teams into a building and towards a fire, while people are still moving away from the fire and evacuating the building

**3.15****disorientation**

permanent or temporary inability of a person to orient himself or herself with regard to space, time and context in either the built environment or virtual environment

NOTE Acute disorientation brought on by the use of alcohol, "social" drugs and some medicines, or dramatic alterations in a person's circumstances, e.g. involvement in a fire incident, is not uncommon or abnormal. Long term progressive disorientation is a symptom of a variety of psychological and/or neurological disorders.

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