Norwegian Standard

NS 11001-1:2009

Published: 2010-11-01 Language: English

Universal design of building works

Part 1: **Buildings open to the public**

Universell utforming av byggverk Del 1: Arbeids- og publikumsbygninger



Reference Number: NS 11001-1:2009 (en)

© Standards Norway 2010



Universal design of building constructions Part 1: Work buildings and buildings open to the public

Contents

Fo	reword	d	3
Int	roduct	tion	4
1	Scor	oe	5
2	•	native references	
- 3		nitions	
	_		_
4		ntroduction to various forms of impairment	
	4.1 4.2	General Movement and mobility	
	4.2 4.3	Movement and mobilityVisual impairment	
	4.4	Hearing and acoustic conditions	
	4.5	Cognitive ability – understanding	
	4.6	Environment – hypersensitivity to air and materials	
5		ess routes to work buildings and buildings open to the public	
5	5.1	GeneralGeneral	
	5.2	Dimensioning an access route to a building	
	5.3	Surfaces/coverings	
	5.4	Grating and manhole covers	
	5.5	Outdoor ramps	
	5.6	Outdoor stairways	
	5.7	Handrails on outdoor stairways/ramps	
	5.8	Wayfinding systems	
	5.9	Lighting	
	5.10	Vegetation and plantings	19
6	Park	ring	
	6.1	General	
	6.2	Number of parking spaces	
	6.3	Accessibility of parking facilities	
	6.4	Signs and markings	
	6.5 6.6	Dimensions of parking spacesLighting of parking facilities	
	6.7	Parking meters	
_	_	· ·	
7		ance	
	7.1 7.2	General Space requirements for entrances	
	7.2 7.3	Space requirements for entrances Step grating	
	7.3 7.4	Level differences between floors	

NS 11001-1.E:2009

	7.5 7.6 7.7 7.8	Lighting Entrance door types Design and marking of doors Vestibule	24 24
8	Layor 8.1 8.2 8.3	utGeneral	25 25
9	Horiz 9.1 9.2 9.3 9.4 9.5 9.6	ontal communication in buildings General Public corridors and galleries Doors Floor surfaces Ramps within a single storey Moving walks (walkways)	34 35 36
10	10.1 10.2 10.3 10.4 10.5 10.6 10.7	Cal communication in buildings General Requirements for stairways Requirements for indoor ramps Handrails for stairs and ramps Lighting for stairs and ramps Escalators and moving walks Lifts Lifting platforms	37 38 39 39 39
11	11.1 11.2	indingGeneralInformationGuiding lines	45 45
12	12.1 12.2 12.3	nical installations and operating equipment	47 47 48
13	13.1 13.2 13.3 13.4 13.5	or climate and use of materials General Indoor climate The effect of materials on air quality Use of materials and contact Use of materials and acoustics Use of materials and wayfinding	49 50 51
Anr	nex A	(normative) Mobility impairment	52
Anr	nex B	(normative) Visual impairment	56
		(informative) Hearing impairment	
Anr	nex D	(informative) Cognitive impairment	67
Anr	nex E	(informative) The environment and hypersensitivity to air and materials	70
Bih	liograi	phy	74

Foreword

NS 11001-1:2009 was adopted in December 2009.

This standard is based *inter alia* on ISO/TR 9527:1994 *Building construction* – *Needs of disabled people in buildings* – *Design guidelines* and ISO/IEC Guide 71:2002 *Guidelines for standards developers to address the needs of older persons and persons with disabilities.*

The standard seeks to address the needs of persons with functional impairments. The general requirements for usability are given under Introduction, partially in qualitative format. There are five technical annexes at the back of the standard: on mobility impairment, vision impairment, hearing impairment, cognitive impairment and on the environment and hypersensitivity. Annexes A on mobility impairment and B on vision impairment have the status of normative annexes. The others are informative.

The committee which has developed the standard consists of representatives of:

Norwegian Homebuilder Association

Norwegian Federation of Organisations of Disabled People (FFO)

The Norwegian Housing Bank

National Association of Norwegian Architects

Delta Centre, Norwegian Directorate of Health (SHDir)

Disabled People's Cooperative Forum (SAFO)

Statsbygg, Public Construction and Property Management

National Office of Building Technology and Administration (BE)

Undervisningsbygg Oslo KF (Municipal Undertaking for Educational Buildings and Property in Oslo)

Norwegian University of Life Sciences (UMB)

SN © 2009