



Department of  
Building and Housing  
*Te Tari Kaupapa Whare*

# Building for the 21st Century

## Review of the Building Code

Appendix: Summary of proposed Building Code objectives





# Introduction

This document is an Appendix to *Building for the 21st Century – Review of the Building Code*, a discussion document released by the Department of Building and Housing (the Department) in May 2006.

For ease of use, it repeats the objectives of the Building Code proposed by the discussion document in one place.

## Background

The Building Act 2004 took effect from 30 November 2004. Provisions in the new Act are aimed at having New Zealand's buildings built right first time. It introduces provisions to review the whole process of building, looking at each of the different stages – design, consenting, construction and inspection.

The Act introduces licensing for builders and design practitioners, a voluntary certification scheme for building products, accreditation and registration for those undertaking consenting and inspections of buildings, consumer warranties for building work, and a review of the Building Code.

The Act requires the current Building Code to be reviewed to ensure performance standards for buildings are clear and meet new purposes and principles set out by the Act.

This is a comprehensive review – the first since 1991. It will take a fundamental look at how we build and what we build. The review will result in a set of recommendations for changes to the Code. The changes will take into account the Act's requirements about sustainable development, and for buildings to have attributes that promote safety, health and wellbeing.

The Building Code review is scheduled for completion by 30 November 2007. When the review is finished, the Building Code will have different performance requirements. The Department cannot yet say what they will be – one purpose of this review is to work that out. You are encouraged to read the discussion document for more information.

In undertaking this review and the wider changes introduced by the Building Act, the Department has a very clear objective: the people of New Zealand have access to quality homes and buildings that meet their needs and reflect our New Zealand environment.

## Life of this Appendix

This document has a limited life. An updated version is likely to be proposed in a second discussion document in mid-2007. The final structure of the Building Code will be determined post-30 November 2007 when the Department completes its recommendations to Government.

The current Building Code will remain in place until any recommendations have been acted on post-30 November 2007. In the meantime, the Department will continue to address technical aspects of the existing Building Code and Compliance Documents, and may propose amendments to them ahead of the changes following this full review.

## Obtain copies of *Building for the 21st Century – Review of the Building Code*

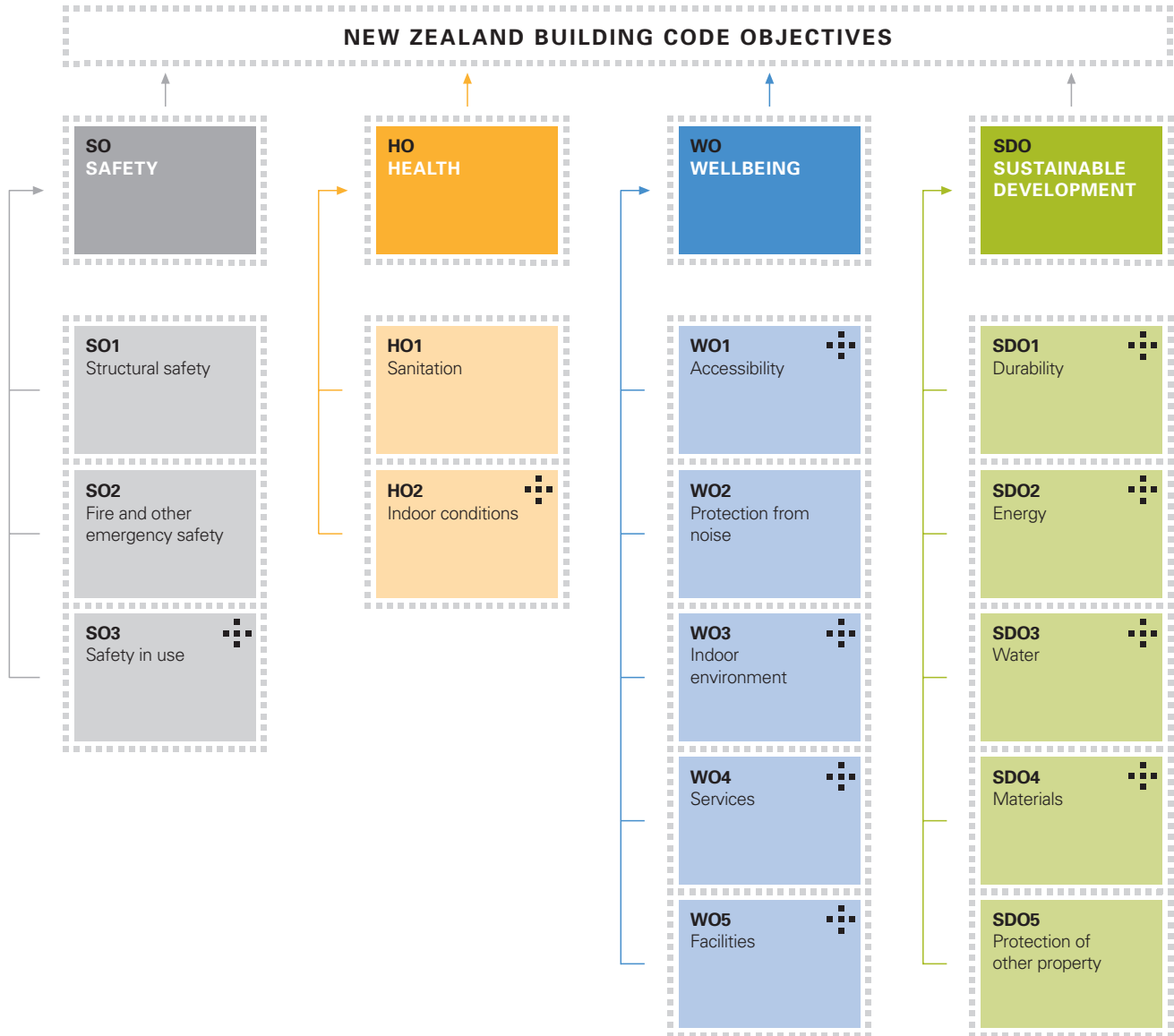
Copies of the discussion document, plus an online submission form, can be found on the Department's website [www.dbh.govt.nz](http://www.dbh.govt.nz)

Alternatively, call the Department on 0800 242 243 to request a hard copy.

Submissions on *Building for the 21st Century – Review of the Building Code* close on **31 August 2006**.



# Proposed Building Code objectives



significant new scope =

## NEW ZEALAND BUILDING CODE OBJECTIVES

**SO**  
SAFETY

AN OBJECTIVE OF THIS BUILDING CODE IS TO LIMIT THE PROBABILITY THAT, AS A RESULT OF THE DESIGN, CONSTRUCTION, USE OR DEMOLITION OF THE BUILDING, A PERSON IN OR ADJACENT TO THE BUILDING WILL BE EXPOSED TO AN UNACCEPTABLE RISK OF INJURY

**HO**  
HEALTH

AN OBJECTIVE OF THIS BUILDING CODE IS TO LIMIT THE PROBABILITY THAT, AS A RESULT OF THE DESIGN OR CONSTRUCTION OF THE BUILDING, A PERSON IN OR ADJACENT TO THE BUILDING WILL BE EXPOSED TO AN UNACCEPTABLE RISK OF ILLNESS

**WO**  
WELLBEING

AN OBJECTIVE OF THIS BUILDING CODE IS TO LIMIT THE PROBABILITY THAT, AS A RESULT OF THE DESIGN OR CONSTRUCTION OF THE BUILDING, A PERSON IN OR ADJACENT TO THE BUILDING WILL BE EXPOSED TO AN UNACCEPTABLE LOSS OF AMENITY

**SDO**  
SUSTAINABLE  
DEVELOPMENT

AN OBJECTIVE OF THIS BUILDING CODE IS TO LIMIT THE PROBABILITY THAT THE DESIGN, CONSTRUCTION OR USE OF THE BUILDING WILL NOT PROMOTE SUSTAINABLE DEVELOPMENT

## NEW ZEALAND BUILDING CODE OBJECTIVES SO SAFETY INDEX

### SO SAFETY

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### SO1 Structural safety

**SO1.1** Loss of structural integrity, stability or support

### SO2 Fire and other emergency safety

**SO2.1** Fire or explosion occurring

**SO2.2** Fire or explosion impacting areas beyond its point of origin

**SO2.3** Fire safety and other emergency systems failing to function as expected

**SO2.4** People being delayed in or impeded from moving to a safe place during a fire or other emergency

**SO2.5** Firefighters being delayed in or impeded from assisting in evacuation and performing firefighting operations

### SO3 Safety in use

**SO3.1** Slipping, tripping, falling, drowning or collisions

**SO3.2** Contact with hot or cold surfaces or substances

**SO3.3** Contact with energised equipment and building elements

**SO3.4** Exposure to hazardous substances

**SO3.5** Exposure to high levels of sound from alarm systems

**SO3.6** People being trapped in confined spaces

## NEW ZEALAND BUILDING CODE OBJECTIVES

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### SO1 Structural safety

An objective of this Building Code is to limit the probability that, as a result of the design or construction of the building, a person in or adjacent to the building will be exposed to an unacceptable risk of injury due to the performance of the structure.

The risks of injury due to structural failure addressed in this Code are those caused by:

### SO1.1

#### Loss of structural integrity, stability or support


The risk of injury due to loss of structural integrity, stability or support will be mitigated by design and construction meeting performance criteria for effects due to:

<b>SO1.1.1</b> Gravity		All buildings and building elements
<b>SO1.1.2</b> Live loads		All buildings and building elements
<b>SO1.1.3</b> Temperature		All buildings and building elements
<b>SO1.1.4</b> Earth pressure		All buildings
<b>SO1.1.5</b> Fluid pressure		All buildings and building elements
<b>SO1.1.6</b> Earthquake		All buildings and building elements [seismic zones]
<b>SO1.1.7</b> Snow		All buildings [alpine zones]
<b>SO1.1.8</b> Wind		All buildings [wind zones]
<b>SO1.1.9</b> Fire	■ ■ ■	All buildings and building elements
<b>SO1.1.10</b> Impact		All buildings and building elements
<b>SO1.1.11</b> Explosion		Buildings with potentially explosive uses
<b>SO1.1.12</b> Flooding		All buildings [flood hazard zones]
<b>SO1.1.13</b> Landslide	■ ■ ■	All buildings
<b>SO1.1.14</b> Tsunami	■ ■ ■	All buildings [tsunami hazard zones]
<b>SO1.1.15</b> Coastal erosion	■ ■ ■	All buildings [coastal erosion hazard zones]

■ ■ ■ = significant new scope

**S01.1****Loss of structural integrity, stability or support (continued)**

The risk of injury due to loss of structural integrity, stability or support will be mitigated by design and construction meeting performance criteria for loads due to:

<b>S01.1.16</b> Corrosion	All building elements
<b>S01.1.17</b> Solar Radiation	All exposed building elements
<b>S01.1.18</b> Moisture	All building elements
<b>S01.1.19</b> Biological deterioration	All building elements
<b>S01.1.20</b> Construction operations	All buildings and building elements
<b>S01.1.21</b> Demolition and deconstruction operations	All buildings and building elements
<b>S01.1.22</b> Volcanic eruption 	All buildings [volcanic hazard zones]
<b>S01.1.23</b> Induced vibration	All buildings and building elements

significant new scope = 

## NEW ZEALAND BUILDING CODE OBJECTIVES

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### SO2 Fire and other emergency safety

**An objective of this Building Code is to limit the probability that, as a result of the design or construction of the building, a person in or adjacent to the building will be exposed to an unacceptable risk of injury due to fire or other emergency.**

**The risks of injury due to fire or other emergency addressed in this Code are those caused by:**

### SO2.1

#### Fire or explosion occurring

The risk of injury due to fire or explosion occurring will be mitigated by design and construction meeting performance criteria for:

<b>SO2.1.1</b> Fixed appliances using controlled combustion	All buildings
<b>SO2.1.2</b> Materials of construction [ignitability]	Occupied buildings
<b>SO2.1.3</b> Piped services containing combustible material (eg, gases)	Occupied buildings

### SO2.2

#### Fire or explosion impacting areas beyond its point of origin

The risk of injury due to fire or explosion impacting areas beyond its point of origin will be mitigated by design and construction meeting performance criteria for:

<b>SO2.2.1</b> Materials of construction	Occupied buildings except detached dwellings
<b>SO2.2.2</b> Active means of fire suppression	Occupied buildings except detached dwellings
<b>SO2.2.3</b> Containment of hazardous substances	All buildings
<b>SO2.2.4</b> Fire control systems	Detached dwellings

<b>S02.3</b>	<b>Fire safety and other emergency systems failing to function as expected</b>	
	The risk of injury due to fire safety and other emergency systems failing to function as expected will be mitigated by design and construction meeting performance criteria for:	
	<b>S02.3.1</b> Means of detection of fire or other emergency	Occupied buildings
	<b>S02.3.2</b> Means of giving warning of fire or other emergency	Occupied buildings
	<b>S02.3.3</b> Fire suppression systems	Occupied buildings, except detached dwellings
	<b>S02.3.4</b> Fire control systems	Occupied buildings, except detached dwellings

<b>S02.4</b>	<b>People being delayed in or impeded from moving to a safe place during a fire or other emergency</b>	
	The risk of injury due to people being delayed in or impeded from moving to a safe place during a fire or other emergency will be mitigated by design and construction meeting performance criteria for:	
	<b>S02.4.1</b> Means of escape in emergency	Occupied buildings, except detached dwellings
	<b>S02.4.2</b> Lighting for emergency	Occupied buildings, except detached dwellings

<b>S02.5</b>	<b>Firefighters being delayed in or impeded from assisting in evacuation and performing firefighting operations</b>	
	The risk of injury due to firefighters being delayed in or impeded from assisting in evacuation and performing firefighting operations will be mitigated by design and construction meeting performance criteria for:	
	<b>S02.5.1</b> Firefighting facilities	Occupied buildings
	<b>S02.5.2</b> Access for firefighters	Occupied buildings

significant new scope = 

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**SO3**  
Safety in use

An objective of this Building Code is to limit the probability that, as a result of the design or construction of the building, a person in or adjacent to the building will be exposed to an unacceptable risk of injury due to hazards in or adjacent to the building.

The risks of injury due to hazards in or adjacent to the building addressed in this Code are those caused by:

**SO3.1**

### Slipping, tripping, falling, drowning or collisions


The risk of injury due to slipping, tripping, falling, drowning or collisions will be mitigated by design and construction meeting performance criteria for:

<b>SO3.1.1</b> Hazardous elements and elements that restrict exposure to hazards (eg, floors, doors, stairs, lifts, escalators, moving walks)	Occupied buildings
<b>SO3.1.2</b> Brittle elements (eg, glazing)	All buildings
<b>SO3.1.3</b> Wayfinding (eg, lighting, signs)	Occupied buildings
<b>SO3.1.4</b> Barriers	All buildings
<b>SO3.1.5</b> Swimming pools and water storage containers	Occupied buildings

**SO3.2**

### Contact with hot or cold surfaces or substances


The risk of injury due to contact with hot or cold surfaces or substances will be mitigated by design and construction meeting performance criteria for:


<b>SO3.2.1</b> Hot water systems	All buildings
<b>SO3.2.2</b> Pipe installations	All buildings
<b>SO3.2.3</b> Heating systems 	All buildings

 = significant new scope

<b>S03.3</b>	<b>Contact with energised equipment and building elements</b>	
	The risk of injury due to contact with energised equipment and building elements will be mitigated by design and construction meeting performance criteria for:	
	<b>S03.3.1</b> Electrical installations	All buildings
	<b>S03.3.2</b> Isolation of building elements from electrical potential	All buildings

<b>S03.4</b>	<b>Exposure to hazardous substances</b>	
	The risk of injury due to exposure to hazardous substances will be mitigated by design and construction meeting performance criteria for:	
	<b>S03.4.1</b> Hazardous agents on site	All buildings
	<b>S03.4.2</b> Pipe installations	All buildings
	<b>S03.4.3</b> Hazardous building materials	All buildings

<b>S03.5</b>	<b>Exposure to high levels of sound from alarm systems</b>	
	The risk of injury due to exposure to high levels of sound from alarm systems will be mitigated by design and construction meeting performance criteria for:	
	<b>S03.5.1</b> Means of giving audible warning 	Occupied buildings

<b>S03.6</b>	<b>People being trapped in confined spaces</b>	
	The risk of injury due to people being trapped in confined spaces will be mitigated by design and construction meeting performance criteria for:	
	<b>S03.6.1</b> Mechanical installations (eg, lifts, escalators, cable cars, moving walks)	Occupied buildings
	<b>S03.6.2</b> Commercial freezers/cold stores/ security safes 	Occupied buildings

significant new scope = 

## NEW ZEALAND BUILDING CODE OBJECTIVES HO HEALTH INDEX

### HO HEALTH

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### HO1 Sanitation

**HO1.1** Exposure to human or domestic waste

**HO1.2** Consumption of contaminated water

**HO1.3** Inadequate facilities for sanitation

**HO1.4** Contact with hazardous materials, substances and processes

### HO2 Indoor conditions

**HO2.1** Inadequate indoor air quality

**HO2.2** Inadequate temperature

**HO2.3** Excessive moisture

## NEW ZEALAND BUILDING CODE OBJECTIVES

### HO HEALTH

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### HO1 Sanitation

**An objective of this Building Code is to limit the probability that, as a result of the design or construction of the building, a person in or adjacent to the building will be exposed to an unacceptable risk of illness due to unsanitary conditions.**

**The risks of illness due to unsanitary conditions addressed in this Code are those caused by:**

### HO1.1

#### **Exposure to human or domestic waste**

The risk of illness due to exposure to human or domestic waste will be mitigated by design and construction meeting performance criteria for:

<b>HO1.1.1</b> Foul water pipe systems	Occupied buildings
<b>HO1.1.2</b> Foul water disposal	Occupied buildings
<b>HO1.1.3</b> Solid waste disposal	Multi-unit dwellings and commercial/industrial buildings
<b>HO1.1.4</b> Liquid waste disposal	Commercial/industrial buildings

### HO1.2

#### **Consumption of contaminated water**

The risk of illness due to consumption of contaminated water will be mitigated by design and construction meeting performance criteria for:

<b>HO1.2.1</b> Water for human consumption	Occupied buildings
<b>HO1.2.2</b> Protection of potable water supply	Occupied buildings
<b>HO1.2.3</b> Protection of network utility operator water supply	All buildings

<b>H01.3</b>	<b>Inadequate facilities for sanitation</b>	
	The risk of illness due to inadequate facilities for sanitation will be mitigated by design and construction meeting performance criteria for:	
	<b>H01.3.1</b> Personal hygiene facilities (eg, showers, basins, toilets)	Occupied buildings
	<b>H01.3.2</b> Laundering and other cleaning facilities	Residential buildings
	<b>H01.3.3</b> Food preparation facilities	Residential buildings
	<b>H01.3.4</b> Water for sanitation	Occupied buildings

<b>H01.4</b>	<b>Contact with hazardous materials, substances and processes</b>	
	The risk of illness due to contact with hazardous materials, substances and processes will be mitigated by design and construction meeting performance criteria for:	
	<b>H01.4.1</b> Volatile organic compounds, carcinogens, oxidising substances and biocides	Occupied buildings

## NEW ZEALAND BUILDING CODE OBJECTIVES

<b>HO</b> HEALTH	<b>AN OBJECTIVE OF THIS BUILDING CODE IS TO LIMIT THE PROBABILITY THAT, AS A RESULT OF THE DESIGN OR CONSTRUCTION OF THE BUILDING, A PERSON IN OR ADJACENT TO THE BUILDING WILL BE EXPOSED TO AN UNACCEPTABLE RISK OF ILLNESS</b>
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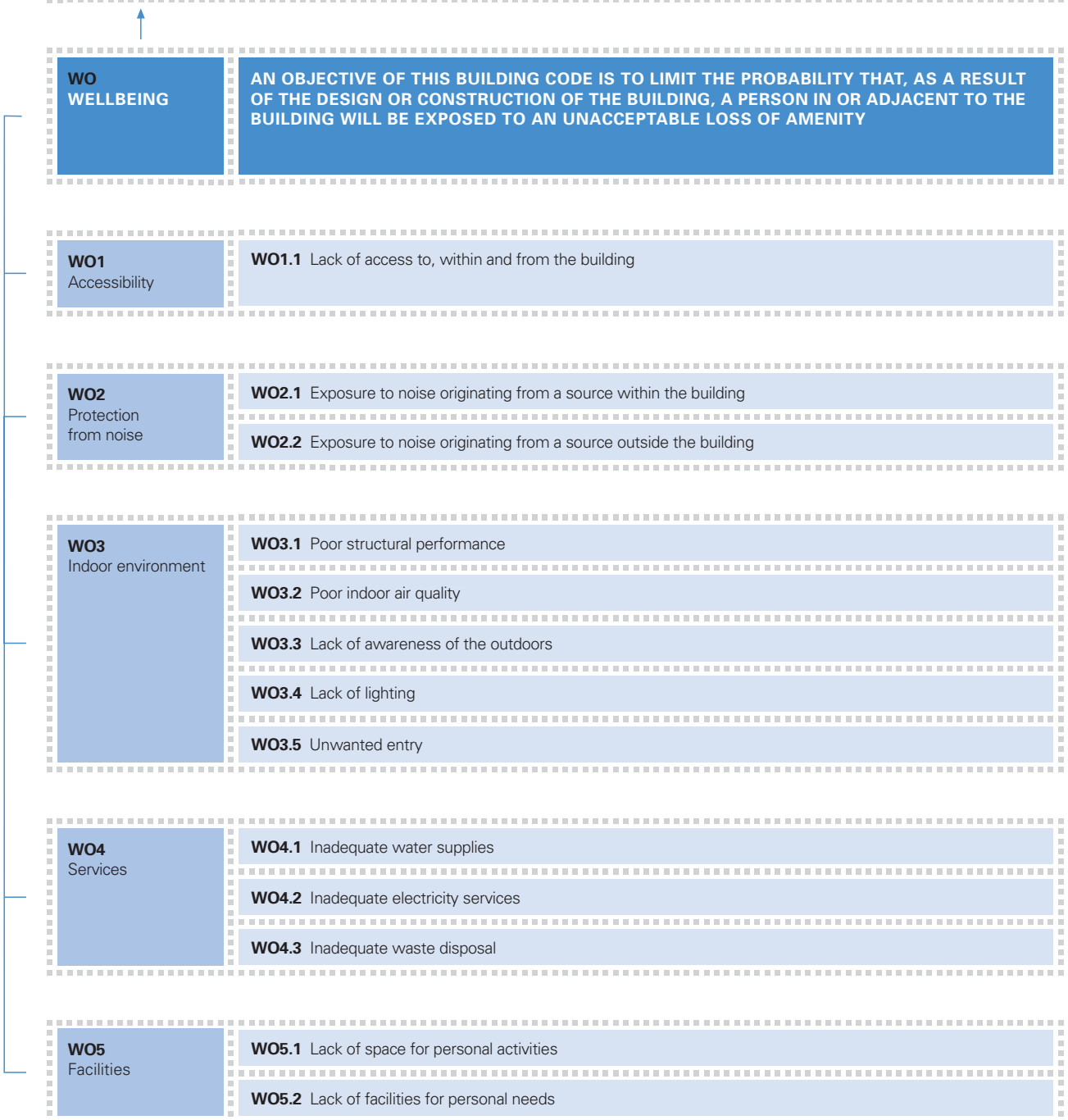
<b>HO2</b> Indoor conditions	<p><b>An objective of this Building Code is to limit the probability that, as a result of the design or construction of the building, a person in or adjacent to the building will be exposed to an unacceptable risk of illness due to the indoor conditions.</b></p> <p><b>The risks of illness due to the indoor conditions addressed in this Code are those caused by:</b></p>
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<b>HO2.1</b>	<b>Inadequate indoor air quality</b>	
	The risk of illness due to inadequate indoor air quality will be mitigated by design and construction meeting performance criteria for:	
	<b>HO2.1.1</b> Removal of: cooking fumes and odours; moisture from laundering, utensil washing, bathing, and showering; odours from sanitary and waste storage spaces; gaseous by-products and excessive moisture from commercial or industrial processes; poisonous fumes	Occupied buildings
	<b>HO2.1.2</b> Prevention of draughts	Occupied buildings
<b>HO2.1.3</b> Air for respiration	Occupied buildings	

<b>HO2.2</b>	<b>Inadequate temperature</b>	
	The risk of illness due to inadequate temperature will be mitigated by design and construction meeting performance criteria for:	
<b>HO2.2.1</b> Indoor temperature	Housing, early childhood centres, aged care facilities	

<b>HO2.3</b>	<b>Excessive moisture</b>	
	The risk of illness due to excessive moisture will be mitigated by design and construction meeting performance criteria for:	
	<b>HO2.3.1</b> Mould and fungi control	Occupied buildings
	<b>HO2.3.2</b> Building envelope	Occupied buildings
<b>HO2.3.3</b> Concealed spaces	Occupied buildings	

## NEW ZEALAND BUILDING CODE OBJECTIVES **WO WELLBEING INDEX**



## NEW ZEALAND BUILDING CODE OBJECTIVES

### WO WELLBEING

**AN OBJECTIVE OF THIS BUILDING CODE IS TO LIMIT THE PROBABILITY THAT, AS A RESULT OF THE DESIGN OR CONSTRUCTION OF THE BUILDING, A PERSON IN OR ADJACENT TO THE BUILDING WILL BE EXPOSED TO AN UNACCEPTABLE LOSS OF AMENITY**

### WO1 Accessibility

**An objective of this Code is to limit the probability that, as a result of the design or construction of the building, a person in or adjacent to the building will be exposed to an unacceptable loss of amenity due to a lack of access.**

**The unacceptable level of amenity due to inappropriate provisions for access addressed in this Code is that caused by:**

### WO1.1

#### Lack of access to, within and from the building

The unacceptable loss of amenity due to a lack of access to, within and from the building will be mitigated by design and construction meeting performance criteria for:

<b>WO1.1.1</b> Access routes		Occupied buildings
<b>WO1.1.2</b> Wayfinding	❖	Commercial, industrial and public buildings
<b>WO1.1.3</b> Mechanical installations for access (eg, lifts, escalators, cable cars, moving walks)		Commercial, industrial and public buildings
<b>WO1.1.4</b> Features that assist people with physical disabilities		Occupied buildings, except detached dwellings
<b>WO1.1.5</b> Features that assist people with visual disabilities	❖	Occupied buildings, except detached dwellings
<b>WO1.1.6</b> Features that assist people with hearing loss		Buildings [places of assembly]
<b>WO1.1.7</b> Features that assist people with intellectual disabilities	❖	Occupied buildings, except detached dwellings

## NEW ZEALAND BUILDING CODE OBJECTIVES

### WO WELLBEING

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### WO2 Protection from noise

**An objective of this Building Code is to limit the probability that, as a result of the design or construction of the building, a person in the building will be exposed to an unacceptable loss of amenity due to noise.**

**The unacceptable loss of amenity due to high levels of noise addressed in this Code is that caused by:**

### WO2.1

#### **Exposure to noise originating from a source within the building**

The unacceptable loss of amenity due to exposure to noise originating from a source within the building will be mitigated by design and construction meeting performance criteria for:

**WO2.1.1** Indoor noise due to airborne sound transmitted through assemblies separating dwelling units from adjacent spaces in the building

Residential buildings


**WO2.1.2** Indoor noise due to impact sound transmitted through the structure

Residential buildings

### WO2.2

#### **Exposure to noise originating from a source outside the building**

The unacceptable loss of amenity due to exposure to noise originating from a source outside the building will be mitigated by design and construction meeting performance criteria for:

**WO2.2.1** Indoor noise due to sound transmitted  from a source external to the building

Residential buildings [noise zone] and learning institutions

 = significant new scope

## NEW ZEALAND BUILDING CODE OBJECTIVES

### WO WELLBEING

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### WO3 Indoor environment

An objective of this Building Code is to limit the probability that, as a result of the design or construction of the building, a person in or adjacent to the building will be exposed to an unacceptable loss of amenity due to an inappropriate indoor environment.

The unacceptable loss of amenity due to an inappropriate indoor environment addressed in this Code is that caused by:

#### WO3.1

#### Poor structural performance

The unacceptable loss of amenity due to poor structural performance will be mitigated by design and construction meeting performance criteria for:

WO3.1.1 Vibrations	Occupied buildings
WO3.1.2 Deflection	Occupied buildings

#### WO3.2

#### Poor indoor air quality

The unacceptable loss of amenity due to indoor air quality will be mitigated by design and construction meeting performance criteria for:

WO3.2.1 Odour from sanitation facilities	■ ■ ■ ■	Residential buildings
WO3.2.2 Odour from cooking	■ ■ ■ ■	Residential buildings
WO3.2.3 Emissions from industrial processes	■ ■ ■ ■	Industrial buildings
WO3.2.4 Indoor air temperature	■ ■ ■ ■	Residential buildings
WO3.2.5 Stiffness	■ ■ ■ ■	Residential buildings

significant new scope = ■ ■ ■ ■

<b>WO3.3</b>	<b>Lack of awareness of the outdoors</b>	
	The unacceptable loss of amenity due to a lack of awareness of the outdoors will be mitigated by design and construction meeting performance criteria for:	
	<b>WO3.3.1</b> Natural lighting	Residential buildings
	<b>WO3.3.2</b> Outlook	Residential buildings

<b>WO3.4</b>	<b>Lack of lighting</b>	
	The unacceptable loss of amenity due to a lack of lighting will be mitigated by design and construction meeting performance criteria for:	
	<b>WO3.4.1</b> Artificial light	Occupied buildings
	<b>WO3.4.2</b> Natural light	Residential buildings

<b>WO3.5</b>	<b>Unwanted entry</b>	
	The unacceptable loss of amenity due to unwanted entry will be mitigated by design and construction meeting performance criteria for:	
	<b>WO3.5.1</b> Entry doors	Residential buildings
	<b>WO3.5.2</b> Windows	Residential buildings

 = significant new scope

## NEW ZEALAND BUILDING CODE OBJECTIVES

### WO WELLBEING

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### WO4 Services

An objective of this Building Code is to limit the probability that, as a result of the design or construction of the building, a person in or adjacent to the building will be exposed to an unacceptable loss of amenity due to inappropriate provision of services.

The unacceptable loss of amenity due to inappropriate provision of services addressed in this Code is that caused by:

### WO4.1

#### Inadequate water supplies

The unacceptable loss of amenity due to inadequate water supplies will be mitigated by design and construction meeting performance criteria for:

<b>WO4.1.1</b> Water temperature for personal hygiene	■ ■ ■ ■	All buildings with personal hygiene facilities
<b>WO4.1.2</b> Taste of water at facilities	■ ■ ■ ■	All buildings with potable water
<b>WO4.1.3</b> Flow rate of water	■ ■ ■ ■	Sanitary fixtures/appliances

### WO4.2

#### Inadequate electricity services

The unacceptable loss of amenity due to inadequate electricity services will be mitigated by design and construction meeting performance criteria for:

<b>WO4.2.1</b> Location and number of socket outlets	■ ■ ■ ■	Residential buildings, aged care facilities
<b>WO4.2.2</b> Location and number of light switches	■ ■ ■ ■	Residential buildings, aged care facilities

### WO4.3

#### Inadequate waste disposal

The unacceptable loss of amenity due to inadequate waste disposal will be mitigated by design and construction meeting performance criteria for:

<b>WO4.3.1</b> Facility for household refuse storage and removal	Multi-unit dwellings [apartments]
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### WO5 Facilities


**An objective of this Building Code is to limit the probability that, as a result of the design or construction of the building, a person in or adjacent to the building will be exposed to an unacceptable loss of amenity due to inappropriate provision of facilities.**

**The unacceptable loss of amenity due to inappropriate provision of facilities addressed in this Code is that caused by:**

#### WO5.1

##### **Lack of space for personal activities**


The unacceptable loss of amenity due to a lack of space for personal activities will be mitigated by design and construction meeting performance criteria for space for:

<b>WO5.1.1</b> Recreation facilities	Aged care facilities
<b>WO5.1.2</b> Living areas and areas with facilities for personal needs 	Residential buildings

#### WO5.2

##### **Lack of facilities for personal needs**

The unacceptable loss of amenity due to a lack of facilities for personal needs will be mitigated by design and construction meeting performance criteria for:

<b>WO5.2.1</b> Personal hygiene facilities (eg, bathrooms, toilets)	Occupied buildings
<b>WO5.2.2</b> Laundering and other cleaning facilities	Residential buildings
<b>WO5.2.3</b> Food preparation and storage facilities	Residential buildings
<b>WO5.2.4</b> Privacy [for personal hygiene]	Occupied buildings
<b>WO5.2.5</b> Storage facilities for personal effects 	All residential buildings [apartments]

 = significant new scope

**NEW ZEALAND BUILDING CODE OBJECTIVES SD SUSTAINABLE DEVELOPMENT INDEX**

**SDO**  
SUSTAINABLE  
DEVELOPMENT

AN OBJECTIVE OF THIS BUILDING CODE IS TO LIMIT THE PROBABILITY THAT THE DESIGN, CONSTRUCTION OR USE OF THE BUILDING WILL NOT PROMOTE SUSTAINABLE DEVELOPMENT

**SDO1**  
Durability

**SDO1.1** Appropriate use of construction materials

**SDO1.2** Appropriate maintenance of the building and building elements

**SDO1.3** The building and/or construction materials being appropriate for future adaptation

**SDO2**  
Energy

**SDO2.1** Energy used for water heating

**SDO2.2** Energy used for space conditioning

**SDO2.3** Energy used for lighting

**SDO3**  
Water

**SDO3.1** Water conservation and efficiency

**SDO3.2** Wastewater re-use

**SDO3.3** Liquid waste

**SDO4**  
Materials

**SDO4.1** Materials conservation and efficiency

**SDO4.2** Appropriate whole-of-chain environmental impacts

**SDO4.3** Provision for recycling of construction materials

**SDO5**  
Protection of  
other property

**SDO5.1** Exposure to surface water

**SDO5.2** Spread of fire

**SDO5.3** Construction and demolition

**SDO5.4** Utility services

## NEW ZEALAND BUILDING CODE OBJECTIVES

**SDO**  
SUSTAINABLE  
DEVELOPMENT

**AN OBJECTIVE OF THIS BUILDING CODE IS TO LIMIT THE PROBABILITY THAT THE DESIGN, CONSTRUCTION OR USE OF THE BUILDING WILL NOT PROMOTE SUSTAINABLE DEVELOPMENT**

**SDO1**  
Durability

**An objective of this Building Code is to limit the probability that the design, construction or use of the building will not promote sustainable development due to the lack of durability of building elements.**

**Sustainable development through the durability of building elements addressed in this Code is that promoted by:**

**SDO1.1**

**Selection of construction materials**

Sustainable development through the selection of construction materials will be promoted by design and construction meeting performance criteria for:

**SDO1.1.1** Durability of building elements to meet performance criteria of other parts of the Building Code

All building materials

**SDO1.2**

**Maintenance of the building and building elements**

Sustainable development through building maintenance will be promoted by design and construction meeting performance criteria for:

**SDO1.2.1** Identification of future maintenance requirements



All buildings

**SDO1.3**

**The building and/or construction materials being appropriate for future adaptation**

Sustainable development through the building and/or construction materials being appropriate for future adaptation will be promoted by design and construction meeting performance criteria for:

**SDO1.3.1** Materials of construction



All buildings




**SDO1.3.2** Provision of features for universal design



Occupied buildings

= significant new scope

## NEW ZEALAND BUILDING CODE OBJECTIVES

<b>SDO</b> SUSTAINABLE DEVELOPMENT	<b>AN OBJECTIVE OF THIS BUILDING CODE IS TO LIMIT THE PROBABILITY THAT THE DESIGN, CONSTRUCTION OR USE OF THE BUILDING WILL NOT PROMOTE SUSTAINABLE DEVELOPMENT</b>	
<b>SDO2</b> Energy	<b>An objective of this Building Code is to limit the probability that the design, construction or use of the building will not promote sustainable development due to the inefficient use of energy.</b>	
	<b>Sustainable development due to the efficient use of energy addressed in this Code is that promoted by:</b>	
<b>SDO2.1</b>	<b>Conservation and efficiency of energy used for water heating</b>	
	Sustainable development through the conservation and efficiency of energy used for water heating will be promoted by design and construction meeting performance criteria for:	
	<b>SDO2.1.1</b> The consumption of energy from  non-renewable energy sources used for heating hot water for the purpose of achieving the Health and Wellbeing objectives of the Building Code	All buildings
<b>SDO2.2</b>	<b>Conservation and efficiency of the energy used for space conditioning</b>	
	Sustainable development through the conservation and efficiency of energy used for space conditioning will be promoted by design and construction meeting performance criteria for:	
	<b>SDO2.2.1</b> The consumption of energy from  non-renewable energy sources used for conditioning (heating, cooling and ventilating) spaces within buildings and used for the purpose of achieving the Safety, Health and Wellbeing objectives of the Building Code	Occupied buildings
<b>SDO2.3</b>	<b>Conservation and efficiency of energy used for lighting</b>	
	Sustainable development through the conservation and efficiency of energy used for lighting will be promoted by design and construction meeting performance criteria for:	
	<b>SDO2.3.1</b> The consumption of energy from  non-renewable energy sources used for lighting within buildings and used for the purpose of achieving the Safety, Health and Wellbeing objectives of the Building Code	All buildings

## NEW ZEALAND BUILDING CODE OBJECTIVES

**SDO**  
SUSTAINABLE  
DEVELOPMENT

**AN OBJECTIVE OF THIS BUILDING CODE IS TO LIMIT THE PROBABILITY THAT THE DESIGN, CONSTRUCTION OR USE OF THE BUILDING WILL NOT PROMOTE SUSTAINABLE DEVELOPMENT**

**SDO3**  
Water

**An objective of this Building Code is to limit the probability that the design, construction or use of the building will not promote sustainable development due to the inefficient use of water.**

**Sustainable development through the efficient use of water addressed in this Code is that promoted by:**

**SDO3.1**

**Water conservation and efficiency**

Sustainable development through water conservation and efficiency will be promoted by design and construction meeting performance criteria for:

<b>SDO3.1.1</b> The consumption of water from a network utility operator and used for the purpose of achieving the Health outcomes of the Building Code	■ ■ ■ ■	Occupied buildings [water zones]
<b>SDO3.1.2</b> Collection of rainwater	■ ■ ■ ■	Occupied buildings
<b>SDO3.1.3</b> Use of water not supplied by a network utility operator	■ ■ ■ ■	Occupied buildings
<b>SDO3.1.4</b> Disposal of stormwater	■ ■ ■ ■	All buildings

**SDO3.2**

**Waste-water reuse**

Sustainable development through the reuse of waste water will be promoted by design and construction meeting performance criteria for:

<b>SDO3.2.1</b> Collection and storage of waste water	■ ■ ■ ■	Apartment buildings and commercial/industrial buildings
<b>SDO3.2.2</b> Use of waste water	■ ■ ■ ■	Apartment buildings and commercial/industrial buildings

■ ■ ■ ■ = significant new scope

**SDO3.3**

**Management of liquid waste**

Sustainable development through the management of liquid waste will be promoted by design and construction meeting performance criteria for:


**SDO3.3.1** Collection, storage and disposal of liquid waste


Commercial/industrial buildings


## NEW ZEALAND BUILDING CODE OBJECTIVES

<b>SDO</b> <b>SUSTAINABLE DEVELOPMENT</b>	<b>AN OBJECTIVE OF THIS BUILDING CODE IS TO LIMIT THE PROBABILITY THAT THE DESIGN, CONSTRUCTION OR USE OF THE BUILDING WILL NOT PROMOTE SUSTAINABLE DEVELOPMENT</b>
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<b>SDO4</b> Materials	<p><b>An objective of this Building Code is to limit the probability that the design, construction or use of the building will not promote sustainable development due to the unsustainable use of building materials.</b></p> <p><b>Sustainable development through the sustainable use of building materials addressed in this Code is that promoted by:</b></p>
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<b>SDO4.1</b>	<p><b>Conservation and efficient use of materials</b></p> <p>Sustainable development through the conservation and efficient use of materials will be promoted by design and construction meeting performance criteria for:</p>
	<p><b>SDO4.1.1</b> To be determined </p>

<b>SDO4.2</b>	<p><b>Whole-of-chain environmental impacts</b></p> <p>Sustainable development through whole-of-chain environmental impacts will be promoted by design and construction meeting performance criteria for:</p>
	<p><b>SDO4.2.1</b> Whole-of-chain environmental footprint </p>

<b>SDO4.3</b>	<p><b>Provision for recycling of construction materials</b></p> <p>Sustainable development through the provision for recycling of construction materials will be promoted by design and construction meeting performance criteria for:</p>
	<p><b>SDO4.3.1</b> Elimination of barriers to the use of recycled materials </p>

 = significant new scope

## NEW ZEALAND BUILDING CODE OBJECTIVES

### SDO SUSTAINABLE DEVELOPMENT

AN OBJECTIVE OF THIS BUILDING CODE IS TO LIMIT THE PROBABILITY THAT THE DESIGN, CONSTRUCTION OR USE OF THE BUILDING WILL NOT PROMOTE SUSTAINABLE DEVELOPMENT

### SDO5 Protection of other property

An objective of this Building Code is to limit the probability that the design, construction or use of the building will not promote sustainable development due the lack of protection of other property.

Sustainable development through the protection of other property addressed in this Code is that promoted by:

### SDO5.1

#### Protection from surface water

Sustainable development through protection from surface water will be promoted by design and construction meeting performance criteria for:

<b>SDO5.1.1</b> Collection and disposal of surface water	All buildings
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<b>SDO5.1.2</b> Prevention of water entering other household units	All buildings
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### SDO5.2

#### Containment of fire

Sustainable development through the containment of fire will be promoted by design and construction meeting performance criteria for:

<b>SDO5.2.1</b> Containment of the effects of fire adverse to other property	All buildings
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### SDO5.3

#### Containment of effects of construction and demolition

Sustainable development through the containment of the effects of construction and demolition will be promoted by design and construction meeting performance criteria for:

<b>SDO5.3.1</b> Containment of effects of construction and demolition adverse to other property	All buildings
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**SDO5.4**

**Protection of utility services**

Sustainable development through the protection of utility services will be promoted by design and construction meeting performance criteria for:

**SDO5.4.1** Containment of effects adverse to utility networks

All buildings

**Obtain copies of *Building for the 21st Century*  
– *Review of the Building Code***

Copies of the discussion document, plus an online submission form, can be found on the Department's website [www.dbh.govt.nz](http://www.dbh.govt.nz)

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Submissions on *Building for the 21st Century* – *Review of the Building Code* close on **31 August 2006**.





Published in May 2006  
by Department of Building and Housing

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This document is also available on the  
Department's website: [www.dbh.govt.nz](http://www.dbh.govt.nz)

ISBN: 0-478-29720-3 (booklet)  
ISBN: 0-478-29721-1 (website)

