

## Section 2.2. Objectives

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1) The objectives of this Code are as follows (see Note A-2.2.1.1.(1)):

##### OS Safety

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

##### OS1 Fire Safety

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 risk of injury due to fire. The risks of injury due to fire addressed in this Code are those caused by –

- OS1.1 – fire or explosion occurring
- OS1.2 – fire or explosion impacting areas beyond its point of origin
- OS1.3 – collapse of physical elements due to a fire or explosion
- OS1.4 – fire safety systems failing to function as expected
- OS1.5 – persons being delayed in or impeded from moving to a safe place during a fire emergency

##### OS2 Structural Safety

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

- OS2.1 – loads bearing on the *building* elements that exceed their *loadbearing* capacity
- OS2.2 – loads bearing on the *building* that exceed the *loadbearing* properties of the supporting medium
- OS2.3 – damage to or deterioration of *building* elements
- OS2.4 – vibration or deflection of *building* elements
- OS2.5 – instability of the *building* or part thereof
- OS2.6 – collapse of the *excavation*

##### OS3 Safety in Use

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 risk of injury due to hazards. The risks of injury due to hazards addressed in this Code are those caused by –

- OS3.1 – tripping, slipping, falling, contact, drowning or collision
- OS3.2 – contact with hot surfaces or substances
- OS3.3 – contact with energized equipment
- OS3.4 – exposure to hazardous substances
- OS3.5 – exposure to high levels of sound from fire alarm systems
- OS3.6 – persons becoming trapped in confined spaces
- OS3.7 – persons being delayed in or impeded from moving to a safe place during an emergency (see Note A-2.2.1.1.(1))

##### OS4 Resistance to Unwanted Entry

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 the *building* will be exposed to an unacceptable risk of injury due to the *building's* low level of resistance to unwanted entry (see Sentence 2.1.1.2.(2) for application limitation). The risks of injury due to unwanted entry addressed in this Code are those caused by –

OS4.1 – intruders being able to force their way through locked doors or windows

OS4.2 – occupants being unable to identify potential intruders as such

### **OS5 Safety at Construction and Demolition Sites**

An objective of this Code is to limit the probability that, as a result of the construction or demolition of the *building*, the public adjacent to a construction or demolition site will be exposed to an unacceptable risk of injury due to hazards. The risks of injury due to construction and demolition hazards addressed in this Code are those caused by –

OS5.1 – objects projected onto *public ways*

OS5.2 – vehicular accidents on *public ways*

OS5.3 – damage to or obstruction of *public ways*

OS5.4 – water accumulated in *excavations*

OS5.5 – entry into the site

OS5.6 – exposure to hazardous substances and activities

OS5.7 – loads bearing on a covered way that exceed its *loadbearing* capacity

OS5.8 – collapse of the *excavation*

OS5.9 – persons being delayed in or impeded from moving to a safe place during an emergency (see Note A-2.2.1.1.(1))

### **OH Health**

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

#### **OH1 Indoor Conditions**

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 the *building* will be exposed to an unacceptable risk of illness due to indoor conditions. The risks of illness due to indoor conditions addressed in this Code are those caused by –

OH1.1 – inadequate indoor air quality

OH1.2 – inadequate thermal comfort

OH1.3 – contact with moisture

#### **OH2 Sanitation**

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 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 –

OH2.1 – exposure to human or domestic waste

OH2.2 – consumption of contaminated water

OH2.3 – inadequate facilities for personal hygiene

OH2.4 – contact with contaminated surfaces

OH2.5 – contact with vermin and insects

#### **OH3 Noise Protection**

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 the *building* will be exposed to an unacceptable risk of illness due to high levels of sound originating in adjacent spaces in the *building* (see Sentence 2.1.1.2.(3) for application limitation). The risks of illness due to high levels of sound addressed in this Code are those caused by –

OH3.1 – exposure to airborne sound transmitted through assemblies separating *dwelling units* from adjacent spaces in the *building*

#### **OH4 Vibration and Deflection Limitation**

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 the *building* will be exposed to an unacceptable risk of illness due to high levels of vibration or deflection of *building* elements.

**OH5 Hazardous Substances Containment**

An objective of this Code is to limit the probability that, as a result of the design or construction of the *building*, the public will be exposed to an unacceptable risk of illness due to the release of hazardous substances from the *building* (see Sentence 2.1.1.2.(4) for application limitation).

**OA Accessibility**

An objective of this Code is to limit the probability that, as a result of the design or construction of the *building*, *persons with disabilities* will be unacceptably impeded from accessing or using the *building* or its facilities (see Sentence 2.1.1.2.(5) for application limitations).

**OA1 Accessible Path of Travel**

An objective of this Code is to limit the probability that, as a result of the design or construction of the *building*, *persons with disabilities* will be unacceptably impeded from accessing the *building* or circulating within it (see Sentence 2.1.1.2.(5) for application limitations).

**OA2 Accessible Facilities**

An objective of this Code is to limit the probability that, as a result of the design or construction of the *building*, *persons with disabilities* will be unacceptably impeded from using the *building's* facilities (see Sentence 2.1.1.2.(5) for application limitations).

**OP Fire and Structural Protection of Buildings**

An objective of this Code is to limit the probability that, as a result of the design, construction or demolition of the *building*, the *building* or adjacent *buildings* will be exposed to an unacceptable risk of damage due to fire or structural insufficiency, or the *building* or part thereof will be exposed to an unacceptable risk of loss of use also due to structural insufficiency.

**OP1 Fire Protection of the Building**

An objective of this Code is to limit the probability that, as a result of its design or construction, the *building* will be exposed to an unacceptable risk of damage due to fire. The risks of damage due to fire addressed in this Code are those caused by –

- OP1.1 – fire or explosion occurring
- OP1.2 – fire or explosion impacting areas beyond its point of origin
- OP1.3 – collapse of physical elements due to a fire or explosion
- OP1.4 – fire safety systems failing to function as expected

**OP2 Structural Sufficiency of the Building**

An objective of this Code is to limit the probability that, as a result of its design or construction, the *building* or part thereof will be exposed to an unacceptable risk of damage or loss of use due to structural failure or lack of structural serviceability. The risks of damage and of loss of use due to structural failure or lack of structural serviceability addressed in this Code are those caused by –

- OP2.1 – loads bearing on the *building* elements that exceed their *loadbearing* capacity
- OP2.2 – loads bearing on the *building* that exceed the *loadbearing* properties of the supporting medium
- OP2.3 – damage to or deterioration of *building* elements
- OP2.4 – vibration or deflection of *building* elements
- OP2.5 – instability of the *building* or part thereof
- OP2.6 – instability or movement of the supporting medium

**OP3 Protection of Adjacent Buildings from Fire**

An objective of this Code is to limit the probability that, as a result of the design or construction of the *building*, adjacent *buildings* will be exposed to an unacceptable risk of damage due to fire. The risks of damage to adjacent *buildings* due to fire addressed in this Code are those caused by –

- OP3.1 – fire or explosion impacting areas beyond the *building* of origin

**OP4 Protection of Adjacent Buildings from Structural Damage**

An objective of this Code is to limit the probability that, as a result of the design, construction or demolition of the *building*, adjacent *buildings* will be exposed to an unacceptable risk of structural damage. The risks of structural damage to adjacent *buildings* addressed in this Code are those caused by –

- OP4.1 – settlement of the medium supporting adjacent *buildings*

- OP4.2 – collapse of the *building* or portion thereof onto adjacent *buildings*
- OP4.3 – impact of the *building* on adjacent *buildings*
- OP4.4 – collapse of the *excavation*

## OE Environment

An objective of this Code is to limit the probability that, as a result of the design, construction or renovation of the *building* or of the plumbing system, the environment will be affected in an unacceptable manner.

### OE1 Energy Efficiency and Water Use

An objective of this Code is to limit the probability that, as a result of the design, construction or renovation of the *building*, the use of energy will be inefficient or the use of water will be excessive. The risks of inefficient energy use or excessive water use addressed in this Code are those caused by –

- OE1.1 – inefficient energy performance of *buildings* or *building* components

### OE2 Greenhouse Gases

An objective of this Code is to limit the probability that, as a result of design and construction of the building, including the building's systems, and the energy consumed in the operation of those systems, the production of greenhouse gases will be excessive. The risks of excessive greenhouse gas emissions addressed in this Code are those caused by–

- OE2.1 – excessive emissions as a result of the design and construction of the building, including the building's systems, and the energy consumed in the operation of those systems