

## Section 2.2. Objectives

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1) The objectives of this By-law are as follows (See Note A-2.2.1.1.(1).):

##### OS Safety

An objective of this By-law 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 By-law 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 By-law 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 By-law 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 By-law 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 By-law 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 By-law 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 By-law 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 By-law 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
- OS4.3 – intruders being able to force their way through physical security features

**OS5 Safety at Construction and Demolition Sites**

An objective of this By-law 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 By-law 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 By-law 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 By-law 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 By-law 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 By-law 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 By-law 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 By-law 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 By-law 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 By-law 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 By-law 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 By-law 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 By-law 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 By-law 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 By-law 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 By-law 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 By-law 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 By-law 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 By-law 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 By-law 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 By-law 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 By-law 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 By-law 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 By-law 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 By-law 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 By-law are those caused by –

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