



Township of  
**Leeds** and the  
**Thousand Islands**

# Division B Part 5 Environmental Separation Changes

**Highlighted Areas**

Key Changes

## Division B Part 5 – Key Changes

### 5.1.1.1. Scope - Clarifies what Part 5 addresses

(1) ~~The scope of this Part shall be as described in Subsection 1.1.2. of Division A. (See Appendix A)~~

- **Sentence (1)** This Part is concerned with
  - (a) the control of condensation
    - (i) in building components and assemblies, and
    - (ii) on building materials, components and assemblies, and
  - (b) the transfer of heat, air, moisture and sound through
    - (i) building materials, components and assemblies, and
    - (ii) interfaces between building materials, components and assemblies.

### 5.1.4.2. Resistance to Deterioration – revised to exclude CSA 478’s prescribed min. service life of building and designer consideration

- **Sentence (3)** Design and construction of assemblies separating dissimilar environments and assemblies exposed to the exterior shall be in accordance with good practice, such as described in CSA S478, “Durability in buildings,” **except that the prescribed minimum design service life of a building and the prescribed minimum design service life of building elements need not comply with Table 1 and Table 2 of that Standard.**
- **New Sentence (4)** The design service life of a building and the design service life of a building element shall be considered by the designer in consultation with the building owner.

### 5.4.1.1. – Required Resistance to Air Leakage - revised sentence 1 to include radon when air sealing

- **Sentence (1)** Where a building component or assembly separates interior conditioned space from exterior space, interior space from the ground, or environmentally dissimilar interior spaces, the properties and position of the materials and components in those components or assemblies shall be such that they control air leakage or permit venting to the exterior so as to,
  - (e) **minimize the ingress of airborne radon and other soil gases from the ground with an aim to controlling the indoor concentrations of these gases to an acceptable level**

### 5.4.1.1. – Required Resistance to Air Leakage – New max air leakage rates for air barrier assemblies and continuity

- **Sentence (2)** Except as provided in Sentence (7), an air barrier system shall be installed **designed and constructed** to provide the principal resistance to air leakage **to meet the requirements of Sentence (1).**
- **New Sentence (3)** **The air barrier system shall incorporate air barrier assemblies that meet the appropriate Performance Class as defined in Table 5.4.1.1.**
- **New Sentence (4)** The air barrier system shall be designed and constructed to be **Continuous**
  - (a) across construction, control and expansion joints,
  - (b) across junctions between different air barrier assemblies, and
  - (c) around penetrations through air barrier assemblies.
- **New Sentence (5)** The structural design of air barrier assemblies, including junctions between air barrier assemblies, subject to air pressure loads shall comply with Article 5.1.4.1. and Subsection 5.2.2.
- **New Sentence (6)** The maximum air leakage rates specified in Table 5.4.1.1. are **permitted to be increased** where it can be shown that the higher rate will not adversely affect any of

- (a) the health or safety of the building users,
- (b) the intended use of the building, or
- (c) the operation of building services.

**Table 5.4.1.1.**  
**Maximum Air Leakage Rates for Air Barrier Assemblies**  
Forming Part of Sentences 5.4.1.1.(3) and (6) and 5.4.1.2.(1) and (2)

Performance Class	Maximum Air Leakage Rate, L / (s × m <sup>2</sup> ), at a Pressure Differential of 75 Pa
1	0.05
2	0.10
3	0.15
4	0.20
5	0.50