

## Section 2.2. Fire Separations and Encapsulation Materials

### 2.2.1. General

#### 2.2.1.1. Fire Separations

1) Where a *building* contains more than one *major occupancy*, such *occupancies* shall be separated from each other in conformance with the British Columbia Building Code.

2) Where rooms or spaces within a *building* contain a *high-hazard industrial occupancy*, such *occupancy* shall be separated from the remainder of the *building* by *fire separations* in conformance with this Code and the British Columbia Building Code.

3) Rooms, corridors, shafts and other spaces shall be separated where practicable by *fire separations* conforming to the British Columbia Building Code.

#### 2.2.1.2. Damage to Fire Separations

1) Where *fire separations* are damaged so as to affect their integrity, they shall be repaired so that the integrity of the *fire separation* is maintained.

### 2.2.2. Closures

#### 2.2.2.1. Openings in Fire Separations

1) Openings in *fire separations* shall be protected with *closures* in conformance with the British Columbia Building Code.

2) Where *closures* in *fire separations* are replaced, the replacements shall be in conformance with the British Columbia Building Code.

#### 2.2.2.2. Damage to Closures

1) Where *closures* are damaged so as to affect the integrity of their *fire-protection rating*, they shall be repaired so that their integrity is maintained in conformance with Article 2.2.2.1.

#### 2.2.2.3. Protective Guarding Devices

- 1) Protective guarding devices shall be
  - a) provided where necessary to prevent damage to the mechanical components of doors in *fire separations*, and
  - b) installed so as not to interfere with the proper operation of the doors.

#### 2.2.2.4. Inspection and Maintenance

1) Defects that interfere with the operation of *closures* in *fire separations* shall be corrected, and such *closures* shall be maintained to ensure that they are operable at all times by

- a) keeping fusible links and other heat-actuated devices undamaged and free of paint and dirt,
- b) keeping guides, bearings and stay rolls clean and lubricated,
- c) making necessary adjustments and repairs to door hardware and accessories to ensure proper closing and latching, and
- d) repairing or replacing inoperative parts of hold-open devices and automatic releasing devices.

2) Except where they are equipped with hold-open devices conforming to the British Columbia Building Code, doors in *fire separations* that are required to be equipped with self-closing devices shall be inspected at intervals not greater than 24 h to ensure that they remain in the closed position when not in use.

3) Doors in *fire separations* shall be operated at intervals not greater than one month to ensure that they are properly maintained in accordance with Sentence (1), as specified in the fire safety plan prepared in conformance with Section 2.8.

- 4) *Closures in fire separations* shall not be obstructed, blocked, wedged open, or altered in any way that would prevent the intended operation of the *closure*.
- 5) *Fire dampers, smoke dampers, combination smoke/fire dampers and fire stop flaps* shall be
  - a) inspected at intervals not greater than 12 months to ensure that they are in place and not obviously damaged or obstructed, and
  - b) tested in accordance with NFPA 80, “Fire Doors and Other Opening Protectives.”

#### **2.2.2.5. Fire Door Signs**

- 1) Every door used as a *closure* with a required *fire-protection rating* shall have a permanent sign, clearly displaying the words “FIRE DOOR KEEP CLOSED”, posted on the visible side of the door when it is in the open position, except where the door is
  - a) located between a corridor and an adjacent sleeping room in a hospital or a nursing home,
  - b) located between a corridor and an adjacent classroom,
  - c) located between a public corridor and a *suite* of Group C or D *occupancy* (See Note A-2.2.2.5.(1)(c).), or
  - d) fitted with an acceptable hold-open device designed to be released by a signal from a fire detector, fire alarm system or sprinkler system.

### **2.2.3. Encapsulation Materials**

#### **2.2.3.1. Damaged or Removed Encapsulation Materials**

- 1) Where encapsulation materials or an assembly of materials that provide protection for mass timber elements in encapsulated mass timber construction are damaged or removed so as to effect their integrity, they shall be repaired or replaced so that the encapsulation rating of the materials is maintained.
- 2) Where encapsulation materials or an assembly of materials described in Sentence (1) are repaired or replaced, the repairs or replacements shall be in conformance with the British Columbia Building Code.