



City of New Westminster

# Building Bulletin

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DEVELOPMENT SERVICES DEPARTMENT  
BUILDING DIVISION – PHONE: 604 527 4580  
MAY 2007

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## *Fire Stopping Details*

### **Intent:**

To inform owners, designers and contractors of the requirements pertaining to the integrity of fire separations as required by the 2006 BC Building Code, Division B Subsections 3.1.8 and 3.1.9.

### **Purpose:**

To ensure that fire stopping details are determined well in advance of actual construction and to have clear procedures in place on-site prior to the commencement of framing and installation of building services. In accordance with Subsection 3.1.8 a fire separation shall be constructed as a continuous element. To comply with Subsection 3.1.9 building services located in required fire separations must be installed such that they maintain the required fire resistance rating and sound rating.

### **Detail Drawing Requirements:**

As part of a Building Permit Application, the applicant is required to submit detail drawings showing how the integrity of fire separations will be maintained throughout the building. These details should also indicate how the required sound separation will be achieved.

### Specific areas of concern include:

- Intersections of two or more fire separations (vertical and/or horizontal). Detail should include method of firestopping all penetrations from one area to another. For example: Where building services penetrate the fire separation the detail shall show the placement of a strip of drywall the width of the stud. Building services can then penetrate the drywall and the annular space fire stopped with approved material.
- Penetrations through fire separations for building services (piping, electrical, cable/telephone, etc.)
- Details for specialized systems such as Hambro
- Protection of steel columns and beams
- \*Tub and shower diverter valves located in fire separations. (please note – due to a long-term requirement for maintenance of these valves, the fire separation should be continuous the floor, rather than trying to box around the valve) .
- \*Water boxes (refrigerator/laundry)
- \*Electrical panels and data boxes larger than the standard stove outlet box size.
- Back to back electrical receptacles (outlet boxes, vanity fixtures, etc) (see detail on reverse)
- Lining joist cavity for ductwork
- Drop ceilings
- Bathtubs – firestopping of traps and integrity of fire separation behind tub.
- Other similar situations.

\*Note: Where possible consideration should be given to locating these items in walls other than required fire separations

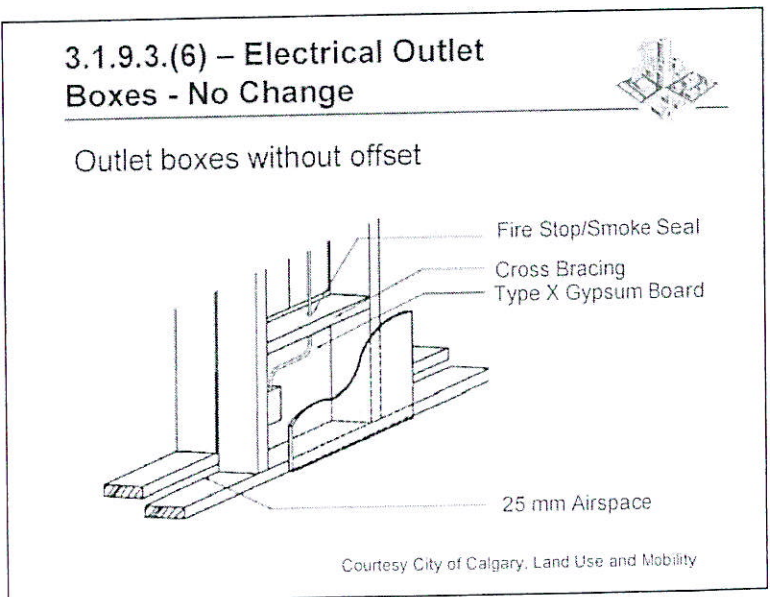
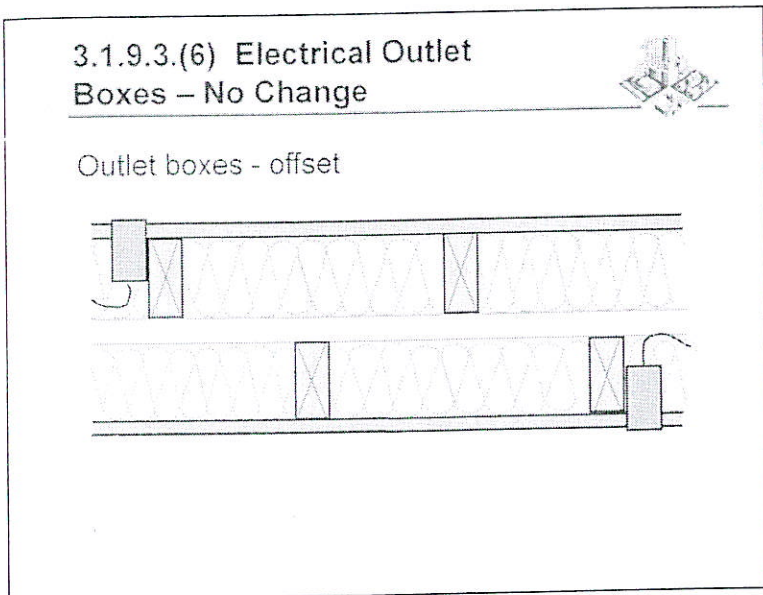
### On-Site Requirements:

A fire-stopping manual shall be prepared and kept at the construction site office as a reference document. This manual shall contain the following:

- Shop drawing details as above
- Fire stop materials specifications from product manufacturer for each product to be used
- Sample tube/container of each product

#### Example:

Article 3.1.9.3 (6) permits outlet boxes on opposite sides of a wall assembly to be offset. (see diagram) If these boxes are not offset they must be boxed on 5 sides to maintain the required fire separation. (see diagram)



"This information is provided for convenience only and is not in substitution of applicable City Bylaws or Provincial or Federal Codes or laws. You must satisfy yourself that any existing or proposed construction or other works complies with such Bylaws, Codes or other laws."

If you have further questions please contact the Building Department at (604) 527-4580.