Charging statement

# PENETRATIONS – CODE OVERVIEW

## 3.1.8 Fire Separations and Closures

- 1) Any wall, partition or floor assembly required to be a fire separation shall a) except as permitted by Sentence (2), be constructed as a continuous element, and
- b) as required in this Part, have a fire-resistance rating as specified.
- 2) Openings in a fire separation shall be protected with closures, shafts or other means

#### **General requirements**

# 3.1.9.1 Penetrations, 3.1.9.4 Membrane penetrations

- 3.1.9.1.(1) Penetration firestop F rating  $\geq$  fire protection rating tested to CAN/ULC-S115
- 3.1.9.1.(2) FT rating  $\geq$  FRR for penetrations of firewall, or horiz fire sepn above a bsmt garage (2 hr)
- 3.1.9.1.(3) FT rating  $\geq$  FRR for penetration of horizontal service space
- 3.1.9.1.(4) Memb pen by sprinkler pipe: No FS needed
- 3.1.9.1.(5) Duct with fire damper: No FS needed if installed to NFPA 80
- 3.1.9.4 Membrane penetrations by outlet boxes
- (1) FT rating  $\geq$  FRR
- (2) Free pass for NC boxes ≤ 25 sq in and aggregate ≤ 100 sq in per 100 sq ft
- (3) Boxes on opposite sides of wall must be sept'd by 24 in. or by fire blocking

## Modifications/exemptions

### Various combustible pipes

• 3.1.9.5.(4) Comb DWV pipes F ≥ FRR and 50 Pa, and not in vert service space 3.1.9.5.(2) Comb water distr piping  $F \ge FRR$  and 50 Pa, and not in vert service space • 3.1.9.5.(6) Comb cent vacuum pipes F ≥ FRR and 50 Pa, and not in vert service space • 3.1.5.19 Polypropylene pipes: FT ≥ FRR at 50 Pa • 3.1.9.3 Misc cable exemptions (caution: these may compromise building fire safety) **NBCC 2015 REQUIREMENTS FOR FIRESTOPPING** 

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