

Village of Vernon Hills
Community Development Department – Building Division
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This hand out is for REFERENCE ONLY. For more details see specific code sections.

FIRE STOPPING

Fireblocking shall be provided to cut off all concealed draft openings (both vertical and horizontal) and to form an effective fire barrier between stories, and between a top story and the roof space. Fireblocking shall be provided in wood-frame construction in the following locations.

1. In concealed spaces of stud walls and partitions, including furred spaces, at the ceiling and floor level and at ten-foot (3048mm) intervals both vertical and horizontal.
2. At all interconnections between concealed vertical and horizontal spaces such as occur at soffits, drop ceilings and cove ceilings.
3. In concealed spaces between stair stringers at the top and bottom run. Enclosed accessible space under stairs shall have walls, under stair surface and soffits protected on the enclosed side with ½" gypsum board.
4. At openings around vents, pipes, and ducts at ceiling and floor level, with an approved material to resist the free passage of flame and products of combustion.
5. For the fireblocking of chimneys and fireplaces, see Sections R1001.12 and R1003.19.
6. Fireblocking of cornices is required at the line of dwelling unit separation for two-family and townhouse buildings.

Materials. Except as provided in Section R602.8, Item 4, fireblocking shall consist of 2-inch (51 mm) nominal lumber, or two thicknesses of 1-inch (25.4 mm) nominal lumber with broken lap joints, or one thickness of 23/32-inch (19.8 mm) wood structural panels with joints backed by 23/32-inch (19.8 mm) wood structural panels or one thickness of 3/4-inch (19.1 mm) particleboard with joints backed by 3/4-inch (19.1 mm) particleboard, 1/2-inch (12.7 mm) gypsum board, or 1/4-inch (6.4 mm) cement-based millboard. Under certain conditions and when securely retained in place, unfaced batts or blankets of mineral wool insulation, or other approved materials may be used when approved by the Building Commissioner.

APPLICATION AND COMMENTARY

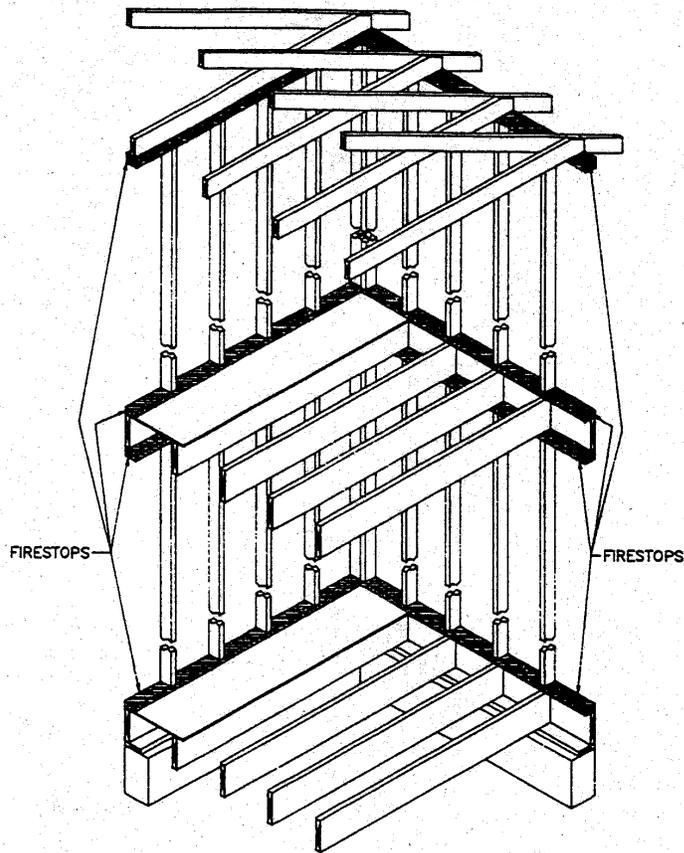


FIGURE 602.7b
FIRESTOPPING — PLATFORM FRAMING

2. At all interconnections between concealed vertical and horizontal spaces such as soffits (Figure 602.7c), dropped ceilings (Figure 602.7d) and cove ceilings (Figure 602.7e). Interconnections such as shown in Figure 602.7f for a bathtub installation must also be firestopped.

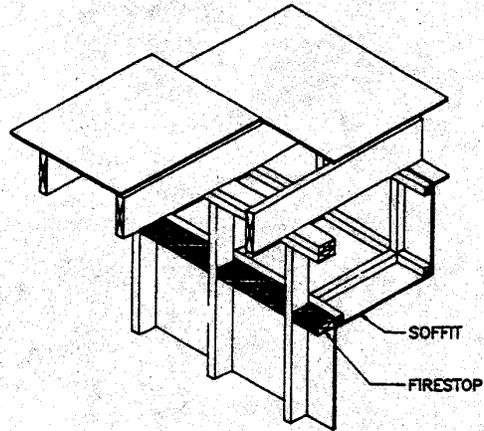


FIGURE 602.7c
FIRESTOPPING — FURRED SOFFIT

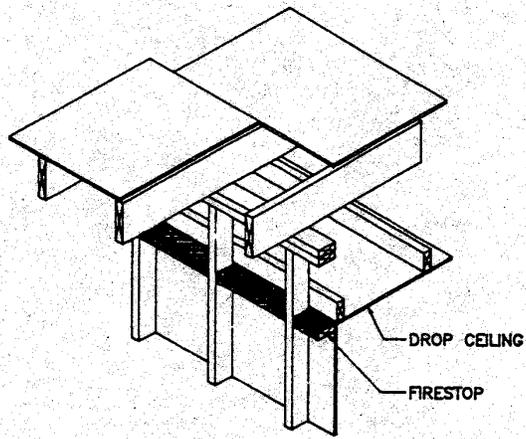
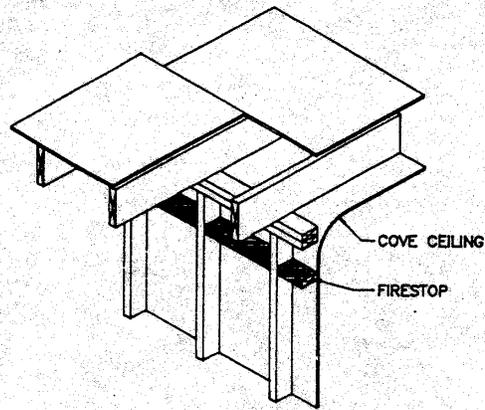
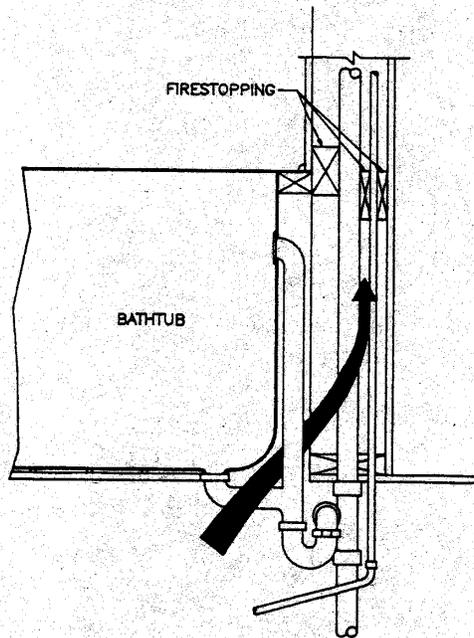


FIGURE 602.7d
FIRESTOPPING — DROPPED CEILING

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**FIGURE 602.7e
FIRESTOPPING — COVE CEILING**



**FIGURE 602.7f
FIRESTOPPING — AT TUB**

3. In concealed spaces between stair stringers at the top and bottom of the run (see Figure 602.7g).

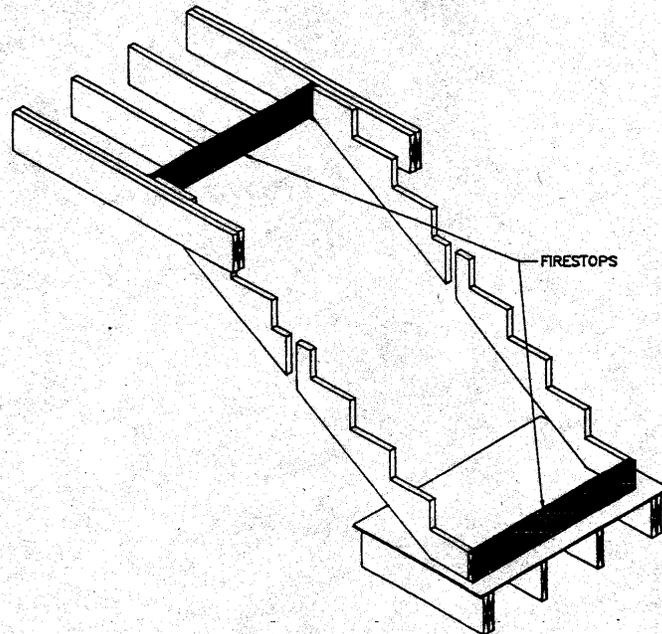


FIGURE 602.7g
FIRESTOPPING — AT STAIRWAYS

4. At openings around vent pipes, ducts, chimneys and fireplaces at ceiling and floor levels with noncombustible materials (see Figures 602.7h and 602.7i). Figure 602.7i illustrates firestopping at chimneys and fireplaces. The firestopping at ductwork would be similar.

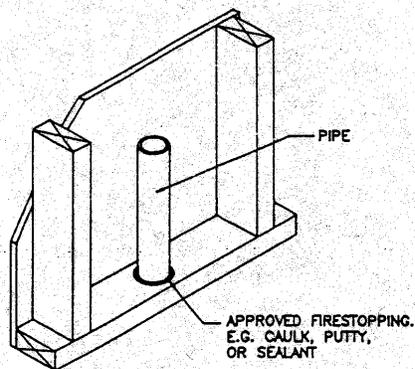
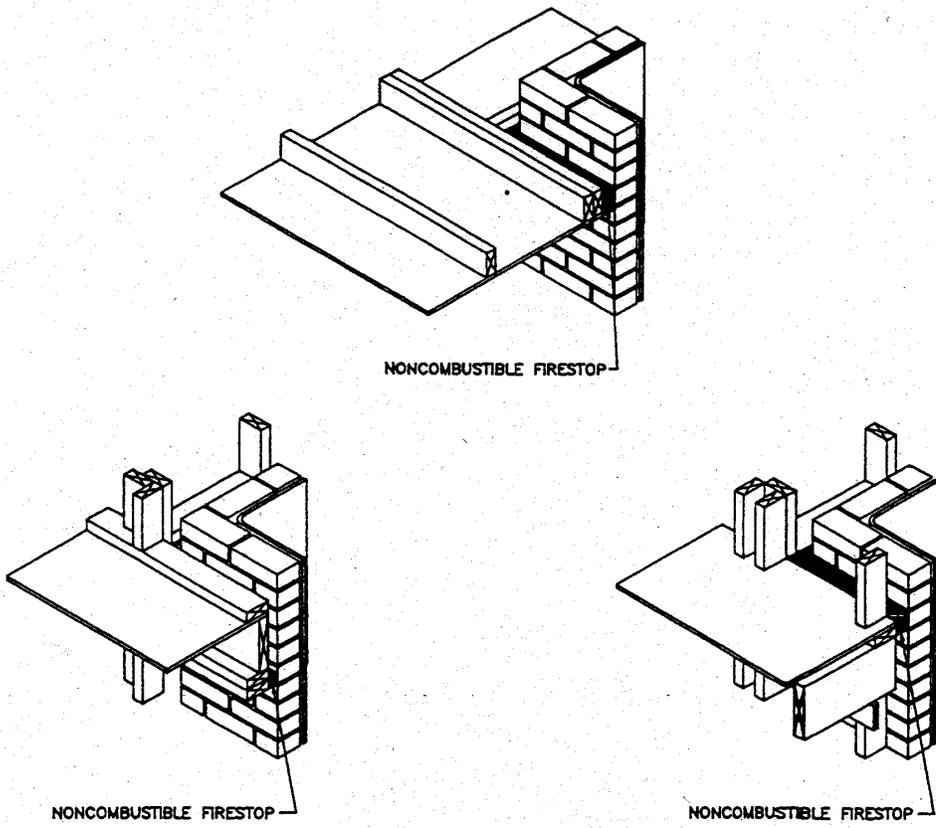


FIGURE 602.7h
FIRESTOPPING — AROUND PIPING

APPLICATION AND COMMENTARY



**FIGURE 602.71
FIRESTOPPING — AROUND CHIMNEYS AND FIREPLACES**