

Builder Tip

STANDPIPE SYSTEMS

Issue No: 35 Issued Mar. 2001 Revised April 2015 Updated to 2012 Building Code

ONTARIO BUILDING CODE

3.2.9.2. Standpipe System Design

- (1) Except as otherwise provided in this subsection, if a standpipe system is required, the design, construction, installation and testing of the system shall be in conformance with NFPA 14, "Standard for the Installation of Standpipe and Hose Systems".
- (9) A standpipe riser shall be located in,
 - (a) an exit stair shaft, or
 - (b) a vertical service space separated from the adjacent floor area by a fire separation having a fire-resistance rating conforming to Table 3.6.3.1.

Table 3.6.3.1. Fire Separations for Vertical Service Space

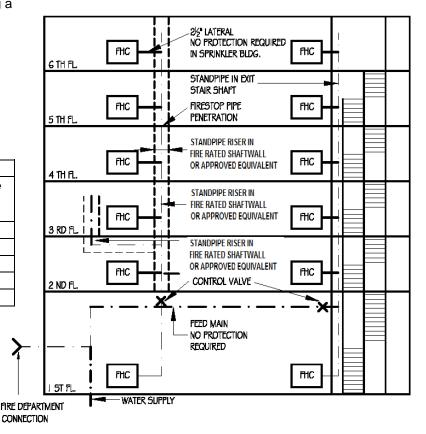
Forming Part of Clause 3.2.9.2.(9)(b) and Sentence 3.6.3.1.(1)

Column 1	Column 2
Fire-Resistance Rating of Fire Separation Required for Floor Assembly	Minimum Fire-Resistance Rating of Vertical Service Space
less than 45 min	
45 min	45 min
1 h	45 min
1.5 h	1 h
2 h or more	1 h

OBJECTIVE

The Ontario Building Code requires standpipe systems be protected from direct exposure to fire to the same degree of protection as required for an exit stair shaft or be installed in a vertical service space separated from the adjacent floor area by a fire separation having a fire-resistance rating conforming to Table 3.6.3.1.

The standpipe system feed main (vertical or horizontal) is not required to be protected where the feed main is located on the same floor level where the fire water service main enters the building. The detail below illustrates the extent of required protection of a standpipe system from mechanical and fire damage.



The Building Standards Department issues BUILDER TIPS as part of our customer service program. They are designed to provide an improved understanding of the Building Code and to reduce the costs associated with correcting infractions. Please contact your area building inspector for further information or call the Building Standards Department at (905) 475-4850