

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
<i>Fire-Resistance Rating of Fire Separation Required for Floor Assembly</i>	<i>Minimum Fire-Resistance Rating of Vertical Service Space</i>
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.

