

# STANDPIPE CONNECTIONS & STAIR LANDINGS

STANDARDS OF STANDPIPE DESIGN SERIES BY MEYERFIRE UNIVERSITY | JULY 2023

## SUMMARY

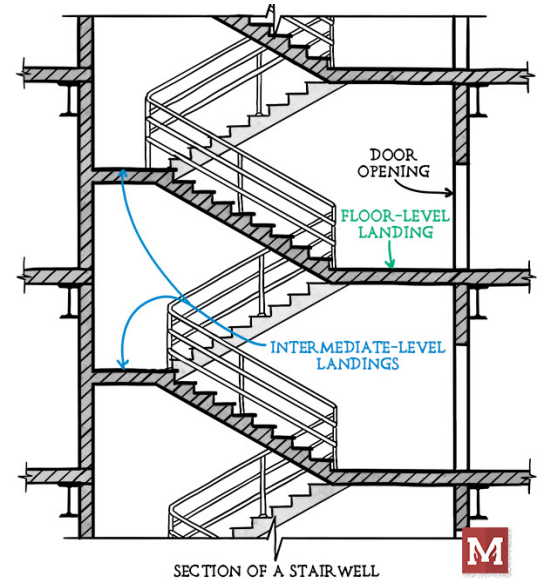
Standpipe hose connection locations within a stairwell can either be located to that they're accessible from the **floor-level stair landing**, or that they're accessible from the **intermediate-level stair landings**. There are pros and cons to each arrangement.

### Benefits of Hose Connections at Floor-Level Stair Landings

- Avoid crossing the stair with sprinkler feeds for combination standpipe/sprinkler risers.
- Easier to route the supply feed into the stairwell.
- More-consistent hose connection locations (intermediate-level landings are not always in consistent locations)
- Shorter hose-length to access a fire.

### Benefits of Hose Connections at Intermediate-Level Stair Landings

- Prevents congestion at stair doorways (occupants and firefighters)
- Offers more room at stair landings for possible Area of Refuge
- Keeps firefighters below the smoke plume (can connect on intermediate-level landing below the fire floor)



### History of Requirement by Code (BC) & Standard (NFPA 14) Edition:

IBC Edition	2000	2003	2006	2009	2012	2015	2018	2021
Landing	Intermediate floor level*						Main Floor Landing*	
Location	Required Stairway					Required Interior Exit Stairway		
Reference	905.4							
NFPA 14 Edition	1996	2000	2003	2007	2010	2013	2016	2019
Landing	Intermediate Landing*			Highest Int.*	Main Floor Landing*			
Location	Required Exit Stairway				Exit Stairways		Required Exit Stairway	
Reference	5-3.2		7.3.2		7.3.2, 7.3.2.1			

\*Unless approved otherwise by the Authority Having Jurisdiction

## CODE/STANDARD REFERENCES



IBC – 2021: Section 905.4  
NFPA 14 – 2019: Section 7.3.2

## VIDEO LINK

[www.meyerfire.com/university/example-where-are-hose-connections-required-in-stairwells](http://www.meyerfire.com/university/example-where-are-hose-connections-required-in-stairwells)

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