

## NFPA 13 Requires Listed Hanger Fasteners

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*Except as modified by 9.1.1.5.3*

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2013 NFPA 13-9.1.1.5.3 exempts from listing only a few specific hanger fasteners. This article will comment on the steel and wood hanger fasteners referenced in the 9.1.4 and 9.1.5 listing exemptions, postponing comments on concrete fasteners to a future date. These fasteners are used to mount hangers that are appropriate for full dimension lumber and robust steel structural elements common to construction types dating to early NFPA 13 texts. The listing exemption was originally crafted for these few generic fasteners that have been historically commonly available. Please note, this listing exemption is very specific and strictly limits type, quantity and size.

Importantly, 2013 NFPA 13-9.1.1.5.4 requires the listing of all other fasteners of any description. Current construction embraces design using engineered light wood and engineered light steel building structural elements to control costs. These engineered structural building elements have necessitated listed fasteners to support hangers specific and unique to their geometry and design.

“Striving for permanence”, per A9.2 formalizes the NFPA 13 hanger concept. The NFPA 13 minimum load rating of 5wt+250 lbs. is the conservative foundation of the fire sprinkler emergency system including an IP of 1.5, as recognized by ASCE 7. Accordingly, the production of listed hanger components formalizes quality control insuring product conformance.

Listing allows the mechanics of hanger support to improve, adapt, evolve and progress. Listing promotes creativity of hanger design to enhance installation strategies in conformance to evolving installation practices. Listing conservatively advances fastener strategies that evolve concurrent and commensurate to modern building systems.

We will see more listed hangers mounted with listed fasteners going forward. The market demands that hangers conform to the current technology of tool types and labor practices.



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