

AON SPRINKLER CERTIFICATION



Aon New Zealand

Aon Sprinkler Certification
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Aon Sprinkler Certification Technical Note		
Note Number: 16-26	Issue: 1	Date: 25 August 2016
Subject	Roof level insulation	
Notice: Aon Sprinkler Certification Technical Notes provide guidance notes which may be used in certification of sprinkler installations by Aon New Zealand. If sprinkler installations are being certified by any other Sprinkler System Certifier, these Technical Notes may not apply.		

Where batt type insulation is installed at other than ceiling level the effects of its sagging needs to be considered to ensure concealed space fire sprinkler coverage is not compromised. Such products need to be positively held in place and are not self-supporting. NZS4541:2013 contain no guidance on this practise however NFPA13 A8.5.4.1 states, in part, *“... and attached to the ceiling/roof in such a manner that it will not fall out during a fire prior to sprinkler activation.”*

Where the insulation is installed beneath the roof any material used to hold the insulation in place must not fail prior to activation of the fire sprinklers. We specifically note that plastic strapping is insufficient to prevent batts sagging during a fire, due to plastics losing their structural integrity at low temperatures. Furthermore it is not considered a good long term solution to tightly pack batts into the space to omit the need for specific support.

Likewise when sound batting is installed to form walls from the ceiling to the floor above this needs given consideration. If the batts are not held in a manner to prevent their collapse during a fire the ceiling space sprinklers need spaced far enough away to prevent the collapsed batts obstructing the sprinkler heads. Additionally should the batts collapse, the sprinklers on either side of the batts must not be spaced in a manner that allows cold soldering to occur.



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A handwritten signature in blue ink, appearing to read "Stephen Ridder", is positioned above the printed name and title.

Stephen Ridder
Fire Protection Consultant