

AON SPRINKLER CERTIFICATION



Aon New Zealand

Aon Sprinkler Certification
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Aon Sprinkler Certification Technical Note

Note Number: 17-31	Issue: 1	Date: 13th February 2017
Subject:	Car Park Storage Lockers	
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.		

Aon has been asked to provide guidance on storage lockers as typically found in car parking areas in apartment buildings. The need to protect these areas needs to be addressed on a case by case basis.

1. If the storage lockers are in the form of a cupboard, our best recommendation would be to protect within them. This could take the form of a sprinkler within the locker. Alternative approaches could include having a wire mesh top on the lockers (it they do not extend to the height of the slab) or a wire mesh side panel, to allow sprinklers to spray within.
2. We are aware of a number of over-bonnet style lockers, where it is not practicable to protect within. In some cases, designers are attempting to apply “wardrobe and cupboard” rules, including the need to restrict to a maximum of 2m³ and to vent them. As an alternative, Aon suggests that the following can be accepted:
 - a. No internal protection and no venting.
 - b. Car park to be designed to OH3 criteria.
 - i. Protection to be fitted under the lockers (as to protect for a fire under a car bonnet)
3. The occupants should be advised not to store flammable liquids or flammable gases within these units.
4. Sprinkler design for car stackers requires assessment on a case by case basis and falls outside the parameters of this guidance note. If one of these storage units is installed into a car stacker system assessment of the specific impacts upon the existing sprinkler system will need made.
5. If the vertical clearance between the top of the unit and the plane of the sprinkler deflector is less than 500mm the unit will unduly shadow the general fire sprinkler coverage. The sprinklers at ceiling level need shifted to no longer be above the unit. The sprinklers shall be set out in all directions treating the centre of the unit as a theoretical wall.

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A handwritten signature in black ink, appearing to read 'Chris Mak', is positioned above the printed name.

Chris Mak
Technical Services Manager