



POSITION STATEMENT SUMMARY

Automated vehicle parking system/s (AVPS)

Position

Effective 29 April 2024, the following is a position of Fire and Rescue NSW (FRNSW):

FRNSW endorse the guideline [Fire Safety Requirements for Automated Vehicle Parking Systems](#) as published by the Australasian Fire and Emergency Service Authorities Council, as the appropriate guidance to practitioners who design and certify any building that incorporates an automated vehicle parking system/s (AVPS) such as a 'car-stacker'.

FRNSW consider any AVPS comprising three or more vertically stacked cars to be a special hazard under E1D17 and E2D21 of the *National Construction Code (NCC) 2022*. As such, the certifier should identify what additional provisions are being provided, if any, and whether the fire safety measures in the building are commensurate to the hazard and risk(s) associated with the proposed AVPS, when certifying any related building application.

Reference must be made to the FRNSW website to ensure this position is current at the time of use, and the position has not subsequently been superseded or revoked.

Summary

This position statement supersedes the previous position 'Automated vehicle parking system' last updated on 3 September 2022. The position has been revised for grammar and consistency with the referenced AFAC guideline [Fire Safety Requirements for Automated Vehicle Parking Systems](#).

The position statement directs building proponents to the AFAC guideline as appropriate guidance for buildings incorporating an AVPS. Proponents should note that the AFAC guideline identifies Appendix ZX5 of AS 5124 – *Safety of machinery – Equipment for power driven parking of motor vehicles – Safety and EMC requirements for design, manufacturing, erection and commissioning stages* should be normative and considered with equal regard as to the body of that Standard.

The position statement also identifies that an AVPS comprising three or more vertically stacked cars can present special problems for firefighting and suitable additional provisions should be considered for this special hazard. This requirement aligns to Clause 2.2.8 of AS 2419.1:2021 where simultaneous flow is required for both the automatic fire sprinkler and fire hydrant systems when a 'car stacker' is provided.

This position statement has been authorised for release by Chief Superintendent Fire Safety, FRNSW.

Contact us

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