

**FIRE SAFETY REQUIREMENTS FOR FULLY  
AUTOMATED MECHANISED CAR PARK (FAMCP)**

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The fully automated mechanised car park buildings (FAMCP) incorporates the revolutionary concept of parking and retrieving a vehicle by mechanical means without the driver entering the parking area. The building is therefore unmanned and is totally different from the conventional car parks e.g. car park in a multi-storey building, multi-storey car park (MSCP), etc. The main differences between the FAMCP and the conventional car parks are:-

- i) close stacking of cars one to another
- ii) lack of provision on fire separation to prevent rapid fire spread
- iii) non availability of fire fighting access
- iv) extensive height and depth involved with highly combustible load

The FAMCP buildings available in the market can be classified into three types, namely, i) small FAMCP, ii) underground FAMCP and iii) above ground FAMCP. Each type of FAMCP has its own specific fire safety requirements.

Please see Annex A for a brief description on the three types of FAMCP. The fire safety requirements are given in Annex B.