

5.16. Parking, Group A, B

- 5.16.1.** The vehicle parking in either above ground, enclosed or underground structure shall comply with **Table 3.37.** along with all other sections of this chapter. Where conflicts arise between this section and other sections of this Chapter or code, the requirements of this section shall prevail.

Table 3.37.: Parking Structure (Open, Enclosed and Robotic)

ITEMS	REQUIREMENTS
1. MULTIPLE OCCUPANCY	<ul style="list-style-type: none"> i. Parking structures within 3 m of a building shall be separated by fire barrier having a minimum 2-hour fire resistance rating. ii. Such fire separation is not required if the parking structure is separated by 3 m or more from adjacent building and is attached only via open vehicle bridge or open pedestrian walkway or balconies. iii. Repair activities inside the parking structure is permitted provided the occupancy shall not include motor fuel-dispensing facilities. iv. Any occupancy other than parking, situated in parking area shall be separated smoke resistant walls and partitions.
2. OPEN PARKING	<ul style="list-style-type: none"> i. Each parking level shall have permanent wall openings open to the atmosphere, for an area of not less than 0.4m² for each linear meter of its exterior perimeter. ii. Such openings shall be distributed over 40 percent of the building perimeter surface or uniformly over each of at least two opposing sides. iii. Interior wall lines and column lines shall be at least 20% open, with openings distributed to provide ventilation. iv. Any part of the carpark shall be within 30 m of the permanent natural ventilation opening on the perimeter surface.
3. ROBOTIC OR AUTOMATIC PARKING	<ul style="list-style-type: none"> i. The operator shall remain in the area and shall have full control of the automated facilities, including means of egress. ii. At least two means of egress remote from each other shall be provided which can be Fire Personnel access. iii. Horizontal walkways for access shall be provided at intervals of 6 m vertically and 30 m horizontally.
4. SINGLE EXIT PERMISSION	<ul style="list-style-type: none"> i. Single exit is not permitted. ii. 2 exits shall be provided from every storey or level or section as per Section 4.4., Table 3.15.b. of this chapter. iii. In 1 level below or 1 level above discharge level of parking, vehicle ramp shall be considered as one of the means of egress, provided no shutters or doors are installed in such ramps.
5. FUEL DISPENSING	<ul style="list-style-type: none"> i. Where fuel dispensing is located within parking areas, Exits shall lead to the outside of the building on the same level or to stairs, with no upward travel permitted, unless direct outside exits are available from that floor. ii. Any storey below the storey at which fuel is being dispensed shall have exits leading directly to the outside via outside stairs or doors at the finished ground level.
6. FLOORING	<ul style="list-style-type: none"> i. Floor surfaces shall be of noncombustible material. ii. Floors shall be graded and equipped with drains.
7. CARBON MONOXIDE DETECTION	<ul style="list-style-type: none"> i. Carbon monoxide detection shall be provided in all enclosed parking structures. Such CO detection system shall be electrically operated, complete with control panel and interfacing with ventilation system.
8. EXIT SIGNS	<ul style="list-style-type: none"> i. Exit signs shall be distinguishable from Vehicle Exit route and emergency Exit directions for people.