

Table 3.2: Doors (Door Assembly)

ITEMS	REQUIREMENTS
5. FORCE TO OPEN	<ul style="list-style-type: none"> i. The door assembly shall be readily operable from the egress side without special knowledge or effort. ii. The forces required to fully open any door leaf manually in a means of egress shall not exceed 67 N (15 lbf) to release the latch, 133 N (30 lbf) to set any door leaf in motion, 67 N (15 lbf) to open any door leaf to the minimum required width.
6. DOOR LEAF ENCROACHMENT	<ul style="list-style-type: none"> i. During its swing, any door leaf in a means of egress shall leave unobstructed, not less than one-half of the required width of an aisle, a corridor, a passageway, or a landing. ii. Any door, which needs to be held open, when fully open, in a means of egress shall not project more than 180 mm into the required width of an aisle, a corridor, a passageway, or a landing, unless the door leaf is equipped with an approved self-closing device and is not required to swing in the direction of egress travel. iii. All hardware for door release shall have maximum projection or obstruction as per Table 3.2.1.iii and v.
7. LOCKS AND LATCHES	<ul style="list-style-type: none"> i. Locking type Door leaves shall be arranged to be opened readily from the egress side whenever the building is occupied. ii. Locks, if provided, shall not require a tool or special knowledge or effort for operation from the egress side. And a key is immediately available to any occupant inside the building when it is locked. iii. Stair enclosure door if allows access to roof, shall allow re-entry from the roof. iv. Door latch releasing mechanism shall be located not less than 865 mm from finished floor and not more than 1220 mm from finished floor.
8. ACCESS CONTROL	<ul style="list-style-type: none"> i. A sensor shall be provided on the egress side, arranged to unlock the door in the direction of egress upon detection of an approaching occupant. ii. Door locks shall be arranged to unlock in the direction of egress from a manual release device. Such manual release device, shall be obvious without special knowledge and capable of being operated with one hand in the direction of egress. iii. When operated, the manual release device shall result in direct interruption of power to the lock —independent of the locking system electronics — and the lock shall remain unlocked for not less than 30 seconds. iv. Loss of power to the listed releasing hardware automatically unlocks the door assembly in the direction of egress. See Section 7 for Materials. v. An automatic release that is actuated with the initiation of the building fire alarm system shall be provided to unlock doors serving means of egress. vi. Every electrically operated door assembly in a stair enclosure serving more than four stories, shall be provided with manual means to unlock such stair enclosure door assemblies to allow re-entry. vii. Access control mechanism shall unlock doors automatically when there is sprinkler activation, fire protective signaling system. viii. A mechanical push button shall be provided next to the access controlled door with clear signage, which when manually operated shall unlock door within 15 seconds. The manual release device shall be readily accessible and clearly identified by a sign that reads as follows: PUSH TO EXIT. ix. Fire Alarm system's manual call points activation shall not unlock the access controlled doors.