

If a room contains more than one openable window or door, the areas of all the opening parts (doors and windows) may be added to achieve the required proportion of the floor area.

The area of opening is calculated using only those parts of the window or door which actually open. Where openings are covered with louvers or otherwise obstructed, openable area shall be based on the free unobstructed area through the opening.

Consideration should also be made to create cross ventilation within or between rooms. Openings on the two sides of each room could provide cross ventilation. For single sided rooms, two openings at different heights (one close to floor and another close to ceiling) could provide vertical air movement.

Windows and doors must also meet the thermal transfer requirements of Dubai Municipality.

The restriction on the opening of windows at higher levels is a safety consideration to remove the risk of objects or children falling from the windows.

Case study

Fig. 401.05(1) provides a floor plan of habitable and non-habitable spaces in a general residential unit. Fig. 401.05(2) provides details for window and door. Based on the floor layout and window and door details, Table 401.05 (1) provides a ratio of openable windows to floor area for each habitable space.

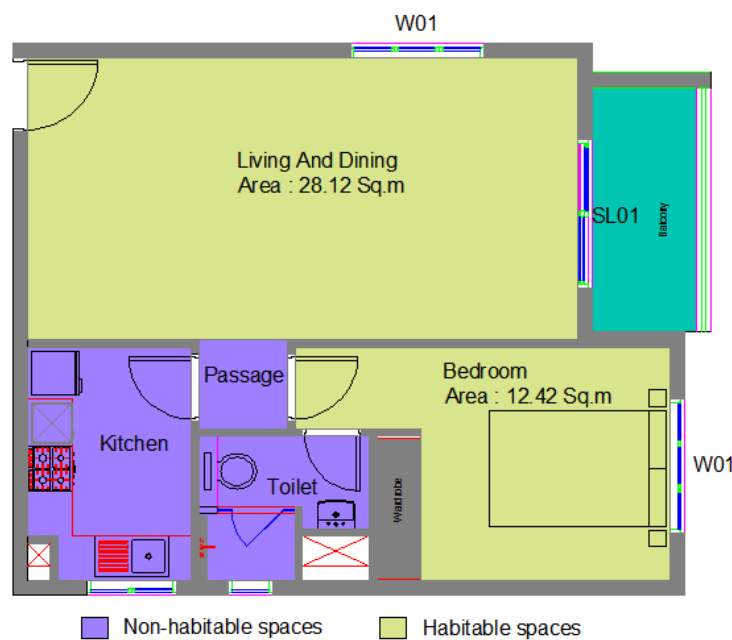


Fig 401.05(1): Sample Floor Layout

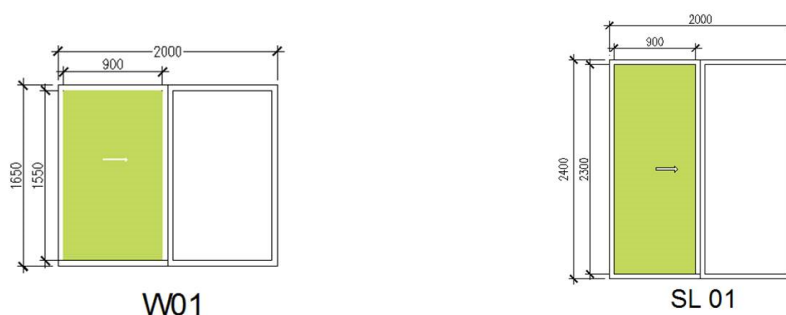


Fig 401.05(2): Window / Door Schedule