

Design Considerations

Area Requirements for Parking and Manoeuvring Bicycles

While there are many types of bicycles the standard dimension sizes stipulated by Australian Standard AS2890 that we need to design for is:

- length - 1800mm
- width - 500mm
- height - 1200mm

It should be noted that certain types of bicycles may exceed or be less (eg folding bicycle) than the standard dimensions and special provision may need to be included in designs where needed.

The revised AS2890.3 standard has introduced a bicycle envelope to minimise clashes between bicycles and to improve the functionality of BPD's (bicycle parking devices).



Vertical parking

Bicycle storage or parking can be either horizontal or vertical. In the majority of installations the bicycle will be stored or parked horizontally which, for the cyclist, is physically less demanding than the vertical option.

A new requirement of AS2890 introduced in the 2015 revision of the standard is that a minimum of 20% of all bike parking must be horizontal style parking in any bike parking facility.

With installations catering for large numbers of bicycles, a combination of both horizontal and vertical parking devices should be used to provide the most economical utilisation of space and maximising the number of bicycles that can be accommodated.

Securabike has pioneered innovative methods to achieve optimum use of available space by staggering the height position of bicycles either in horizontal racks or vertical hanging rails.

The spacing details on the following page are Securabike recommendations based on the Company's extensive experience in installing thousands of bicycle parking facilities.



Horizontal parking

Where possible, bicycle parking facilities should be designed with enough aisle space to make it easy for cyclists to use. Aisle widths should have a minimum of 1500mm except for multi-tiered racks where 2000mm is required.

(You also need to ensure you are complying with any local or central regulations).