

EasyStack

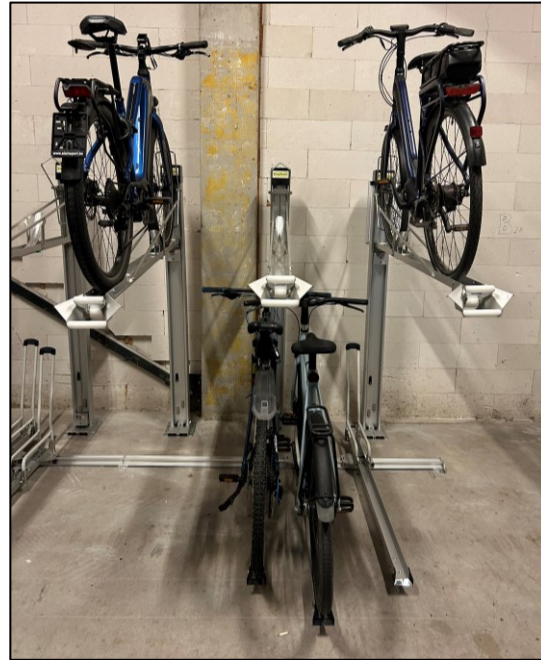
The new way of multi-storey parking

UNIQUE BIKE STORAGE PRINCIPE!!

- A unique patented vertical lift system, with which bicycles can be parked in “high” positions with virtually no effort
- Smart, laterally movable bicycle gutters for the “low” parking spaces. By moving the movable gutters to the left or right, space is created for parking the bicycles in the vertical lift system/the high positions. In addition, this dynamic center distance ensures that the bicycles can be parked comfortably in the low positions.



The new way of multi-storey parking





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Storing a bicycle in a high position

Storing a bicycle in a “high” position in EasyStack is very easy and requires virtually no effort due to the smart support system. Lifting the bicycle is unnecessary. The bicycle only needs to be driven into the horizontal upper gutter, after which the gutter moves to the “high” position by activating the lever in the handle. The lever can also be activated with the foot, which makes “bending over” unnecessary. The high parking spaces of EasyStack are based on an aluminium column, which is installed on the floor as an individual unit. This column can be set up vertically, at any angle (diagonal) and flexibly between ceiling objects, pillars or other objects. Due to the patented vertical lift system, the extendable gutter as with traditional tier racks, is a thing of the past. The relatively wide aisles required for traditional tier racks (approx. 2.2m) can therefore be narrowed to 1.45m. This flexible, modular and compact application allows efficient bicycle parking.

Removing the bicycle from a high position

Removing the bicycle is even easier. By squeezing the lever of the handle, the lock of the upper gutter is released and the gutter moves downwards with minimal effort. As soon as the gutter is in the lowest position, the bicycle can easily be wheeled out of the gutter and the “empty” upper gutter automatically moves to the high position.

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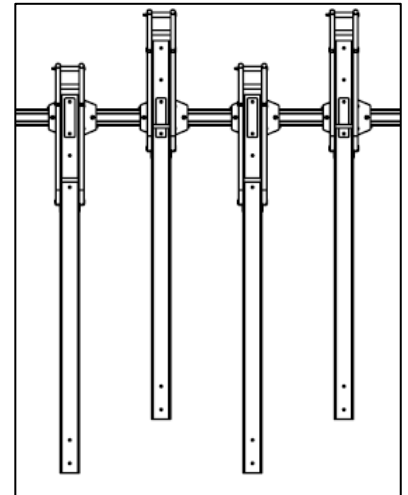
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Parking the bike in a low position

Parking a bike in a “low” position in the EasyStack is very comfortable due to the sideways movable gutters (= dynamic centre distance). These dynamic gutters make it easy to create space to park the bike without discomfort, such as snagging handlebars or cables. Every parking space is thus used effectively. The gutters are placed in a staggered manner (see image), so that the handlebars hardly/do not conflict with the handlebars of other bikes. The gutters can optionally be equipped with a tie-down facility, spacers or brake.

Removing the bike from a low position

Removing the bike from a low position is similar. The bike is released by rolling the adjacent bikes sideways, so that the bike can be ridden out of the gutter without the handlebars or cables getting snagged.



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Center distance:

- High positions: 70cm (= recommendation)
- Low positions:
 - * Row length: 2-6m: **40cm**
 - * Row length: 6m - 12m: **37,5cm**
 - * Row length: >12m: **35cm**

Example 1. – Row length: 5,7m

21 parking spots, of which:

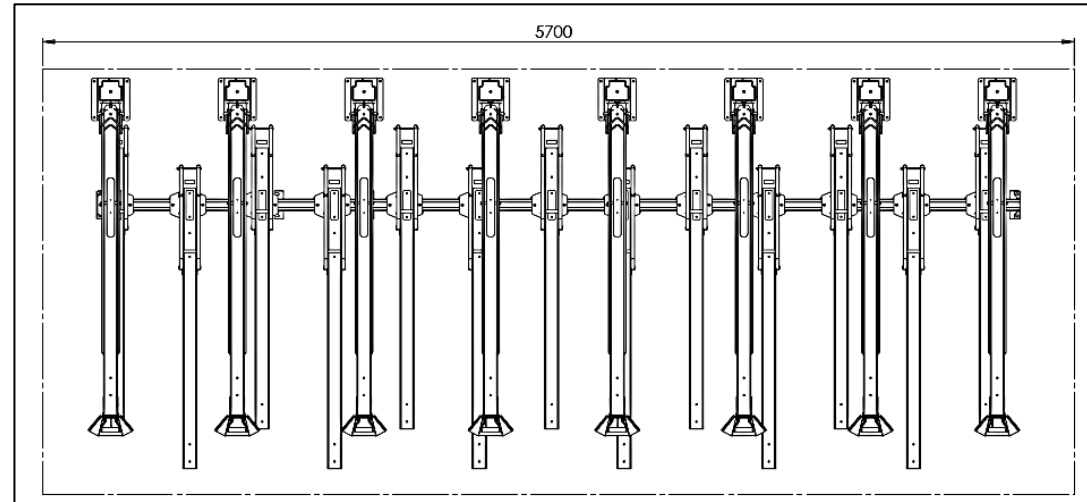
- High: 8 parking spots
- Low: 13 parking spots

Example 2. – Row length 14,1m

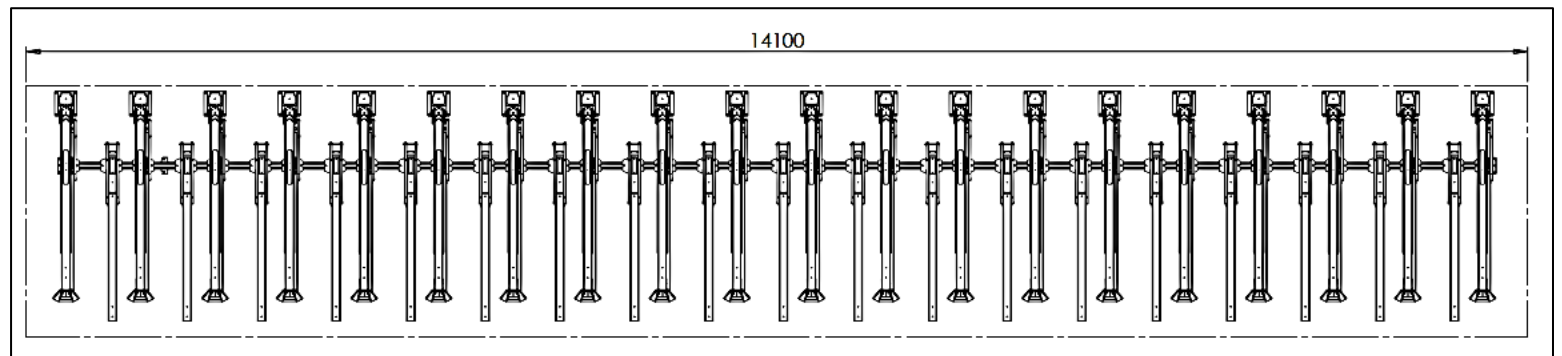
59 parking spots, of which:

- High: 20 parking positions
- Low: 39 parking positions

Example 1. 21 spots, of which 8 “high” and 13 “low”



Example 2. 59 spots, of which 20 “high” and 39 “low”



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Installation/distances

High positions/column

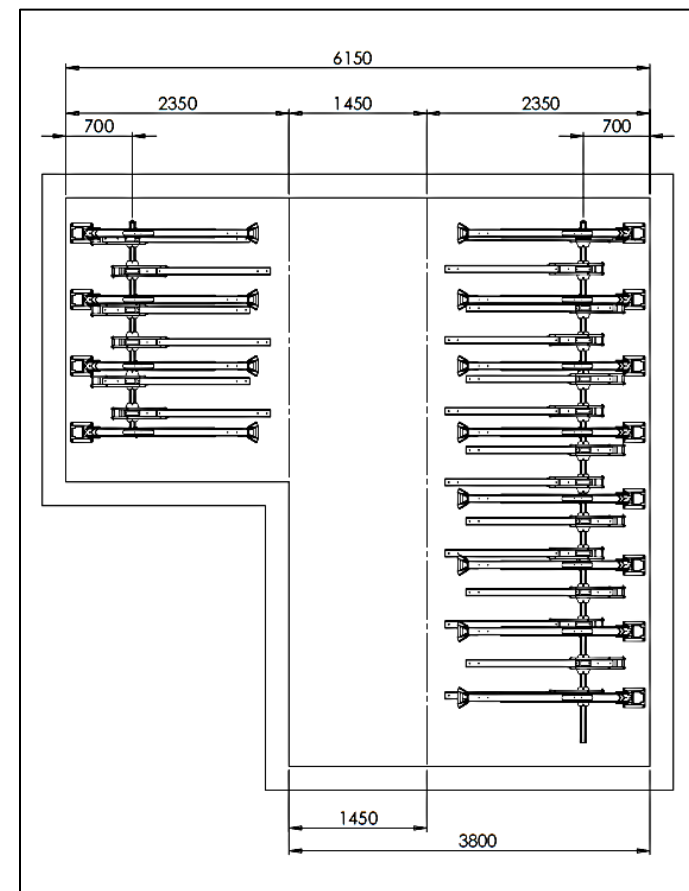
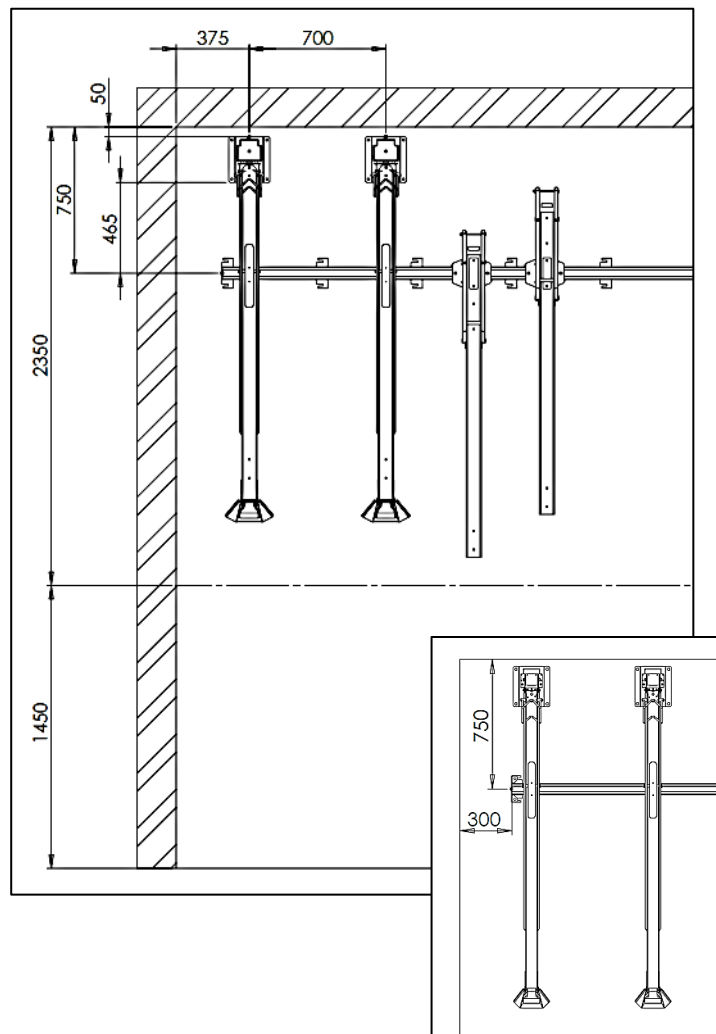
- Distance backwall: 50mm
- Distance sidewall: 375mm

Low positions

- Center distance rail to backwall 700mm
- Distance sidewall: 300mm

Required space

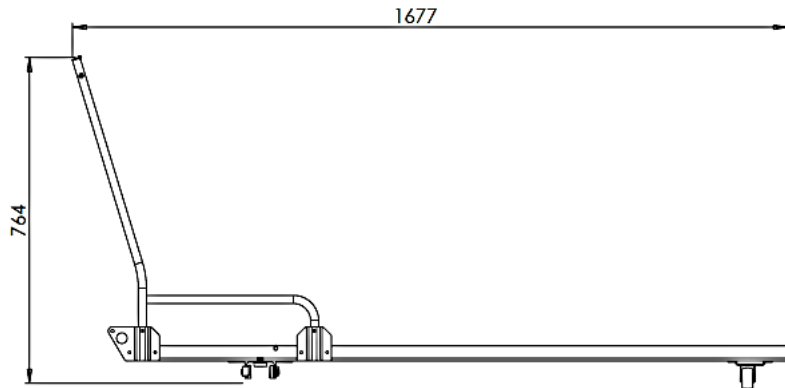
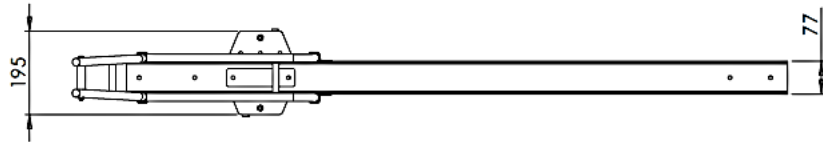
- Single-sided installation: 3,8m
- Face-to-face installation: 6,15m



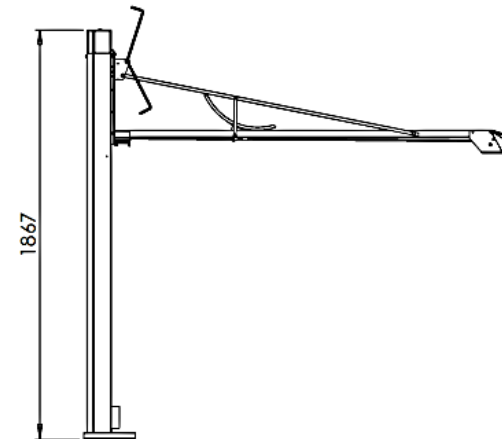
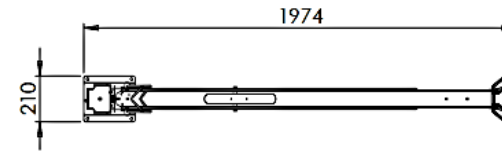


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Dimension lower gutter



Dimension column/top gutter



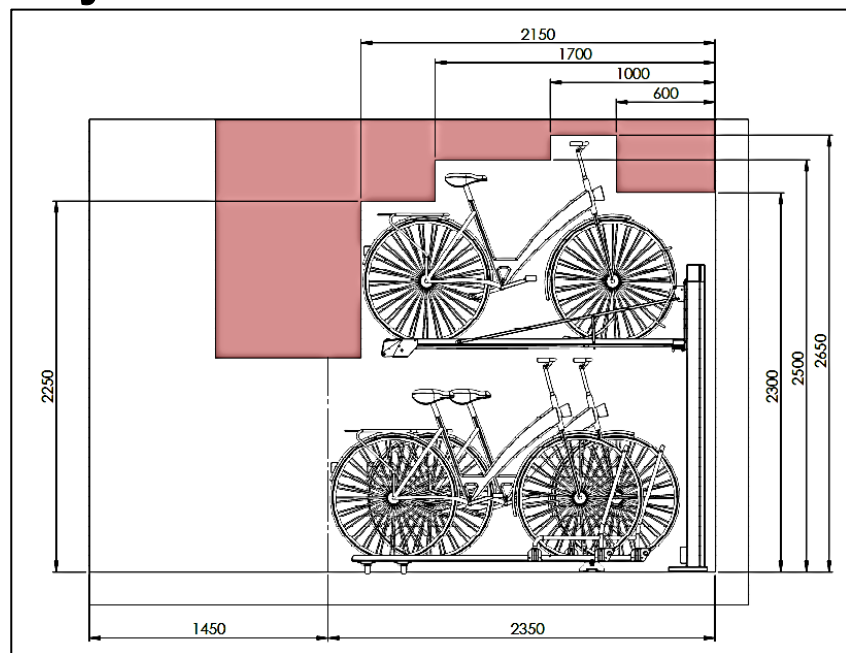
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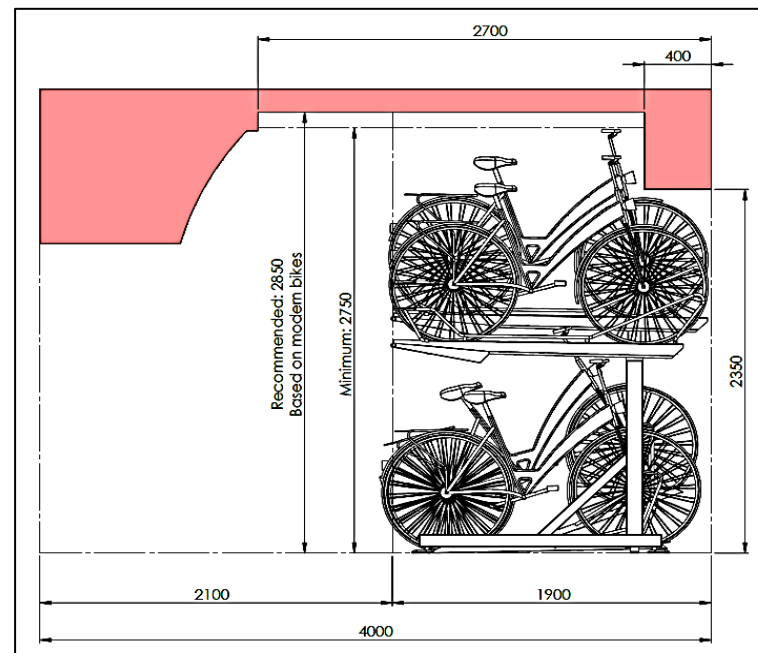
Minimum ceiling height: 2.65m

The minimum ceiling height for EasyStack is 2.65m, while for traditional two-tier racks 2.85m is recommended. In addition, the required minimum free ceiling height of EasyStack is limited to a zone of only 40cm due to the horizontal upward movement of the top gutter, see image on the left. This is the zone at the height of the bicycle handlebars, which is usually the highest point of a bicycle. For comparison: for traditional two-tier racks the minimum free ceiling height (2.85m) and applies over a length of 2.30m, see image on the right.

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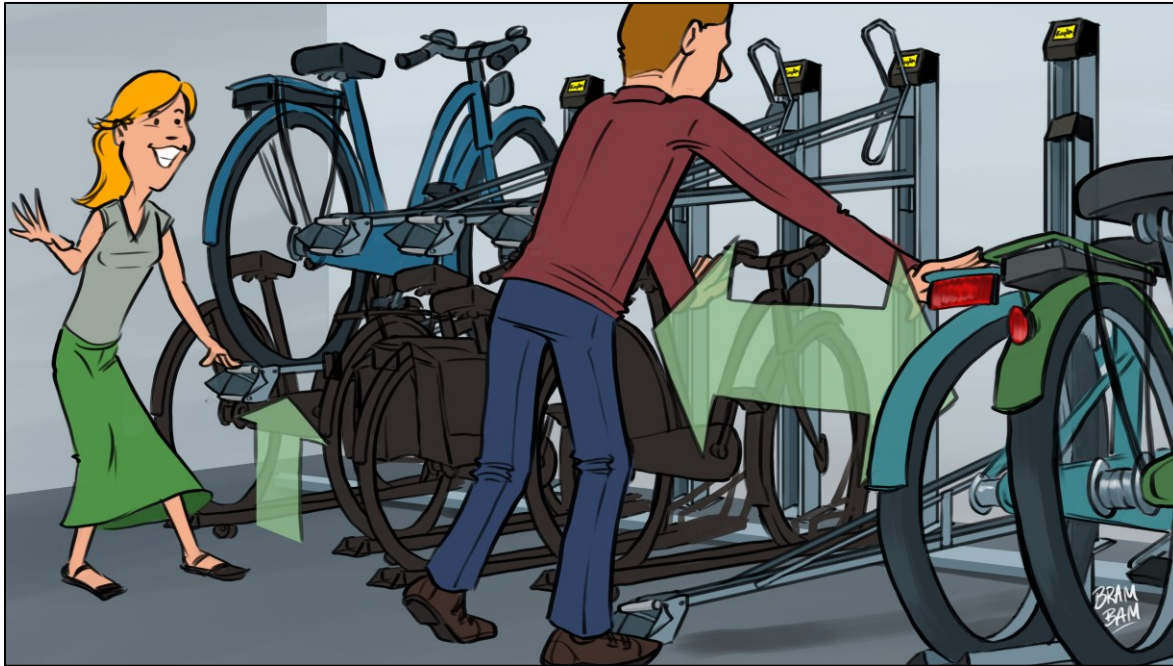
Traditional two-tier-rack



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Traditional two-tier rack



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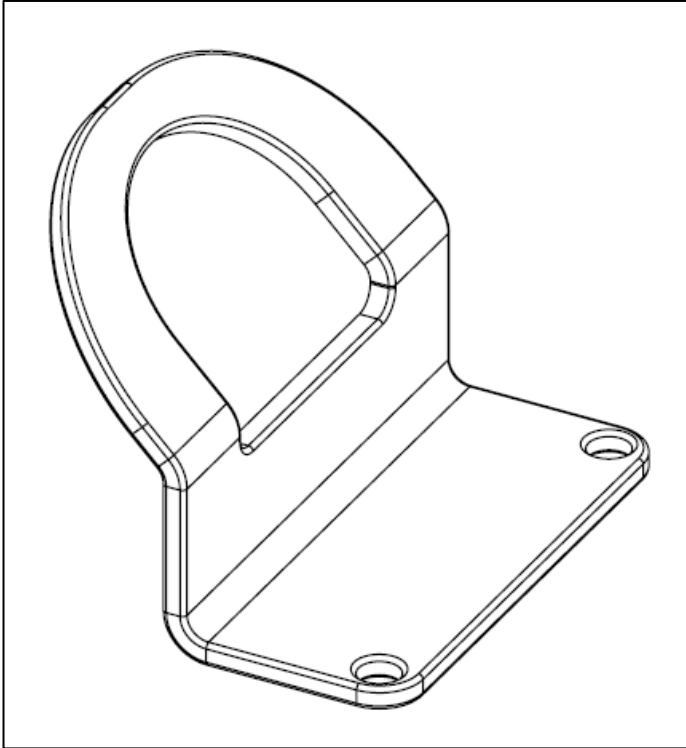
The new way of multi-storey parking

	EasyStack	Traditional two-tier rack
High positions		
Working principle	Horizontal upward moving egende gutter	Sliding gutter
Minimum required height	2,65m, just at steerwheel position (zone: 40cm)	2,85m, over a length of appr. 3m to the wall (zone: 2,3m)
Ergonomy	Bending, not necessary; optional: footactivation Virtually no effort required	Bending necessary, effort required Relatively heavy
Low positions		
Working principle	Sideward moving lower gutters	Static gutters
Functionality	No confilicts with hooking steerwheels/cables	Conflicten with hooking steerwheels and cables
Center distance		
High positions	Recommended: 70cm	37,5cm, 40cm, 50cm, 55cm
Low positions	Dynamic center distance: 30-40cm	Static center distance: 37,5cm 40cm, 50cm, 55cm
Miscellaneous		
Tyre width (max.)	70mm	Usually 50-55mm
Application	Recommended: bike shelters with regular users	No restictions, relatively heavy for elderly people/kids
Recommendation aisle width	Minimum: 1,45m	Minimum: 2,1m
Angled installation	Installation in every angle possible	Impossible

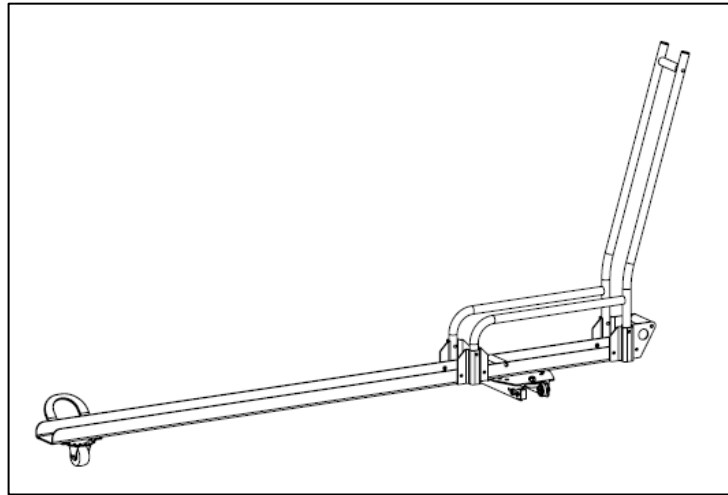
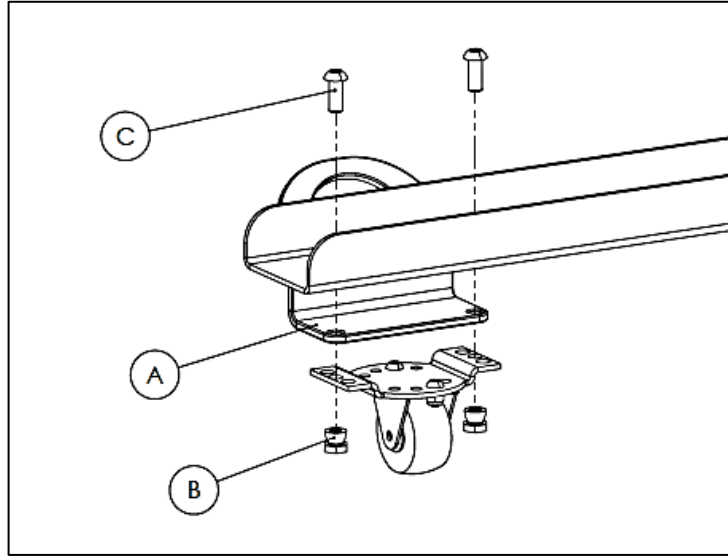


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Option: locking device

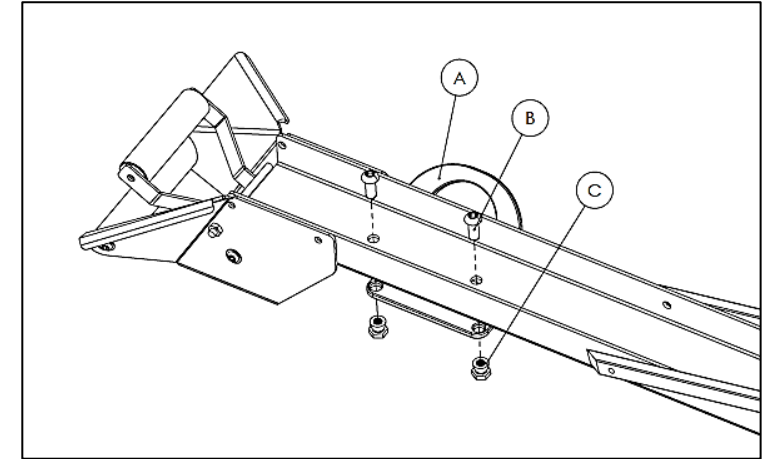
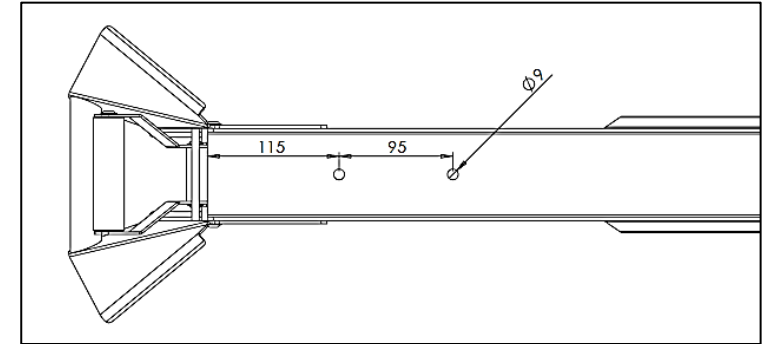


Lower gutter



Upper gutter

Drill two holes in upper gutter

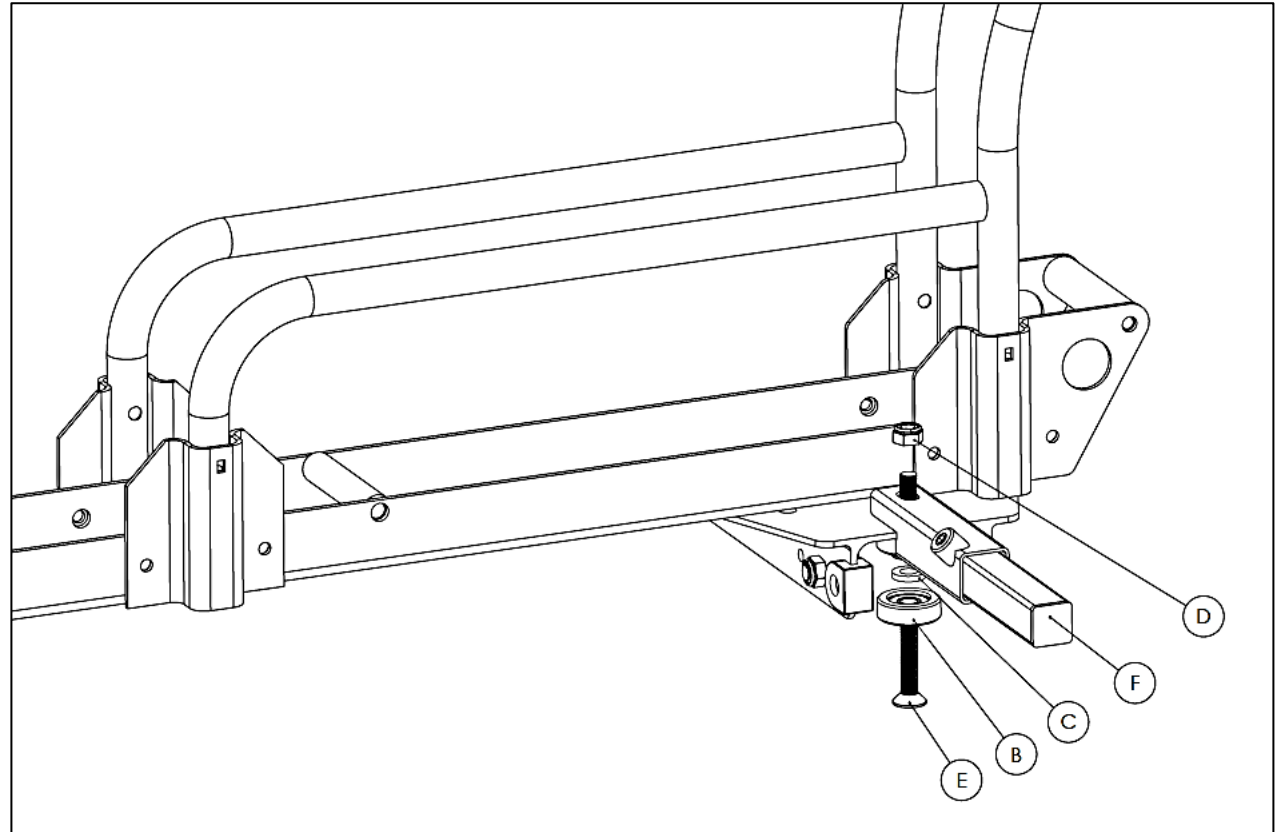
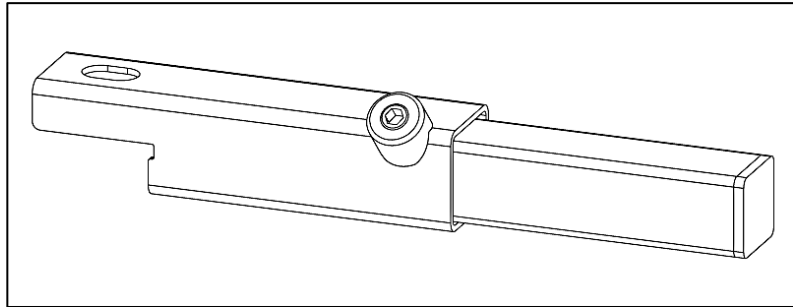




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Option: distance holder

Maximum distance: 35cm

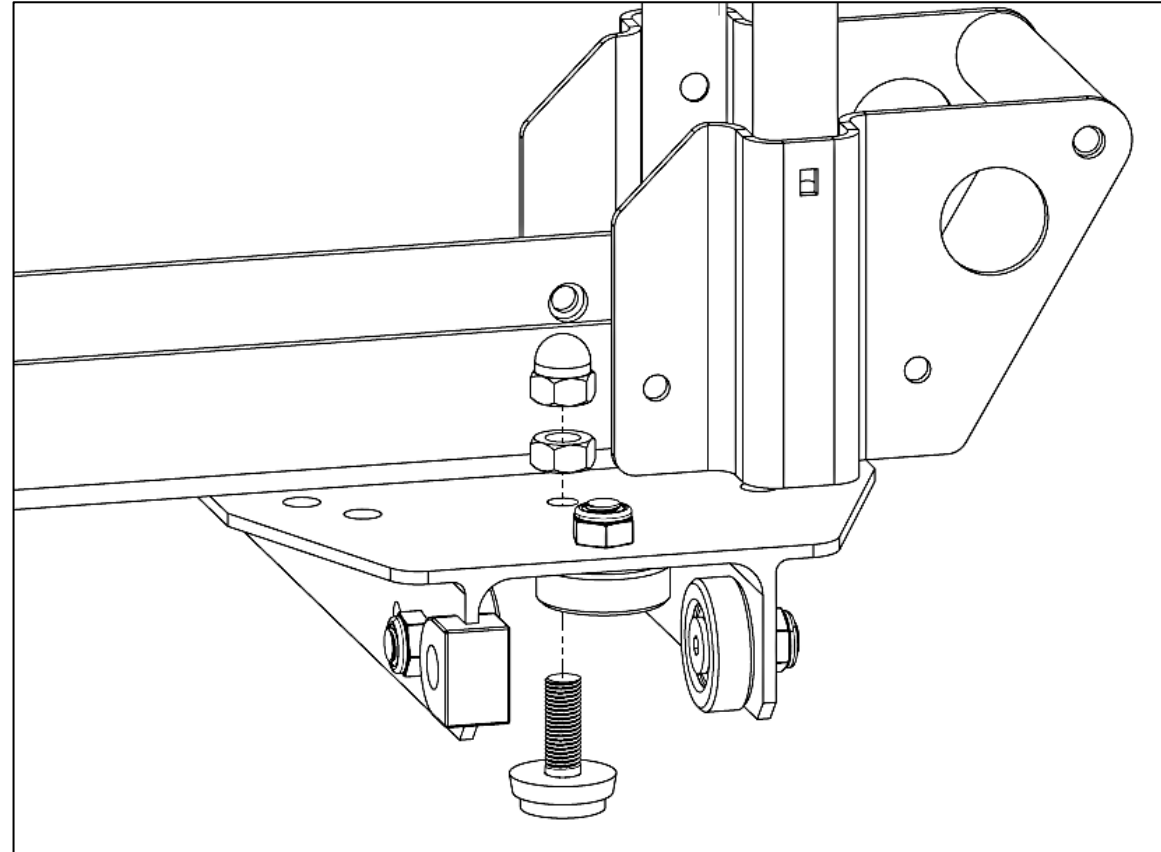
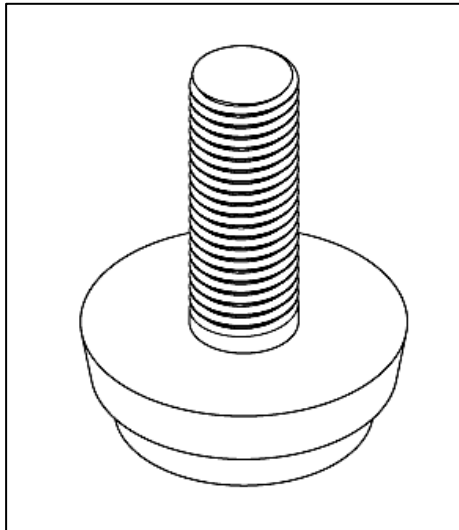




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Option: brake lower gutter

Slow down lateral movement





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Option: wall fixation

In case of unstable floor

