

Suitable for condominium and office buildings. For permanent use only!

In case of short time user (e.g. for offices, hotels, a.s.o.) technical adjustments are required. Please contact WÖHR!

Platforms are in horizontal position to drive on.

Load per platform max. 2000 kg (load per wheel max. 500 kg)

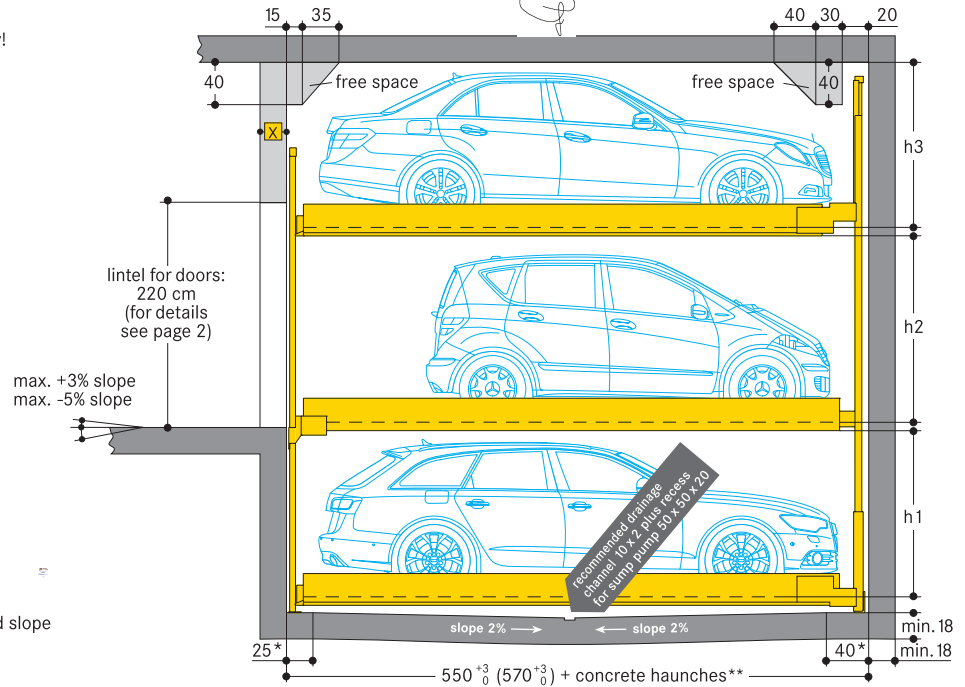
Special reinforced units for higher parking platform load are available (see 543-2,6).

X = Door offset (see page 2 for details)

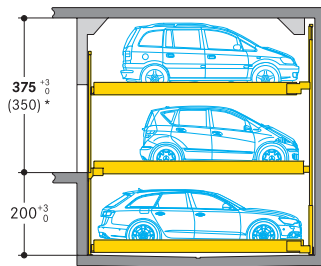
Dimensions in cm

* in this zone, 0% of downward/upward slope in longitudinal and cross direction

** see notes, point 5



Standard type 543 · 2000 kg

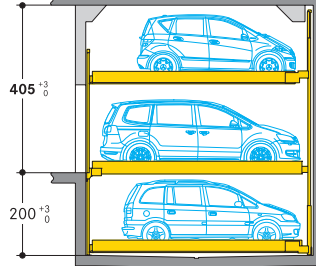


	car height	distance
UL	Cars/Station wagons up to 175 cm	h3 = 180
EL	Cars/Station wagons up to 175 cm	h2 = 180
LL	Cars/Station wagons up to 175 cm	h1 = 180

UL = upper level, EL = entrance level
LL = lower level

* If cars and station wagons with a height of up to 150 cm are parked on the upper level, a clear height of 350 cm above the entrance level is sufficient.

Comfort type 543 · 2000 kg

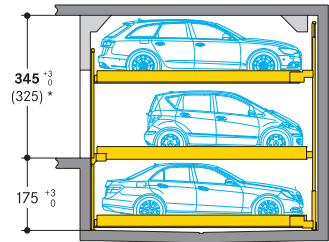


	car height	distance
UL	Cars/Station wagons up to 175 cm	h3 = 180
EL	Cars/Vans up to 205 cm	h2 = 210
LL	Cars/Station wagons up to 175 cm	h1 = 180

Cars/Vans up to 2000 kg max.

With greater h3 height-values, respectively higher cars can be parked on the upper level. Car heights cannot be greater than 205 cm.

Compact type 543 · 2000 kg

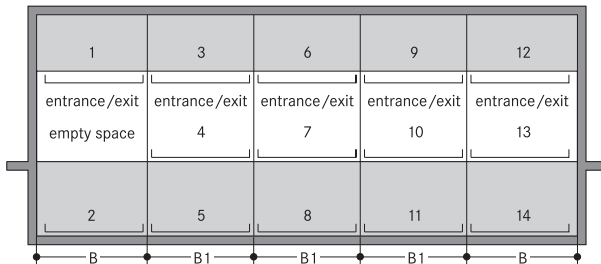


	car height	distance
UL	Cars/Station wagons up to 150 cm	h3 = 155
EL	Cars/Station wagons up to 170 cm	h2 = 175
LL	Cars/Station wagons up to 150 cm	h1 = 155

* If cars and station wagons with a height of up to 150 cm are parked on the entrance level, a clear height of 325 cm above the entrance level is sufficient.

Please attend to restricted car- and platform distance height!

Width dimensions



Space required	gives clear platform width	
B	B1	
260	250	230
270	260	240
280	270	250
290	280	260
300	290	270

One entry/exit is required on entrance level for each grid.

Notes

- Pits must always be protected by a sliding shutterdoor (even in underground garages).
- Arrangements start with 2 grids for 5 cars, 3 grids for 8 cars.
- Installation length of 550 cm for car length of a max. of 500 cm. Clear platform width of 250 cm for car widths of 190 cm. For large touring sedans we recommend a clear platform width of at least 260–270 cm.
- For large touring sedans an installation length of 570 cm is recommended. This length offers larger safety distances for potential future developments or projects with short term parkers such as hotels or similar.
- It is not possible to have channels or undercuts and/or concrete haunches along the pit's rear and front floor-to-wall joints. In the event that channels or undercuts are necessary, the pit length needs to be increased based on the dimensions of said channels or undercuts.
- The manufacturer reserves the right to construction or model modifications and/or alterations. Furthermore, the right to any subsequent part modification and/or variations and amendments in procedures and standards due to technical and engineering progresses in the art or due to environmental regulation changes, are also hereby reserved.

Doors

According EN 14010, the Comblift 543 must be closed with shutterdoors. The door controls are integrated in the overall system. That means:

- The doors are electro-mechanically interlocked.
- The doors can only be opened when the selected parking place has reached the entry/exit position.
- Any pits are closed in the entrance area.

Local requirements for electrical doors regarding the technology, maintenance and revision are not subject of our delivery. These matters have to be observed and carried out by the customer, according to the local regulations.

Door types:

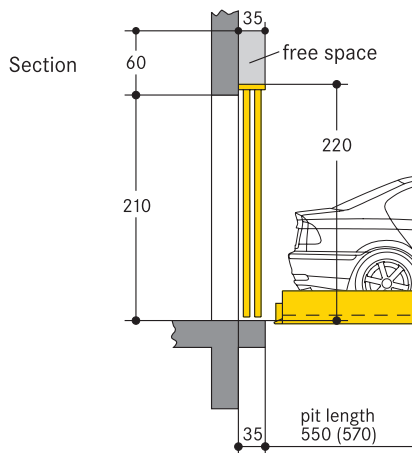
Manually operated sliding shutterdoors

- for underground garages with galvanized fence filling
- above ground with powder coated metal sheets (RAL 7030)

Alternatively, sliding shutterdoors can be supplied with electrical drive.

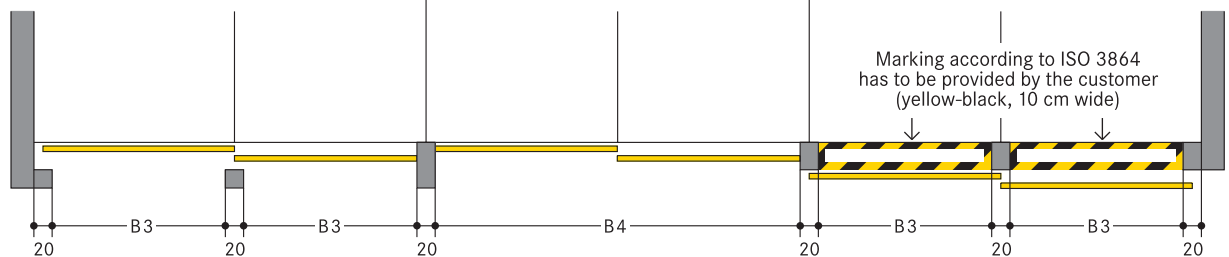
Installation:

Behind the building pillars with door offset



- = 25 cm for manually operated sliding shutterdoors
- = 35 cm for automatic shutterdoors

Ground plan



Space required		Gives clear platform width
B3	B4	
230	480	230
240	500	240
250	520	250
260	540	260
270	560	270

* The lintel of 220 cm is absolutely necessary. With differing heights, additional fixings are required at a surcharge. If no lintel is provided, the gates need to be fitted onto a steel frame (subject to surcharges).

Sliding door floor guides in underground garages

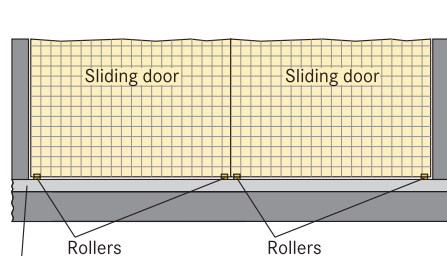
The evenness or flatness of the floor in the bottom floor guide section is required to comply with the DIN 18202, Table 3, line 3, standard requirements.

The bottom floor guides are constituted by plastic rollers, locked down onto floor mounted base plates.

Dowel borehole depth to be approx. 9 cm.

Note: In the event that floor filling needs to be laid into the door section to the purpose of reaching the required floor evenness, the borehole depth needs to be increased by the thickness of the floor fill (for a max of 4 cm).

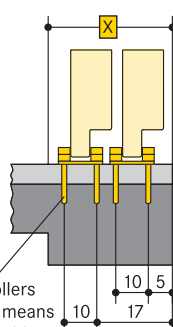
Front view



Finished floor level compliant to DIN 18353, floor evenness compliant to DIN 18202 table 3, line 3.

Locking down of the rollers onto the base plate by means of an adhesive anchor with an M8 internal screw thread.

Section



Sliding door floor guides in above ground garages

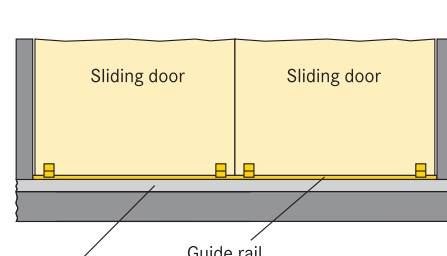
The evenness or flatness of the floor in the bottom floor guide section is required to comply with the DIN 18202, Table 3, line 3, standard requirements.

The bottom floor guides are constituted by guide rails, locked down onto the floor.

Dowel borehole depth to be approx. 8 cm.

Note: In the event that floor filling needs to be laid into the door section to the purpose of reaching the required floor evenness, the borehole depth needs to be increased by the thickness of the floor fill (for a max of 4 cm).

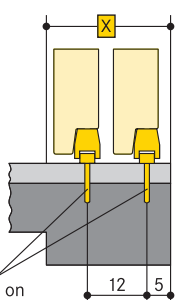
Front view



Finished floor level compliant to DIN 18353, floor evenness compliant to DIN 18202 table 3, line 3.

Guide rails to be fixed on using S 10 hexagon head wood bolts and plastic expansion dowels.

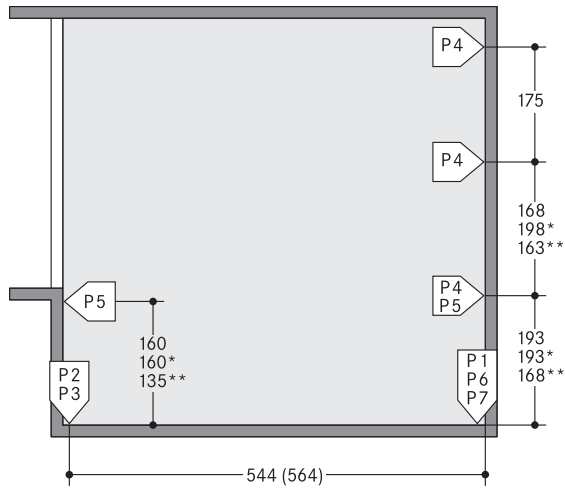
Section



Width dimensions and statics

All dimensions shown are minimum. Constructional tolerances must be taken into consideration. All dimensions in cm.

Section



() dimensions in brackets for longer units
 * dimensions for comfort type
 ** dimensions for compact type

P1 = +70,0 kN¹⁾
 P2 = +49,0 kN
 P3 = +25,0 kN
 P4 = ± 5,0 kN
 P5 = ± 2,5 kN
 P6 = ±30,0 kN
 P7 = ± 15,0 kN

¹⁾ all static loadings include the weight of the car

Bearing loads are transmitted by wall plates with min. 30 cm² surface and to the floor by base plates with min. 350 cm² surface.

Wall and base plates to be fixed by heavy duty anchor bolts to a drilling depth of 10-12 cm. When fixing to the waterproof concrete floors chemical anchors are employed (to be advised by WÖHR).

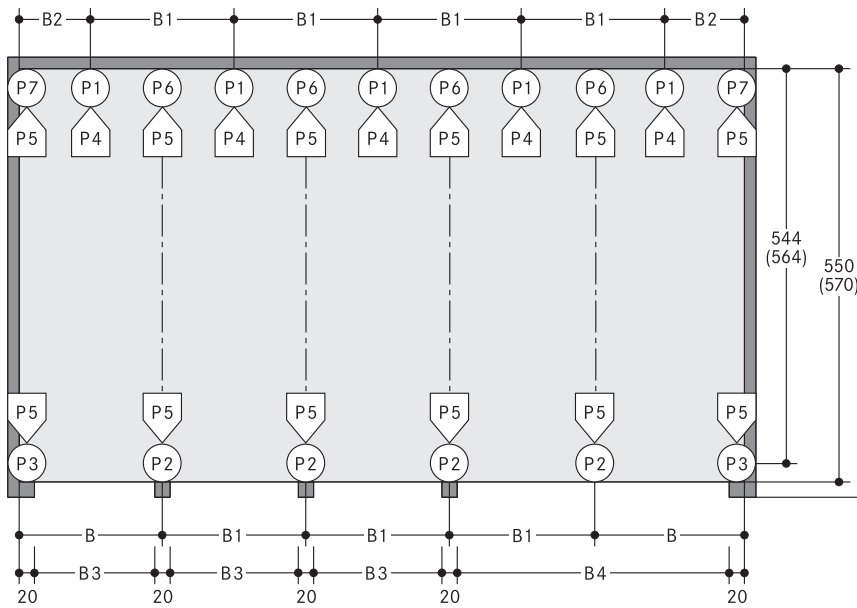
Base plate thickness min. 18 cm. Rear wall and base plate must be formed of concrete and must have a flat surface without protrusions.

Concrete quality according to the static building requirements, however for the dowel fixing concrete quality of min. C20/25 is required.

The specified lengths to the support points are mean values. Please contact WÖHR Agent for exact positions for any variations on the standard units.

Please contact WÖHR Agent for clarify the door widths/widths of columns. Grid width of 250/260/270/280/290 cm must be observed.

Ground plan



↑
 The driving aisle width to be compliant with country regulations locally in force.

B	Space required				gives clear platform width
	B1	B2	B3	B4	
260	250	135	230	480	230
270	260	140	240	500	240
280	270	145	250	520	250
290	280	150	260	540	260
300	290	155	270	560	270

Notice:

If the width of the pillars is more than 20 cm, than the width of the drive through will be reduced accordingly to the above mentioned width dimensions. In order to avoid this, we recommend to extend the measures between the pillars (B3 and B4) accordingly. Please contact WÖHR.

