

# Data Sheet Wöhr Combilift 551-2,0

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!

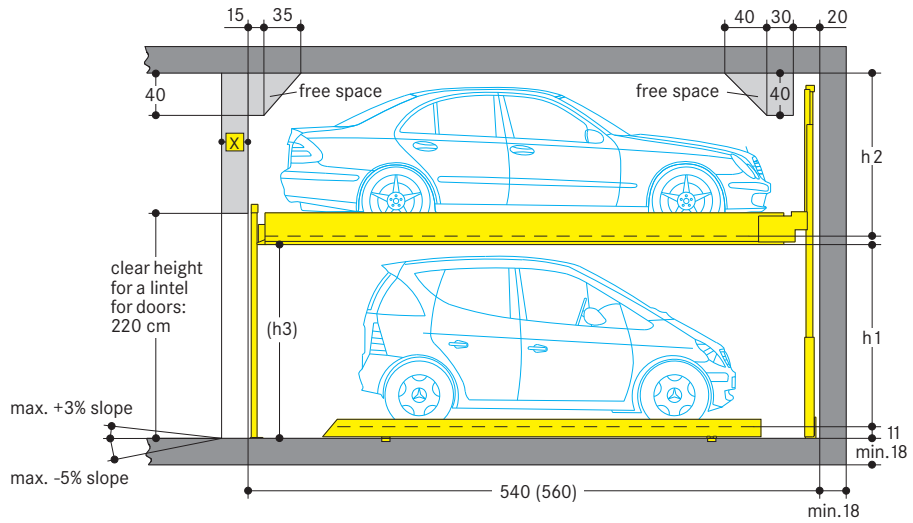
Platforms are in horizontal position to drive on.

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

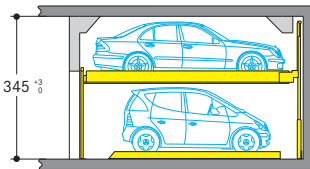
Special reinforced units for higher platform loadings are available (see 551-2,6).

**X** = to be clarified with door supplier.

Dimensions in cm



## Standard type 551 · 2000 kg



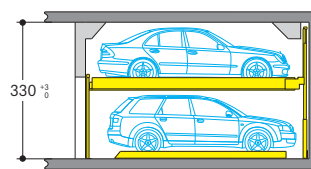
	car height	distance
<b>UL*</b>	saloon/estate cars up to 150 cm	h2 = 153
<b>EL*</b>	saloon/estate cars up to 165 cm	h1 = 170

With the greater h2 height, higher cars can be parked. The car height must not exceed 165 cm. Access height h3 = 181 cm.

\* UL = upper level, EL = entrance level

Please attend to restricted car heights on upper platforms!

## Economic type 551 · 2000 kg

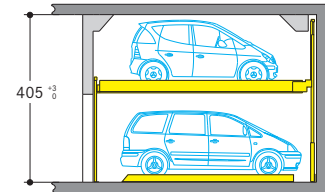


	car height	distance
<b>UL</b>	saloon/estate cars up to 150 cm	h2 = 153
<b>EL</b>	saloon/estate cars up to 150 cm	h1 = 155

Access height h3 = 166 cm.

Please attend to restricted car- and platform distance height!

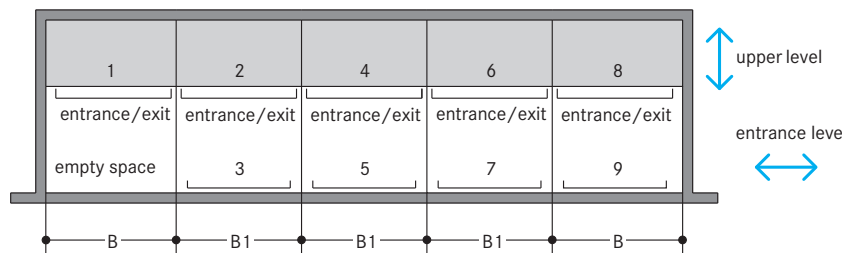
## Comfort type 551 · 2000 kg



	car height	distance
<b>UL</b>	saloon/estate cars up to 175 cm	h2 = 178
<b>EL</b>	saloon cars and vans up to 200 cm and max. 2000 kg	h1 = 205

With the greater h2 height, higher cars can be parked. The car height must not exceed 200 cm. Access height h3 = 216 cm.

## Width dimensions



In each grid a entrance/exit is necessary.

Space required	gives clear platform width UL	gives clear platform width EL
B	230	207*
B1	240	217*
260	250	227*
270	260	227*
280	270	227*
290	270	227*
300	270	227*

\* the space to get in and out of the car for platforms in entrance level is increased by 35 cm driver side.

## Notes

- For standard version no doors are necessary. Doors can be installed either for manual or automatic opening.
- Arrangements start with 2 grids for 3 cars, 3 grids for 5 cars.
- Car length max. 500 cm with an installation length of 540 cm, car width 190 cm. In case of special platform widths narrower than 230 cm respectively, the maximum vehicle width is reduced accordingly.
- For very large cars an installation length of 560 cm is recommended. This length offers larger safety distances for potential future developments or projects with short term parkers such as hotels or similar.
- In front of each grid a 10 cm wide, yellow-black marking according to ISO 3864 has to be provided by the purchaser (see "statics and construction requirements" on page 3).
- It is not possible to have channels or undercuts and/or concrete haunches along the floor-to-wall joints. In the event that channels or undercuts are necessary, the system width needs to be reduced or the installation width needs to be wider.
- The manufacturer reserves the right to modify or alter above specifications.

## Evenness tolerances

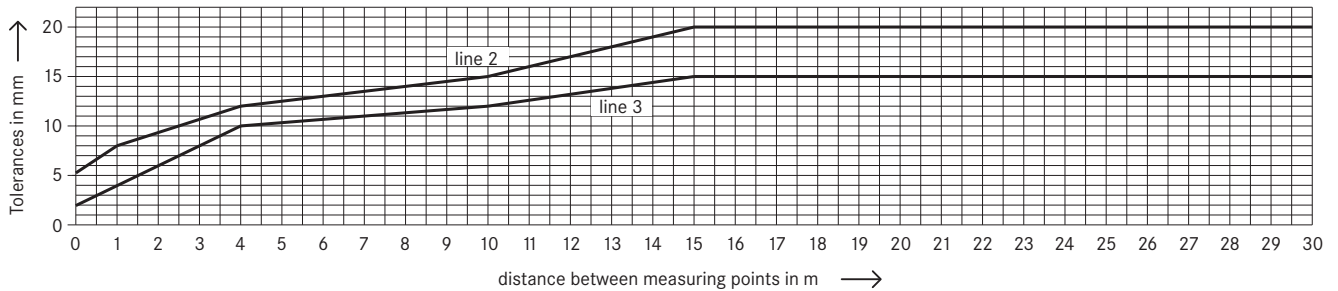
According to EN 14010 the danger of trapping between nonparallel platforms edges and the ground has to be prevented. The distance between the lower flange of the platforms and the garage ground must therefore not exceed 2cm.

To adhere to the safety regulations and to get the necessary even ground, the tolerances of evenness to DIN 18202, table 3, line 3, must not be exceeded. Therefore exact levelling of the ground by the client is essential.

## Abstract from DIN 18202, table 3

column	1	2	3	4	5	6
line	reference	Vertical measurements as limits in mm with measuring points distances in m to*				
		0,1	1	4	10	15
2	Unfinished to surface of covers, subconcrete and subsoils for higher demands, e.g. as foundation for cast plaster floor, industrial soils, paving tiles and slabstone paving, compound floor paving. Finished surfaces for minor purposes, e.g. warehouses, cellars	5	8	12	15	20
3	Finished grounds, e.g. floor pavement serving as foundation for coverings. Coverings, tile coverings, PVC flooring and glued coverings.	2	4	10	12	15

\* Intermediate values are to be taken out the diagram and must be rounded-off to mm.



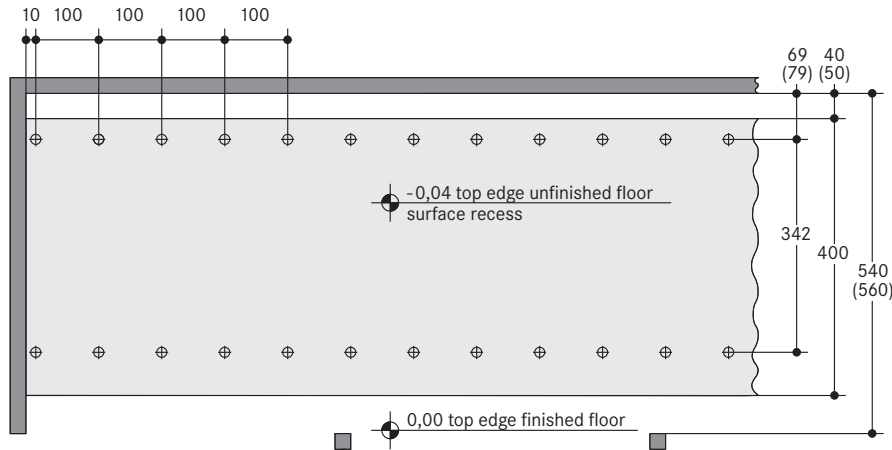
## Check points

The evenness of a surface is checked independently of its position and slope by bore hole gauges between two check points on the surface. WÖHR normally make a random test using single measurements in case of obviously inaccurate surfaces.

For uniform examination of the evenness of the ground surface the following points are defined as measuring and check points:

- a) for surface recess
- b) for finished floor.

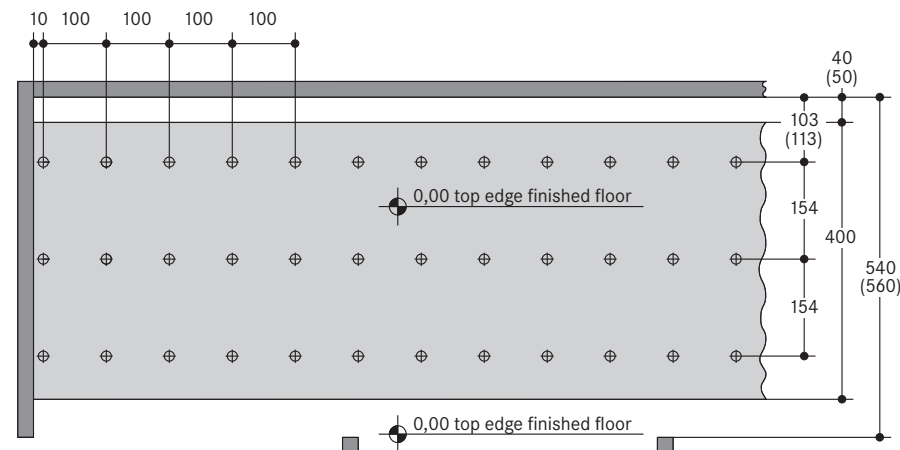
### a) Layout for surface recess width 4m



⊕ Measuring points at 100 cm points for checking the unevenness acc. to DIN 18202, table 3, line 2, or acc. diagram

( ) dimensions in brackets for increased length

### b) Layout for finished floor after placing floor pavement



⊕ Measuring points at 100 cm points for checking the unevenness acc. to DIN 18202, table 3, line 3, or acc. diagram

( ) dimensions in brackets for increased length

## Track Installation · Flooring works · Drainage

The moving rail load of each platform wheel is max. 6 kN.

The evenness of the floor + screed must be achieved according to DIN 18202, table 3, line 2. After checking the floor + screed the levelling rails are mounted on top of the highest point.

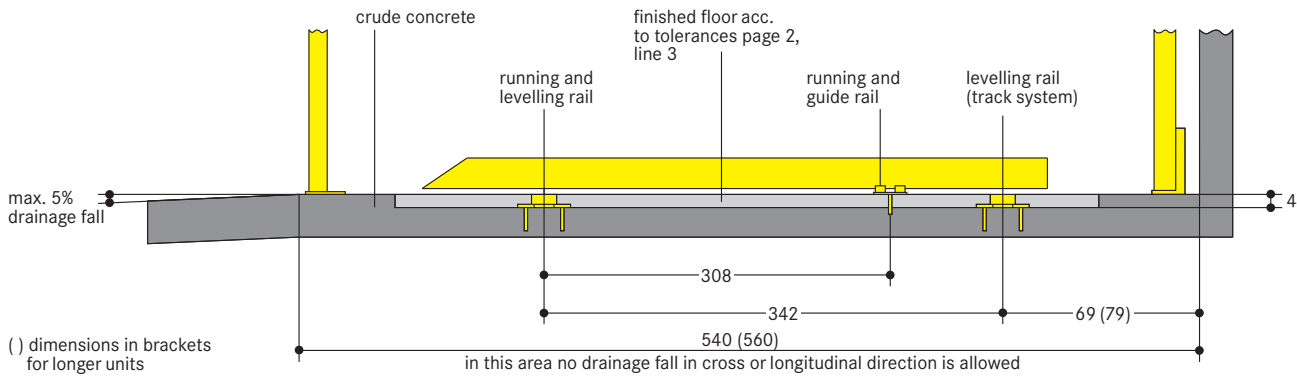
The underlining and fixing of the levelling rails occurs at the intended fixing points. For the laying of the running and levelling rails a meter tear is to be attached permanently for every railway track by the client.

The screed is to be peeled off by the client on height of the levelling rails. Do not use mastic asphalt.

The running and guide rails are fastened after placement of the screed with bolts. Evenness according to DIN 18202, table 3, line 3.

In the area of the railway track no expansion gap or building dividing gaps are allowed.

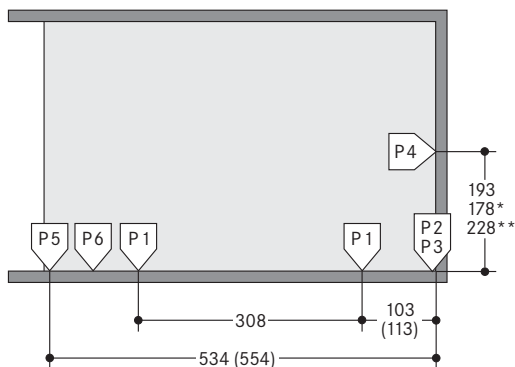
Due to the technical requirements there is no drainage fall allowed in the area of the system.



## 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 economic type

\*\* dimensions for comfort type

P1 = + 6,0 kN<sup>1)</sup>

P2 = - 10,0 kN

P3 = + 25,0 kN

P4 = ± 1,0 kN

P5 = + 9,0 kN

- 7,0 kN

P6 = - 1,0 kN

<sup>1)</sup> all static loadings include the weight of the car

Bearing loads are transmitted by wall plates with min. 30 cm<sup>2</sup> surface and the floor by base plates with min. 350 cm<sup>2</sup> surface.

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

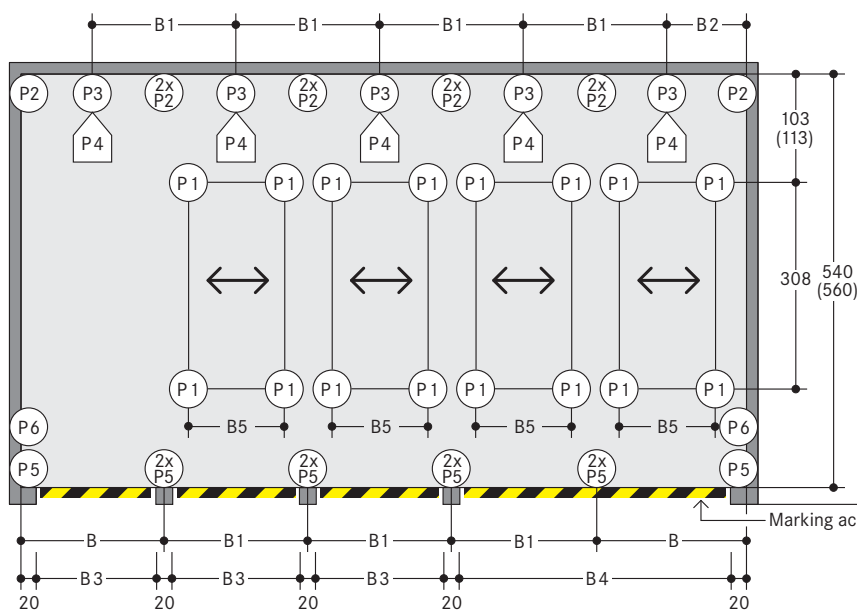
Base plate thickness min. 18 cm. Rear wall and base plate must be formed of concrete and must have a flat surface without protrusions.

Concrete quality according to the static requirements of the building, but for the dowel fastening we require a concrete quality of min. C20/25.

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



B	Space required				gives clear platform width	
	B1	B2	B3	B4	EL (B5)	UL
260	250	135	230	480	207	230
270	260	140	240	500	217	240
280	270	145	250	520	227	250
290	280	150	260	540	227	260
300	290	155	270	560	227	270

Minimum driveway width according to local requirements

