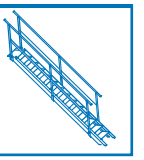
3 3.5. CONSTRUCTION STAIRCASES AND LADDERS



SAFETY TECHNOLOGY

ROBUSTA-GAUKEL GMBH &CO.KG

Customised solutions for constructions

3 SAFETY TECHNOLOGY

CONSTRUCTION STAIRCASES AND LADDERS

General information:

- **serves as a safe ascent and descent on building sites**
- **for an economical set up of temporary staircases**
- **highest safety at any time due to horizontal stairs – independent of the obliquity of the staircase**
- **variable adaption to different room heights**
- **low weight due to aluminium construction**
- **guard rails insertable on both sides independent of the obliquity**
- **ready to use, assembled within a few minutes**
- **stairs made of anti-slip corrugated sheet**
- **available in two different lengths**
- **staircases usable for obliquities up to 60°**

On building sites all actions regarding security and possibilities of climbing must be adapted steadily to the different situations due to the progress on site.

The use of ladders or self mounted wooden staircases may seem to be safe. The building authorities noted in building construction approx. 9000, partly very heavy, accidents with ladders. In industrial branches even approx. 26.000 accidents were noted in 2007.

Yet not always scaffolding, stair towers or working platforms can be used as a safe alternative possibility.

When a safe and secure stand or hold is not possible while transporting items and working equipment on site, the danger of a fall is high.

With the development of our staircases and ladders, available in two different lengths, with horizontal stairs and guard rail, we have defused these risky situations.

The steps and stairs will adjust themselves always in a horizontal position because of the approved parallelogram-shifting of the longitudinal girders, independent of the obliquity of the staircase or ladder.

A safe and comfortable stand, and with the guard rails also a secured hold, is always guaranteed.

For a safe overcoming of different levels during construction stages and to ease all working processes, also for the transport of equipment from floor to floor.

Easy and space saving stacking for transportation and storing

Construction staircases

With the self adjusting staircase a universal and safe construction is available.

Already during working at the foundation a safe descent into the cavity is guaranteed by simple laying onto the slope.

When using the staircase you reach the highest standard in security, because the mounting without square timbers or boards is much faster. The upper support angle will be placed on a stable edge and secured with dowels or nails against shifting.

When placing the longitudinal girders on the floor all stairs will automatically be adjusted horizontal because of the parallelogram-shifting, independent of the angular position of the staircase!

The one-part guard rail is inserted into the sleeves in no time, with a second guard rail a safe handrail can be installed on both sides if necessary. That means that in a few minutes a complete staircase is installed.

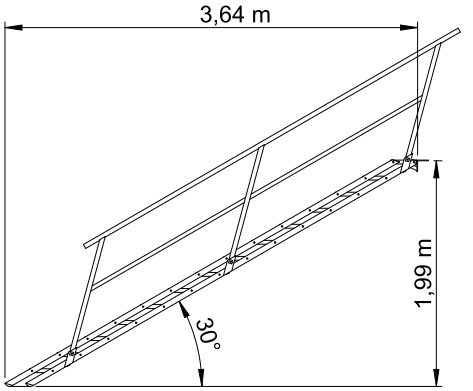
Best for renovations:

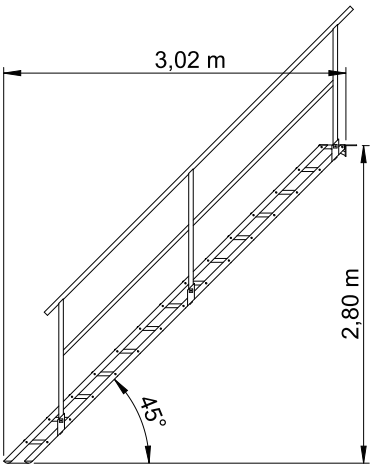
because of the low weight of the aluminium construction of 70 kgs the staircase type T14 with 14 steps can easily be carried and installed by 2 men.

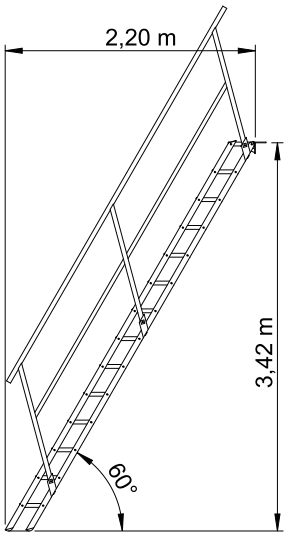
Examples: installation measurements at different angles of inclination

The staircases can be used already for a flat angle of inclination from approx. 20°, the steepest setting angles approx. 60°.

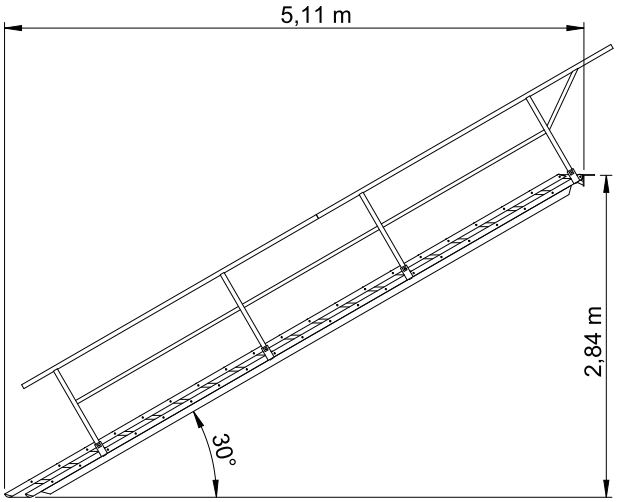
Construction staircase T14

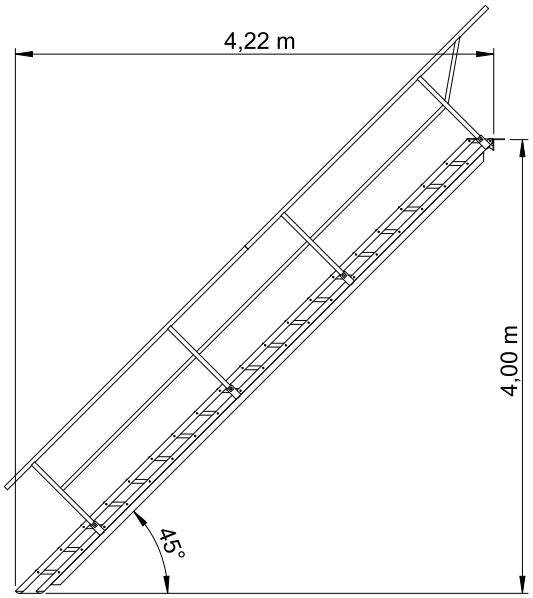


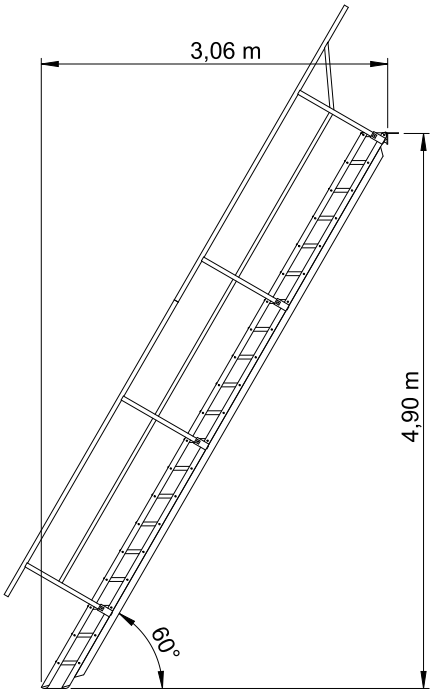




Construction staircase T20



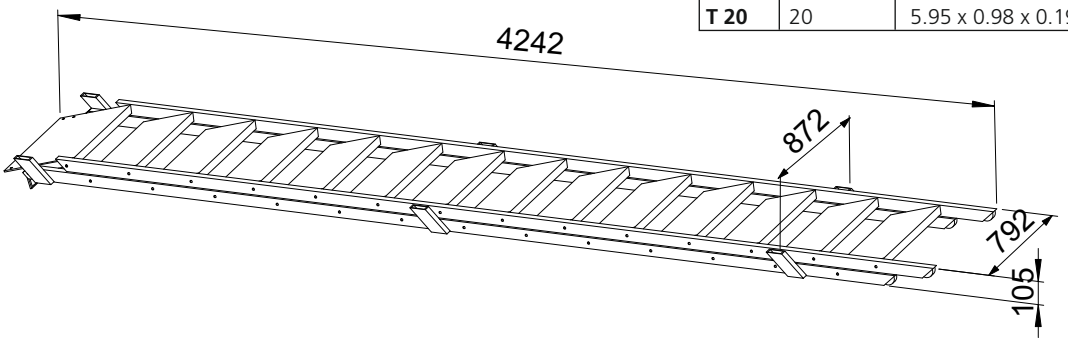


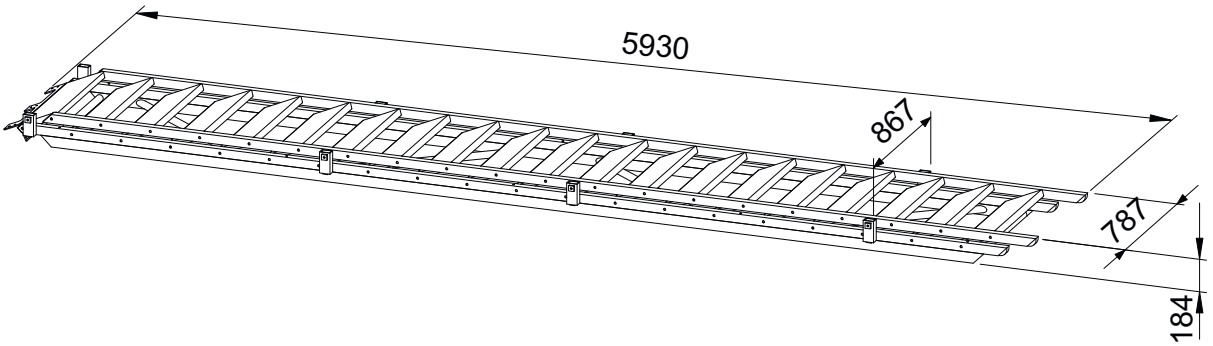


TECHNICAL DATA:

Aluminium stairs, height-adjustable

Type	No. of stairs	Sizes L x W x H [m]	Weight [kg/unit]	Item No.
T 14	14	4.25 x 0.98 x 0.10	66.0	351400
T 20	20	5.95 x 0.98 x 0.19	105.0	352000





Handrail to insert

For type	Sizes L x W x H [m]	Weight [kg/unit]	Item No.
T 14	4.50 x 0.85 x 0.05	6.0	351410
T 20	6.00 x 0.90 x 0.05	9.0	352010