



TAS - TEMPORARY ACCESS STAIRS AND STAIRCASES

PROJECT > PRODUCTION > ASSEMBLY



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TAS SYSTEM

GENERAL INFORMATION

A safe solution that makes a great alternative to usually built, makeshift wooden structures. Modularity and universal purpose allows to use the product wherever there is a need of safe overcoming small and significant level differences.

The main benefit of using TAS stairs is that they can easily be assembled again without losing its performance properties. Additionally, they have smooth angle regulation for better adjustment to required conditions.

What differentiates our product on the market are yellow-painted handgrips.

TAS SYSTEM APPLICATIONS:

- As temporary stairs – to overcome small and significant differences in ground level of various pitches (excavations, banks, building tiers)
- As temporary gangway – for road works and construction site excavations and to overcome trenches
- As staircases – to overcome level differences (buildings, deep foundation excavations e.g. underground parking lots)
- As temporary step-over platform - to overcome small obstacles like walls or excavations
- Scaffolding stairs - TAS stairs variant equipped with special chucks making it possible to assemble the stairs on a scaffold



STEEL

usable width 700 or 1000 mm
temporary stairs
gangways (up to 8 metres)
scaffolding stairs
step-over platform
staircases



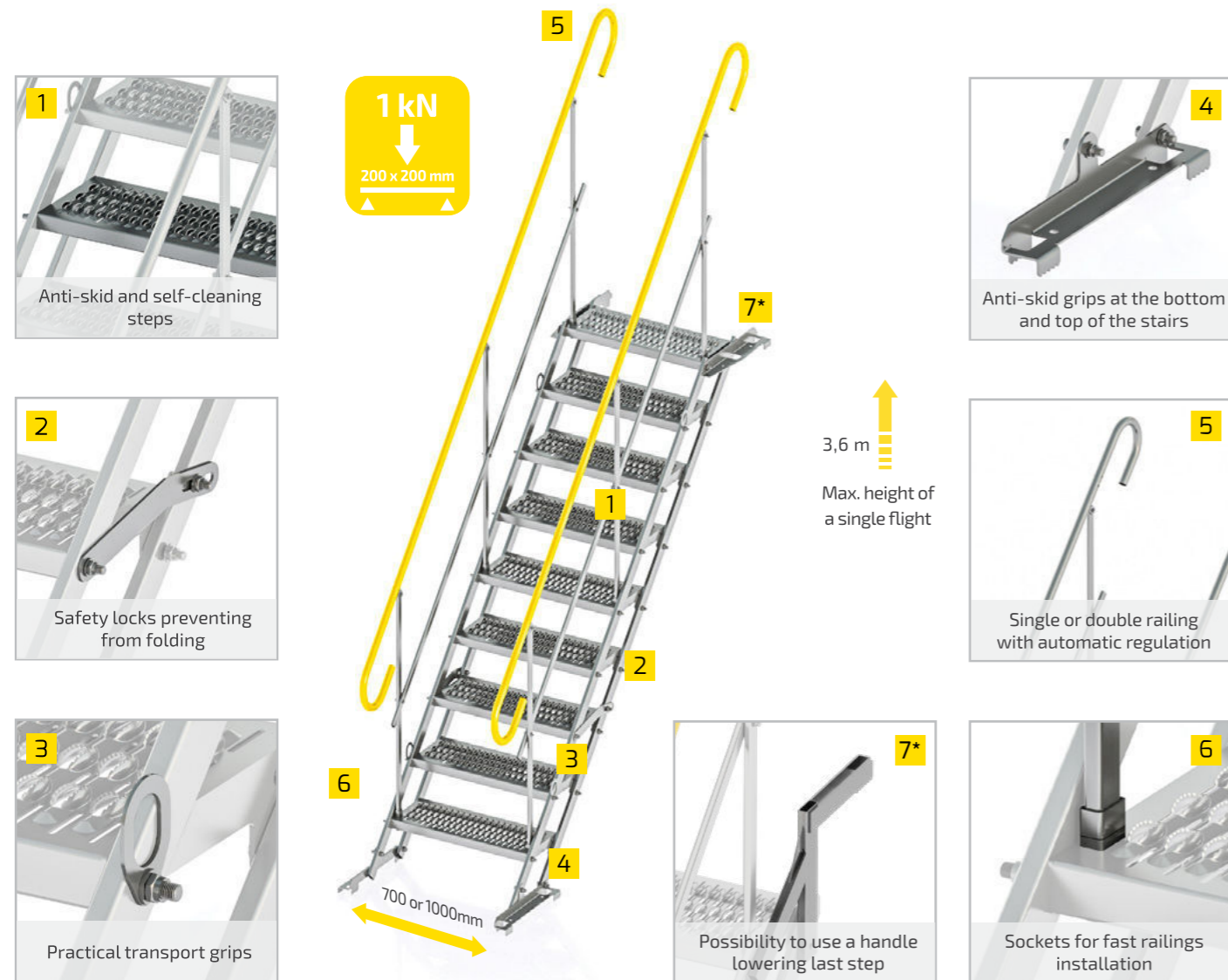
ALUMINUM

usable width 700 mm
temporary stairs
gangways (up to 2,6 m)
schody do rusztowań
step-over platform

KEY FEATURES OF THE SYSTEM

- Wide angle of inclination: from 0° to 50°
- Modularity – available in single flight modules from 3 to 18 steps
- Possibility to connect flights (e.g. 18+18 steps, 15+12 steps, etc.) when support connectors are used
- Possibility to mount railings on one or both sides
- Automatic steps levelling
- Possibility to change the place of use at any time
- Possibility to use a handle lowering last step

■ We have implemented a set of solutions that prevent the most typical construction site dangers and problems from occurring when using our system.



■ The stairs are compliant with the class 1 load capacity requirements (1 kN on 200x200 mm surface and are adapted for self-assembly with the use of a crane.

LENGTH SELECTION AND STAIRS SETUP

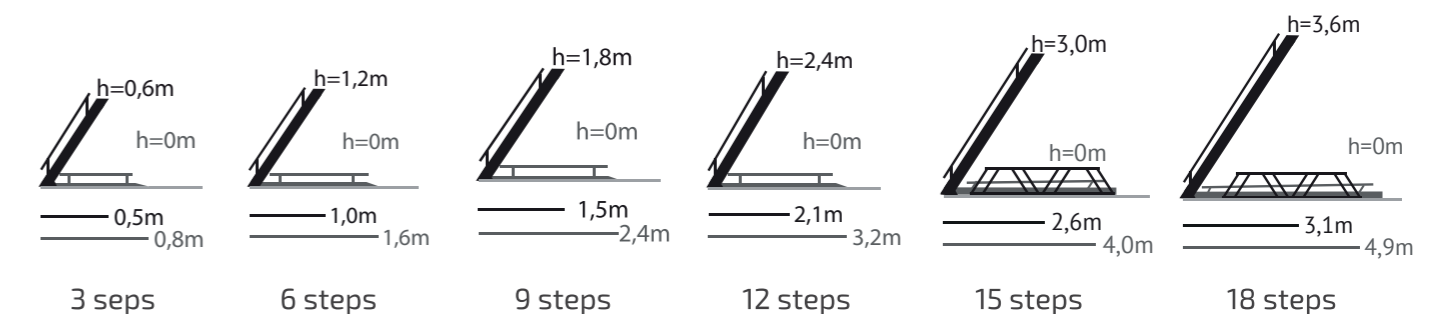
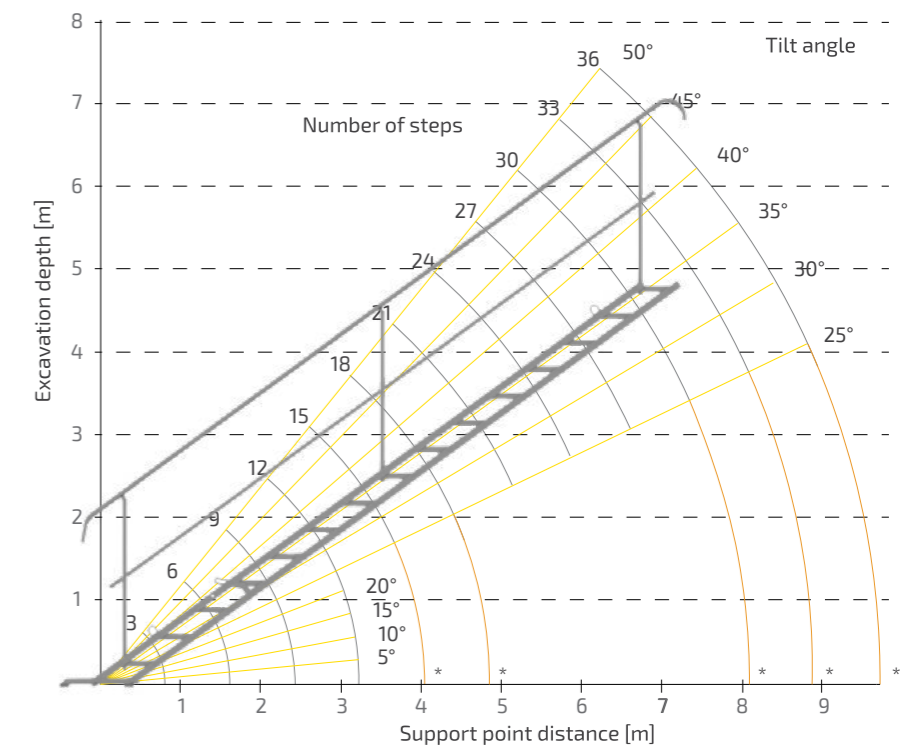
■ Temporary stairs system consists of 6 basic modules - 3, 6, 9, 12, 15 and 18 steps with possible angle regulation from 0 to 50 degrees. In order to receive full angle regulation with 15- and 18-steps stairs, using tusses is required. The stairs are to be assembled on a previously prepared horizontal surface, with upper and lower parts attached with expansion plug/ rods. The table below shows basic parameters of available modules.

NUMBER OF STEPS	3	6	9	12	15	18
FLIGHT LENGTH [m]	0,8	1,61	2,42	3,23	4,05	4,86
HEIGHT [m]	0 - 0,6	0 - 1,2	0 - 1,8	0 - 2,4	0 - 3,0	0 - 3,6
WEIGHT [KG]*	700	46,7	75,2	106,6	134	162,3
	1000	57	93,8	134,6	171,2	209
POSSIBILITY TO USE AS A GANGWAY	YES				YES (when used with a truss)	

* weight includes stairs and two guardrails

■ Position of stairs i.e. angle of inclination and the distance between the lower end and upper edge is determined on the basis of the diagram presented to the right in the following manner:

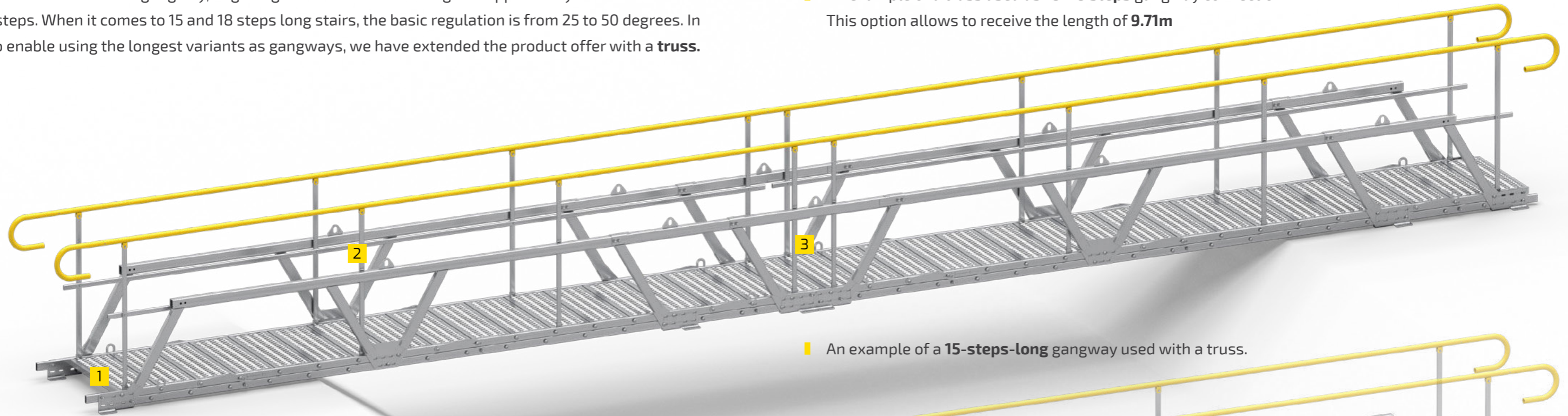
- Determine the excavation depth and mark the value on a vertical axis
- Taking into account the number of steps in the set, determine the angle of the flight of stairs - leading a horizontal line to the point of intersection with the curve.
- Determine the distance of the point of setting of the lower part of the stairs - vertical line to the intersection with horizontal axis.



GANGWAY AND TRUSS

In a basic version of TAS gangway, angle regulation from 0 to 50 degrees applies only for modules from 3 to 12 steps. When it comes to 15 and 18 steps long stairs, the basic regulation is from 25 to 50 degrees. In order to enable using the longest variants as gangways, we have extended the product offer with a **truss**.

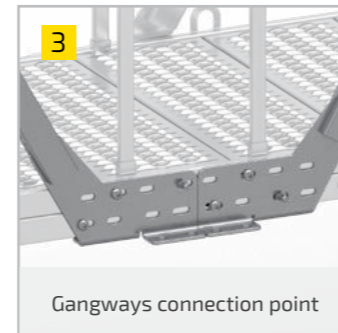
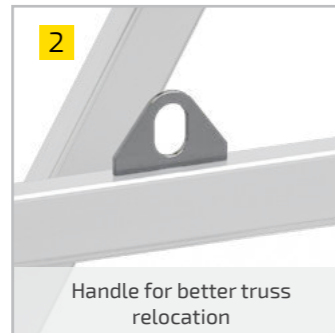
An example of a truss used as **18+18 steps** gangway connection. This option allows to receive the length of **9.71m**



An example of a **15-steps-long** gangway used with a truss.



An example of a **9-steps-long** gangway without a truss.



With the use of a truss, there is a possibility to connect 15 and 18 steps stairs in 15+15, 15+18, 18+18 variants.

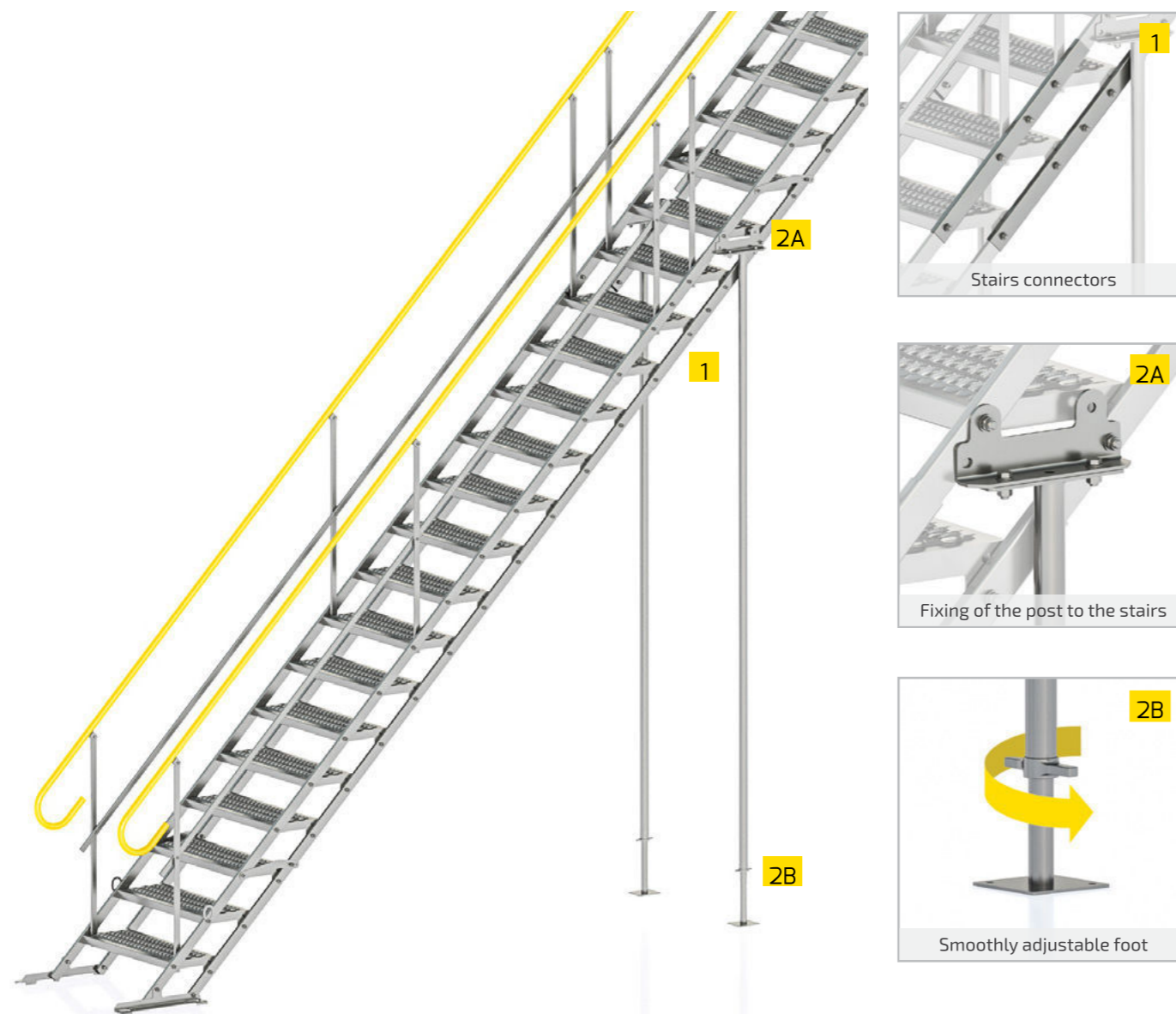
ADDITIONAL ELEMENTS

STAIRS FASTENERS

The structure of the stairs allows to connect the flights, e.g. 18+18, 15+12. The stairs are connected with fasteners (1) in the form of channels. The fasteners are interconnected using the same screws as for stairs and steps.

SUPPORTING POSTS

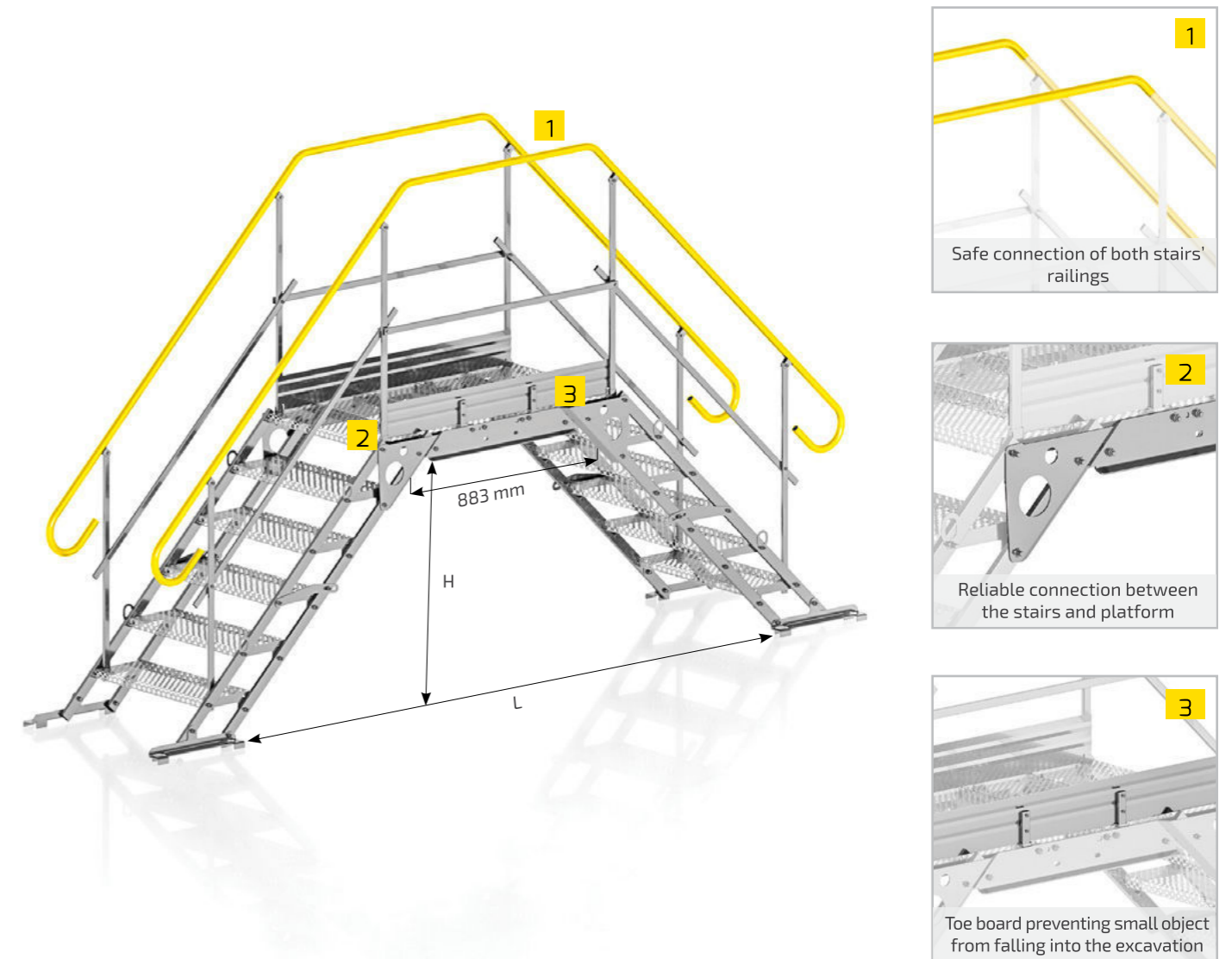
When connecting the flights, there may be the necessity of additional support in order to increase their rigidity. Additional posts (2) are attached to the stairs, with screws used to mount the steps, in order to improve structure's stability. To adapt the posts to rough terrain, they are equipped with adjustable base.



- When assembling and connecting flights on a bank, support poles are not required.
- Regardless of the flight angle, the steps are automatically set horizontally (parallel to the grips – upper and lower). If necessary, the adjustment can be made using the railings.

STEP-OVER PLATFORM

TAS step-over platform is a modular and easy to assemble solution which consists of a platform and two TAS flights of stairs. The step-over stairs can be used to overcome such obstacles as pipelines, walls, or as a cross-over platform over excavations, trench boxes and small technical openings. Thanks to the possibility to use 3- or 6-step flights, the height of the platform can adjusted according to current needs.



NUMBER OF STEPS	STAIRS WIDTH [mm]	WEIGHT [kg]	HEIGHT [m]	LENGTH [m]
3	700	93	0,46	1,8
	1000	107		
6	700	120	1,00	3,0
	1000	244		

SCAFFOLDING CHUCK

In order to optimise the product and make it even more useful in the construction site environment, we have developed the TAS offer with special scaffolding chucks. The assembly process is fast and troublefree, as it only requires exchanging standard feet with dedicated chucks.

The assembly requires you to hang the upper part of the stairs on a horizontal traverse. The lower part will fit the scaffolding structure.

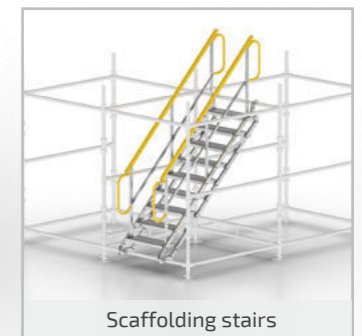


ALUMINUM TAS STAIRS

TAS stairs are made of both in steel and aluminum. The latter is characterised by significantly lower weight which, in effect, make transport and assembly easier. It does not impact the durability of the product or its maximum allowed workload.

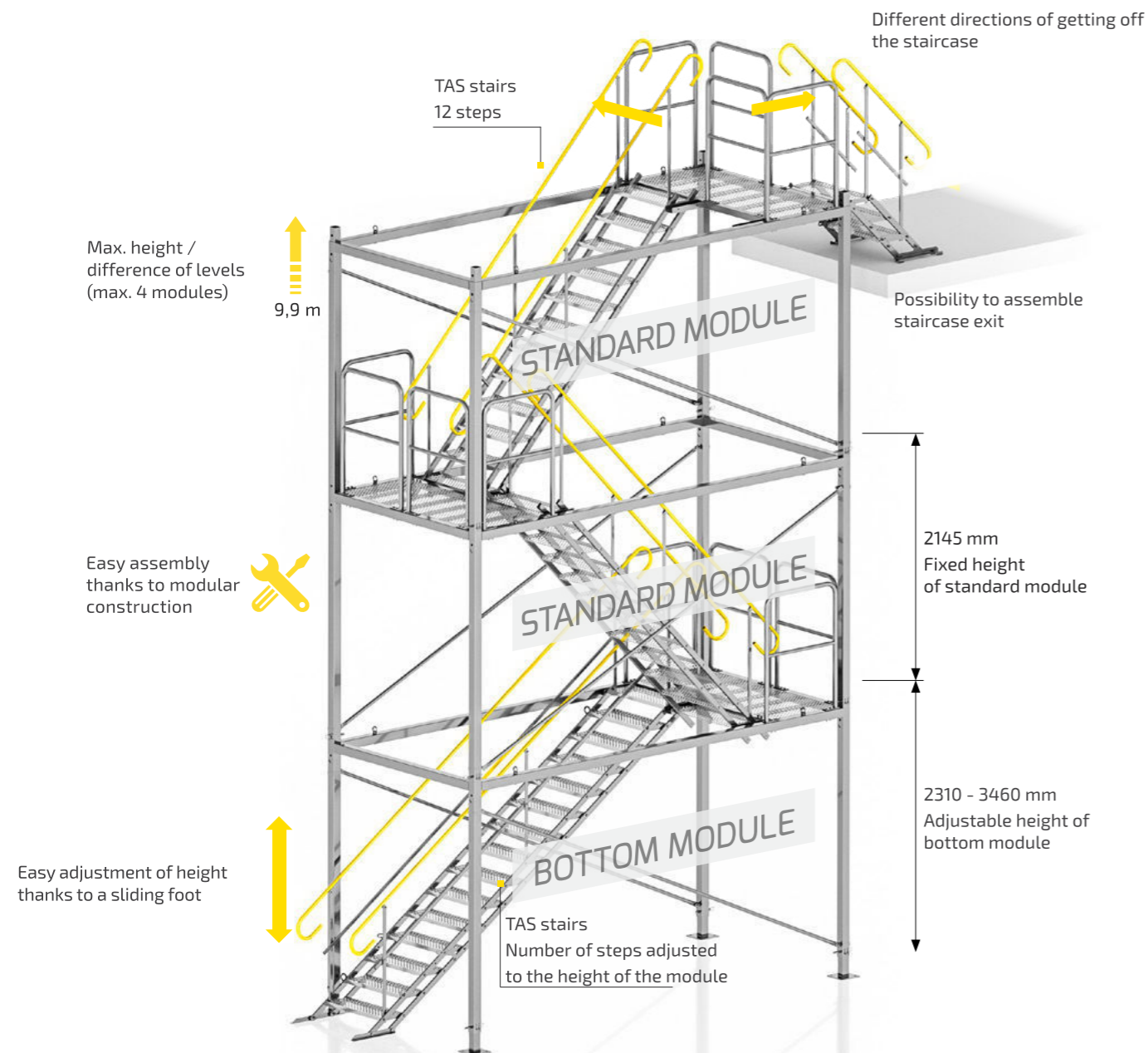
Another advantage that aluminum TAS stairs provide is that aluminum has a much greater resistance to corrosion.

ALUMINUM TAS STAIRS APPLICATION



KEY FEATURES OF THE SYSTEM

- TAS Staircases have modular construction which allows for a great number of available heights and directories of getting off the staircase. The system consists of two modules: BOTTOM and STANDARD, as well as TAS temporary stairs. The standard module always includes 12-step stairs, and the bottom one's number of steps depends on the module's height.
- Innovative solutions implemented in our staircases allow for safe communication even in the most demanding conditions.
- TAS staircase exit adapter was designed to eliminate level and distance differences between the staircase and the level you wish to get to. The staircase has a 7-step regulation (every 195mm). By using the adapter, you receive smooth regulation.



TAS STAIRCASES

MODULE ELEMENTS



The table below presents the list of main units for different types of modules.

NO.	DENOTATION	NAME	QUANTITY [pcs]		WEIGHT OF ELEMENT [KG]
			BOTTOM MODULE	STANDARD MODULE	
1	RA	Frame with platform	1	1	124
2	R-01	Railing	4	4	12
3	S-01	Post	4	4	21
4	X-01	Bracing	2	2	8
5	A-01	Foot	4	0	13
6	-	Kingpin	8	4	0.4
7	-	Clamping ring	4	4	0.15

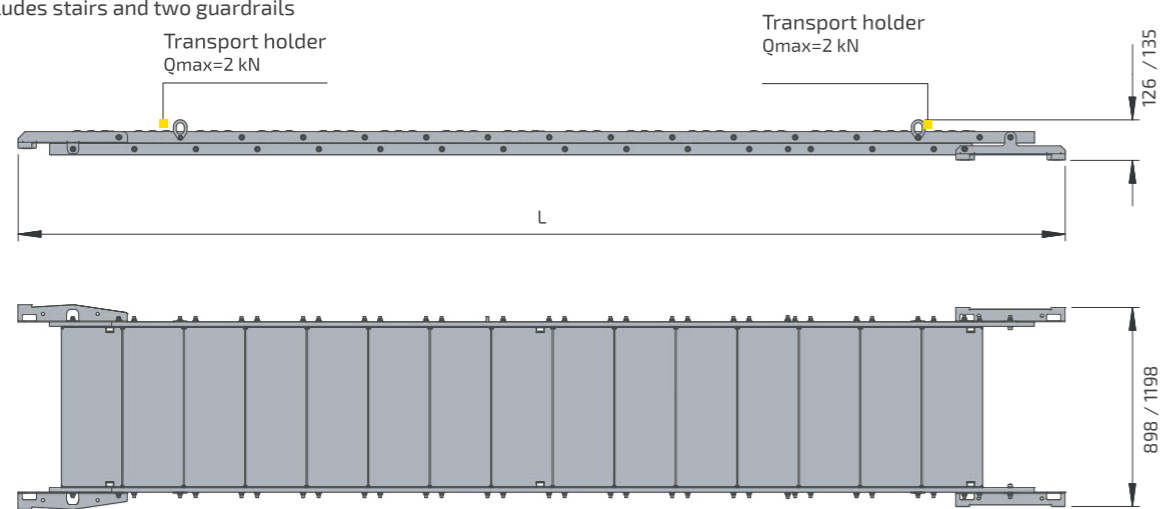
TAS staircases manufactured by TLC comply with the requirements concerning load capacity in class 1 (1 kN of the surface of 200x200 mm). Staircases are adapted to self-assembly with the use of a crane.

TRANSPORT AND STORAGE OF TAS STAIRS / GANGWAYS

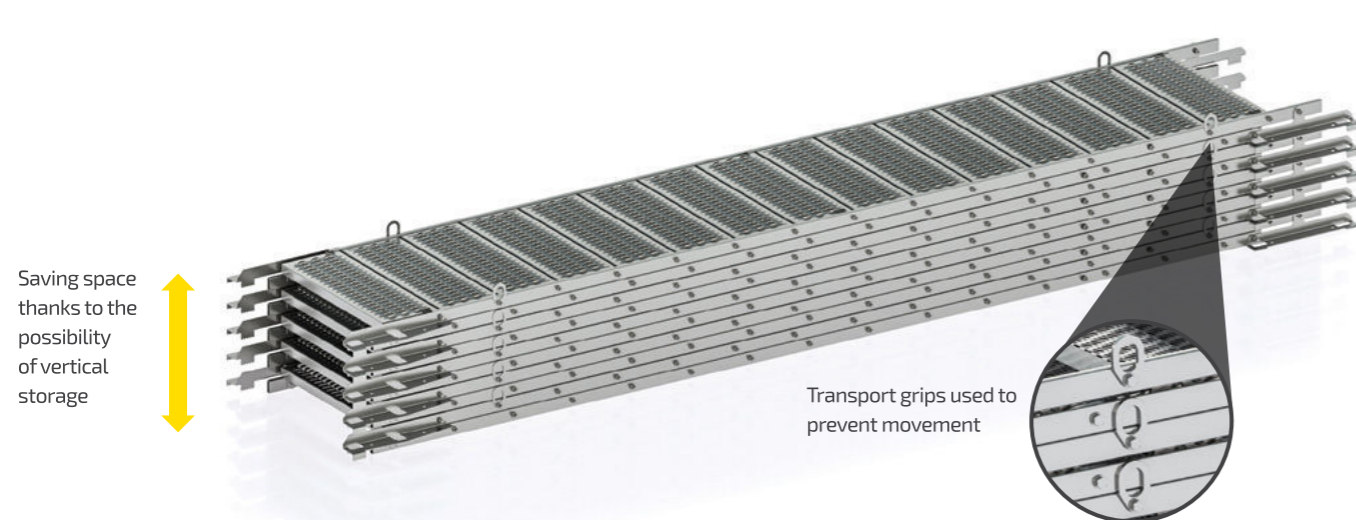
TAS stairs should be transported and stored with disassembled railings and folded to a minimum to reduce the space necessary for transport and storage. Use transport grips to lift the stairs. Stairs weight and dimension depend on a chosen variant.

NUMBER OF STEPS	STAIRS WIDTH [mm]	3	6	9	12	15	18
WEIGHT [kg]	700	46,7	75,2	106,6	134	162,2	192,6
	1000	57	93,8	134,6	171,2	209	248,5
LENGTH WHEN FOLDED L [m]		1,5	2,3	3,1	3,9	4,8	5,6

*weight includes stairs and two guardrails



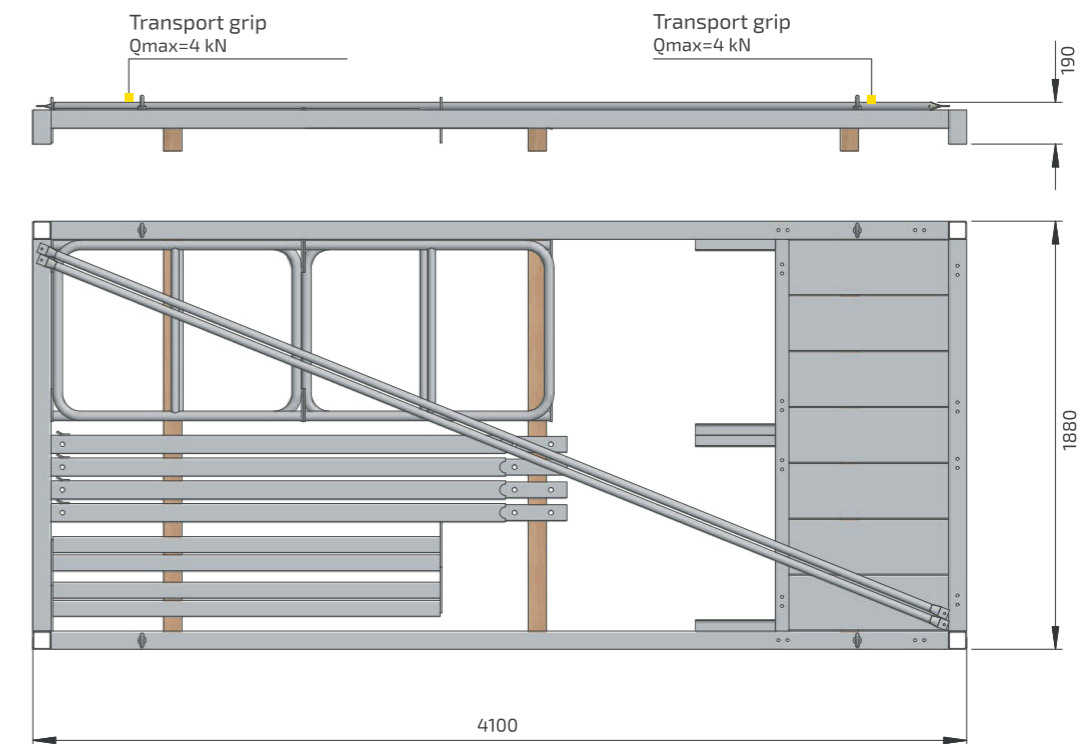
TAS stairs can be stored one on the top of the other. In order to secure the set from moving to the side, you can use transport grips - they should be set and locked with a mounting screw. See the picture below.



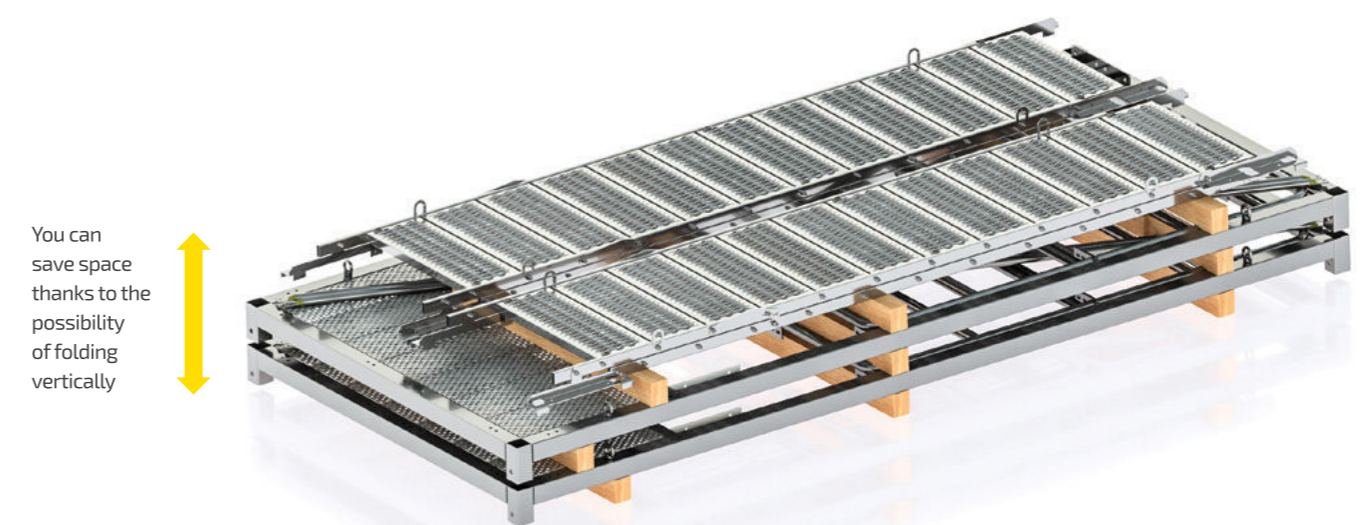
⚠ Maximum acceptable number of stored sets is 5

TRANSPORT AND STORAGE OF TAS STAIRCASES

TAS staircases should be transported and stored disassembled with individual elements arranged as in the figure below. It reduces the space required to transport and store the product. The weight of individual modules, without flights, are as follows: 326 kg (bottom module) and 275 kg (standard module).



Disassembled TAS staircases can be stored one on the top of the other and transported together with TAS flights. In this case, the elements should be secured with wooden dividers (rectangle blocks). Individual elements should be fastened with transport belts.



⚠ Maximum allowed number of stored modules is 3.

TEMPORARY ACCESS STAIRS AND STAIRCASES
CHOSEN REALISATIONS





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