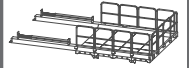
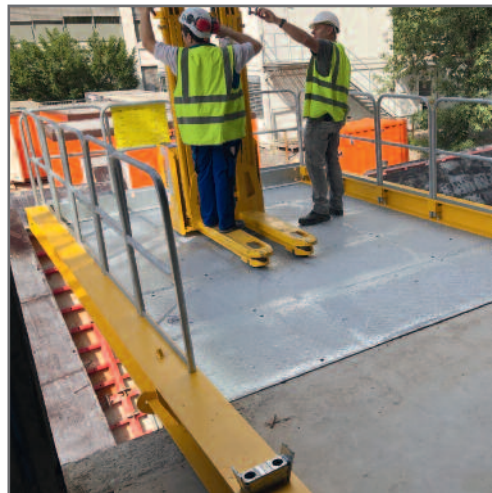


7

7.2. TRAPOFLEX WORKING PLATFORMS for safe material transport on sites



STORING AND INSTALLATION AT CONSTRUCTION SITES



ROBUSTA
GAUKEL



Your benefits at a glance:

- Safe working area outside a building for transporting formwork and scaffolding material up and down using a crane **WITHOUT** angled hoisting equipment
- **Rapid assembly; safe, quick implementation**
- **Loads permitted up to 4.7 t, point loads up to 0.6 t**
- **Effective protection against small parts falling down thanks to a closed floor area made from chequer plate; closed off additionally at the sides' circumference**
- **No height difference between the upper edge of the platform floor and the concrete floor**
- **Side protection frame and all connectors included in the scope of delivery; no additional parts and improvisation with wooden planks necessary at a construction site**
- **Suitable for both new and renovation construction work**

For the transport of formwork and scaffolding material from one floor to the next people improvise a lot on sites.

The **TrapoFlex working platform** guarantees a quick and safe intermediate transport of formwork between various floors. All components of the platform are proved by a structural design for the occurring loads.

The moving of the platform in one saves a lot of time and furthermore it is much more safe as the disassembling of loose parts. When working at the outside of buildings security is most important, therefore no wood is used for the side protection. The closed flooring is made of nonskid corrugated sheet which is supported in narrow distances by transvers fins. In that way lumped wheel loads, for example of lifting trucks, up to 600 kgs are possible without much bending. The continuous setting on edge guarantees a safe protection against falling of small parts. This is extremely important at construction sites above public routes.

At the front side a steel profile with the function of a bottom planking is screwed at the girders and at the base frame. It is extra stable to hold eventual impact loads of the lift truck with a full loaded transport box.

Special advantage:

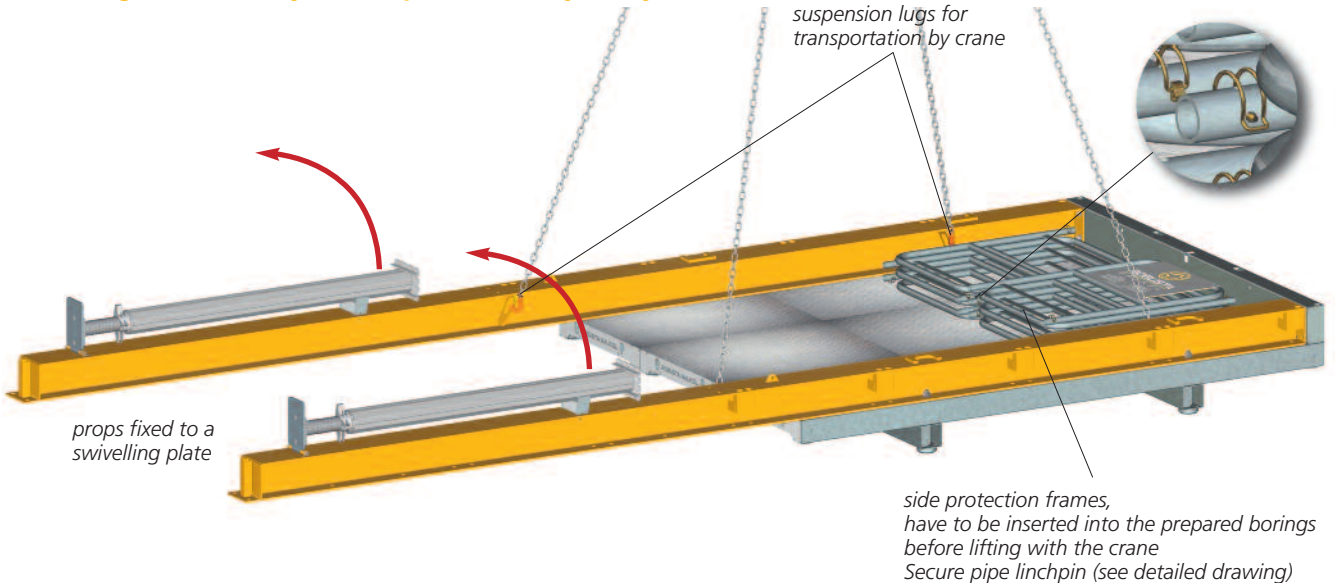
The transport of the material from the slab to the platform with lift truck or in transport boxes with wheels is possible without any special effort, because there is no step between concrete slab and platform floor!

The platform is not only good for the taking away of dismantled formwork elements, you can also use it to put all kind of materials onto the platform that have to be moved into the inside of the building, for example packs of bricks or gipster plates. The biggest standard platform with a cantilever length of 4.0 m can also be used excellently for the carrying out of complete slab table units.





Mounting within the system – quick and easy ready to use



For a maximum security during the use on the site it has been taken care **that all the load bearing components are connected stable together.**

Thus incorrect use and sliding away of parts are excluded while the critical moving of the platform. All the necessary components are already mounted or added for the use on the site.

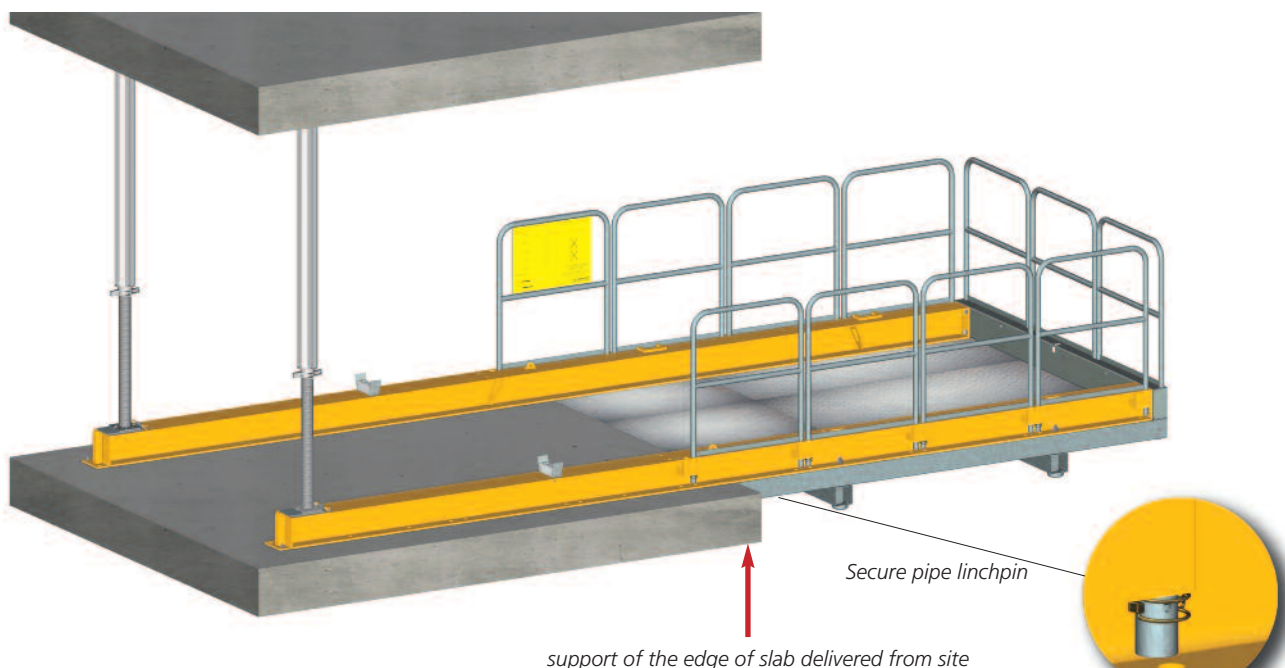
After **inserting the side protection frames** the platform will be lifted at the **4 sturdy suspension lugs**. These are welded in the inside of the girders at the very positions that the platform is hanging at the crane balanced in the center of gravity.

The **heavy-duty props for suspension** are fixed with screws safely to **swivelling base plates**.

The props will be simply laid down before lifting the platform with the crane and will be put in an upright position again at the new position and pressed against the upper floor before removing the crane hooks.

Additional security:

The cantilever girders are to be secured against sliding at the end by dowels, also the props at the upper ceiling.



7

TRAPOFLEX WORKING PLATFORMS

DELIVERY AND MOUNTING



Delivery and mounting with pictures



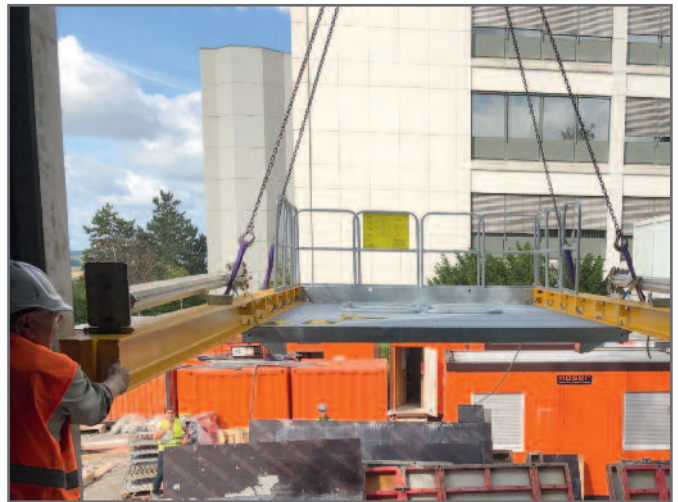
Delivery by truck



Transport to the site by crane



All relevant parts are already pre-assembled



Easy delivery to the place of use

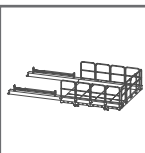


The aluminium props are simply folded up and fixed work platform is clearly visible



Ready to use in just a few steps



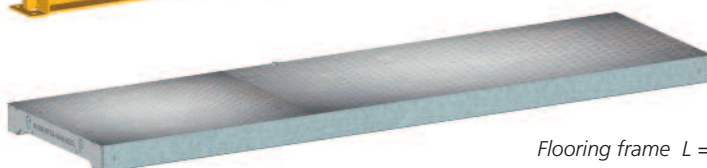


All components in survey:

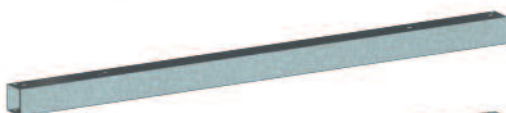
The TrapoFlex platforms consist of few standard component parts, which can be combined together in different configurations. In this way 4 standard platform sizes can be realized within the system. Each platform can be optimized to all kind of requirements on the sites.



*Cantilever girder $L = 6.00$ m for type S / M / L
 $L = 7.50$ m for type XL*



Flooring frame $L = 3.00$ m, $B = 0.80$ m



Traverse $L = 2.40$ m for types S / M



*Girders for front end $L = 2.40$ m for types S / M
 $L = 3.00$ m for types L / XL*

Side protection frame

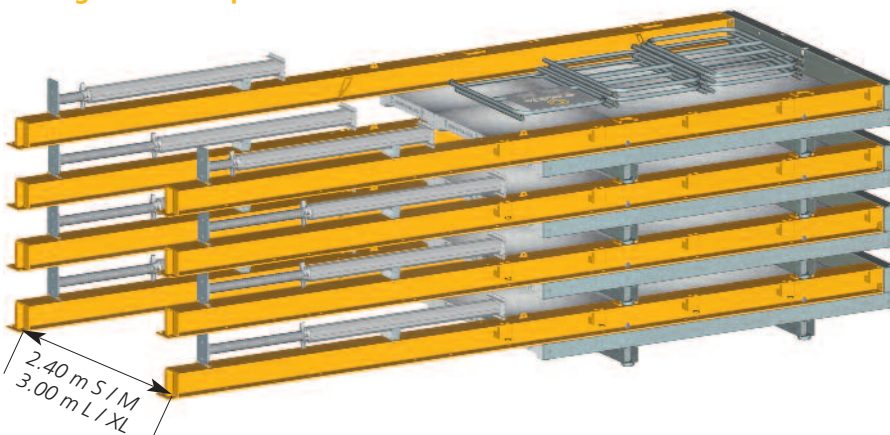


Pipe linchpin

Prop – length and type according to floor height



Storage and transportation:



*2.40 m S / M
3.00 m L / XL*

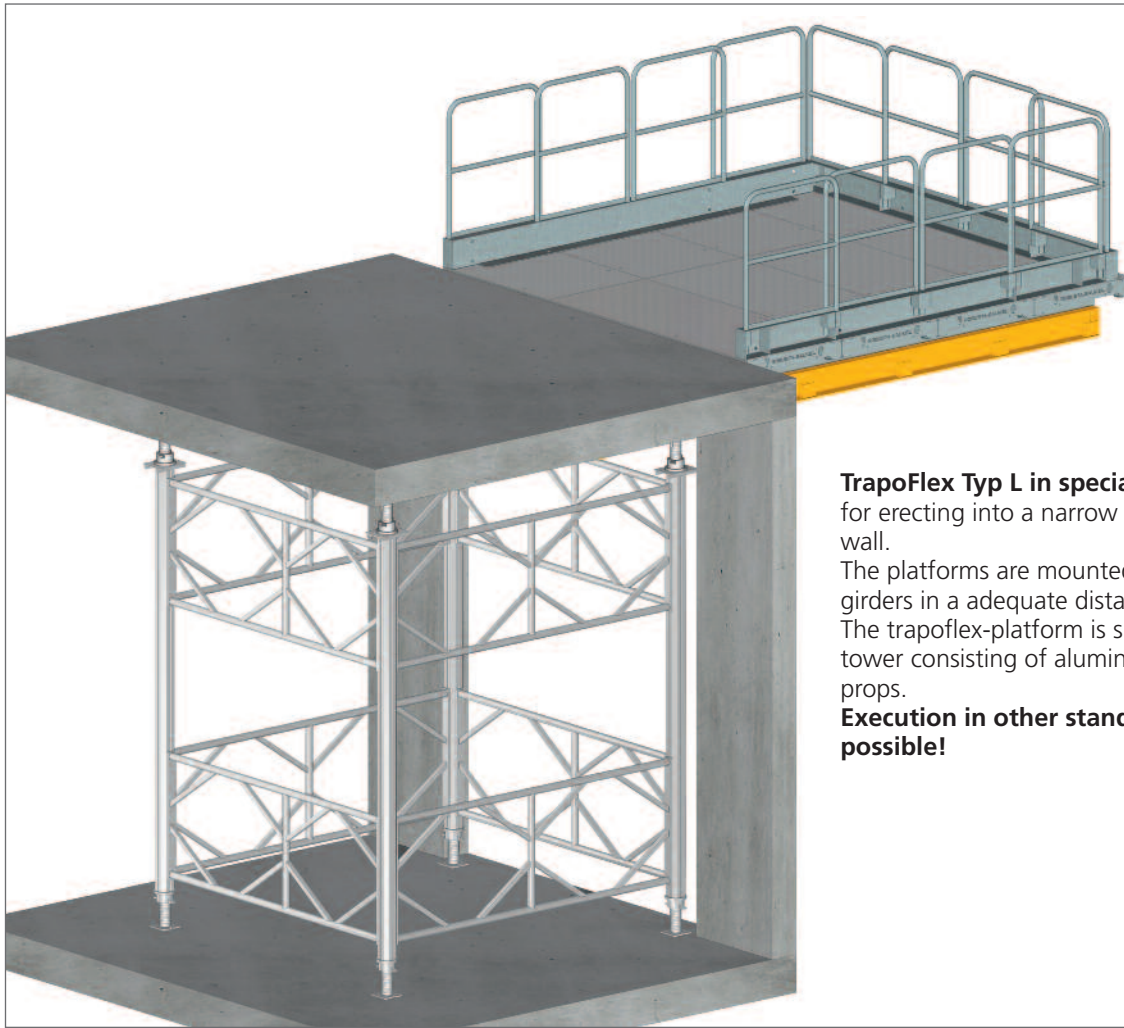
The ready assembled platforms Type S and M width 2,40 m fit onto any truck with a clear minimum charging length of 6.20 m.

In the same way a transportation of the platforms Type X and XL width 3.00 m is possible, assuming a special permission for oversize loading.

To stack the assembled platforms in an accurate manner there are generally stacking guides included.

Thus it is also guaranteed a safe transportation on the truck without danger of slipping.





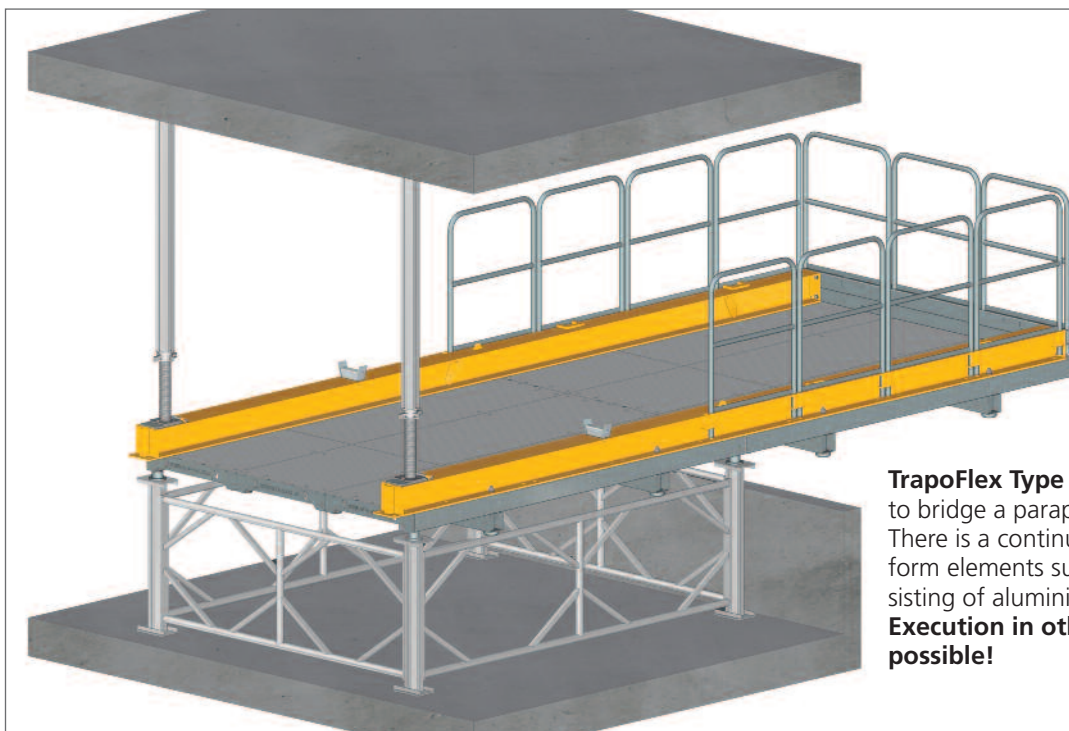
TrapoFlex Typ L in special version

for erecting into a narrow opening in the wall.

The platforms are mounted on 2 cantilever girders in a adequate distance.

The trapoflex-platform is supported on a tower consisting of aluminium heavy-duty props.

Execution in other standard sizes possible!



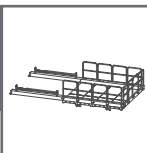
TrapoFlex Type M in special version

to bridge a parapet.

There is a continuous area made of platform elements supported on a tower consisting of aluminium heavy-duty props.

Execution in other standard sizes possible!





TRAPOFLEX WORKING PLATFORMS

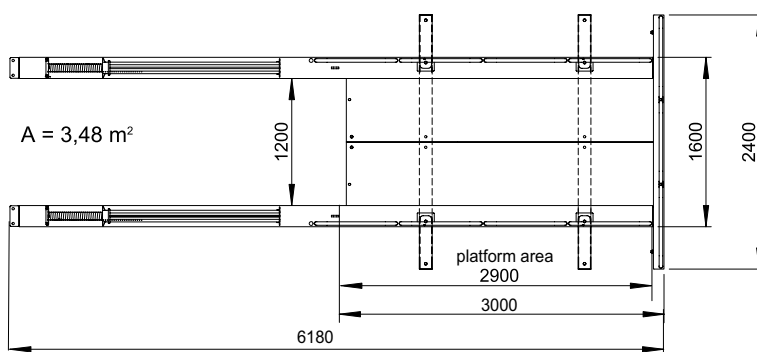
7

SURVEY ABOUT STANDARD-SIZES

TECHNICAL DATA:

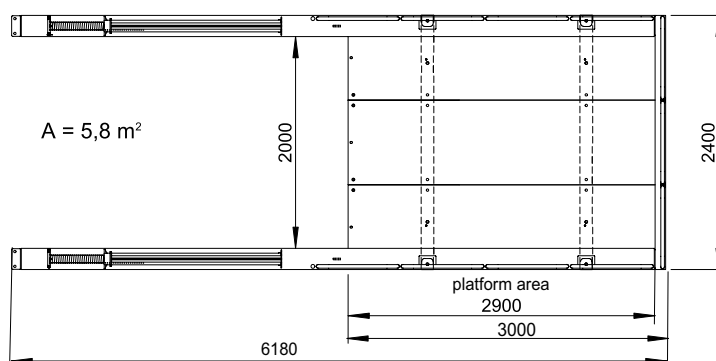
TrapoFlex Type "S", complete

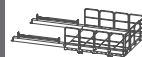
Platform area A [m ²]	Permissible area load [kN/m ²]	Permissible point load [kN]	Weight [kg/unit]	Item No.
3.48	6.0	21.0	1170.0	743016



TrapoFlex Type "M", complete

Platform area A [m ²]	Permissible area load [kN/m ²]	Permissible point load [kN]	Weight [kg/unit]	Item No.
5.80	6.0	35.0	1350.0	743024

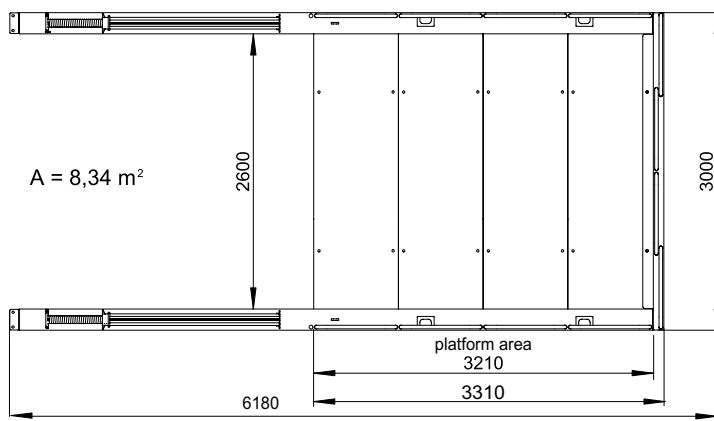




TECHNICAL DATA:

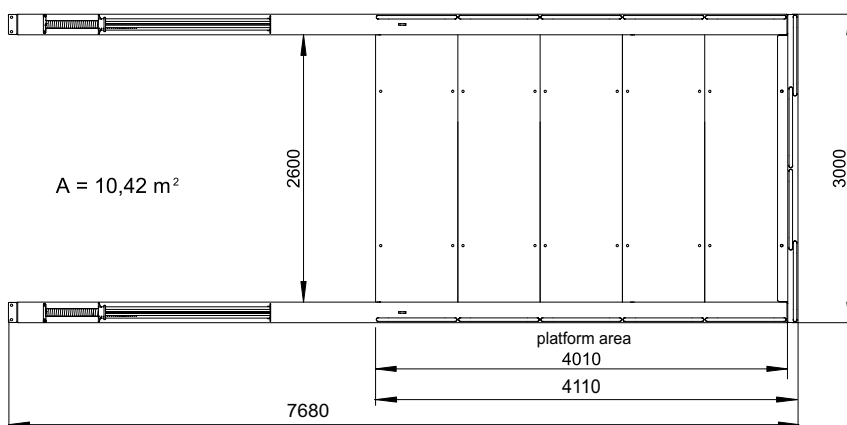
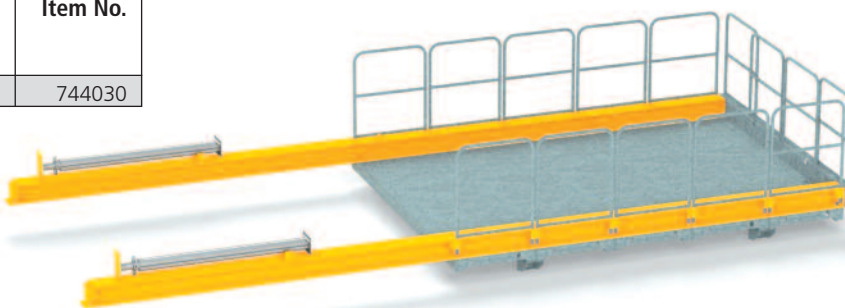
TrapoFlex Type "L", complete

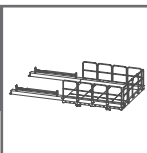
Platform area [m ²]	Permissible area load [kN/m ²]	Permissible point load [kN]	Weight [kg/unit]	Item No.
8.34	4.5	37.5	1530.0	743230



TrapoFlex Type "XL", complete

Platform area [m ²]	Permissible area load [kN/m ²]	Permissible point load [kN]	Weight [kg/unit]	Item No.
10,42	4,5	47,0	2150,0	744030





TRAPOFLEX WORKING PLATFORMS

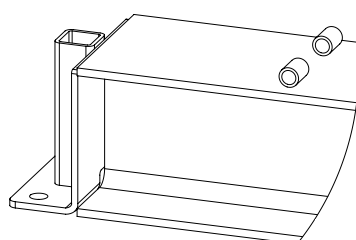
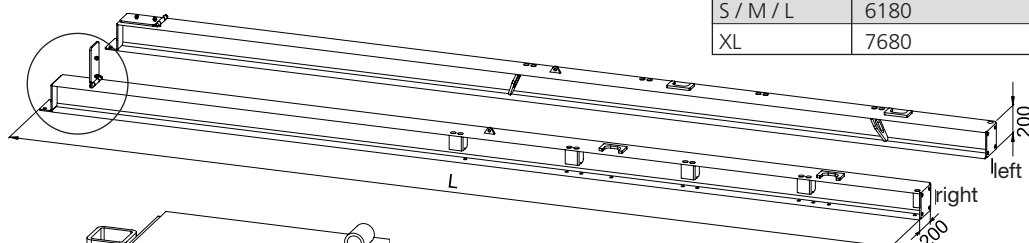
7

SINGLE PARTS AND ACCESSORIES

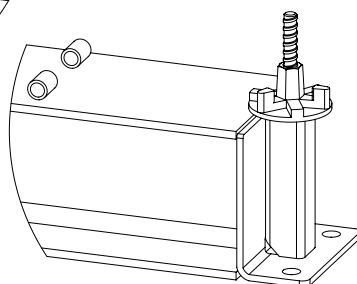
TECHNICAL DATA:

Cantilever girder

For type	Length [mm]	Weight [kg/unit]	Item No.
S / M / L	6180	275.0	743062
XL	7680	490.0	744077



Example:
anchoring with tie rod
and wing nut



NEW version canilever girder, available from now on:

When the standard supporting with the foldable aluminium prop upwards is not possible, we offer now the possibility to hold down the end of the cantilever girder by anchoring to the slab underneath.

The anchoring must be determined and adapted to the special conditions of each mounting situation.

We recommend to anchor through the slab and to use a load-distributing girder underneath the slab, if necessary.

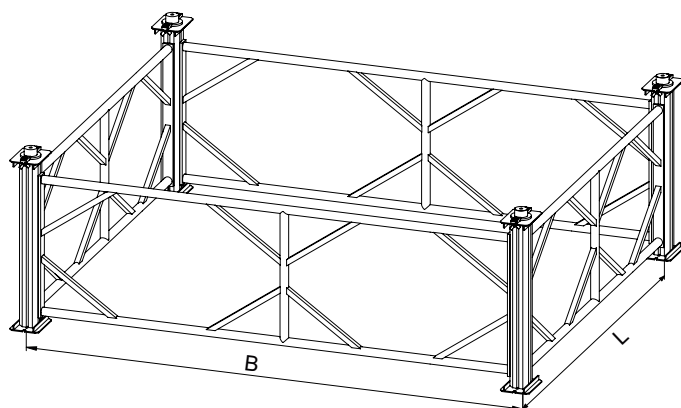
When ordering please inform us if you need the girder with this feature.

Aluminium base support frame

Type	Size of axis W x L [m]	Weight ¹⁾ [kg/unit]	Weight ²⁾ [kg/unit]	Item No.
S	1.5 x 2.9	82.0	4.50	743110
M	2.3 x 2.9	92.0	6.40	743120
L	2.9 x 2.3	92.0	5.64	743130
XL	2.9 x 2.9	97.0	7.50	743140

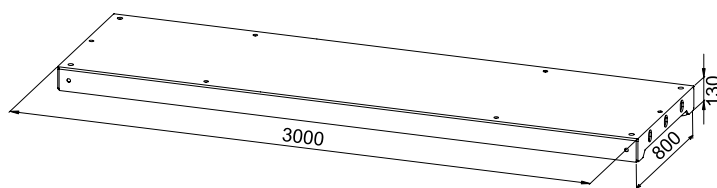
1) weight single Alu-frame

2) weight of additional parts
pre-mounted at TrafoFlex working platform



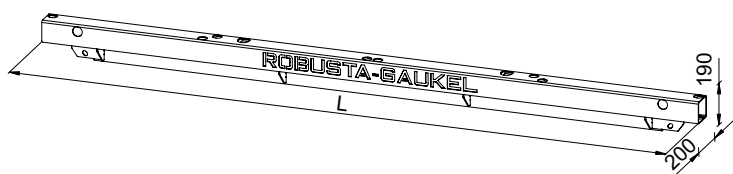
Flooring frame

Sizes L x W x H [mm]	Weight [kg/unit]	Item No.
3000 x 800 x 130	184.0	740008



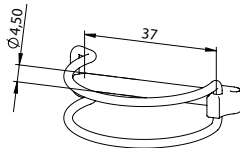
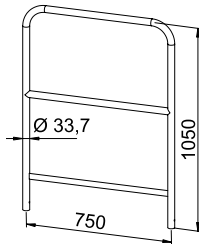
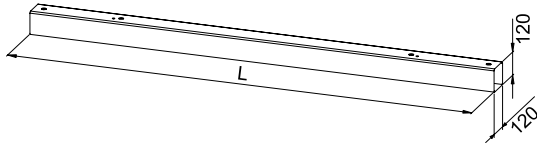
Girders for front end

For type	Length [mm]	Weight [kg/unit]	Item No.
S / M	2400	36.5	740024
L / XL	3000	57.0	740030





TECHNICAL DATA:



Traverse

For type	Length [mm]	Weight [kg/unit]	Item No.
S / M	2400	41.0	740025

Side protection frame

Weight [kg/unit]	Item No.
9.0	419510

Pipe linchpin for securing side protection frame

Weight [kg/100 units]	Item No.
1.3	970029

Survey: Room height and necessary supporting

Clear room height [m]	Type of prop / combination of elements
2.00 – 3.10	3-AL
3.00 – 4.10	3-AL + extension element 1m
2.10 – 4.30	3-AL + additional spindle
3.20 – 4.30	4-AL
3.50 – 5.50	4-AL + additional spindle
4.20 – 5.00	4-AL + extension element 1m
4.60 – 5.70	5-AL
4.70 – 6.20	5-AL + additional spindle

Single props with 1 spindle

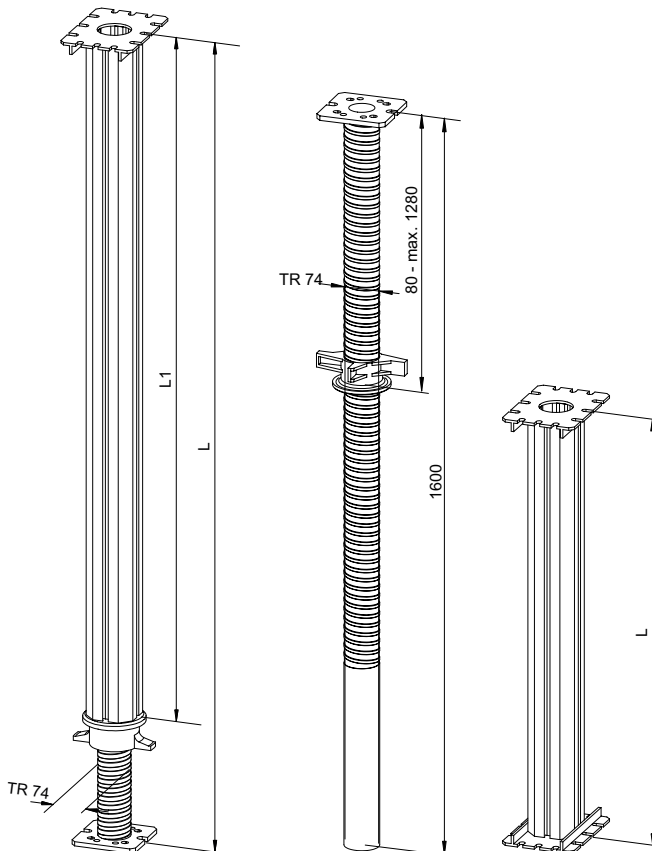
Type	Extension-length L [m]	Length L 1 [m]	Weight [kg/unit]	Item No.
3-AL	1.70 – 2.90	1.62	17.0	621329
4-AL	2.90 – 4.10	2.82	21.0	621441
5-AL	4.30 – 5.50	4.22	28.0	621555

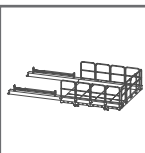
Additional spindle with protection against unscrewing

Type	Length [m]	Adjusting range [m]	Weight [kg/unit]	Item No.
long	1.60	1.20	10.40	621012

Extension element

Length L [m]	Weight [kg/unit]	Item No.
1.00	5.70	621010



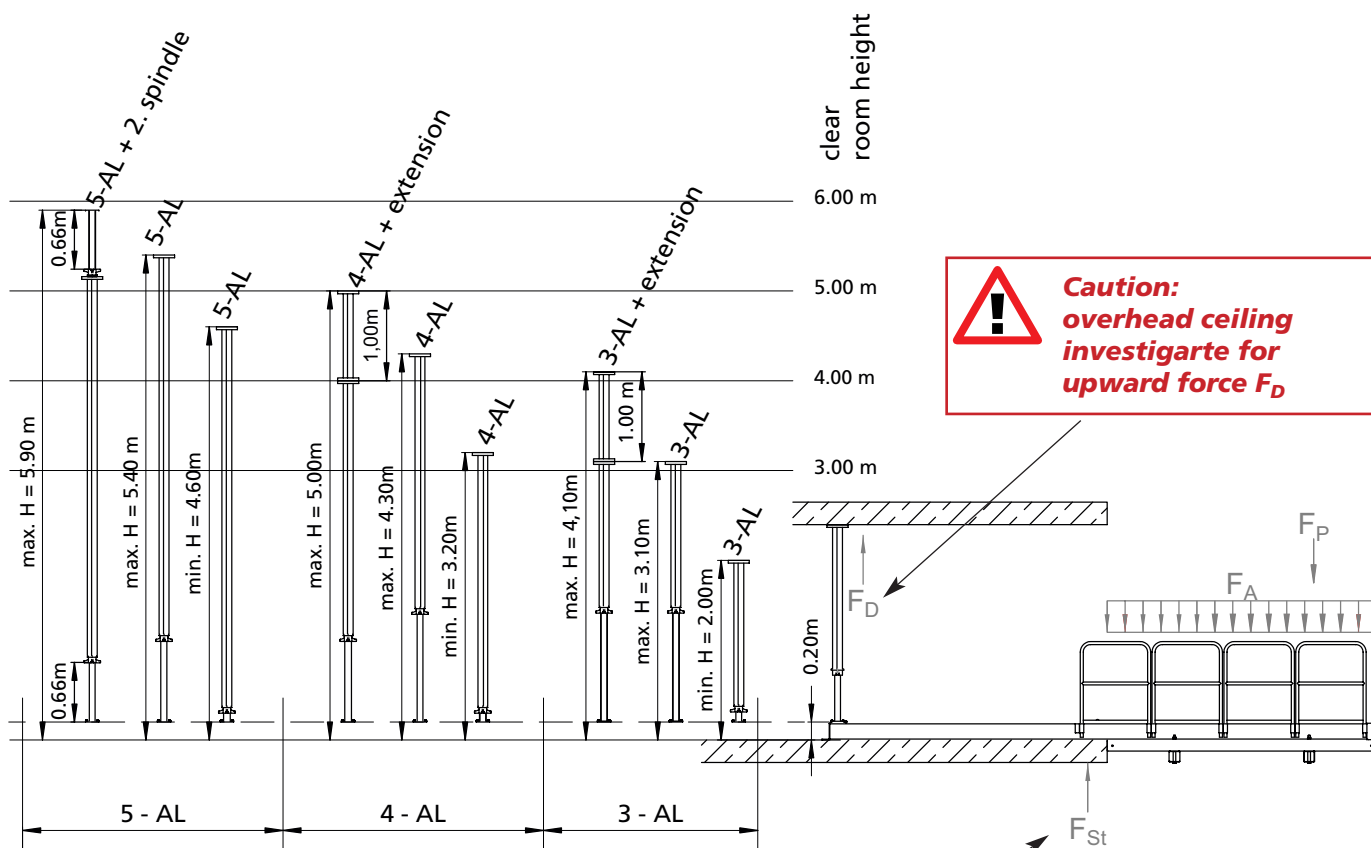


TrapoFlex	Type S	Type M	Type L	Type XL
Width of platform*	1.60 m	2.40 m	3.00 m	3.00 m
Length of platform*	3.00 m	3.00 m	3.20 m	4.10 m
Platform area	3.48 m ²	5.80 m ²	8.32 m ²	10.4 m ²
Weight	11 kN	13 kN	16 kN	25 kN
Permissible load	21 kN	35 kN	37.5 kN	47 kN
Permissible area load	$F_A = 6 \text{ kN/m}^2$		$F_A = 4,5 \text{ kN/m}^2$	
Permissible point load	$F_P = 6 \text{ kN}$		$F_P = 6 \text{ kN}$	
Max. Vertical load _{F_{St}} per beam	30 kN	45 kN	50 kN	55 kN
Max. F_D per beam	17 kN	25 kN	25 kN	21 kN

Note: The specified permissible loads and the support forces are real characteristic values.

*External dimensions including cantilever beam and beam for the front

Survey Support forces and selection of pressure supports



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