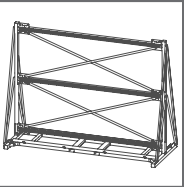
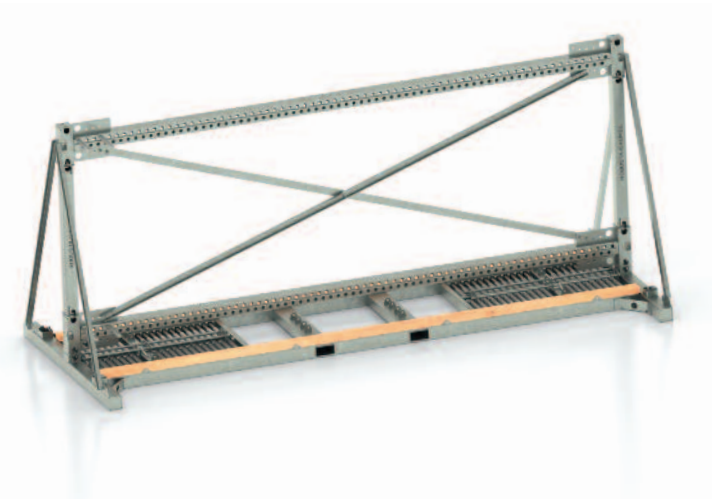


7

7.1. DEPOFLEX STORAGE RACKS for safe storage on sites



STORING AND INSTALLATION AT CONSTRUCTION SITES



ROBUSTA
GAUKEL



Your advantages at a glance:

- Secure intermediate storage for precast component wall panels at a production facility or on a construction site
- Optimum application for wall formwork – more order and safety at a construction site
- Can be dismantled to save space with storage and transportation
- Can be supplied in two lengths (4.20 m and 6.00 m)
- DepoFlex 6000 series extendible in height to 6.60 m for high wall elements and precast components
- Expandable to a height of 6.0 m for special cases
- Each storage rack forms an enclosed structural system on its own
- Can be set up without any special foundation anywhere on firm ground; no additional anchoring necessary
- With a second perforated girder also suitable for low embankment elements and for additionally securing high wall elements against tipping
- Made from a few frame elements and so can be built up and dismantled rapidly
- Perforated girders can also be supplied individually as a storage rail

The new DepoFlex storage racks make a frame shaped, complete structural system in themselves, which are stabilized by the weight of the wall elements on to the lateral wooden girders.

These girders support the construction elements integrated into the ground frame and protect the sensitive edges of the prefabricated elements against chipping off.

The storage racks are a stable, perfect intermediate stock, which must be placed on solid ground. The mounted racks can be lifted and moved with the crane easily by two stable hooks.

The lower and middle pinhole girder enables the storage of low elements, for example railing elements.

The pins fixed into the girder secure additionally as protection against turning of the elements around the upper thermal point.

DepoFlex 4000 and **6000** are replacing our previous version. The entire construction has been optimized, so that the mounting is even easier, and both versions are galvanized for a longer durability.

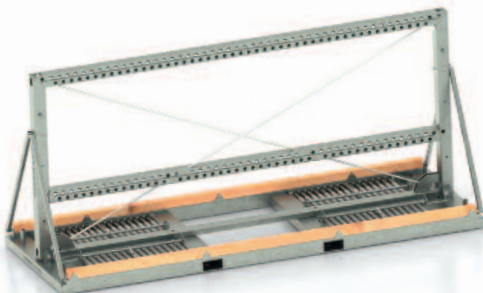
Also the DepoFlex storage racks offer the possibility to place the pins already into the floor frame during transportation, so that all elements are well secured.

For higher prefabricated elements and wall formwork the **DepoFlex 6000** can be raised **up to 6.00 m (= DepoFlex Plus)**.

Overview of all DepoFlex storage racks:

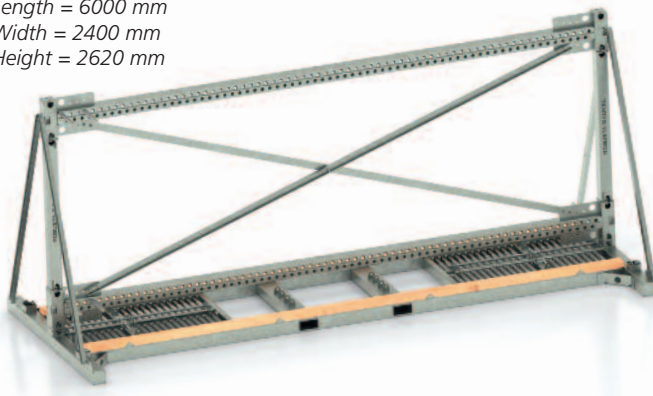
DepoFlex 4000

Length = 4200 mm
Width = 1490 mm
Height = 1920 mm



DepoFlex 6000

Length = 6000 mm
Width = 2400 mm
Height = 2620 mm



DepoFlex 6000 Plus

Length = 6000 mm
Width = 2400 mm
Height = 4620 mm





When delivering the wall elements on the construction site often it is not possible to mount the elements directly from the truck on the spot. That means, that the elements have to be stored temporarily, which means there is danger of damage, if the elements are placed on the floor or leaned against walls or slopes.

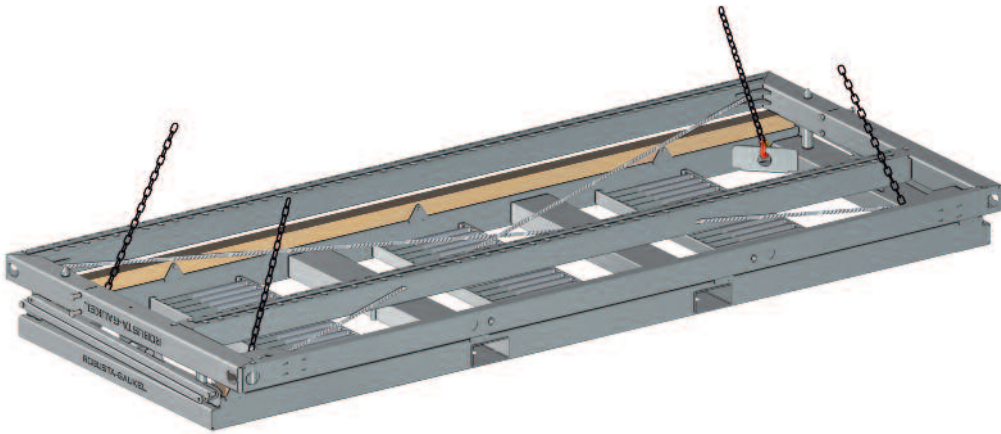


Also at in-situ-concrete construction sites with wall formwork the storage racks guarantee accuracy and safety. A further positive effect: enormous saving of time when selecting the elements.

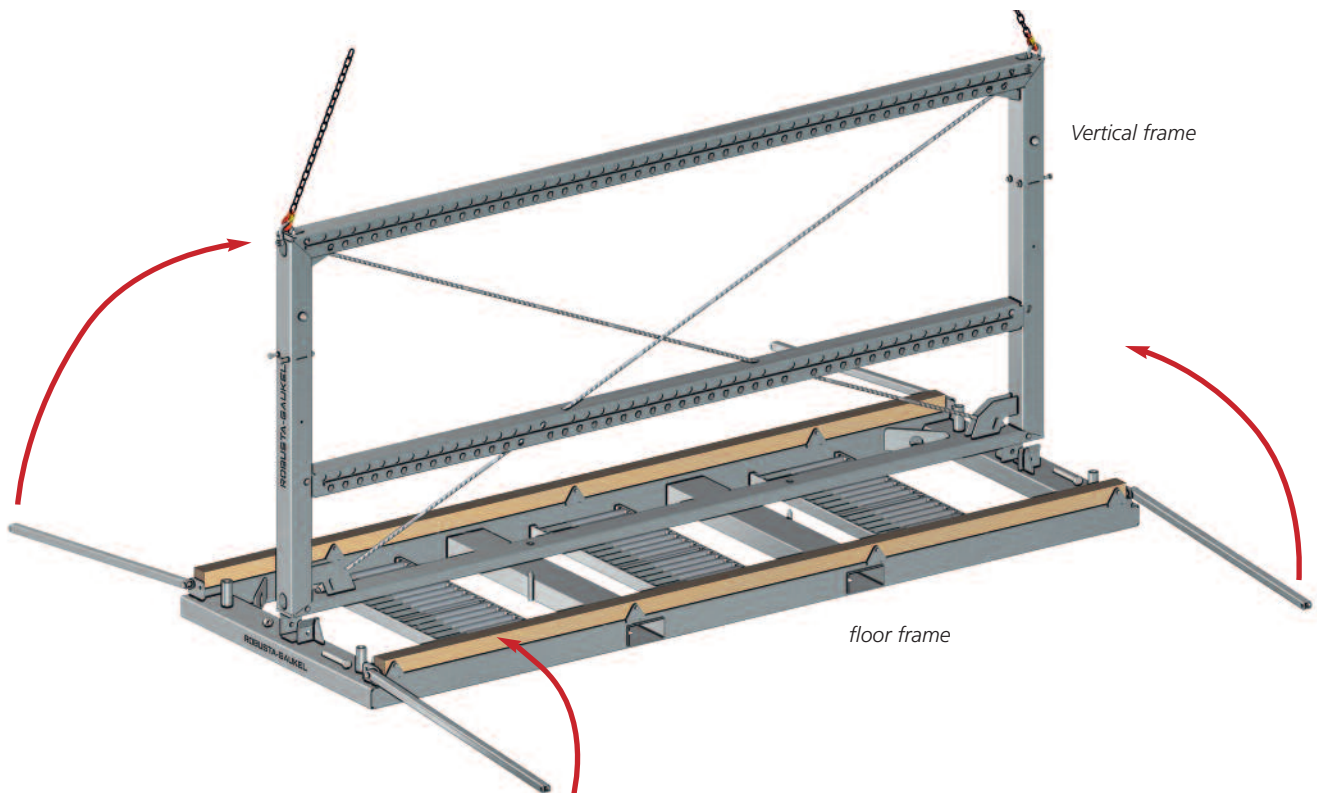


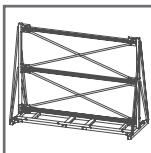


Delivery and mounting

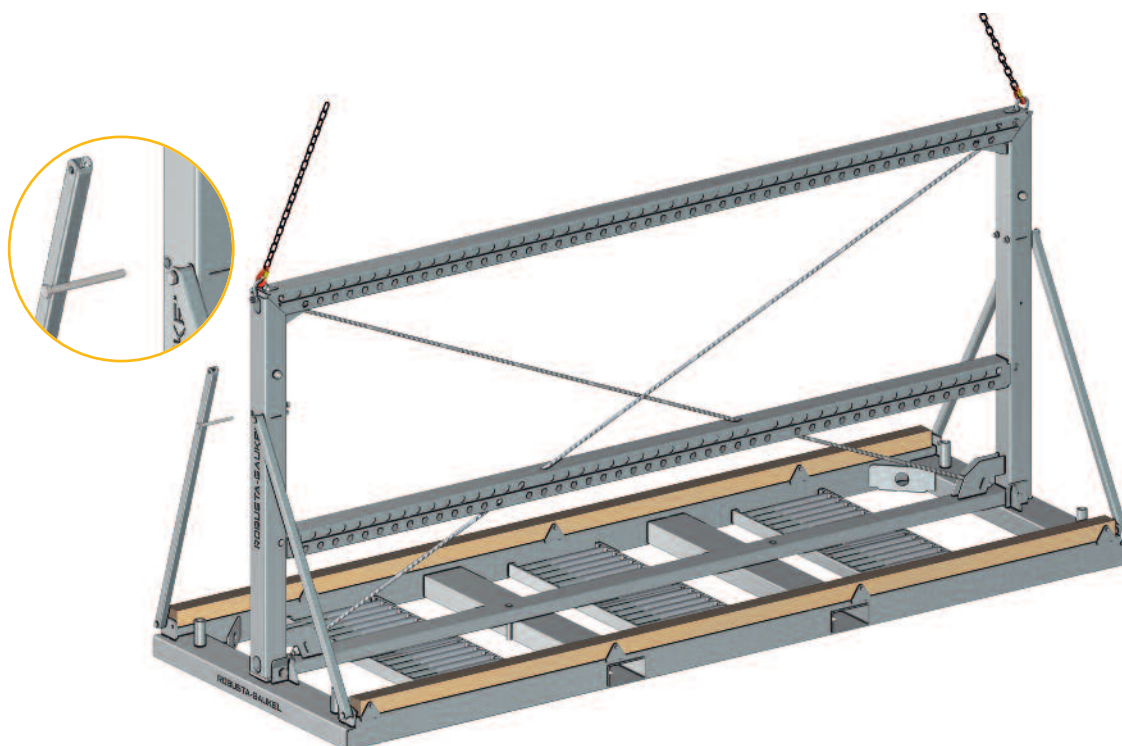


The vertical frame with pinhole girder and diagonal struts will be connected to the floor frame with two included screws. The 4 lateral diagonal struts for stabilizing the vertical frame against tilting and horizontal impact loads are fixed to the floor frame with a hinge fitting. For erecting these 4 struts can be easily turned upwards and screwed to the vertical frame. Thus there are no more loose parts which can get lost during transportation. After the use on the site the storage racks can be dismantled space saving and being moved to the next site with less transport dimensions.



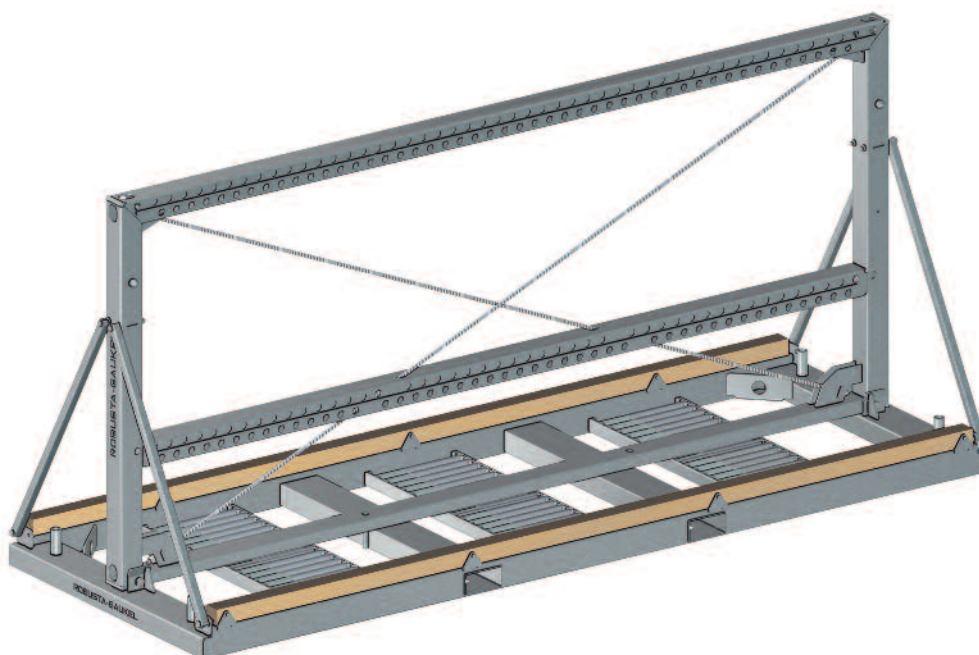


Mounting



After that the struts are screwed to the vertical frame (see detailed drawing). As a result, apart from the connecting screws, there are no loose parts that might get lost during transportation.

After use on the construction site, the frames can be folded up again to save space and can also be transported efficiently to the next place of use with a small transport volume.

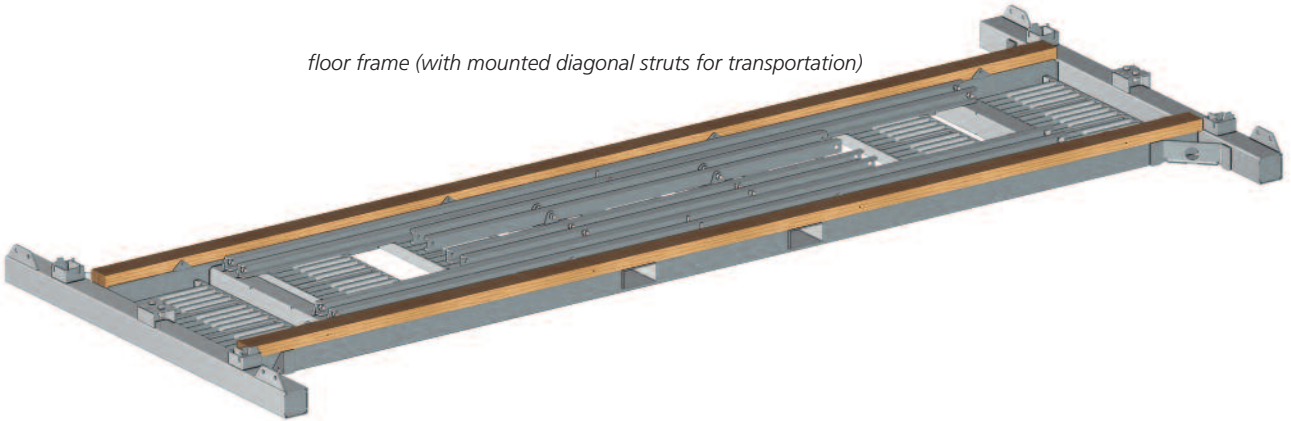




Overview DepoFlex 6000

The special feature of the modular Depoflex is, that just a few components can be assembled to different sizes of frames. Floor frame (with 4 lateral diagonal struts fixed to the floor frame for transport)

floor frame (with mounted diagonal struts for transportation)

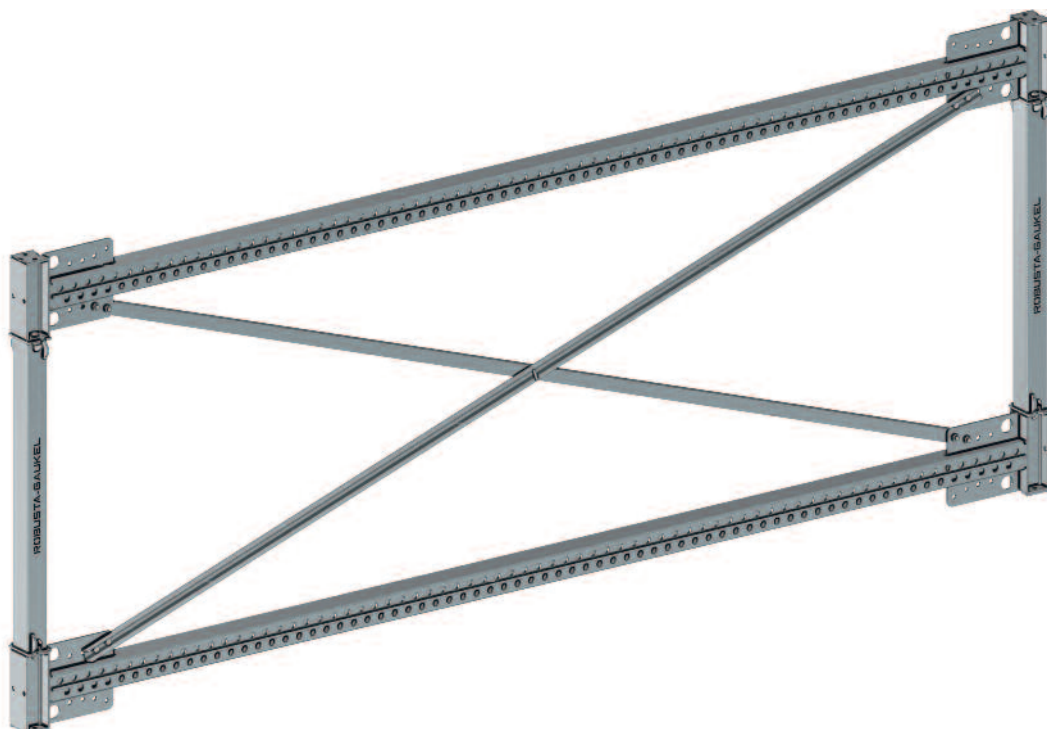


Floor frame

The floor frame has connecting points, to which the diagonal struts can be attached when the Depoflex is dismantled.

This guarantees a safe transport, furthermore there's no need for searching for loose, separate bolts, because these are been used for fixing the struts.

It is very safe to handle the frames with forklift by special channels for the forks, thus a slipping of the lifted stacks is not possible.



Vertical frame

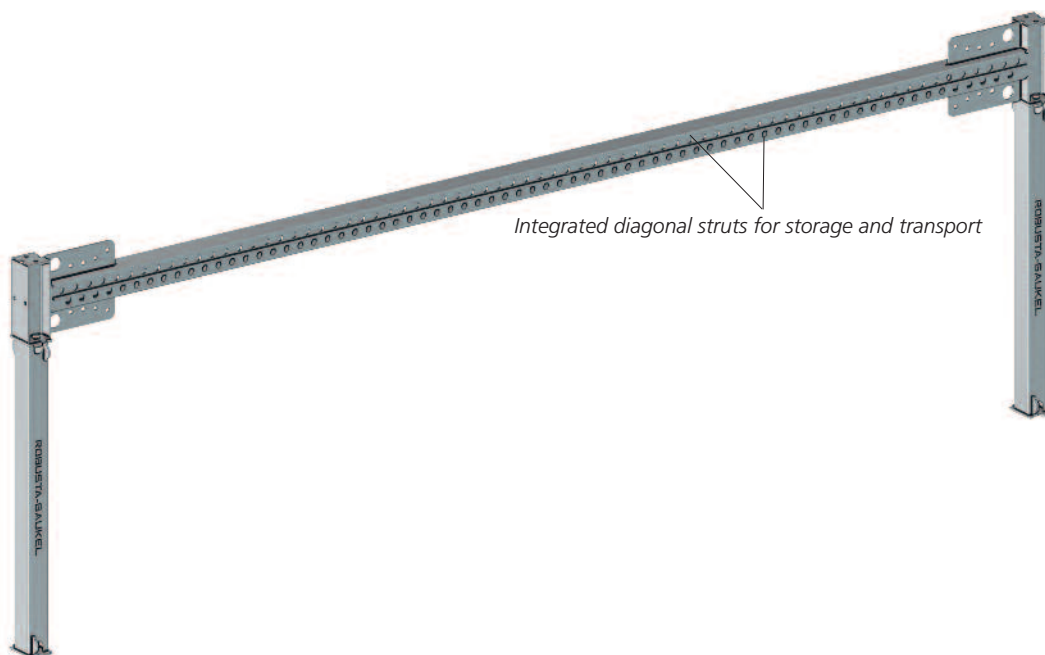
The vertical frame has been built up symmetrical. Up and down parts are totally same and installations mistakes can not occur any more.

The vertical frame consists of 2 pinhole girders, 2 vertical posts, 2 diagonal struts

Note:

This assembled state must be restored for the return transportation!



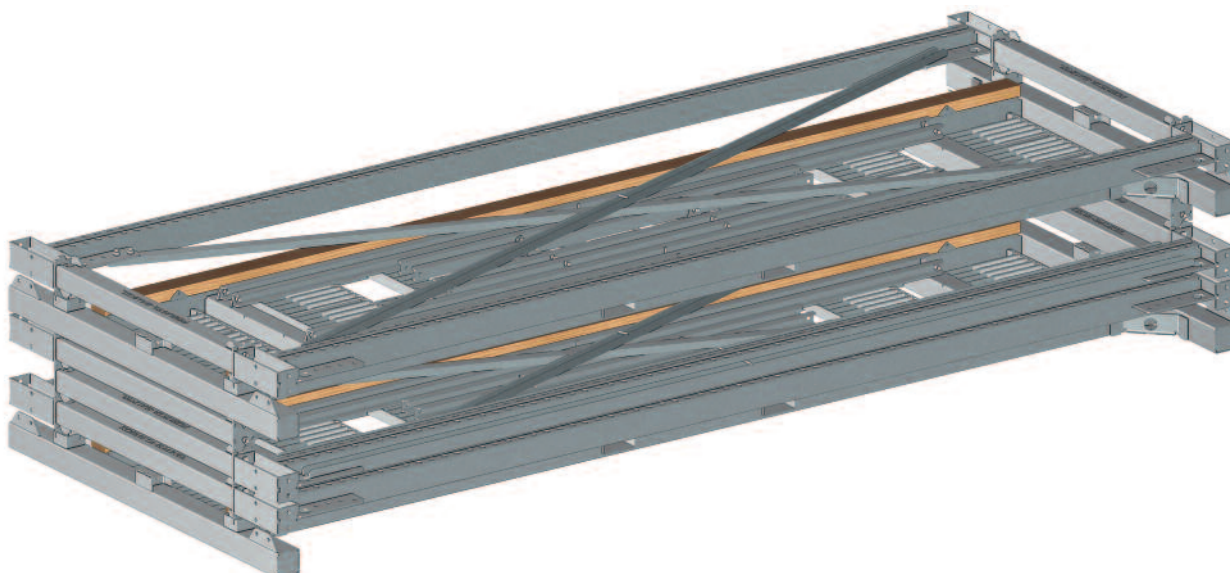


Extension element for DepoFlex 6000 (= DepoFlex 6000 Plus)

The extension element will be delivered to site as a preassembled component, it consists of 1 storing rail, 2 vertical posts and 2 diagonal struts.

For transportation the diagonal struts are fixed to the junction plates, no danger of damage because they are aligned close to the storing rail.

By that the screws for the connection to the basic element are fixed safely.



Storage and transport

The preassembled structural components of the modular system can be stacked up one on another, therefore the slipping sideways will be prevented safely.

The special feature of the stacking guidance allows you to place the single structural components in any arrangement upon the other.

For the transportation by forklift we recommend however to place a ground frame at the bottom generally.

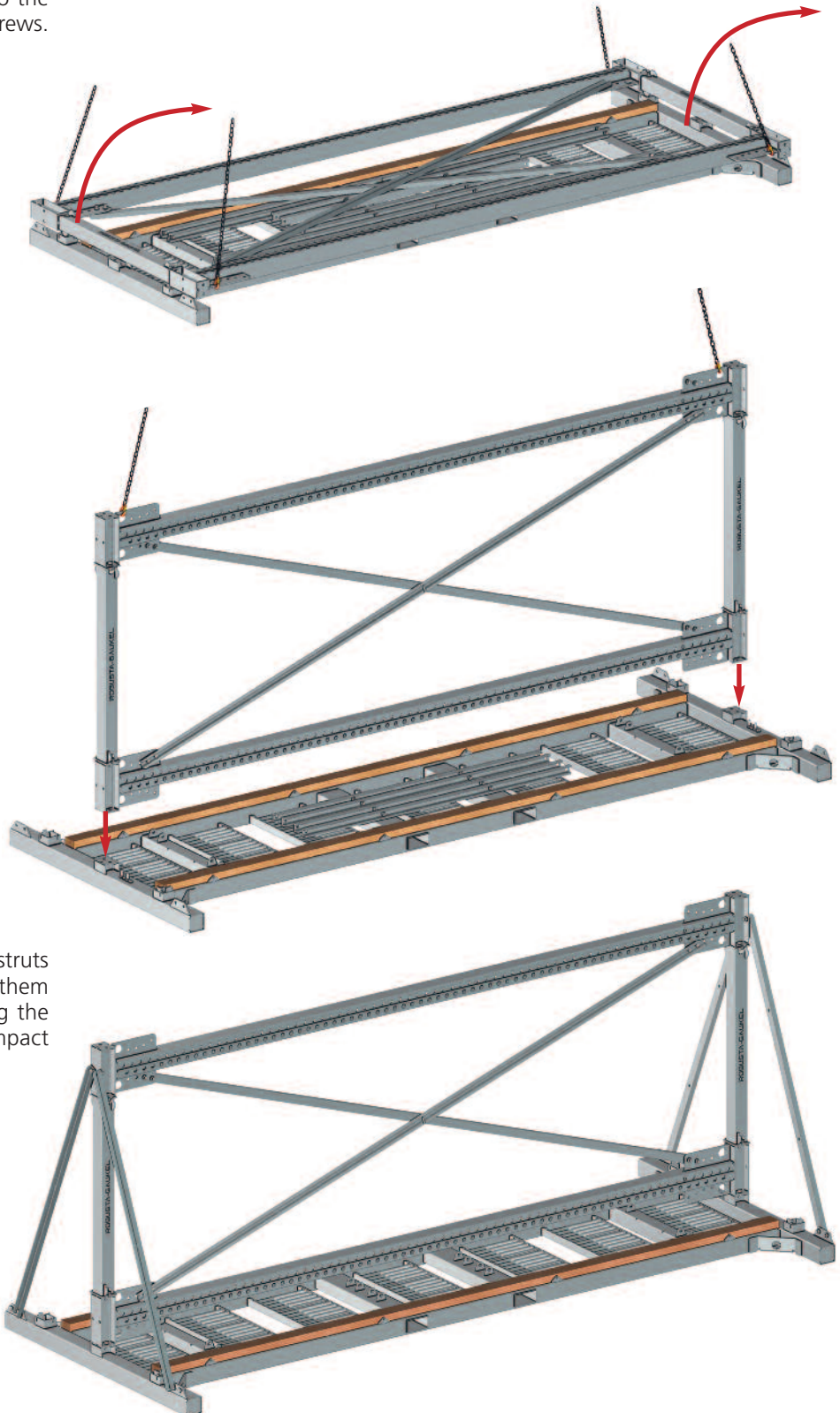
These qualities are valid for all new developed types of DepoFlex!





DepoFlex storage rack 6000 – quick and easy mounting, ready to use within only a few steps:

The preassembled basic frame with diagonal struts will be erected in one piece with the crane, placed onto the floor frame and fixed with 2 x 2 screws.



After this simply detach the cross struts off the floor frame and mount them with 2 screws each for stabilizing the storage rack against lateral impact loads.

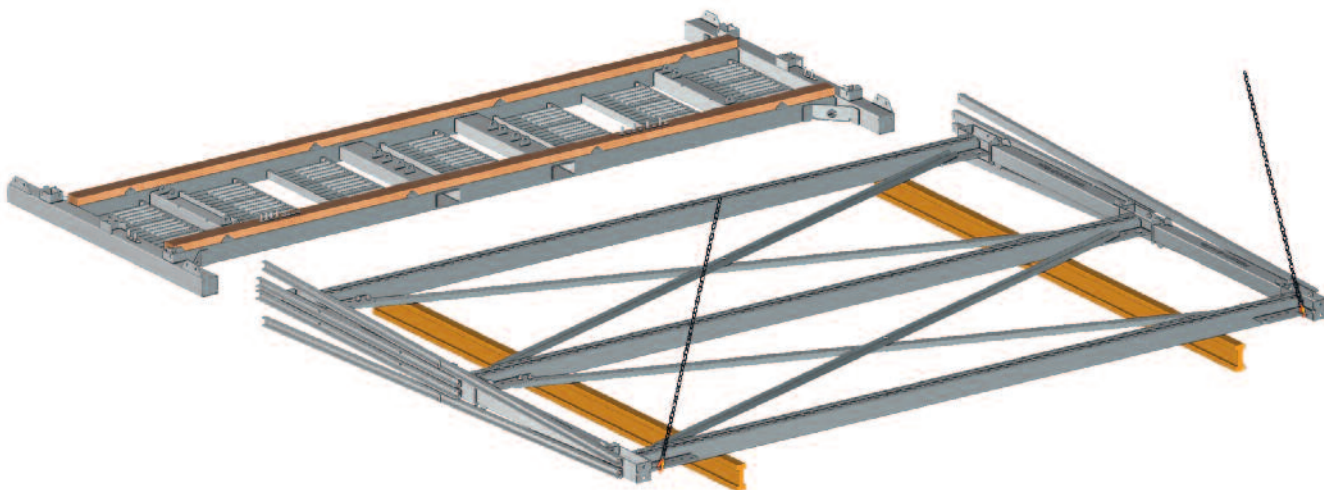




DepoFlex storage rack 6000 – with extension element (DepoFlex 6000 Plus)

An increasing of height to 4.60 m is made with the extension element.

For the lateral stiffening there are also 4 cross struts necessary, which are fixed safely in the floor frame for transportation.



Elements up to a height of 6.60 m can be set in thies extended DepoFlex.

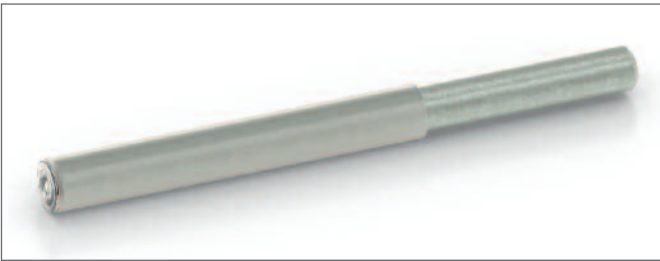


**Alternative:****perforated single girders as storing rail**

For universal fixing to firm columns or supports made of steel profiles or concrete. As an accessory 3 loose lashes are added, which are welded to the according points on the spot. These rails are available from stock in a standard length of 6 m. Other lengths are available on request.

Detail:

Because of the two staggered rows of holes in the perforated girders you will have a narrow spaced raster to insert the cotter pins, this guarantees a space saving narrow placement of the elements. An additional advantage: each element is free accessible and can be hung to the crane immediately without being disturbed by adjoining parts.

**Accessory: cotter pins**

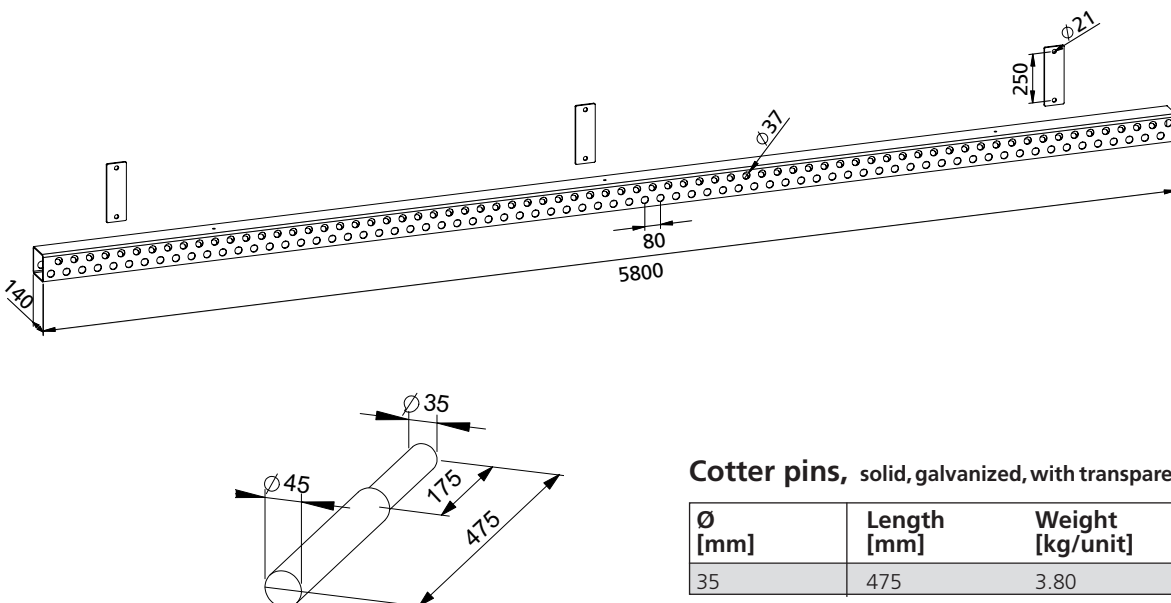
Stable cotter pins made of solid round bars, available with clear coating for sensitive prefab elements surfaces.

Important for the safe function of the cotter pin:

The coatings are used at the same time as an indicator for the correct insertion depth into the perforated girders. The end of the cotter pin has to stand over the other side of the perforated girder.

TECHNICAL DATA:**Storing rails for fixing to steel and concrete columns, galvanized**

Length [mm]	Weight [kg/unit]	Item No.
5800	150.0	712060

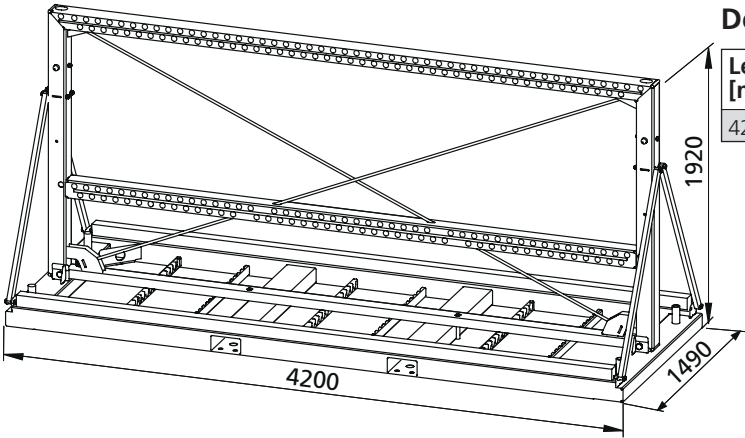
**Cotter pins, solid, galvanized, with transparent plastic coating**

Ø [mm]	Length [mm]	Weight [kg/unit]	Item No.
35	475	3.80	719902



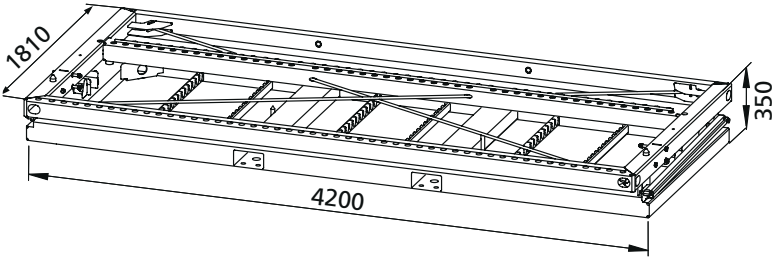


TECHNICAL DATA:



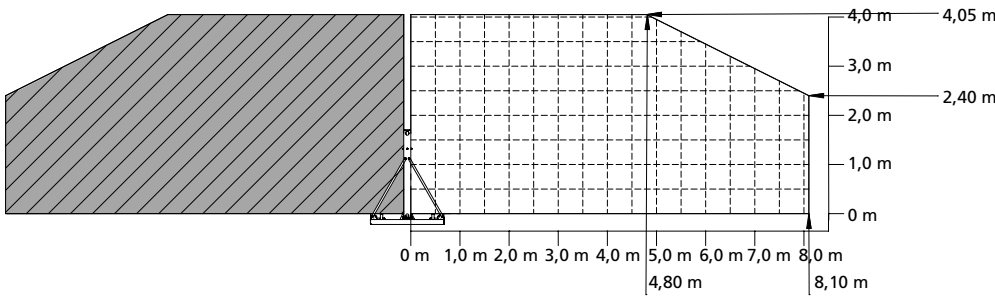
DepoFlex storage rack 4000, galvanized

Length [mm]	Width [mm]	Height [mm]	Weight [kg/unit]	Item No.
4200	1490	1920	570.0	715040



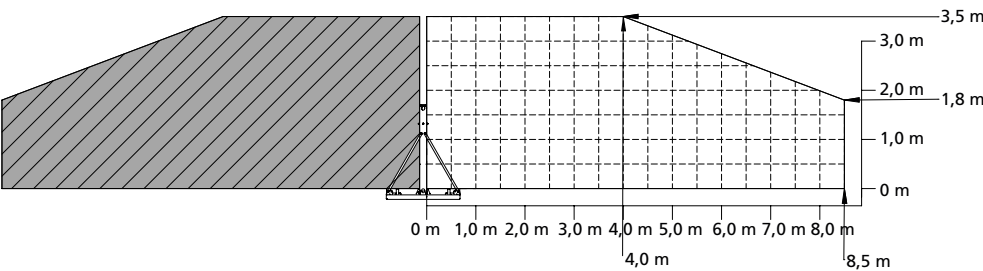
With use of wall formwork:

Max. dimensions of the wall elements ratio length/height
Max. length = 8.10 m, accoring height = 2.40 m
Max. height = 4.05 m, according length = 4.80 m

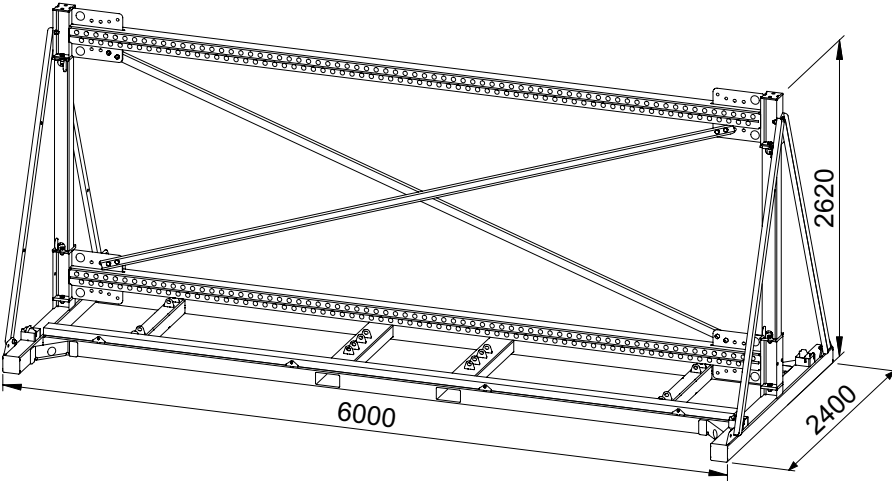


With the use of concrete prefab walls:

Max. dimensions of the wall elements ratio length/height
Max. length = 8.50 m, according height = 1.80 m
Max. height = 3.50 m, accoring length = 4.00 m

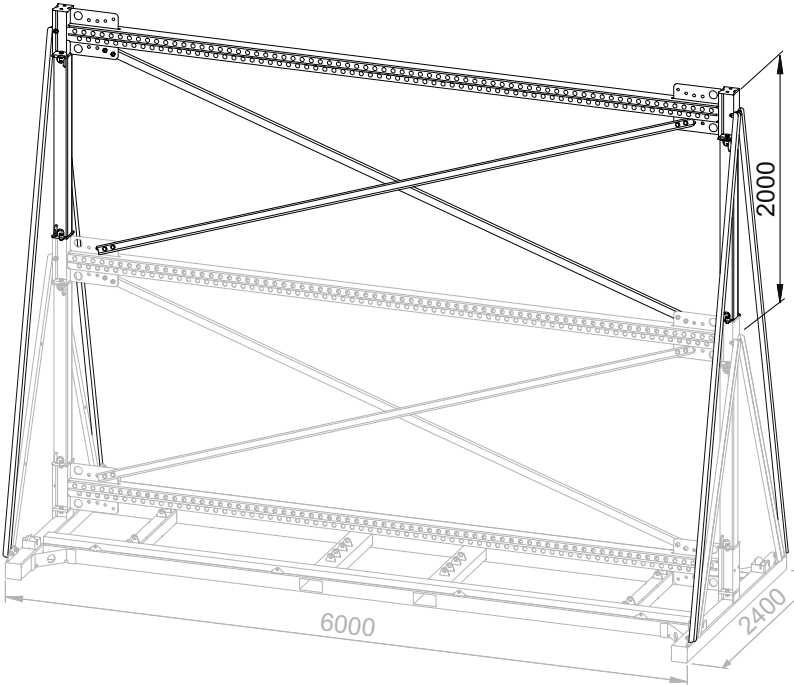
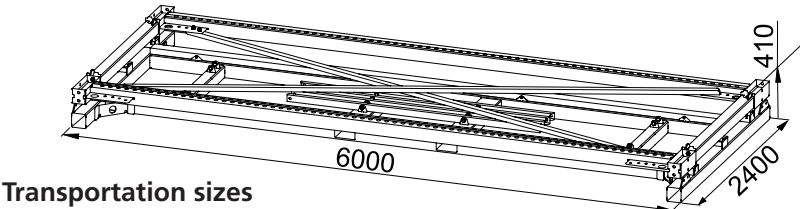


TECHNICAL DATA:



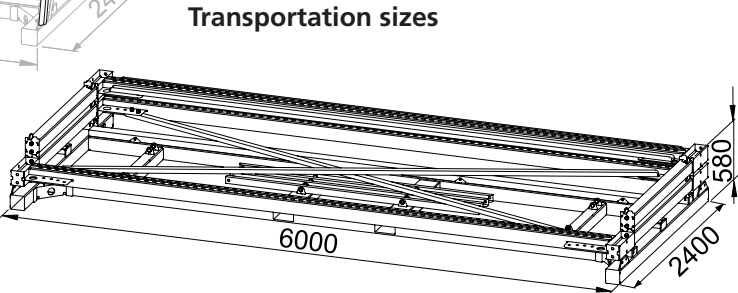
DepoFlex storage rack 6000
galvanized

Length [mm]	Width [mm]	Height [mm]	Weight [kg/Stck.]	Item No.
6000	2400	2620	1200.00	715060



Extension element
for DepoFlex storage rack 6000,
galvanized

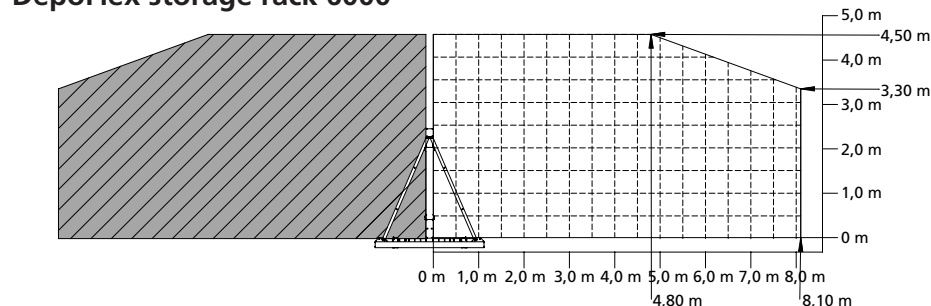
Length [mm]	Height [mm]	Weight [kg/unit]	Item No.
6000	2000	460.0	715065





TECHNICAL DATA:

DepoFlex storage rack 6000

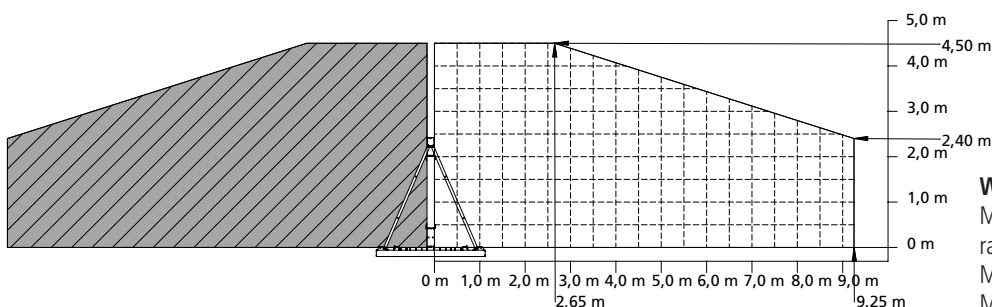


With the use of wall formwork:

Max. dimensions of the wall elements
ratio length/height
Max. L = 8.10 m, according H = 3.30 m
Max. H = 4.50 m, according L = 4.80 m

Example:

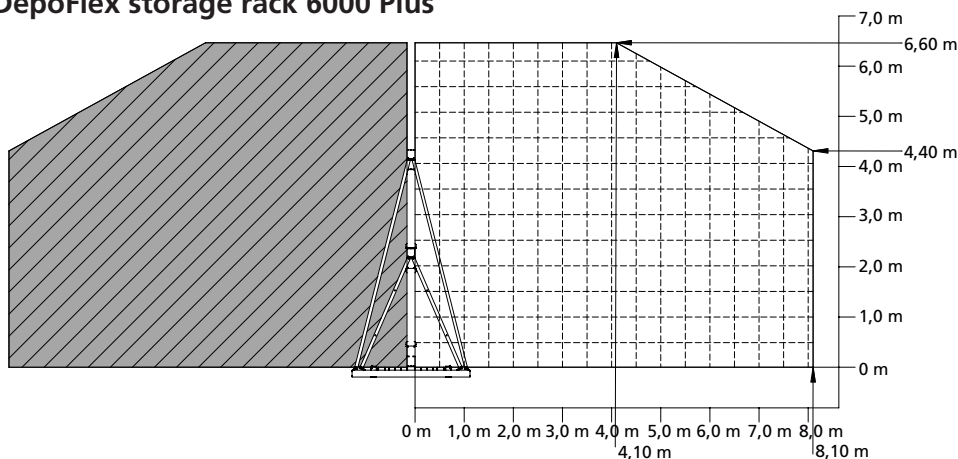
wall length = 6.0 m
-> acc. max. according wall height = 4.0 m



With use of prefab elements

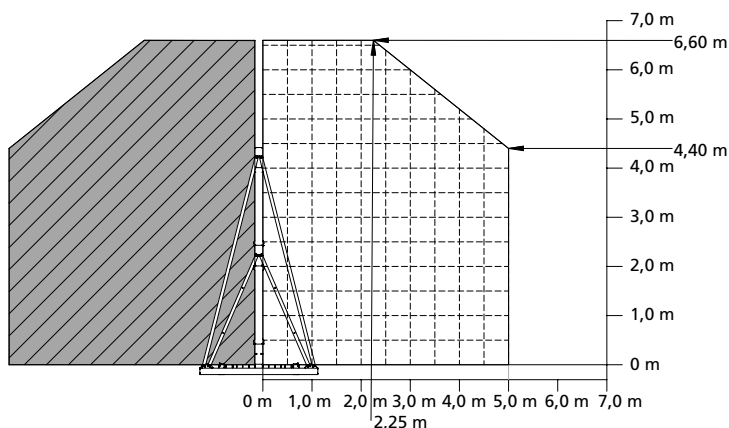
Max. dimensions of the prefab elements
ratio length/height
Max. L = 9.25 m, according H = 2.40 m
Max. H = 4.50 m, according L = 2.65 m

DepoFlex storage rack 6000 Plus



With the use of wall formwork:

Max. dimensions of the wall elements
ratio length/height
Max. L = 8.10 m, according H = 4.40 m
Max. H = 6.60 m, according L = 4.10 m

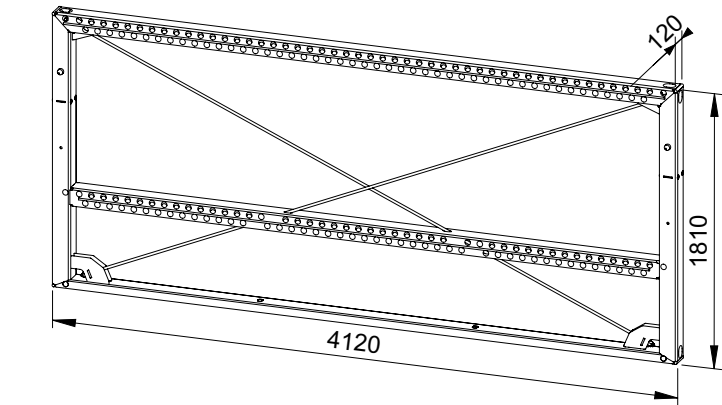


With the use of prefab elements:

Max. dimensions of the prefab elements
ratio length/height
Max. L = 5.00 m, according H = 4.40 m
Max. H = 6.60 m, according L = 2.25 m

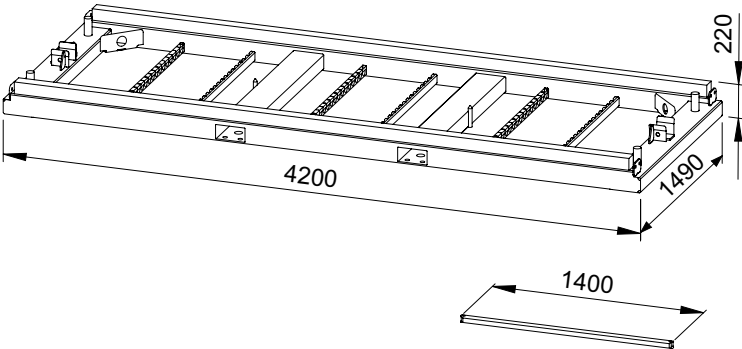


TECHNICAL DATA:



Vertical frame 4000, galvanized

Weight [kg/unit]	Item No.
300.0	950961

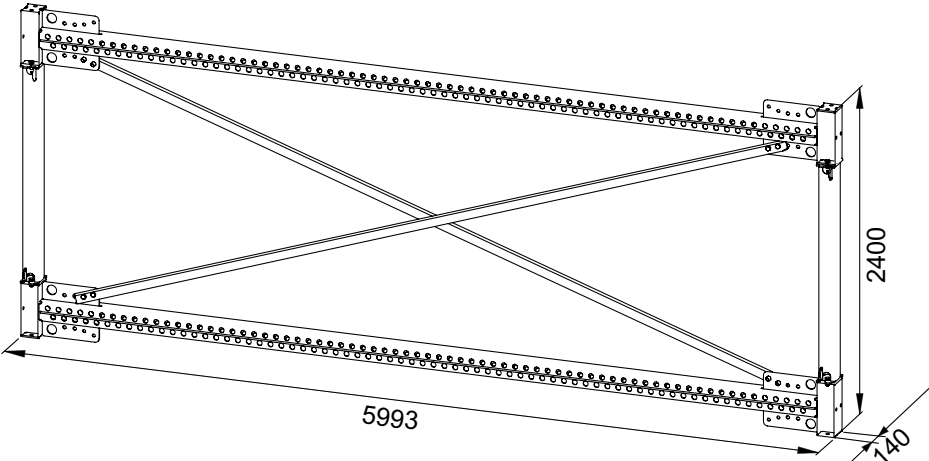


Floor frame 4000, galvanized

Weight [kg/unit]	Item No.
246.0	950960

Cross strut, galvanized

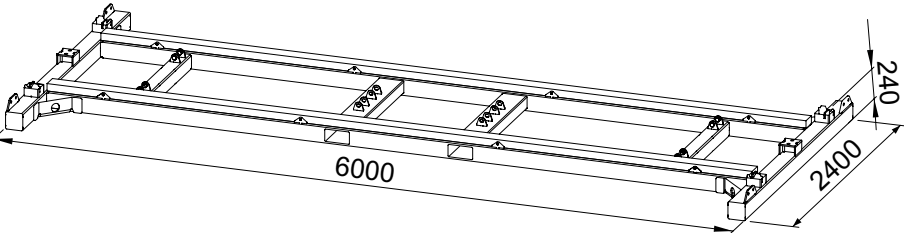
Weight [kg/unit]	Item No.
6.0	950954



Vertical frame 6000, galvanized

Weight [kg/unit]	Item No.
500.0	715064

consisting of 2 storing rails and 2 vertical postsaus
Pre-mounted delivery
Please do not dismount for back delivery!



Floor frame 6000, galvanized

Weight [kg/unit]	Item No.
512.0	715061

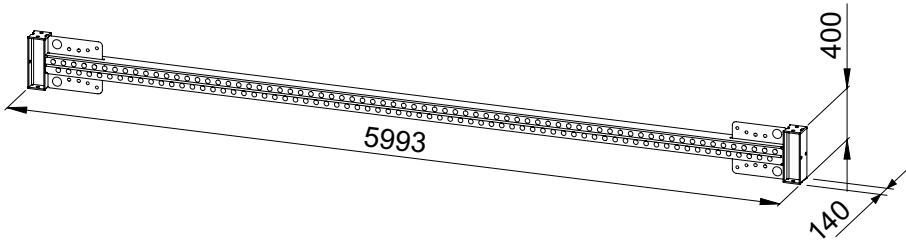


DEPOFLEX STORAGE RACKS AND ACCESSORIES

7

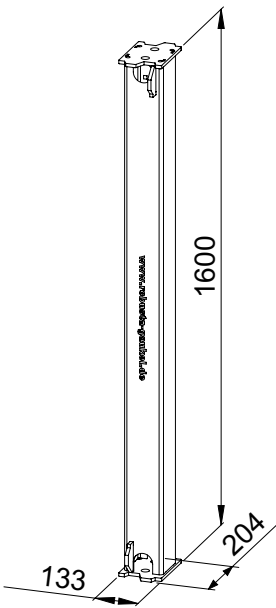
SINGLE PARTS DEPOFLEX 6000 AND 6000 PLUS

TECHNICAL DATA:



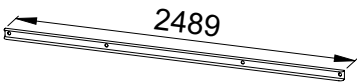
Storing rail, galvanized

Weight [kg/unit]	Item No.
184,0	715062



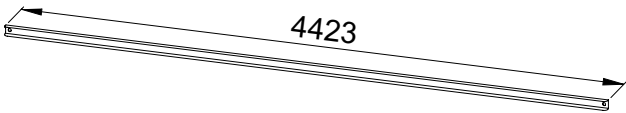
Vertical post, galvanized

Weight [kg/unit]	Item No.
25.9	715063



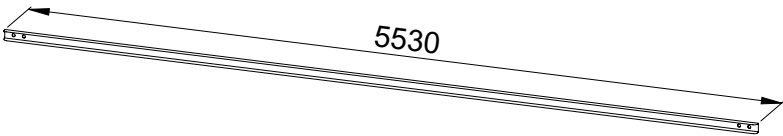
Cross struts 6000, galvanized

Length [mm]	Weight [kg/unit]	Item No.
2489	18.0	950678



Cross struts 6000 Plus, galvanized

Length [mm]	Weight [kg/unit]	Item No.
4423	32.0	950679



Diagonal struts, galvanized

Length [mm]	Weight [kg/unit]	Item No.
5330	40,0	960677



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