

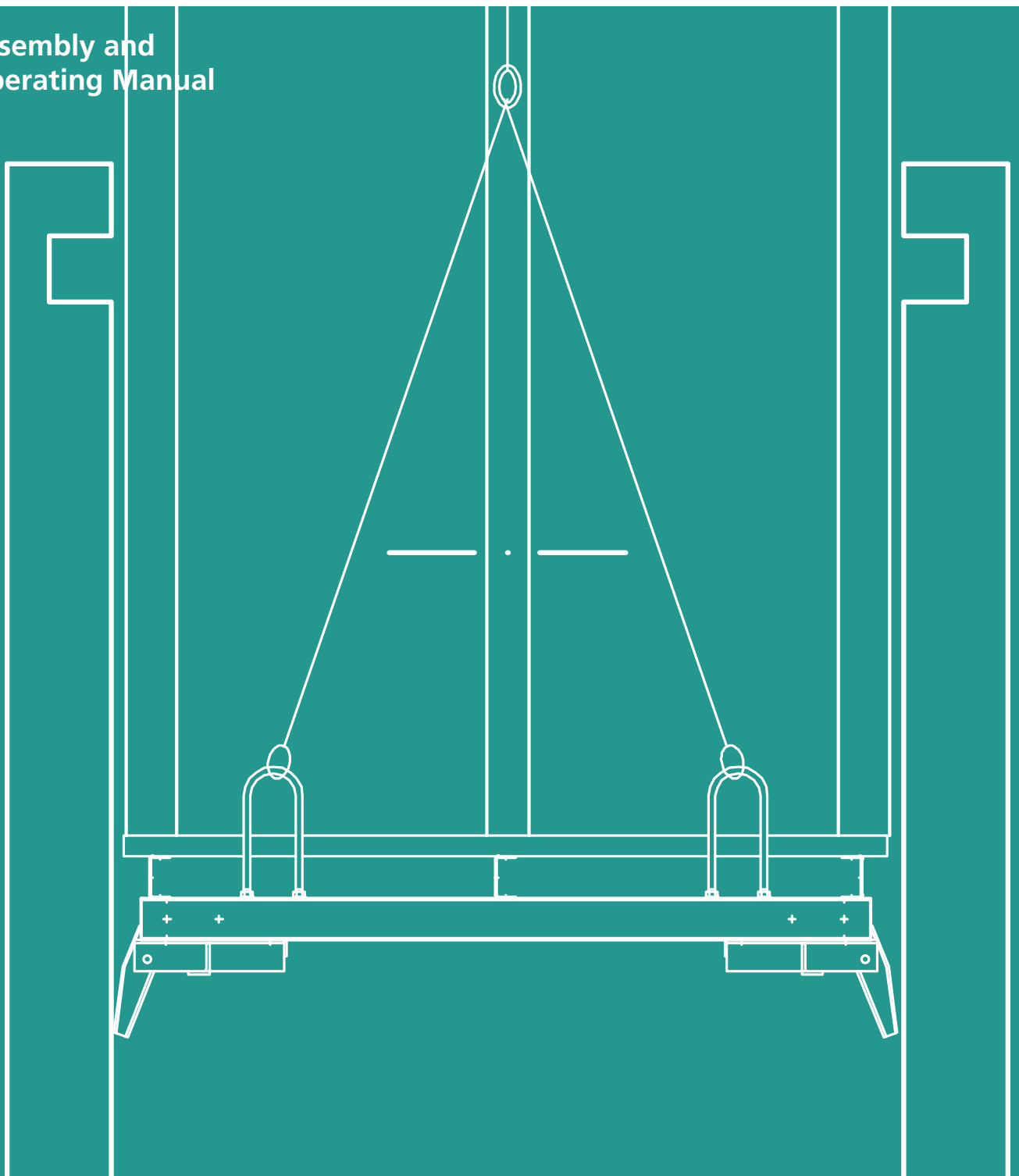


THE FORMWORK

NOE[®] Lifting platform

Dated: 08.2019

Assembly and
Operating Manual



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1 Safety advice, GSV guidelines

Advice on proper and safe use of formwork and falsework

The contractor is responsible for drawing up a comprehensive risk assessment and a set of installation instructions. The latter is not usually identical to the assembly and use instructions.

- **Risk assessment:** The contractor is responsible for the compilation, documentation, implementation and revision of a risk assessment for each construction site. His employees are obliged to implement the measures resulting from this in accordance with all legal requirements.
- **Installation instructions:** The contractor is responsible for compiling a written set of installation instructions. The assembly instructions form part of the basis for the compilation of a set of installation instructions.
- **Assembly and use instructions:** Formwork is technical work equipment and is intended for commercial use only. It must be used properly and exclusively through trained specialist personnel and appropriately qualified supervising personnel. The assembly and use instructions are an integral component of the formwork construction. They comprise at least safety guidelines, details on the standard configuration and proper use, as well as the system description. The functional instructions (standard configuration) contained in the assembly instructions are to be complied with exactly as stated. Enhancements, deviations or changes represent a potential risk and therefore require separate verification (with the help of a risk assessment) or a set of installation instructions that comply with the relevant laws, standards and safety regulations. The same applies in those cases where formwork and/or falsework components are provided by others on site.
- **Availability of the assembly and use instructions:** The contractor must ensure that the assembly and use instructions provided by the manufacturer or formwork supplier are available at the place of use, that site personnel are informed of this before assembly and use takes place, and that they are available at all times.
- **Representations:** The representations (drawings, diagrams etc.) shown in the assembly instructions are, in part, situations of assembly and not always complete in terms of safety considerations. Any safety installations that may not have been shown in these representations must nevertheless be available.
- **Storage and transportation:** Any special requirements relating to transportation procedures and storage of the formwork constructions must be complied with. An example would be the use of the appropriate lifting gear.
- **Material check:** Formwork and falsework material deliveries are to be checked on arrival at the construction site/place of destination as well as before each use to ensure that they are in perfect condition and function correctly. Changes to the formwork materials are not permitted.
- **Spare parts and repairs:** Only original components may be used as spare parts. Repairs are to be carried out by the manufacturer or at authorised repair facilities only.
- **Use of other products:** Combining formwork components from different manufacturers carries certain risks. They are to be individually verified and can result in the compilation of a separate set of assembly instructions required for the installation of the equipment.
- **Use of other products:** Individual safety symbols are to be complied with. Examples:



Safety information: Non-compliance can lead to damage to materials or risk to the health of site personnel (also life).



Visual check: The intended operation is to be subject to a visual check.

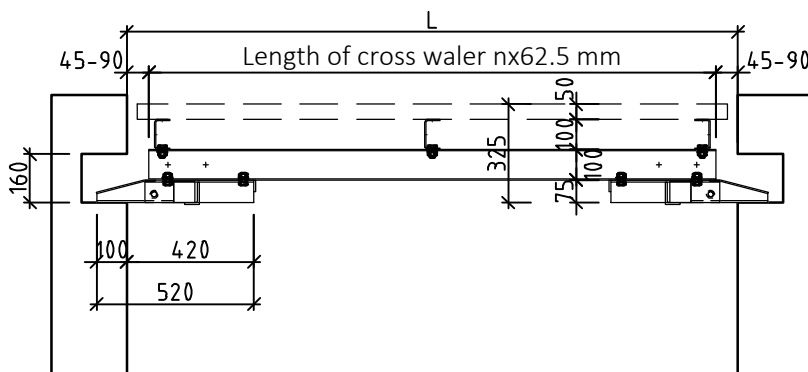
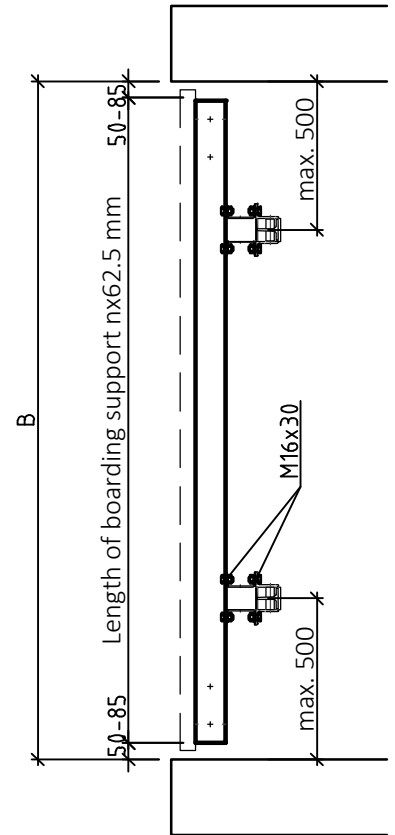
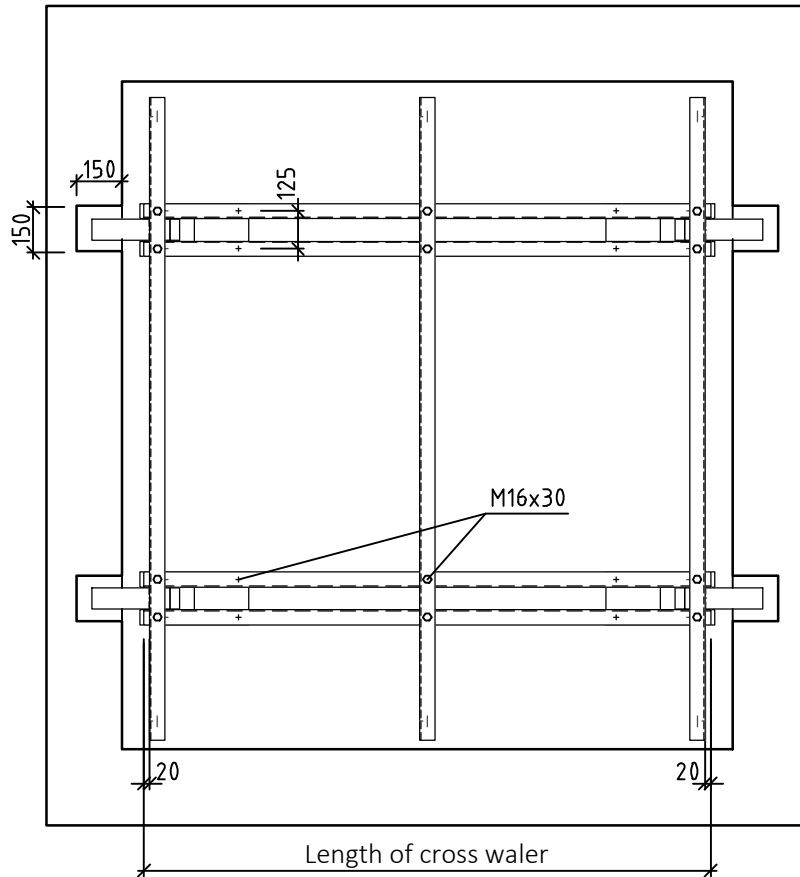


Note: Supplementary information for safe, correct and professional execution of work activities.

- **Miscellaneous:** We reserve the right to make amendments in the course of technical development. All current country-specific laws, standards and other safety regulations are to be complied with without exception for the safe application and use of the products. They form a part of the obligations of employers and employees regarding industrial safety. This gives rise to, among other things, the responsibility of the contractor to ensure the stability of the formwork and falsework constructions as well as the structure during all stages of construction, which also includes the basic assembly, dismantling and the transport of the formwork and falsework constructions or their components. The complete construction is to be checked during and after assembly.

2 Small version with 4 swivel arms

All. moment MH channel 2.6 kNm
All. swivel arm load 14 kN
Boarding thickness 40 - 50 mm



Part No.	Description	No.
26....	MH walers	4
26....	MH boarding support	3
926500	Gravity shoe	4
725200	Shackle	4
313200*	Bolt M16x30 m. N+W	28

* Hire only! For purchase see the price list for formwork and scaffold accessories.
For attachment of shackle and boarding see detail.

Determination of the length of the HL channels of the lifting platforms

Length of the cross water

$$n = (L - 180) / 62.5 \text{ (mm)}$$

Value n rounded to next integer

$$X = n \times 62.5 \text{ (mm)}$$

Length of the boarding support

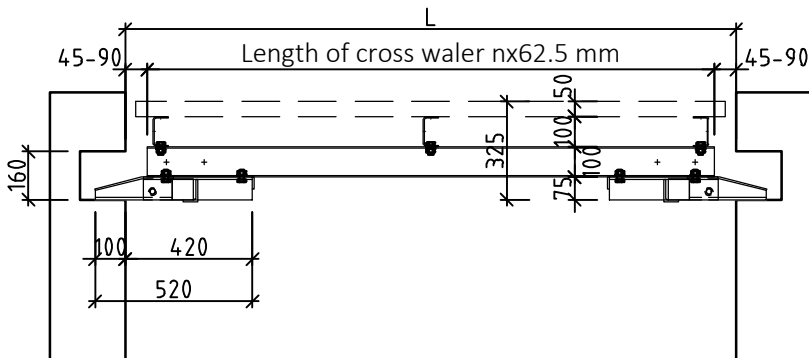
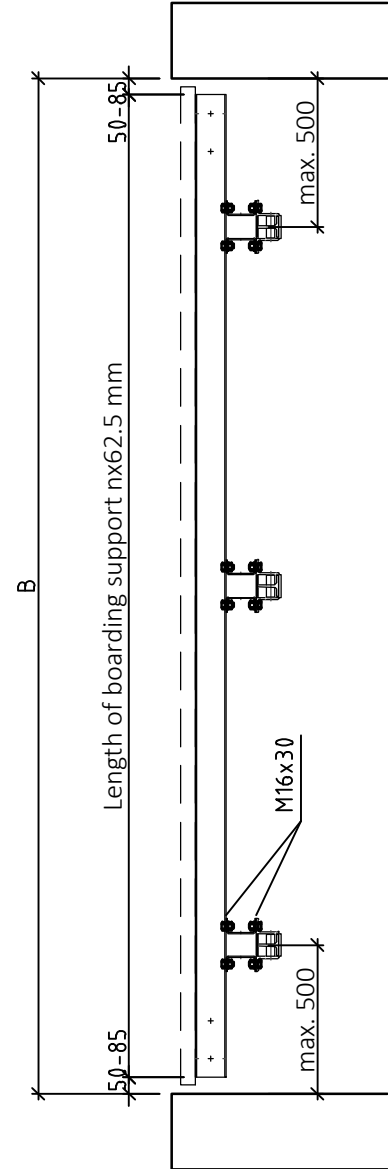
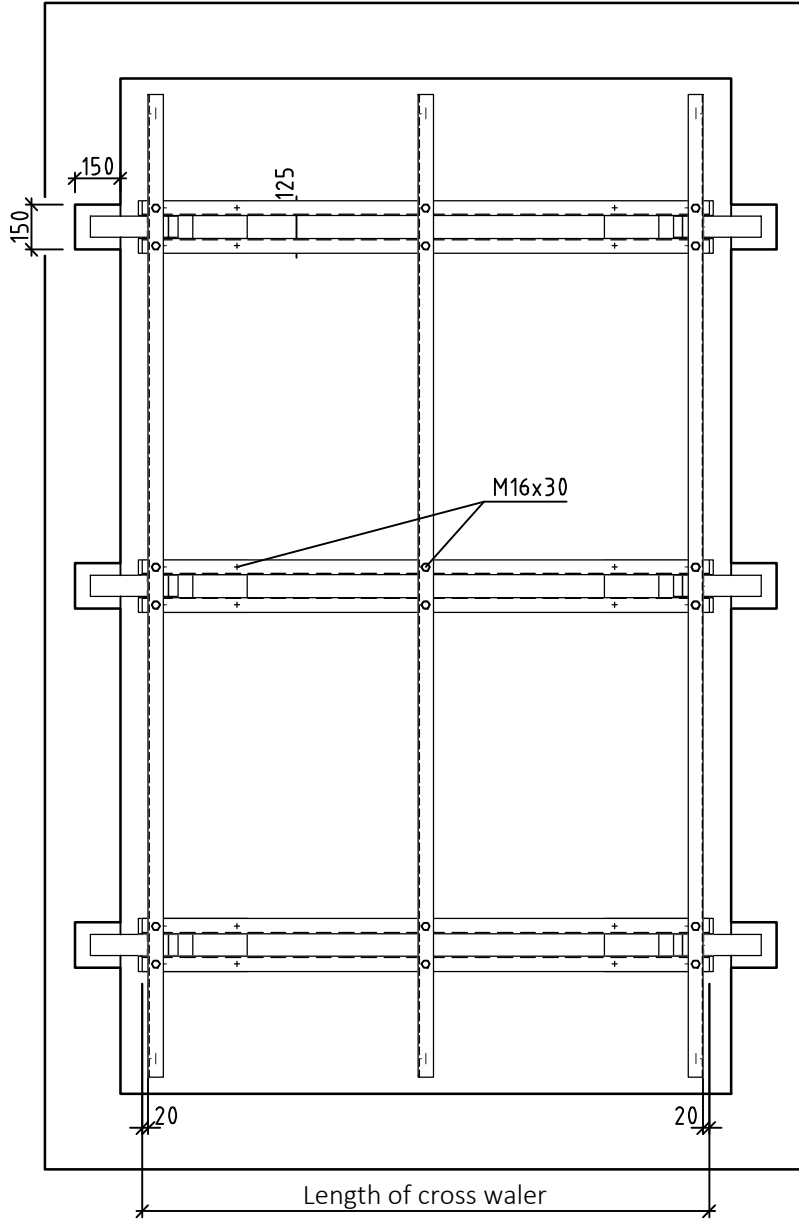
$$n = (B - 170) / 62.5 \text{ (mm)}$$

Value n rounded to next integer

$$Y = n \times 62.5 \text{ (mm)}$$

3 Large version with 6 swivel arms

All. moment MH channel 2.6 kNm
All. swivel arm load 14 kN
Boarding thickness 40 - 50 mm



Part No.	Description	No.
26....	MH walers	6
26....	MH boarding support	3
926500	Gravity shoe	6
725200	Shackle	4
313200*	Bolt M16x30 m. N+W	42

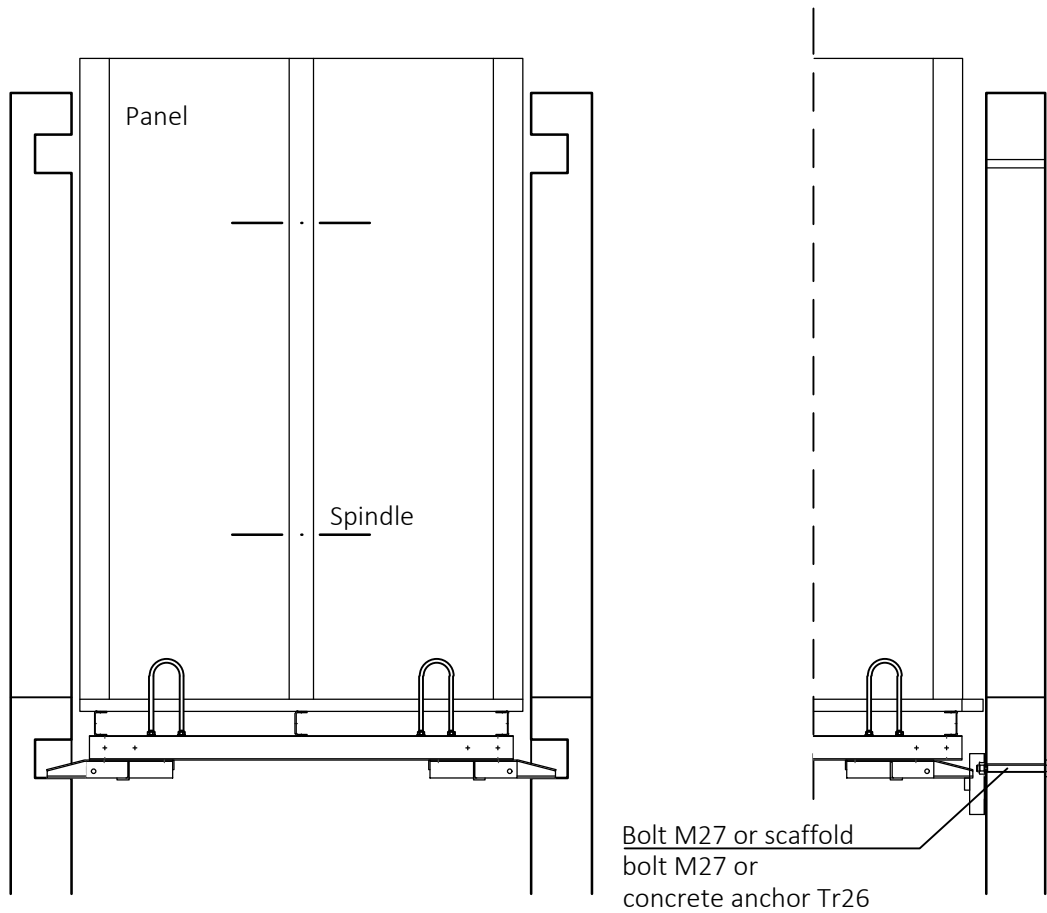
* Hire only! For purchase see the price list for formwork and scaffold accessories.
For attachment of shackle and boarding see detail.

4 Construction process

Version with recesses

Version with bearing shoes

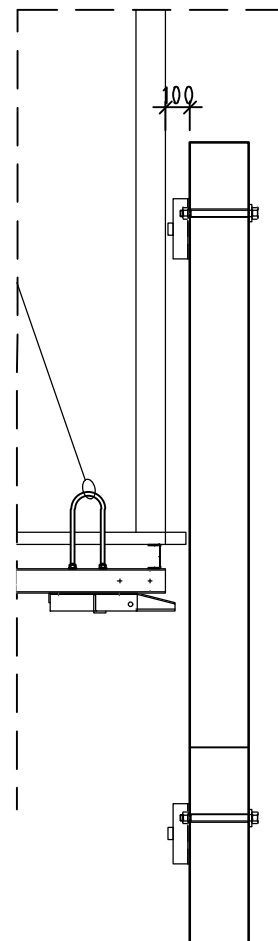
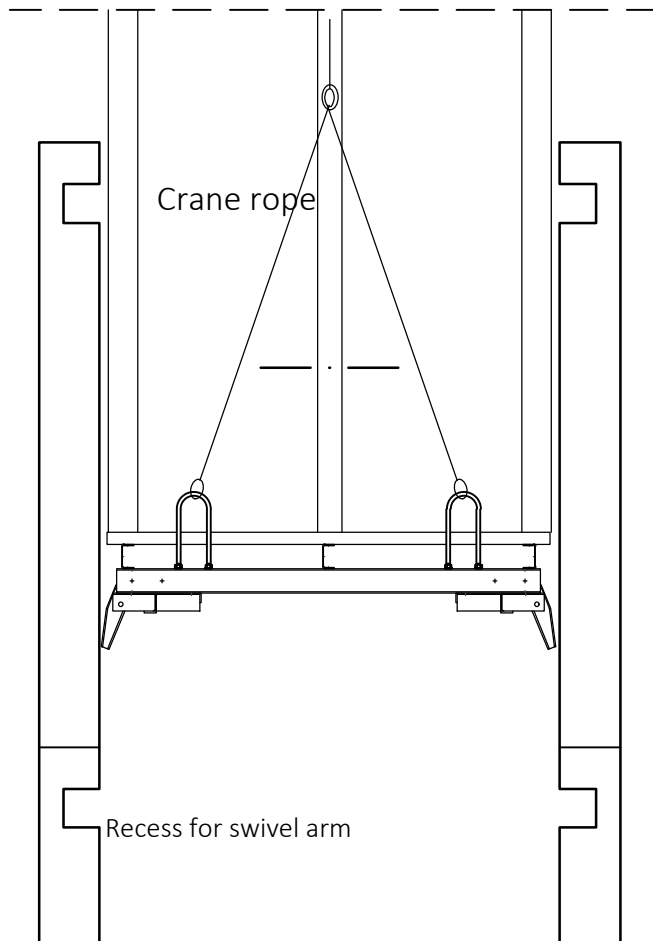
4.1 Fold panels together, attach crane rope and pull lifting platform upwards.



Version with recesses

Version with bearing shoes

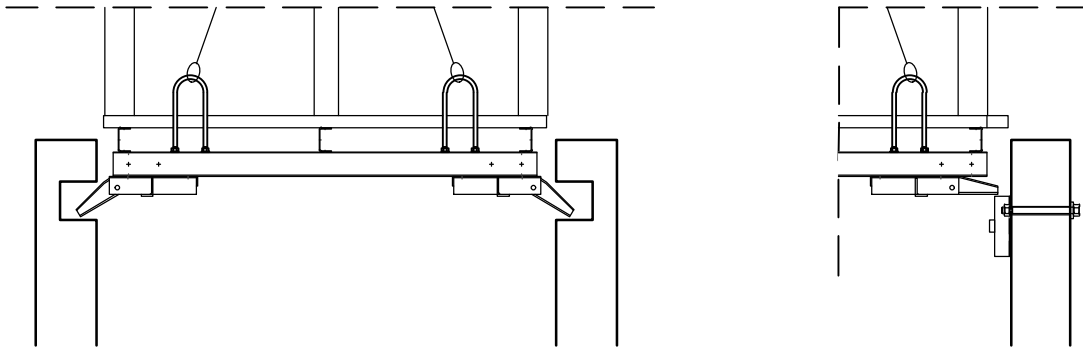
4.2 Repositioning the lifting platform and platform together.



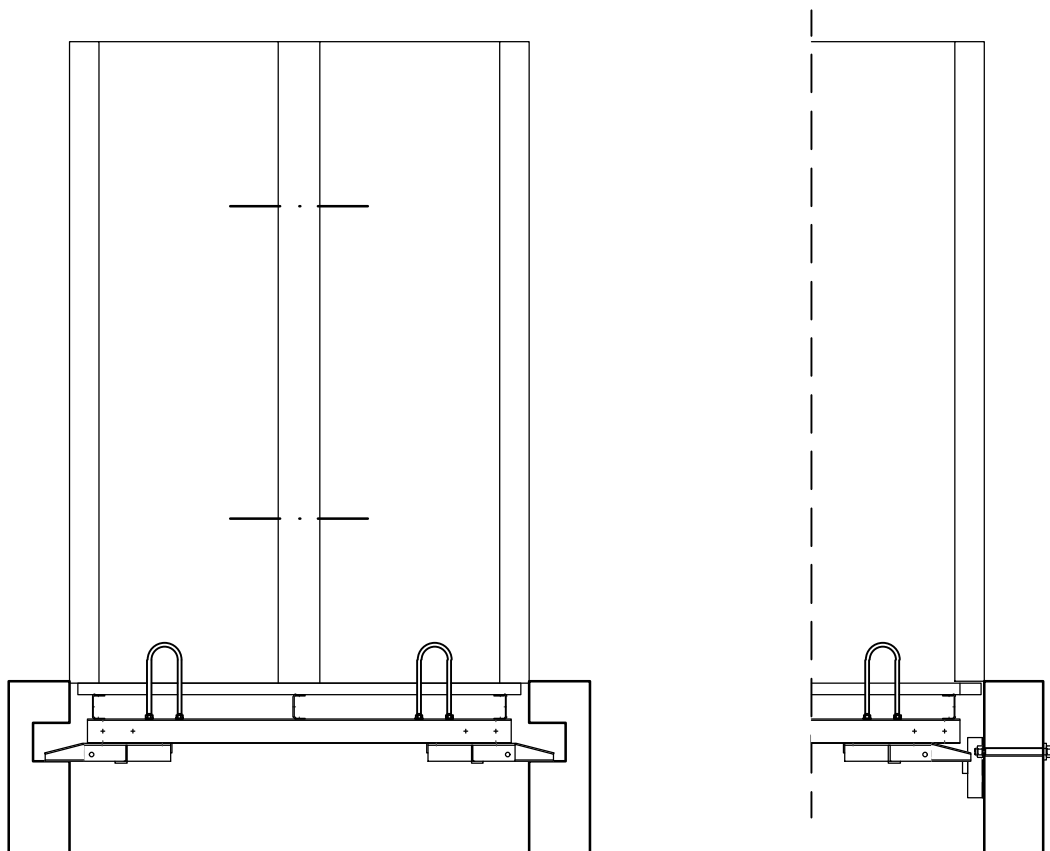
Version with recesses

Version with bearing shoes

4.3 Pull up the lifting platform until the swivel arms engage into recesses or the suspension shoes.

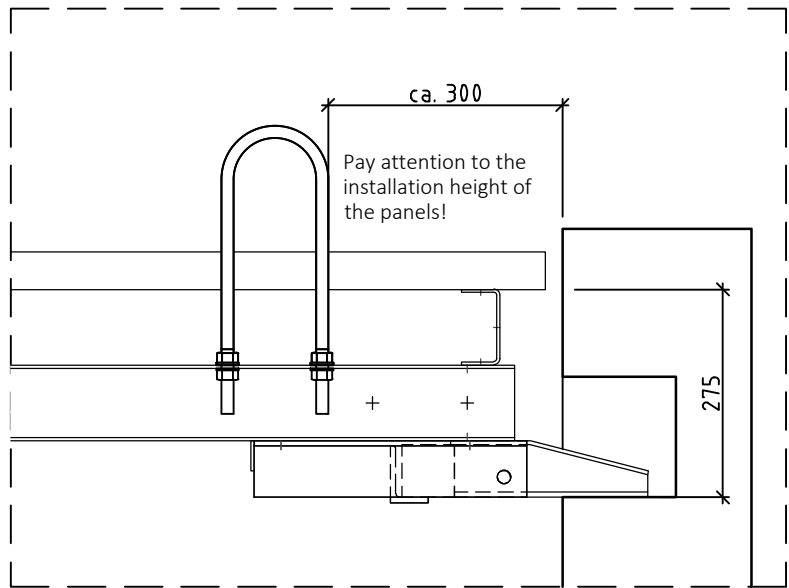


4.4 Lower lifting platform, attach crane rope and fold out panel.

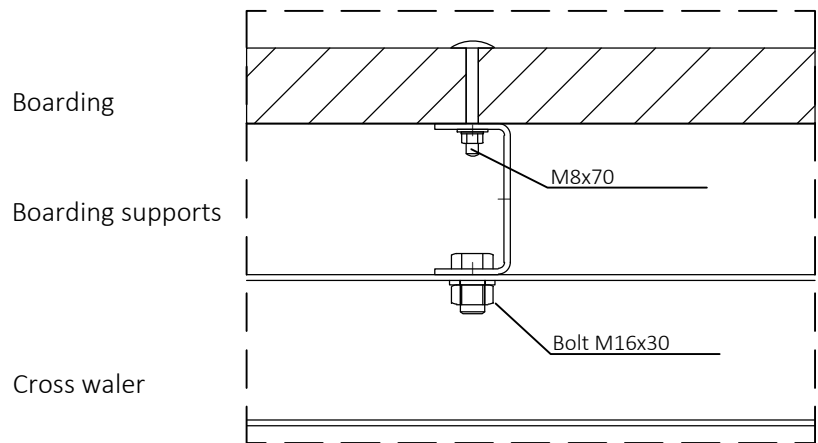


5 Details

This is not possible, for example, with the NOEtop external corner.



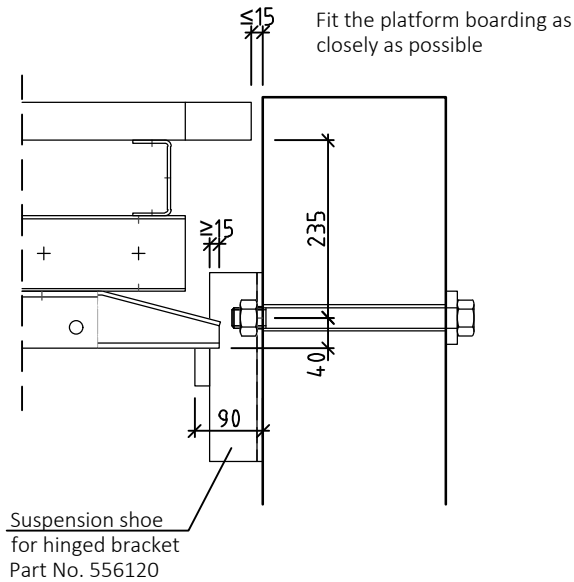
Attachment detail boarding and support



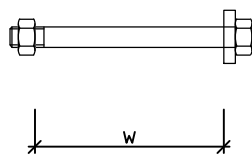
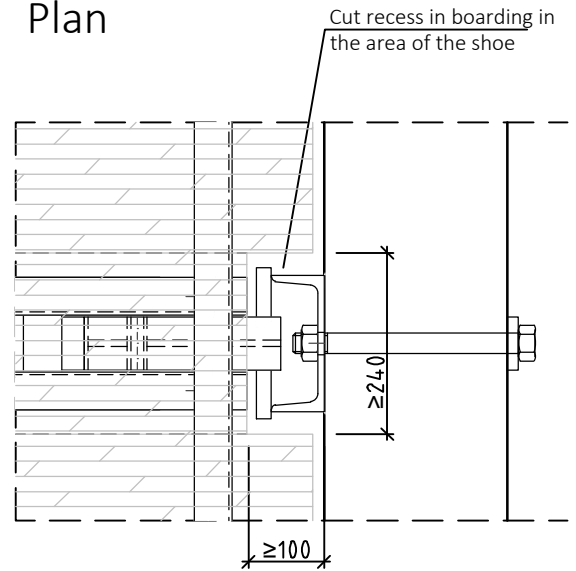
Panels must be able to be brought together at least 10 cm each side to clear the suspension shoe.
Pay attention to the length of the cross walers.

6 Attachment of suspension shoe

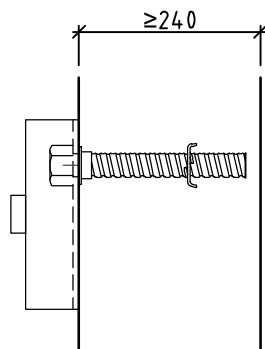
When using suspension shoes, it is possible to move the lifting platform with a formwork panel element attached to it only if the formwork panel element can be retracted in on itself by at least 10 cm each side. This is not possible, for example, with the NOEtop external corner.



Plan



Scaffold bolt M27
Part No. 3125.. (dependent on wall thickness)
Nut M27 Part No. 317600

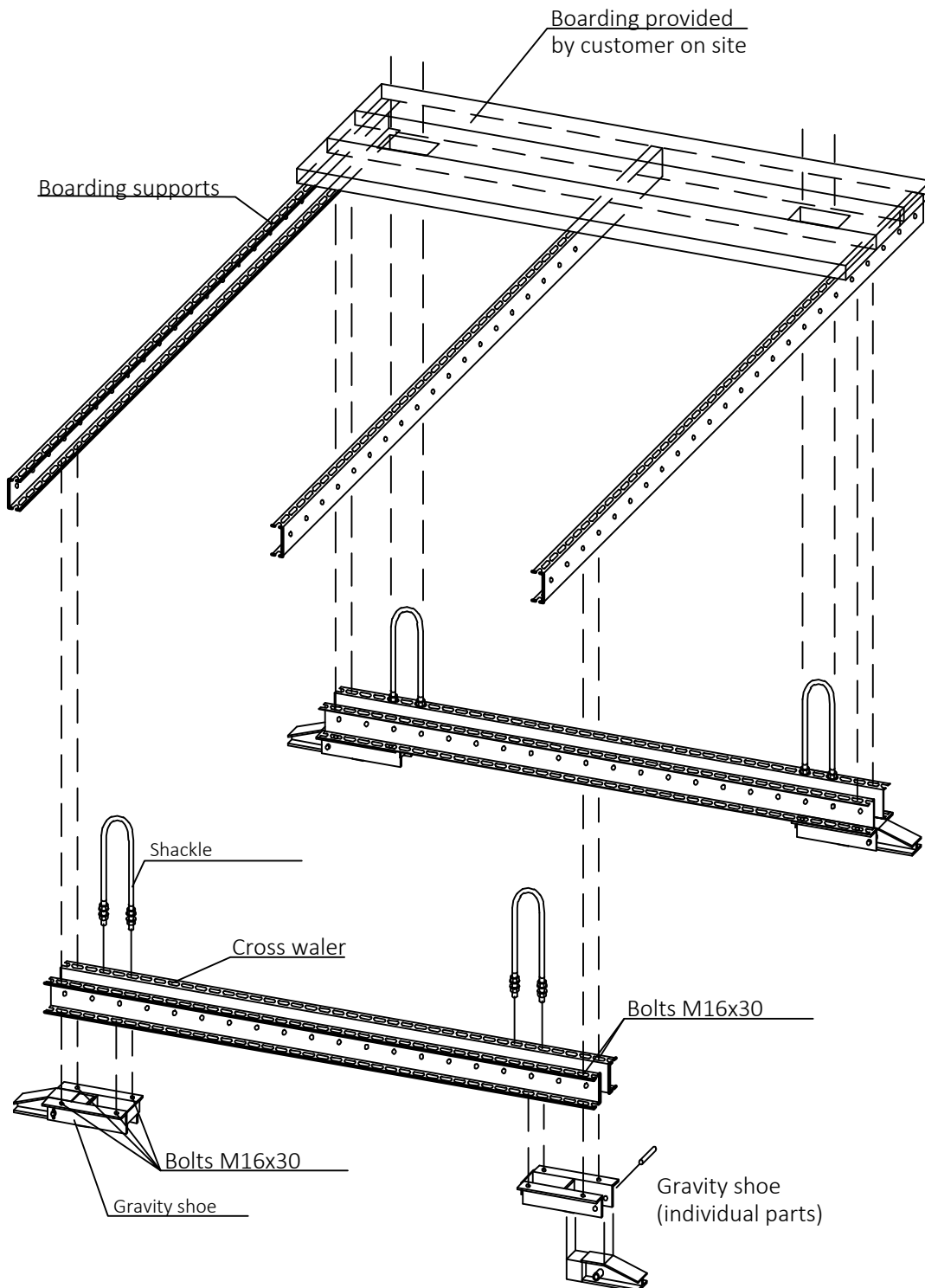


ANCHOR BOLT D. 26.5 - 200 MM
Part No. 810254, 1.36 kg
reusable

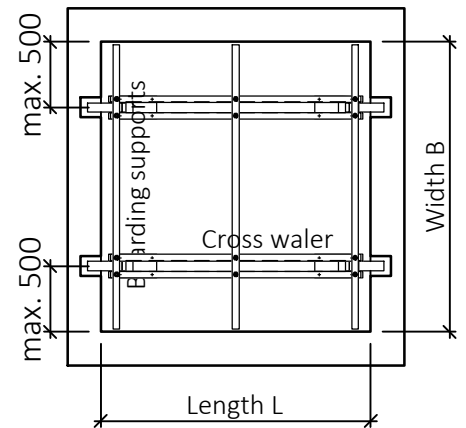
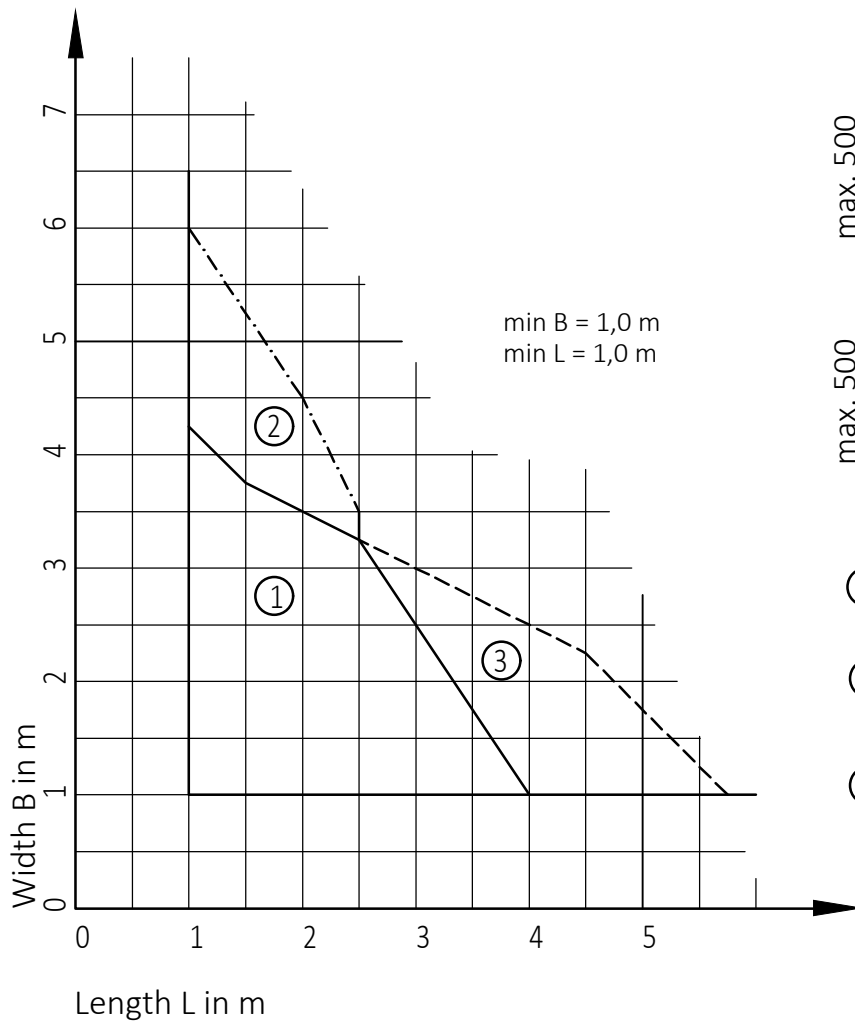


ANCHOR SLEEVE D.26.5 - 220 MM Part No. 810252, 0.11 kg
remains in concrete

7 Assembly process



8 Design chart small version



- ① Boarding supports MH channels
Cross walers MH channels
- ② Boarding supports C20S beams
Cross walers MH channels
- ③ Boarding supports MH channels
Cross walers C20S beams

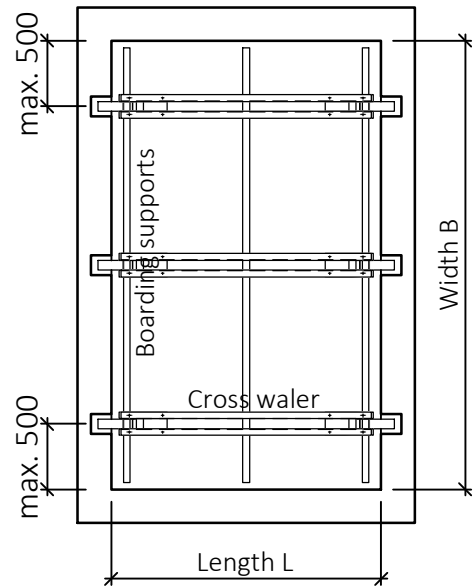
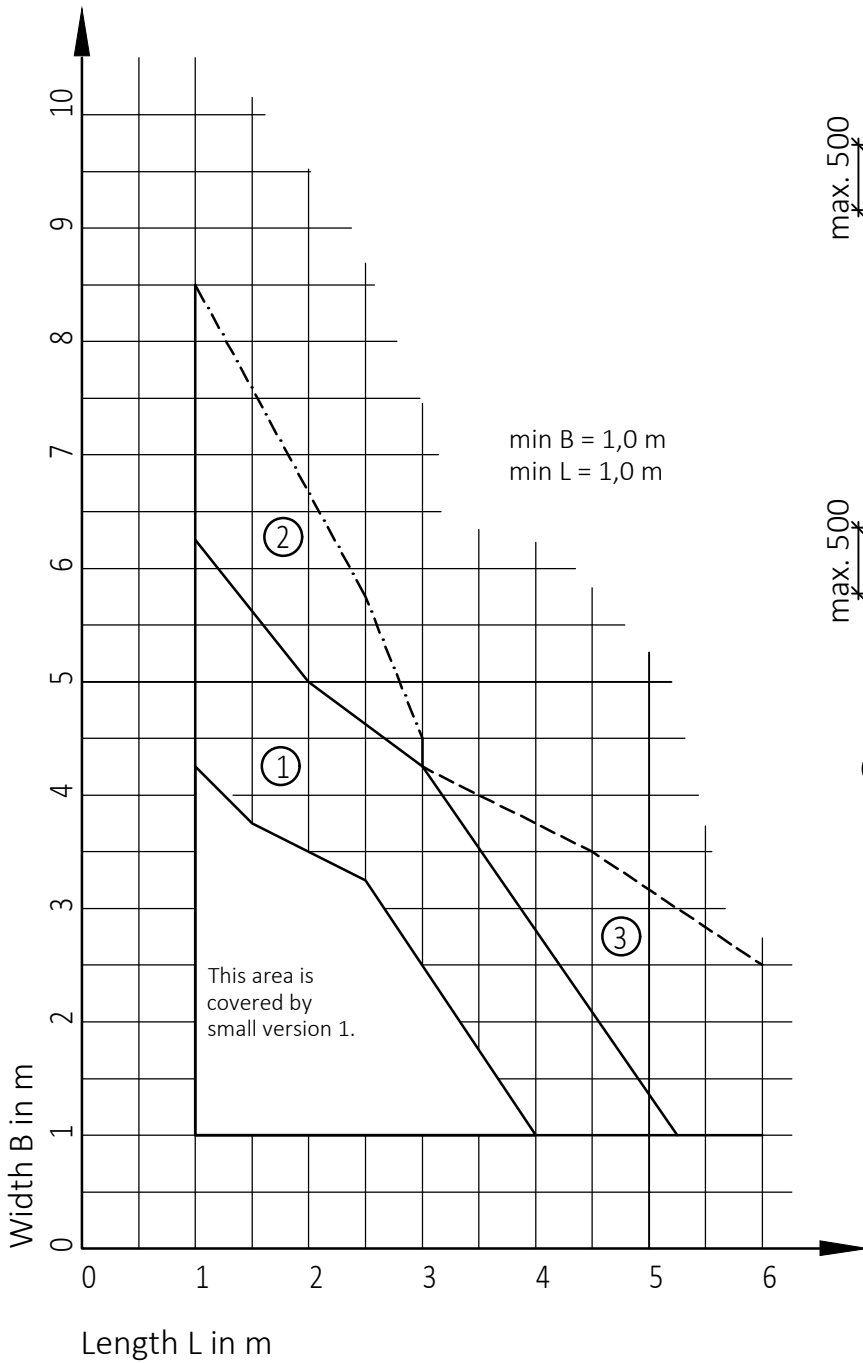
Design calculation principles

Self-weight	0.5 kN/m ²
Live load	1.0 kN/m ²
Panels peripheral load	3.0 kN/m

All. load on one swivel arm	14.0 kN
All. moment on multi-hole channel	2.6 kNm
All. moment on the C20S beam	7.6 kNm

Boarding thickness 40 - 50 mm	
Moment of inertia HL channel	$I = 92,6 \text{ cm}^4$
Moment of inertia C20S beam	$I = 543,0 \text{ cm}^4$

9 Design charts large version

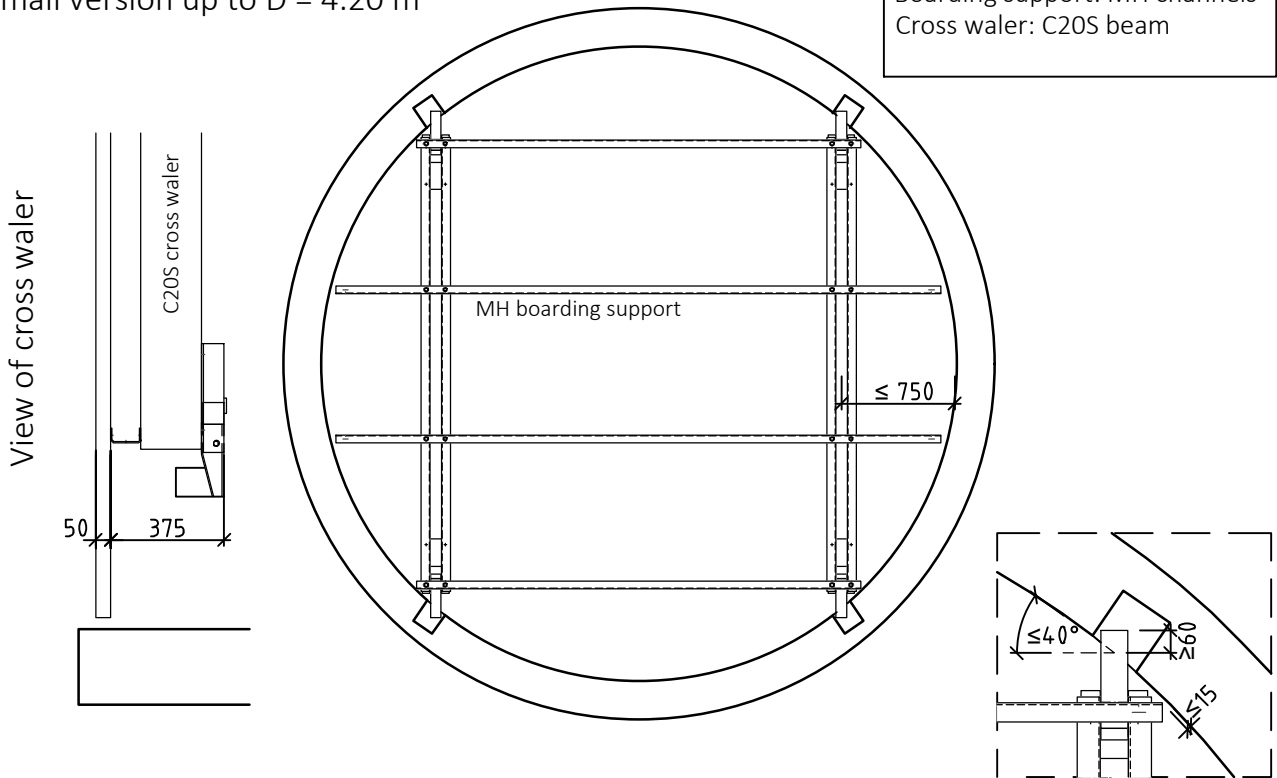


- ① Boarding supports MH channels
Cross walers MH channels
- ② Boarding supports C20S beams
Cross walers MH channels
- ③ Boarding supports MH channels
Cross walers C20S beams

10 Lifting platform for circular shafts

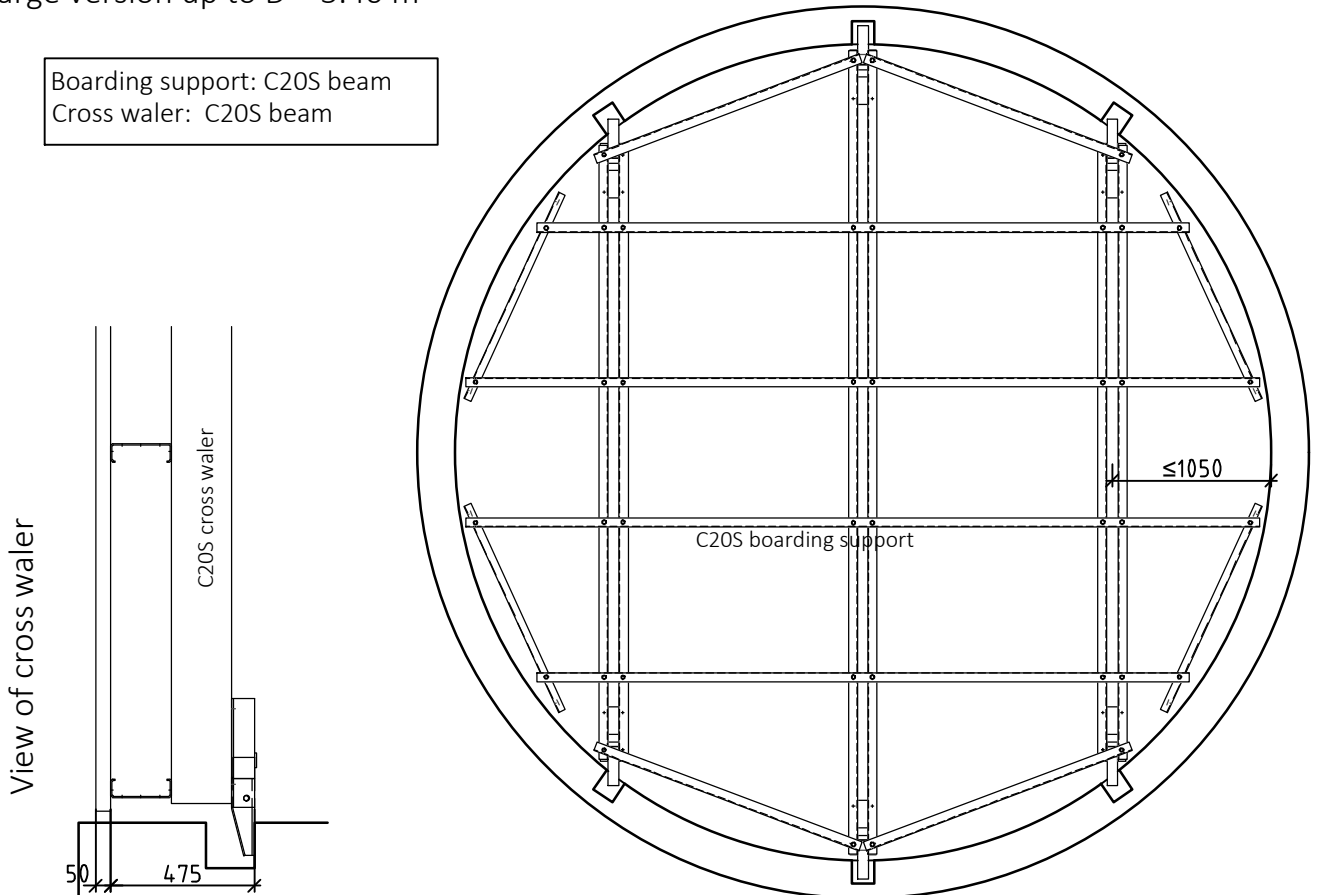
Small version up to D = 4.20 m

Boarding support: MH channels
Cross waler: C20S beam



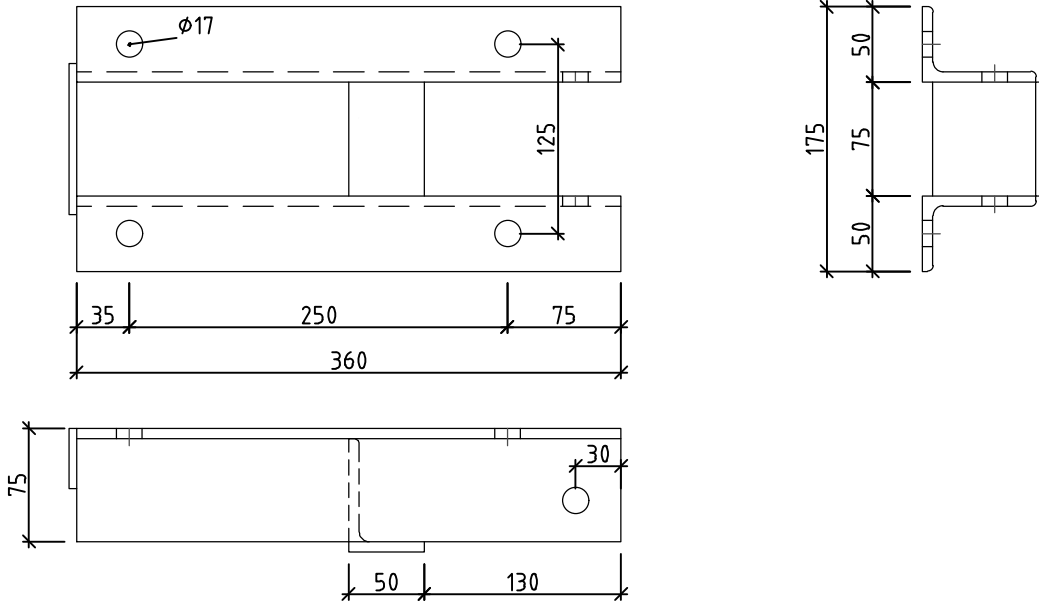
Large version up to D = 5.40 m

Boarding support: C20S beam
Cross waler: C20S beam

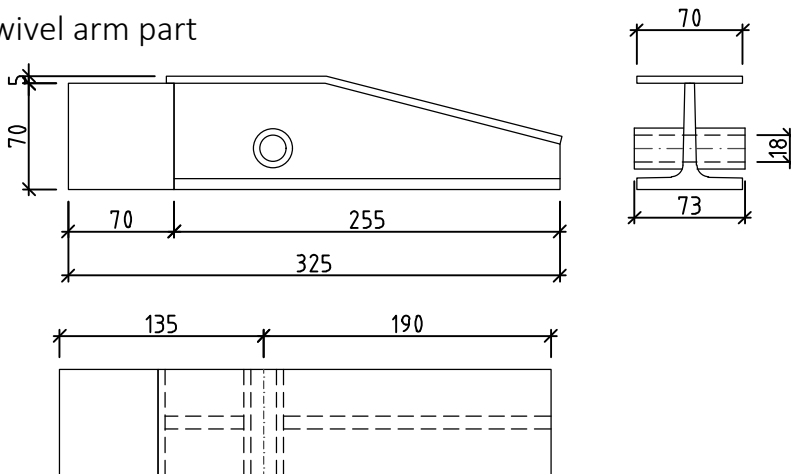


11 Individual parts

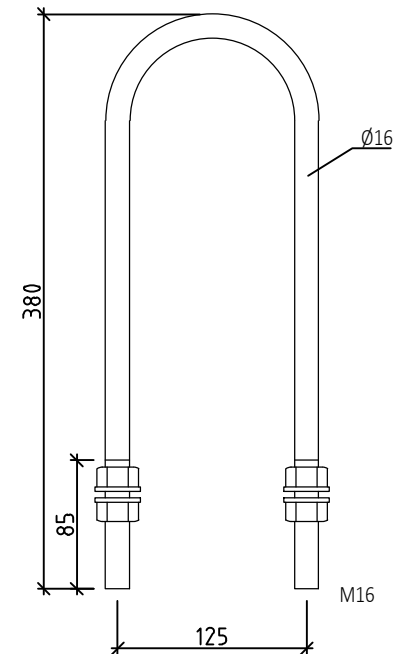
Swivel arm case part



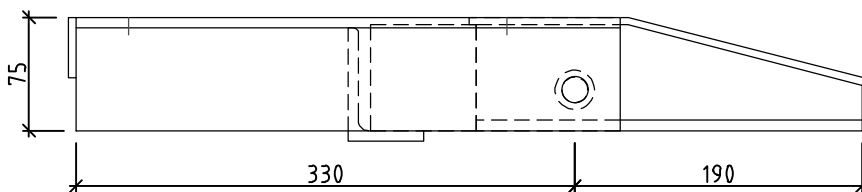
Swivel arm part



Lifting shackle Part No. 725200



Gravity shoe Part No. 926500





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