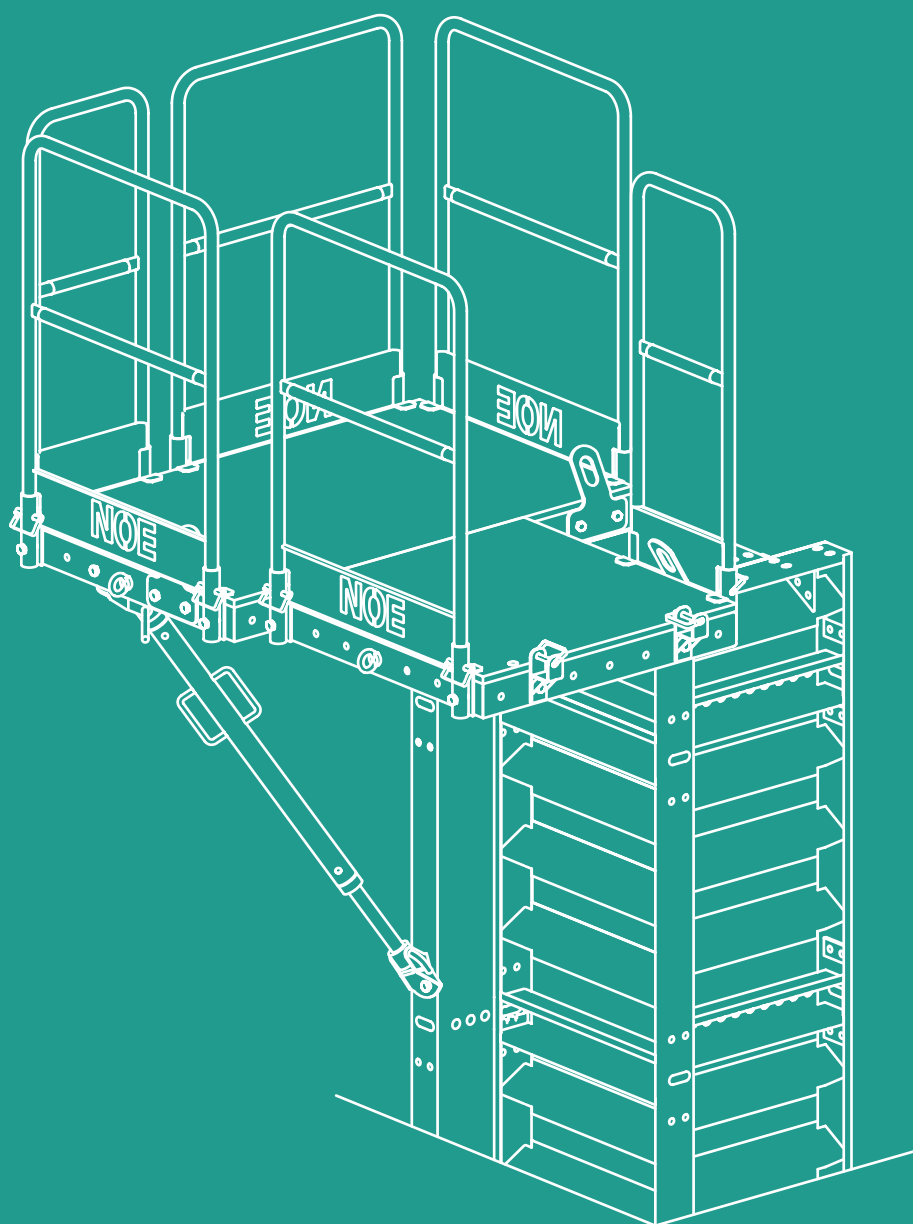


# NOE Betonierpodest

Assembly and  
Operating Manual

10/2021



# NOE Concreting platform column formwork

- For NOE Vario 2000 column formwork
- For NOE steel column formwork

Assembly and Operating Manual

(Dated 10.2021)



# Contents

*Page*

|       |                                                                       |    |
|-------|-----------------------------------------------------------------------|----|
| 1     | GSV Guide, safety advice                                              | 3  |
| 2     | Overview of system components concreting platform NOE column formwork | 4  |
| 3     | Assembly instructions concreting platform                             | 5  |
| 3.1   | Preparing the support                                                 | 5  |
| 3.2   | Assembly of the platforms                                             | 5  |
| 3.3   | Attaching the guard rails                                             | 10 |
| 3.4   | Attaching the ladder and the ladder cage                              | 11 |
| 3.4.1 | Connecting the platform ladder cage exit with ladder                  | 11 |
| 3.4.2 | Attaching the ladder cage                                             | 12 |
| 3.4.3 | Connectin ladders                                                     | 12 |
| 3.4.4 | Attachment to the formwork                                            | 14 |
| 3.5   | Removal                                                               | 15 |
| 4     | Details of use of NOE steel column formwork                           | 16 |
| 4.1   | Clearance gaps and bolted connections when attaching platform         | 16 |
| 4.2   | Attaching the ladder bracket                                          | 16 |
| 4.3   | Attach strut to the formwork                                          | 16 |
| 5     | Individual parts                                                      | 17 |
| 5.1   | Platform                                                              | 17 |
| 5.2   | Ladder and ladder cage                                                | 18 |

# 1 Safety advice, GSV guidelines

## 1.1 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.



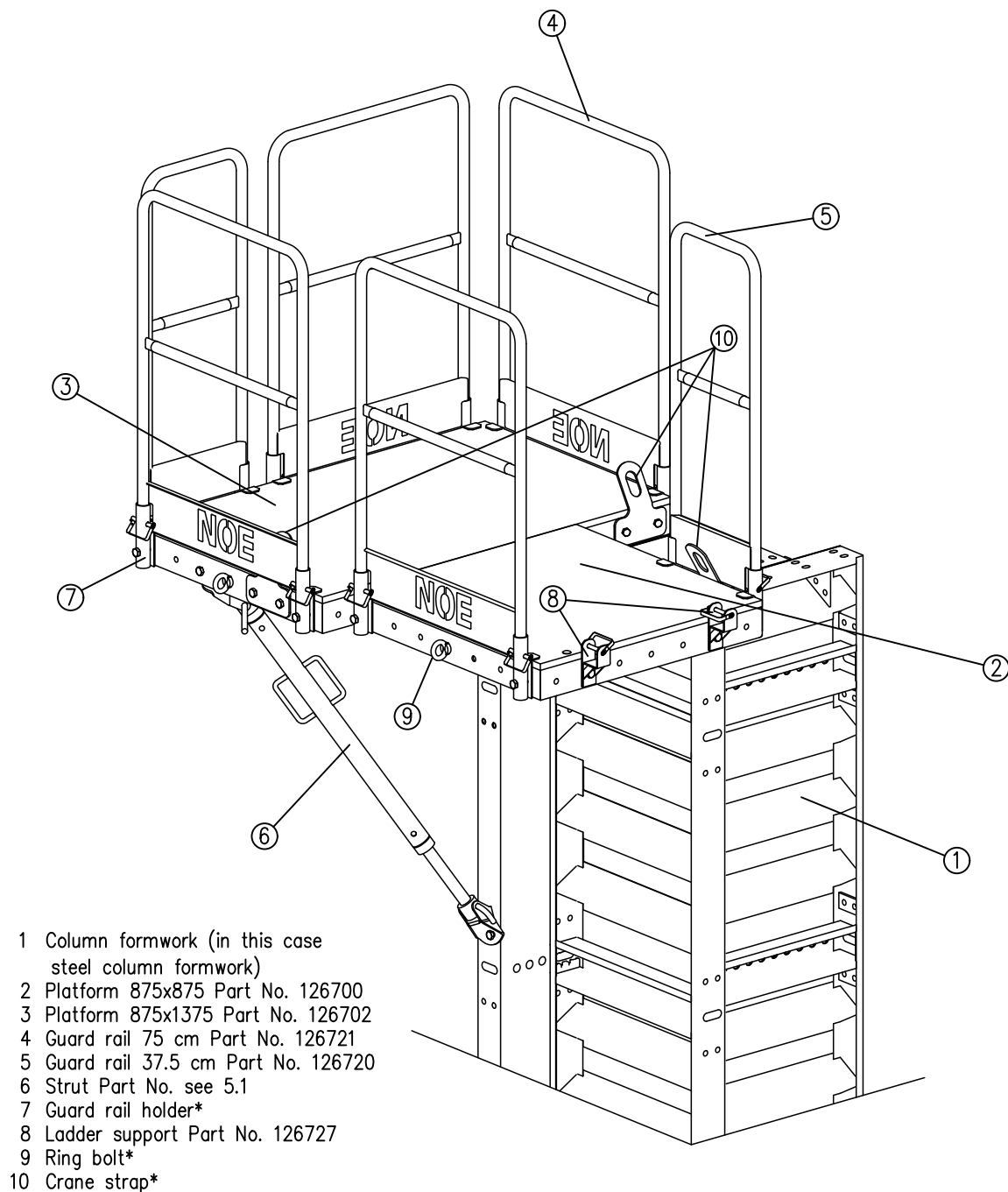
**Note:** Supplementary information for safe, correct and professional execution of work activities.

- **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 Overview of system components concreting platform NOE column formwork

The concreting platform can be attached to NOE Vario 2000 rectangular column formwork and NOE steel column formwork. For great heights, the ladder with ladder cage is suspended in the ladder support.

Max. permissible live load: 1.5 kN/m<sup>2</sup>



Not including attachments or safety fastenings

\*Components are contained in the platforms.

### 3 Assembly instructions concreting platform

The attachment of the concreting platform to the NOE Vario 2000 rectangular column formwork with the formwork lying horizontally is shown diagrammatically below. Details of the individual steps and advice on special aspects of attaching the components to other column formwork systems are made available at the end.



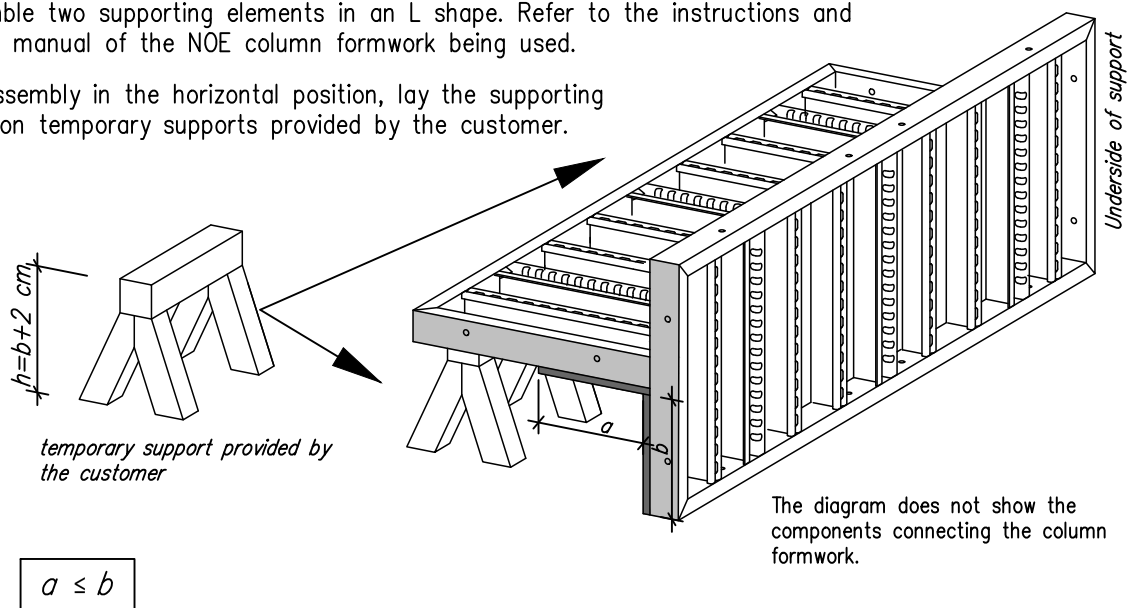
Before using the formwork, please read through the Assembly and Operating Manual. In addition the safety advice contained in each chapter must be observed!  
All persons who work with the product must be instructed by suitably qualified site supervisory staff.



A risk analysis must be performed for all situations on site by a responsible person. Only defect-free materials are to be used. Therefore each component must be visually inspected or checked before all steps in the work!

#### 3.1 Preparing the support

- ◆ Preassemble two supporting elements in an L shape. Refer to the instructions and operating manual of the NOE column formwork being used.
- ◆ For preassembly in the horizontal position, lay the supporting member on temporary supports provided by the customer.



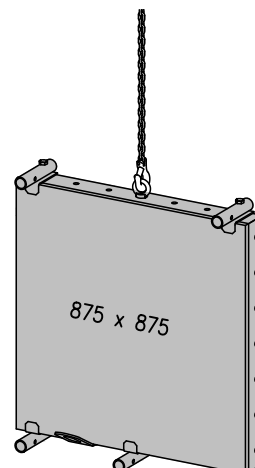
In the case of rectangular columns, the narrower side should be horizontal and the wider side vertical.

#### 3.2 Assembly of the platforms

- ◆ For assembly, suspend platform 875 from the crane by the ring bolt,



The RING BOLT is only used for ASSEMBLY, not for transport or moving the platform with the formwork attached!



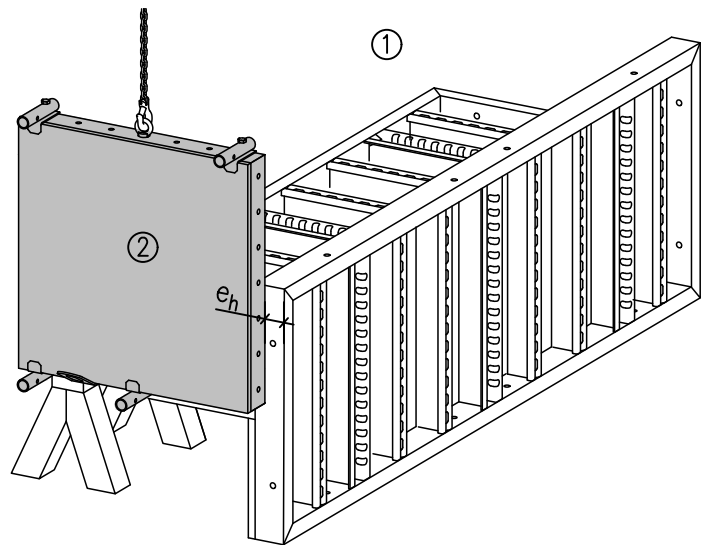
- ◆ Bring the platform up to the top edge of the formwork and locate it correctly using the dimension  $e_h$ .

Vario column formwork

$e_v = 70 \text{ mm}$

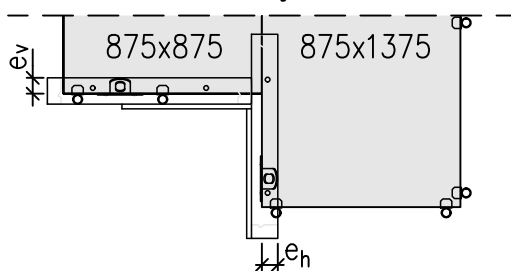
$e_h = 70 \text{ mm}$

$e =$  Distance from formwork rear edge to platform edge



- ◆ At the same time, align the platform in the vertical direction using dimension  $e_v$  so that the holes in the edge profile of the formwork coincide with the elongated hole centres of the platform. Then fasten with 2 M16x100 bolts.

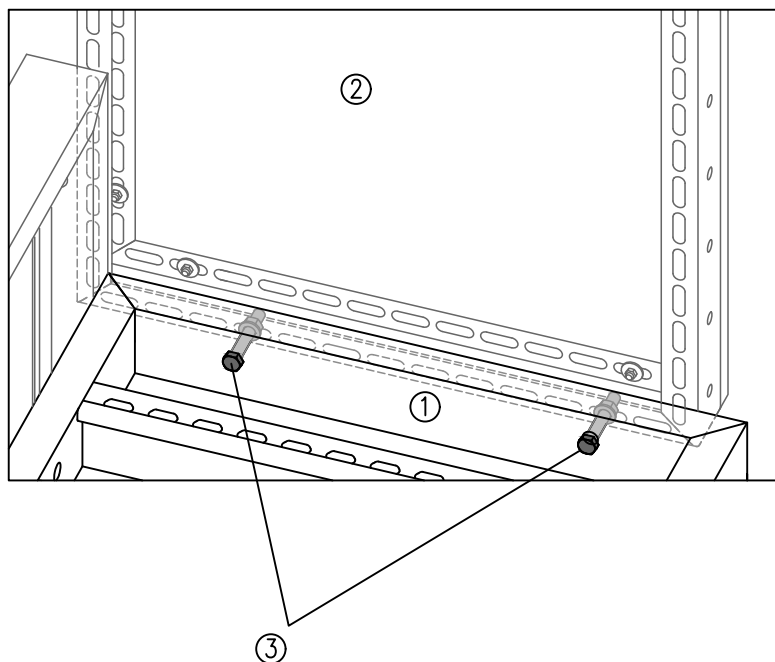
**Plan view of assembly**



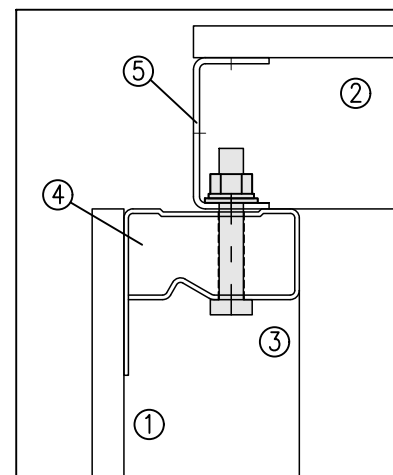
- 1 NOE Vario 2000 column formwork
- 2 Platform 875x875 Part No. 126700
- 3 M16x100 with nut and washer Part No. 314000
- 4 Panel edge profile
- 5 Platform edge channel

**View**

**Underside of platform/back of formwork**

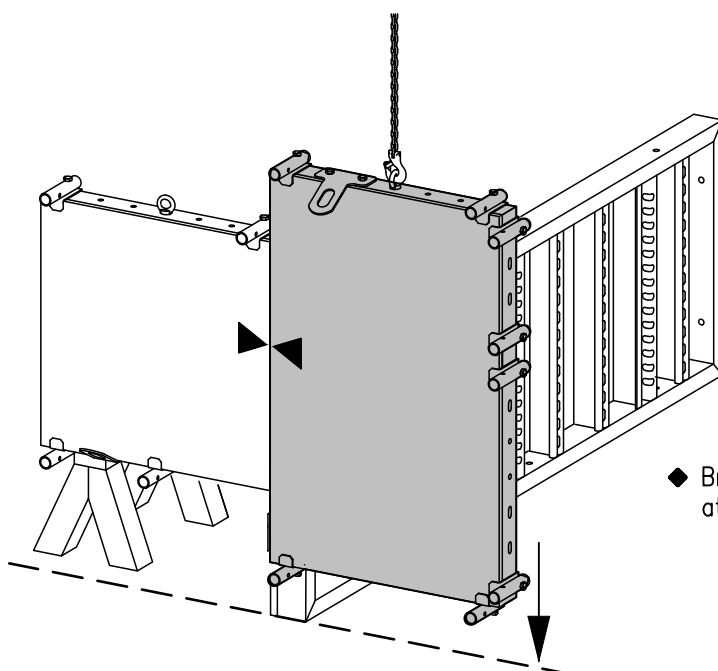
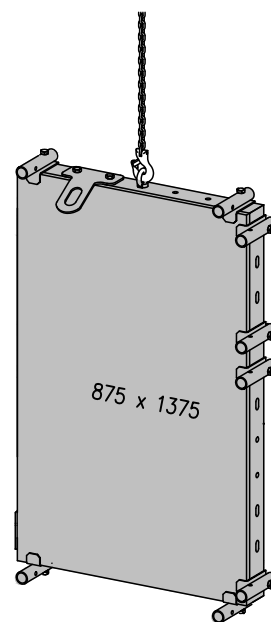


**Section Bolted connection  
Panel/platform 875 x 875**

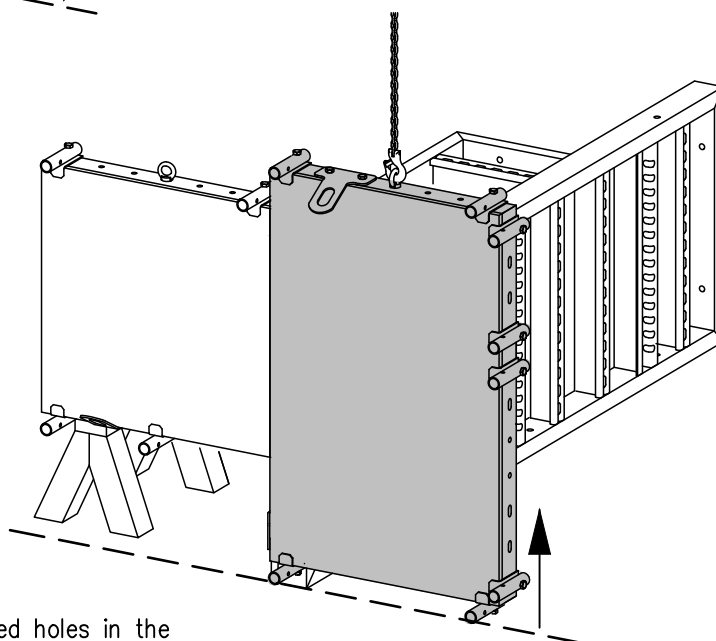


- ◆ Once the platform is fixed in place by the bolts, the crane can be unhooked.

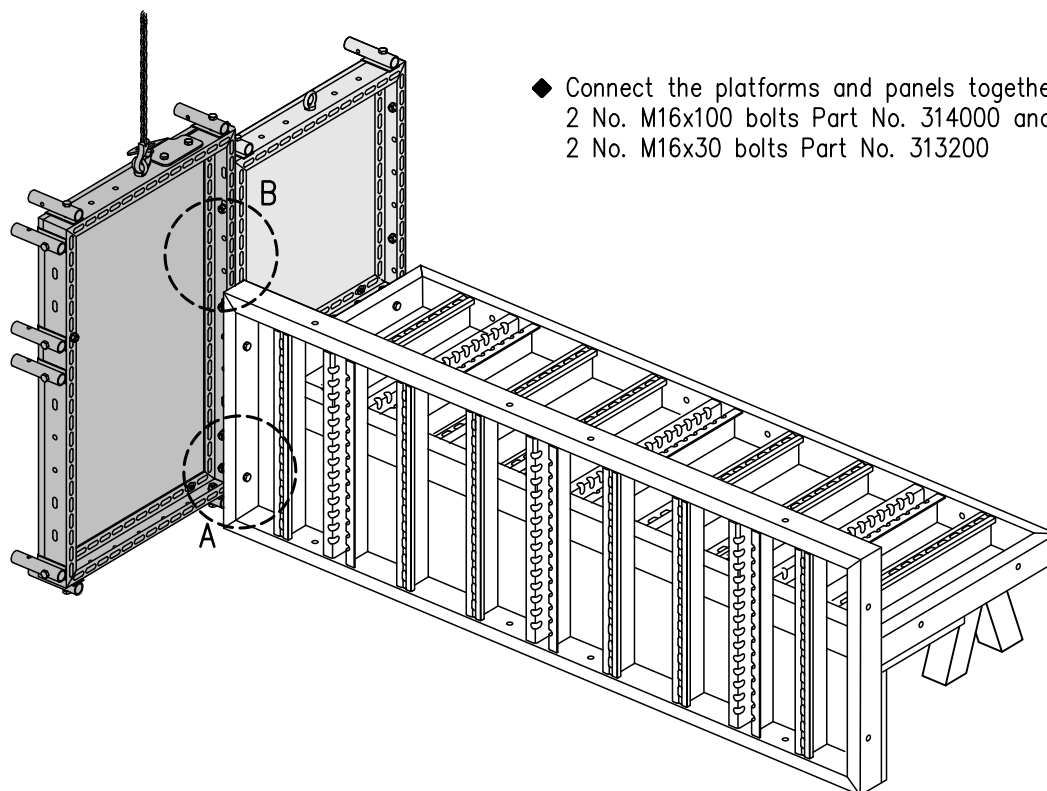
- ◆ For assembly, suspend platform 875x1375 from the crane by the ring bolt,



- ◆ Bring the platform to the edge of the already attached platform lower to the ground.

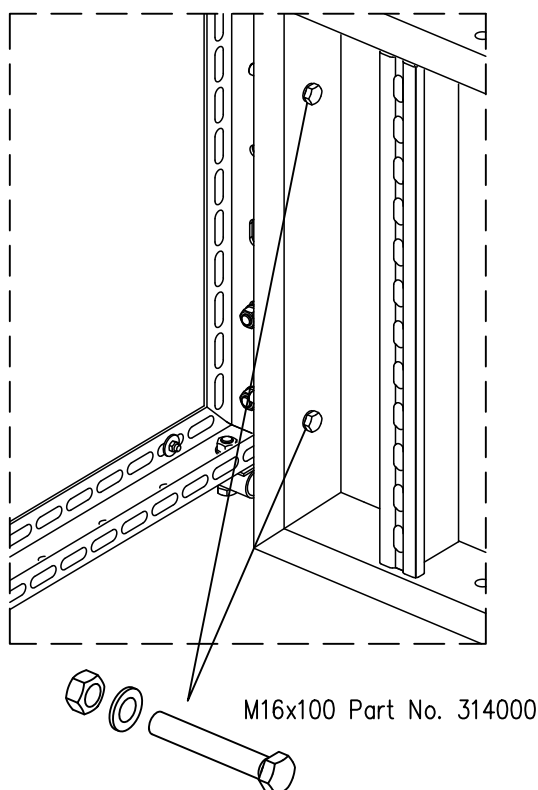


- ◆ Raise the platform slowly until the elongated holes in the platform match up with the holes in the formwork panel edge profile (see Detail A on next page) and at least 2 holes on the platform coincide (see Detail B on next page).

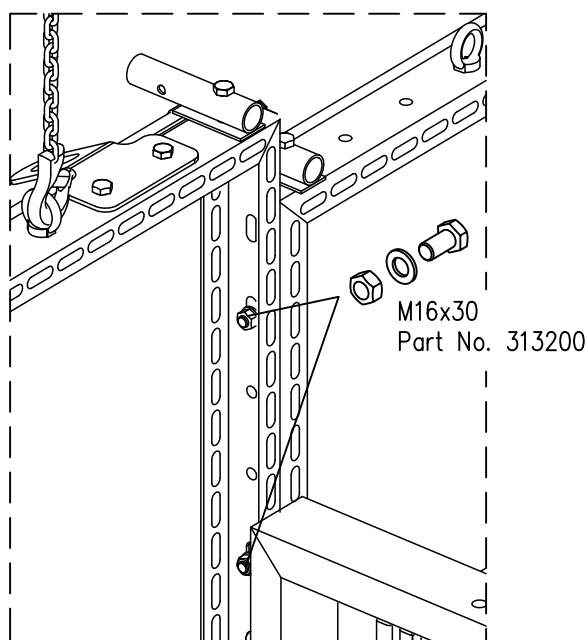


- ◆ Connect the platforms and panels together with  
2 No. M16x100 bolts Part No. 314000 and  
2 No. M16x30 bolts Part No. 313200

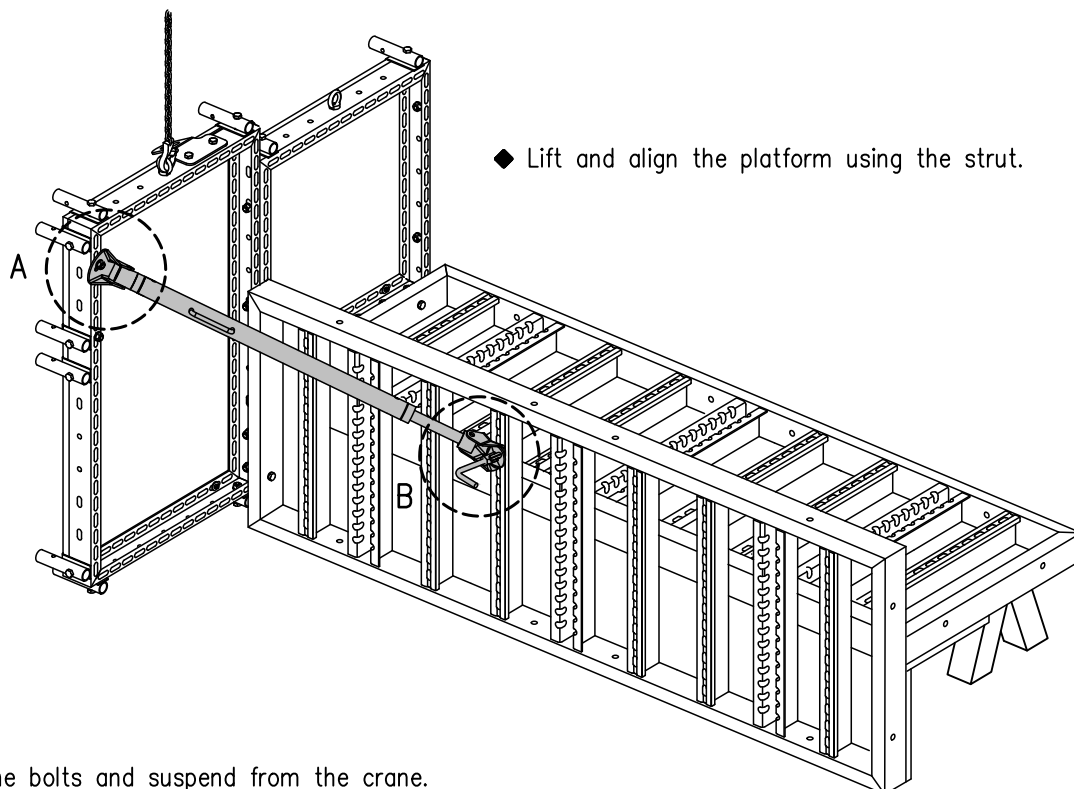
Detail A



Detail B



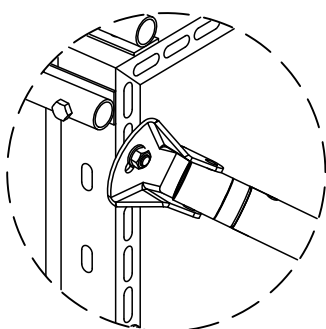
- ◆ Attach strut to platform 875x1375 and the formwork panel.  
Choose the outermost attachment point for the top fixing.



- ◆ Lift and align the platform using the strut.

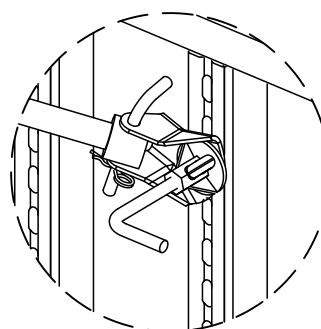
- ◆ Retighten all the bolts and suspend from the crane.

Detail A



The top attachment is by an M16x30 bolt in the elongated hole on the platform.

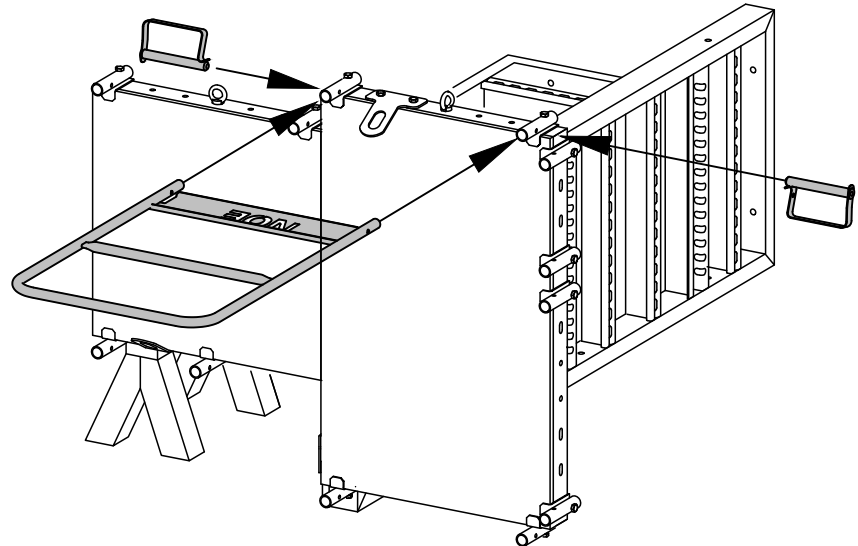
Detail B



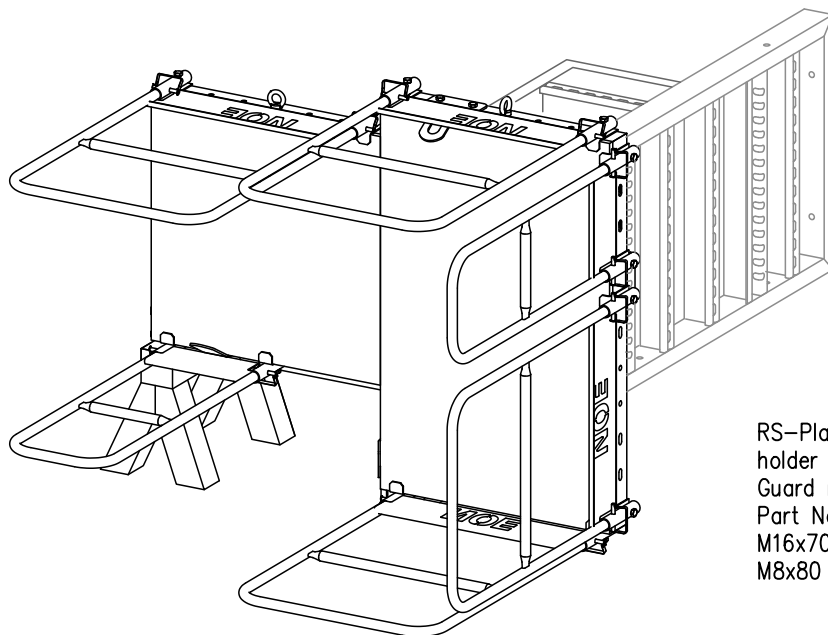
The bottom attachment is by a hammerhead bolt in the panel profile. If correctly installed, the "handle" of the hammerhead bolt is transverse to the direction of the longitudinal holes.

### 3.3 Attaching the guard rails

- ◆ Insert the guard rails into the guard rail holders and secure with spring pins. Narrow or wide guard rails can be inserted, depending on the spacing of the guard rail holders. Insert the guard rails in such a way that the company name "NOE" is readable from the outside and the folded edge of the toe plate points toward the standing surface of the platform.

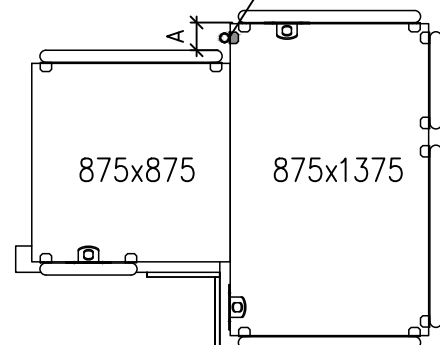


- ◆ Repeat this procedure until all the guard rails are attached.



RS-Platform guard rail holder Part-No. 126755 and  
Guard rail tube Part No. 111400  
M16x70 Part No. 313800  
M8x80 Part No. 312699

- ◆ The projection of the platform varies depending on the column size. If the distance A between the guard rails of the two scaffold halves is greater than 180 mm, measures to prevent falling must be taken. One such measure is to install 1–2 guard rail posts (depending on the distance) to close up the gap.



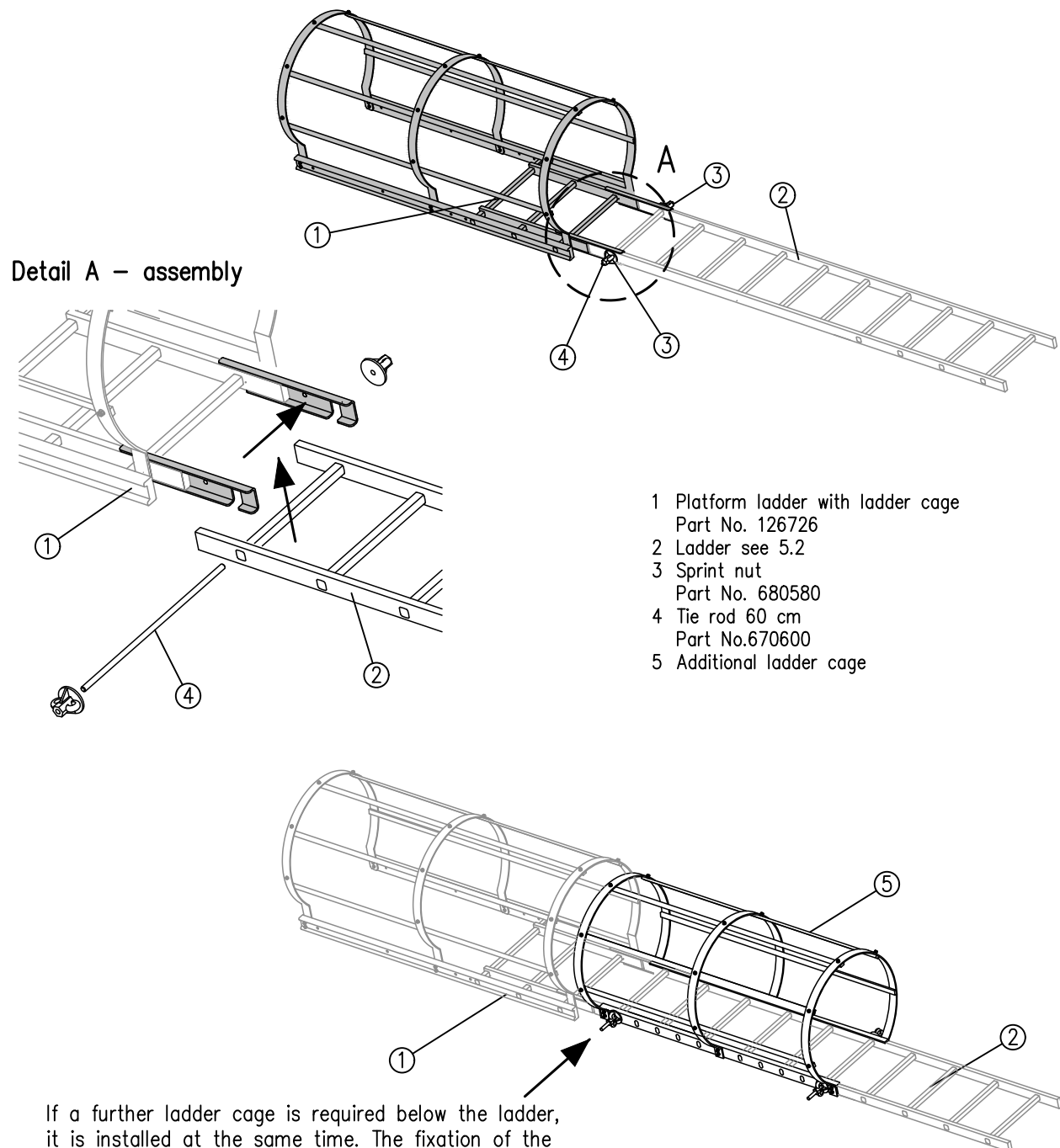
$$A_{\max} = 180 \text{ mm}$$

### 3.4 Attaching the ladder and the ladder cage

The ladder and the ladder cage are preassembled to form a single element. The way they are put together varies according to the formwork height, the regulations covering falls from height and scaffolding standards.

#### 3.4.1 Connecting the platform ladder cage exit with ladder

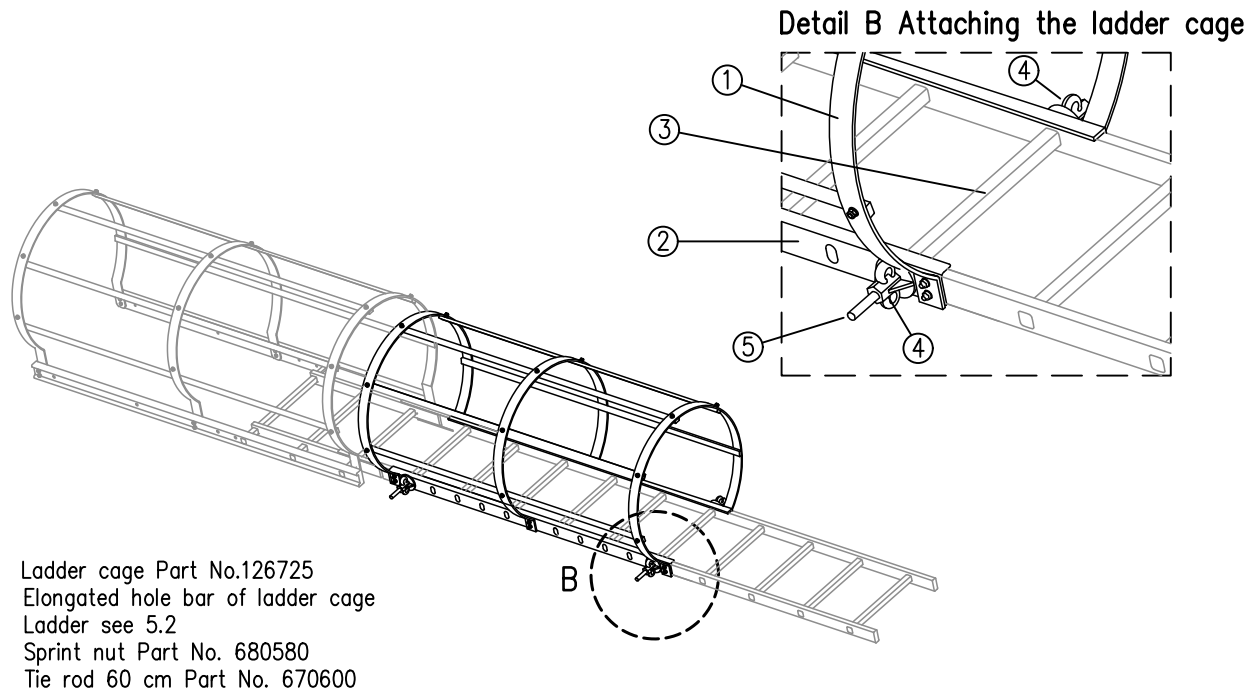
The ladder is already equipped with a ladder cage. At the lower end 2 rails are integrated in which the ladder is inserted. For fixation 1 tie-rod  $l=60$  cm and 2 sprint nuts are required.



If a further ladder cage is required below the ladder, it is installed at the same time. The fixation of the ladder simultaneously serves as upper fixation of the additional ladder cage.

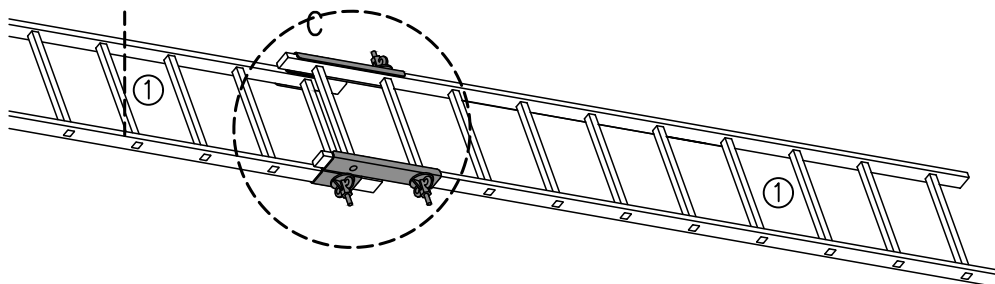
### 3.4.2 Attaching the ladder cage

The panel height and the applicable regulations covering falls from height and scaffold regulations may make it necessary to attach additional ladder cage. It is fastened in place with one tie rod, which is inserted through the holes in the channel and ladder rungs, and 2 Sprint nuts (see detail). The perforated rail at the edge allows the height to be varied.



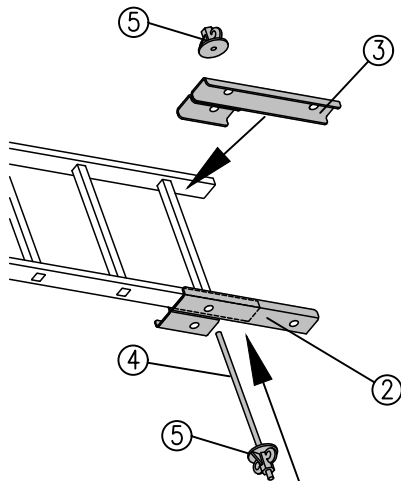
### 3.4.3 Connecting the ladders

Two ladders can be connected by a ladder extender piece. The connection can be butted or overlapped. In the case of the latter, the length is not fixed by the lengths of the ladders, but can be varied to suit the formwork height.

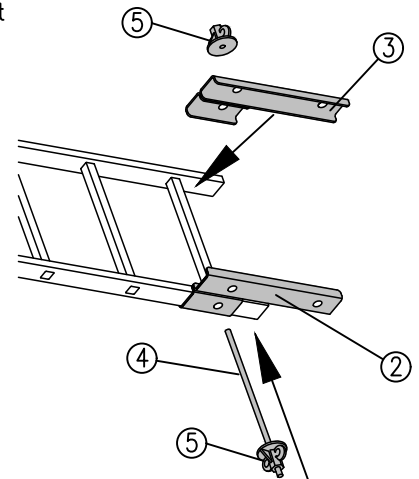


### Detail A – Attaching ladder extender piece

#### Butted connection



#### Overlapped connection

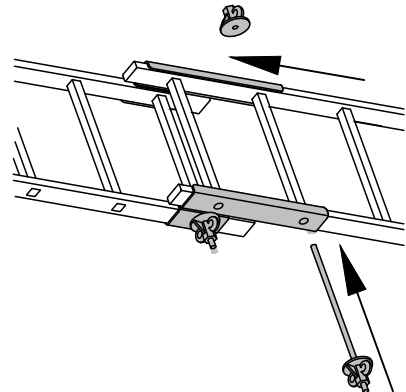
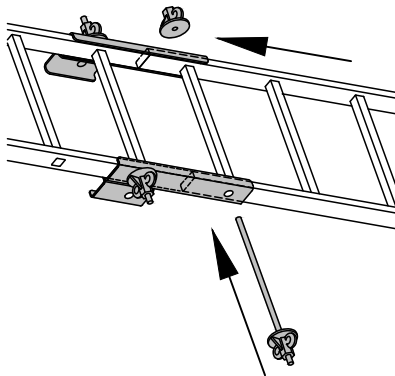


- 1 Ladder Part No. see 5.2
- 2 Ladder extender piece left  
Part No. 126707
- 3 Ladder extender piece right  
Part No. 126708
- 4 Tie rod 60 cm  
Part No. 670600
- 5 Sprint nut  
Part No. 680580

- ◆ Place the ladder extender pieces right and left on to the runner.  
Butted connection : fit long side piece  
Overlapped connection : fit short side piece

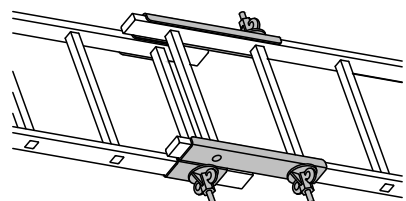
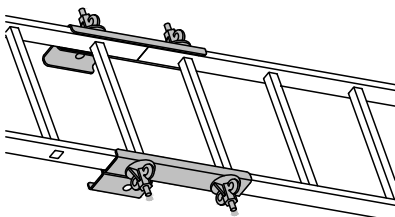
Screw the Sprint nut on to the tie rod, guide it through the ladder extender piece and the rung and fasten with 2 Sprint nuts.

### Detail C – Push ladder in and fasten

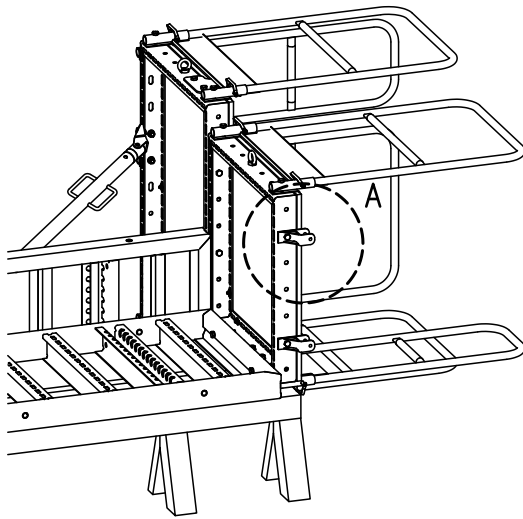


- ◆ Thread the ladder into the ladder extender piece, guide the tie rod through the hole and secure with the Sprint nuts. In the case of overlapped connections, the rung can be chosen to suit the required length.

### Detail C – Correctly connected ladders

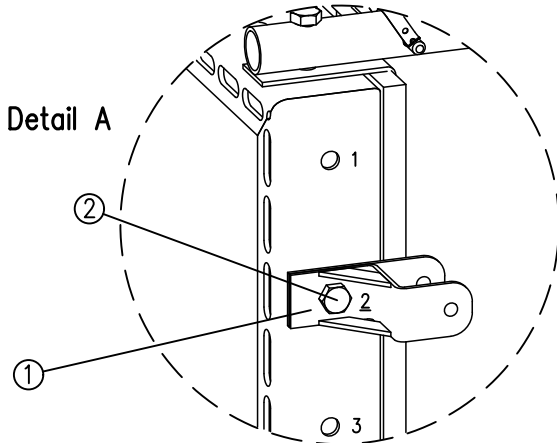


### 3.4.4 Attachment to the formwork

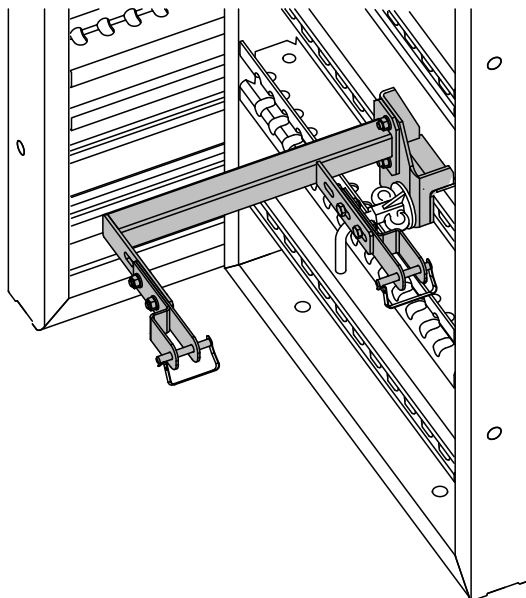


- ◆ Bolt 2 ladder support to the platform. The last-but-one hole in the edge profile is used for this.

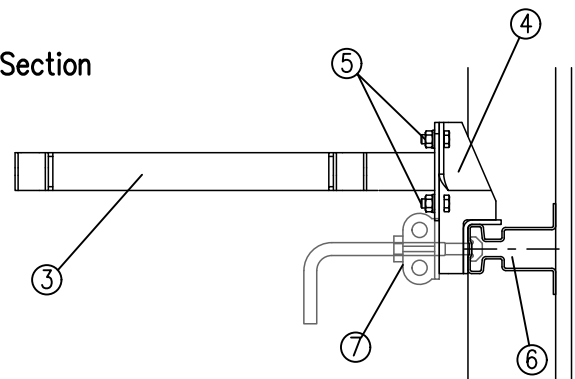
Detail A



- ◆ Suspend the ladder bracket with the ladder adapter in the hat profile of the panel and fasten with a hammerhead bolt. If correctly installed, the "handle" must be transverse to the longitudinal hole.



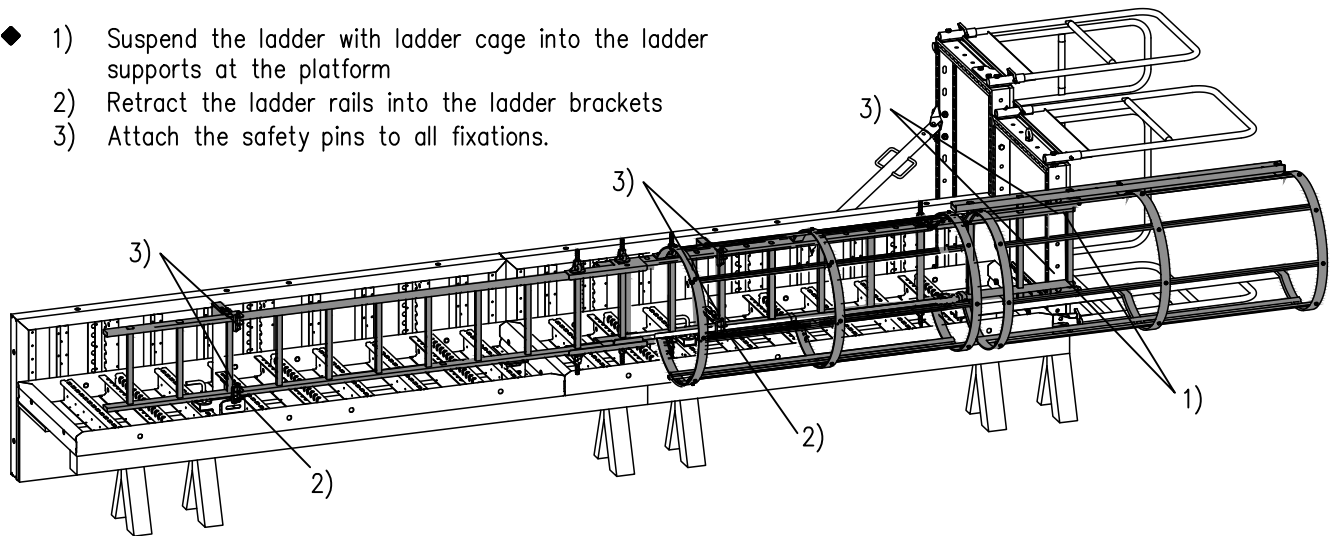
Section



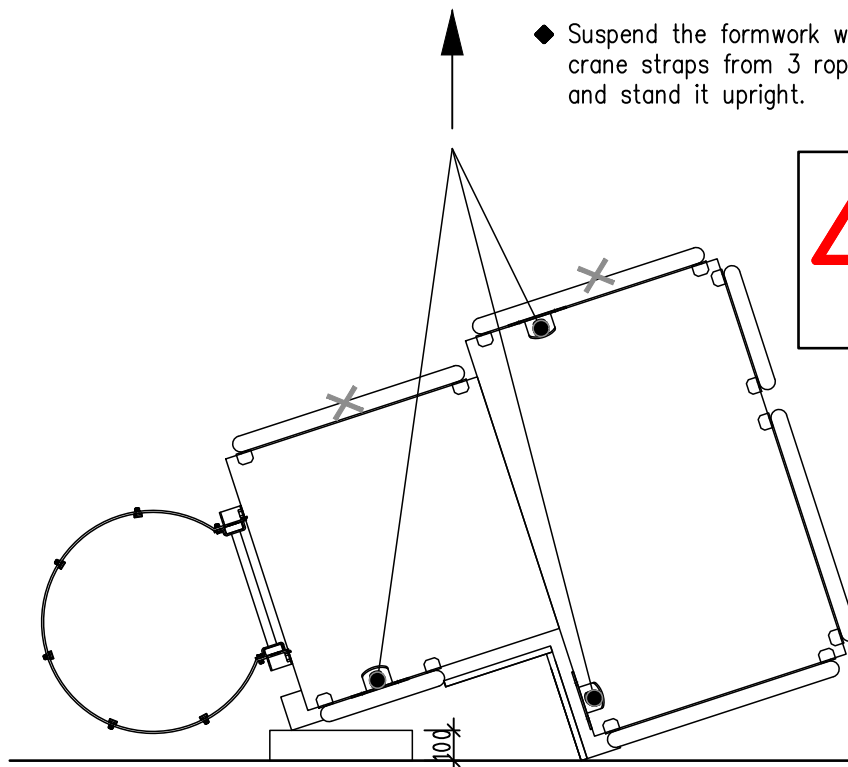
1 ladder bracket per ladder connection  
+  
1 ladder bracket also at the bottom of the bottom ladder

- 1 RS-Platform ladder support Part No. 126727
- 2 M16x30 Part No. 313200
- 3 LSS ladder bracket Part No. 126706
- 4 LSS ladder adapter Part No. 126729
- 5 M12x30, contained in ③
- 6 Hat profile Vario 2000 column formwork
- 7 Hammerhead bolt Part No. 319338

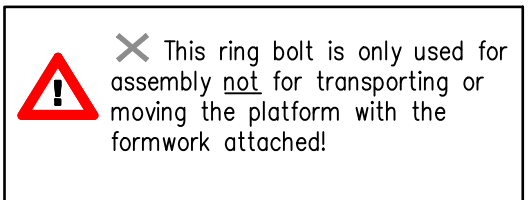
- ◆ 1) Suspend the ladder with ladder cage into the ladder supports at the platform
- 2) Retract the ladder rails into the ladder brackets
- 3) Attach the safety pins to all fixations.



- ◆ Lift the formwork unit, remove the temporary supports. Lower the column but support the formwork edge 10 cm above the ground to prevent deformation of the ladder cage.



- ◆ Suspend the formwork with the preassembled platform with the crane straps from 3 ropes on the crane, then carefully lift and stand it upright.



- ◆ Attach the formwork panel in a way that resists tension and compression and the only then attach to the crane.

### 3.5 Removal of the platforms including ladder

- ◆ Dismantling is done in reverse order to the above described assembly process. When placing the formwork down, be sure place wooden blocks beneath it to prevent damaging the ladder cage.

## 4 Details of use of NOE steel column formwork

The earlier descriptions relate to using platforms with NOE Vario 2000 column formwork. The following special aspects must be taken into account when using NOE steel column formwork.

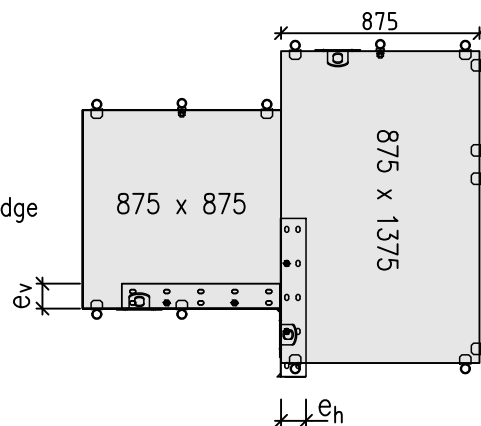
### 4.1 Clearance gaps and bolted connections when attaching platform

Steel column formwork

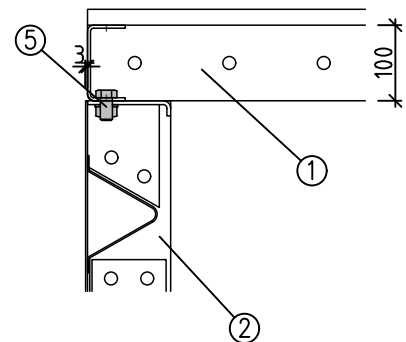
$e_v = 110 \text{ mm}$

$e_{h\text{Steel}} = 110 \text{ mm}$

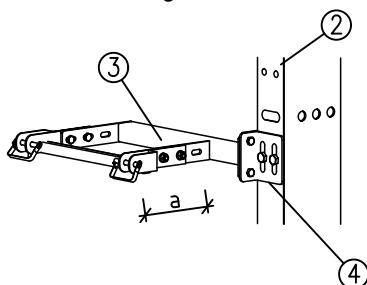
$e$  = Distance from formwork rear edge to platform edge



Section Panel – platform

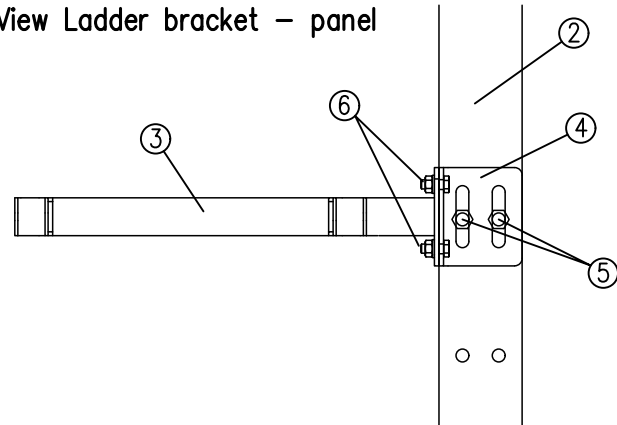


### 4.2 Attaching the ladder bracket



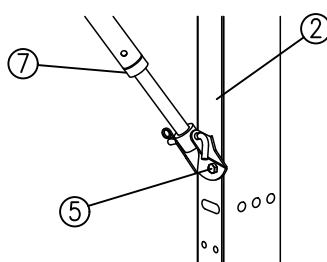
Adapt distance  $a$  to the line of the ladder!

View Ladder bracket – panel



### 4.3 Attach strut to the formwork

The strut aligns and supports the platform and is fastened to the steel column formwork at its edge profile.



- 1 Platform 875x875 or 875x1375
- 2 NOE steel column formwork
- 3 LSS ladder bracket Part No. 126706
- 4 LSS ladder adapter Part No. 126728
- 5 M16x30 Part No. 313200
- 6 M12x30, contained in ③
- 7 Strut 1.00–1.20 m Part No. see 5.1

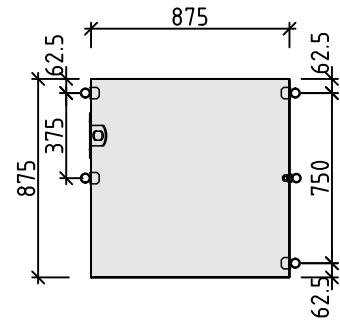
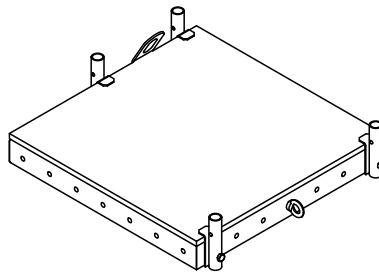
## 5 Individual parts

### 5.1 Platform

#### RS platform 875x875

including Guard rail holder, crane straps, ring bolt as shown

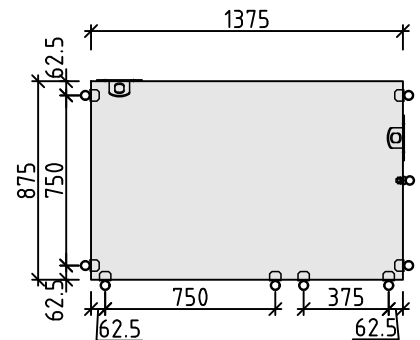
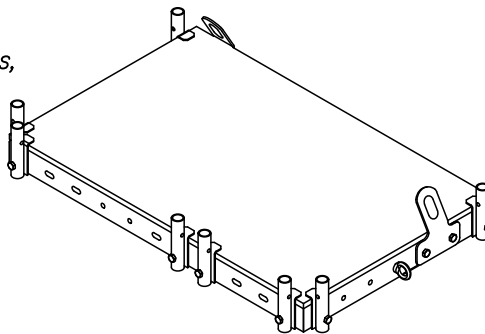
Part No. 126700  
Weight 36.3 kg



#### RS platform 875x1375

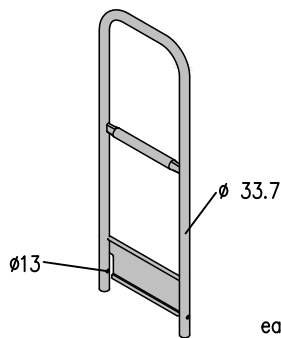
incl. Guard rail holder, crane straps, ring bolt as shown

Part No. 126702  
Weight 54.3 kg



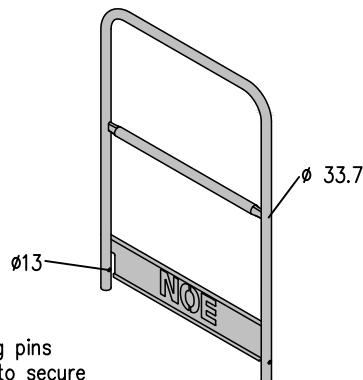
#### RS platform guard rail 375

Part No. 126720  
Weight 10.1 kg



#### RS platform guard rail 750

Part No. 126721  
Weight 13.5 kg



each plus 2 spring pins  
Part No. 555990 to secure

#### RS-Platform Guard rail holder

Part No. 126755  
Weight 0.9 kg



plus M16x70 Part No. 313800  
for fastening

#### Handrail tube

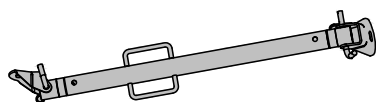
Ø33.7, 106 cm long

Part No. 111400  
Weight 4 kg

plus M8x80 Part No. 312699  
to secure



#### Strut 1.00–1.20 m

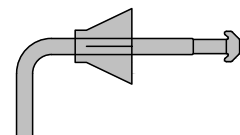


|                     |                 |         |
|---------------------|-----------------|---------|
| consisting of       |                 |         |
| 1x Strut            | Part No. 697045 | 8.43 kg |
| 2x Hinge end joints | Part No. 697012 | 0.80 kg |
| 2x L-pins Ø16       | Part No. 697010 | 0.34 kg |
| 2x Spring pins      | Part No. 913304 | 0.02 kg |

#### Hammerhead bolt

For attaching the strut and from the ladder adapter on the hat profile of the Vario 2000 prop, clamp length 125 mm.

Part No. 319338  
Weight 1.15 kg



### M16x30

Part No. 313200  
Weight 0.11 kg



### M16x70

Part No. 313800  
Weight 0.18 kg



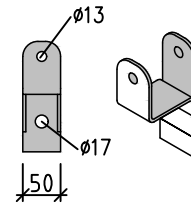
### M16x100

Part No. 314000  
Weight 0.22 kg



### Ladder holder platform

Part No. 126727  
Weight 0.6 kg



plus M16x30 bolts Part No. 313200 for fastening to the platform and plus spring pins Part No. 555990 to secure ladder.

### M8x80

Part No. 312699  
Weight 0.04 kg



### Spring pins Ø12 80 mm

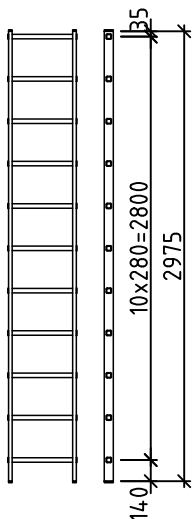
Part No. 555990  
Weight 0.1 kg



## 5.2 Ladder and ladder cage

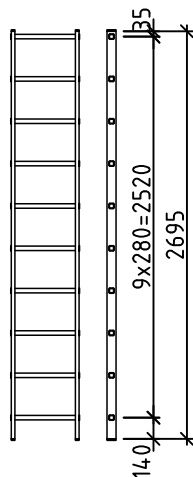
### Ladder 2975-11

Part No. 126760  
Weight 7.8 kg



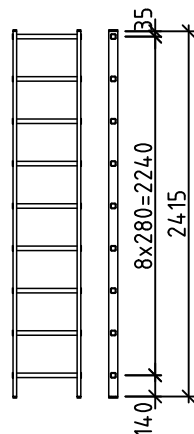
### Ladder 2695-10

Part No. 126761  
Weight 7.0 kg



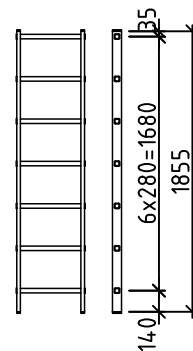
### Ladder 2415-9

Part No. 126762  
Weight 6.3 kg



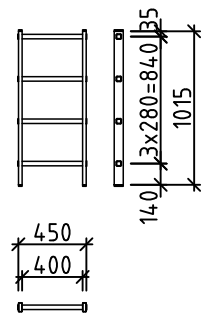
### Ladder 1855-7

Part No. 126763  
Weight 4.9 kg



### Ladder 1015-4

Part No. 126764  
Weight 2.7 kg

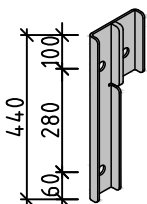


Each ladder connection requires the following items:

| No. | Part No. | Description       |
|-----|----------|-------------------|
| 1   | 126707   | Ladder ext. left  |
| 1   | 126708   | Ladder ext. right |
| 2   | 670600   | Tie rod 60 cm     |
| 4   | 680580   | Sprint nut        |

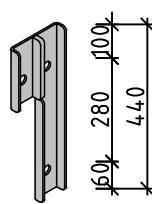
### Ladder extender piece left

Part No. 126707  
Weight 2.6 kg



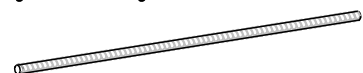
### Ladder extender piece right

Part No. 126708  
Weight 2.6 kg



### Tie rod Ø15 L=60 cm

Part No. 670600  
Weight 0,82 kg



### Sprint nut

Part No. 680580  
Weight 0,69 kg

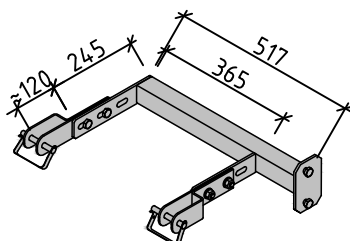


*LSS ladder bracket*

incl. 2 spring pins to secure  
including 2 M12x30 for  
fastening ladder adapter

Part No. 126706

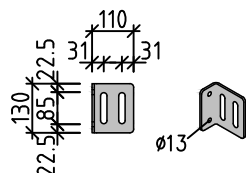
Weight 5.3 kg



*LSS ladder adapter steel support*

Part No. 126728

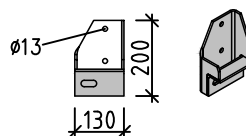
Weight 0.8 kg



### LSS ladder adapter Vario

Part No. 126729

Weight 2.3 kg

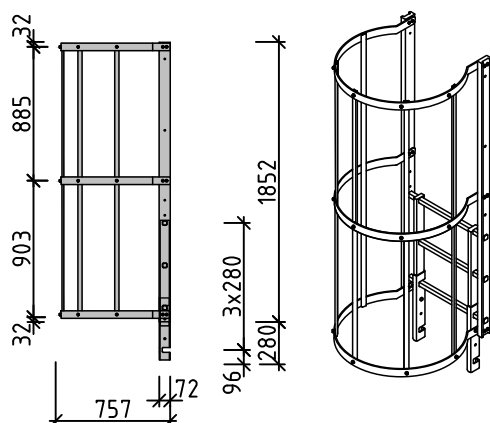


plus 2 No. M16x30 for fastening to the NOE steel column formwork and  
plus hammerhead bolt for fastening to Vario 2000 prop  
(2 No. M12x30 for fastening to the ladder bracket are included).

*Ladder with ladder cage*

Part No. 126726

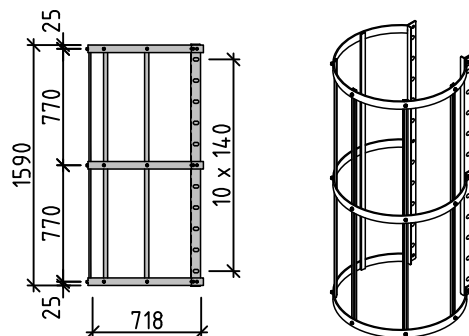
Weight 15.1 kg



*Ladder cage 1590*

Part No. 126725

Weight 14.5 kg



2 tie rods 60 cm Part No. 670600 and 4 Sprint nut Part No. 680580 are required as fasteners.



## **NOE-Schaltechnik Georg Meyer-Keller GmbH + Co. KG**

Kuntzestrasse 72, 73079 Süssen, Germany  
T + 49 7162 13-1  
F + 49 7162 13-288  
info@noe.de  
www.noe.eu

### **Belgium**

NOE-Bekistingtechniek N.V.  
info@noe.be  
www.noe.eu

### **France**

NOE-France  
info@noefrance.fr  
www.noe.eu

### **Netherlands**

NOE-Bekistingtechniek b.v.  
info@noe.nl  
www.noe.eu

### **Austria**

NOE-Schaltechnik  
noe@noe-schaltechnik.at  
www.noe.eu

### **Poland**

NOE-PL Sp. Zo.o.  
noe@noe.pl  
www.noe.pl

### **Switzerland**

NOE-Schaltechnik  
info@noe.ch  
www.noe.eu