

# **NOE® AB 300**

Dated: 01.2021

#### Assembly and Operating Manual



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### 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:

Note:



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

The intended operation is to be subject to



Visual check:



a visual check.

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.

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### 2. System overview

#### 2.1 System description

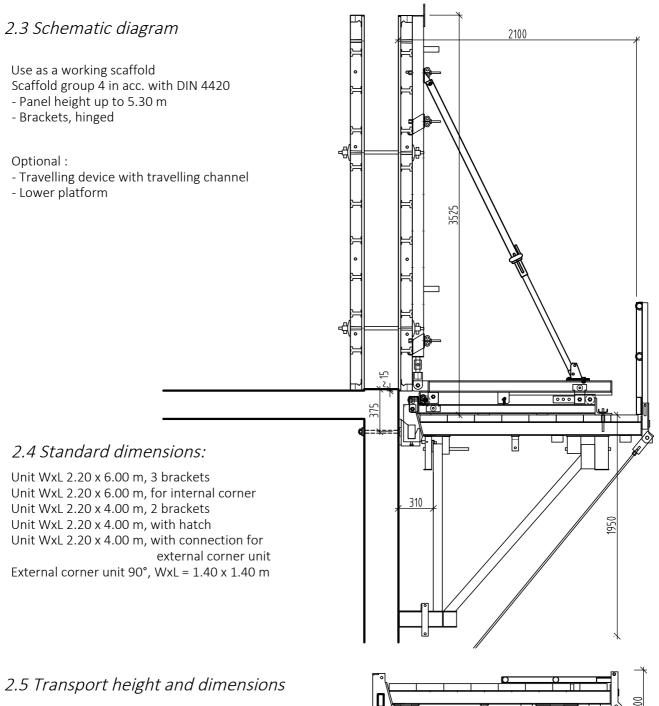
Туре	<ul> <li>Working and safety scaffold in the form of bracket-suspended scaffold with a formwork panel holder         <ul> <li>Bracket with travelling channel and travelling device</li> <li>Bracket without travelling device, supported with stabilizers</li> </ul> </li> </ul>
Dimensions	: Working width 2.10 m, scaffold width 2.20 m
Guard rails	: Steel frame elements for handrail and knee protection, board
Boarding	: Boards 6 cm thick with edging and central coupling strip for stiffening Boarding with bracket, bolted
Permissible load	: Working or bracket level Scaffold group 4 in acc. with DIN 4420, Nominal load 3.0 kN/m <sup>2</sup> Panel height : Up to 5.30 m
	Suspended platform Scaffold group 2 in acc. with DIN 4420, nominal load 1.5 kN/m²
Use	: Height above ground level max. 100 m
Anchored by	: Suspension hook fastened with anchor bolts M36 Suspension hook fastened with scaffold bolts M36 Suspension hook fastened with steel cone Tr26x5

#### 2.2 Scope of application

Anchor bolt , scaffold bolt , steel cone

Unit 4.00 m :	a) Bracket central in the suspension Height above ground level ≤ 100 m	hook Panel height 5.30 m
	b) Bracket eccentric in the suspensi Eccentricity max. 250 mm	on hook
	Height above ground level ≤ 100 m	Panel height 3.00 m
Unit 6.00 m :	c) Bracket central in the suspension	hook
	Height above ground level ≤ 100 m	Panel height 4.00 m
	d) Bracket eccentric in the suspensi Eccentricity max. 200 mm	on hook
	Height above ground level ≤ 25 m	Panel height 3.00 m

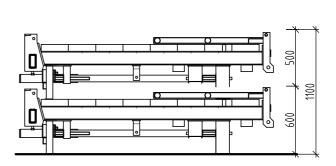




Height :	0.60 m for 1st unit and 0.50 m for all further units
Plan area :	2.30 x 4.00 m

2.30 x 4.00 m

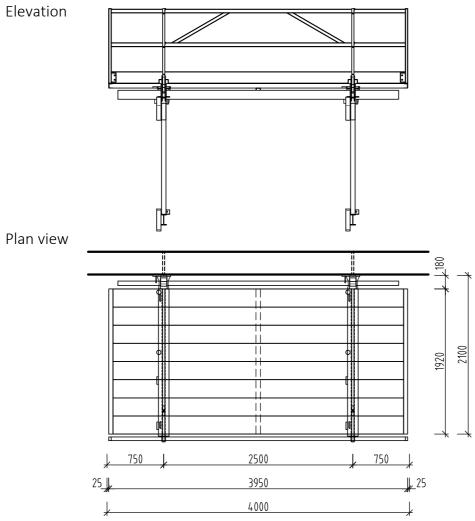
The scaffold units are supplied to site ready assembled including boards and guard rail.



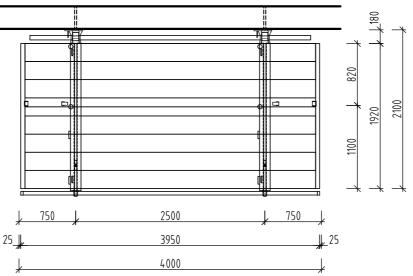
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### 3. Scaffolding units

AB 300 working platform 4000 mm Part No. 557252



AB 300 working platform for EC 4000 mm Part No. 557256 Plan view

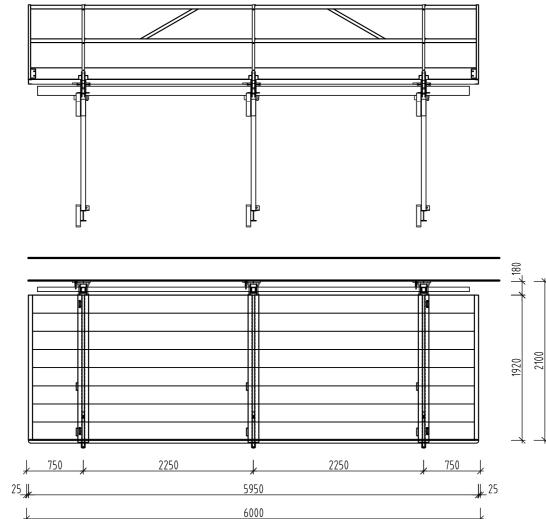


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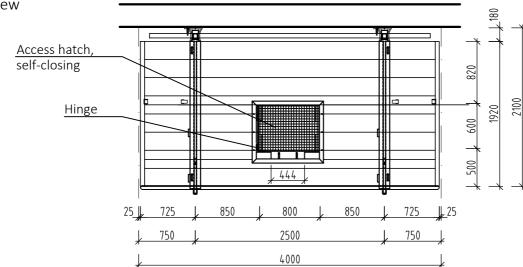


# AB 300 working platform 6000 mm Part No. 557250 Elevation



Plan view

AB 300 Working platform with hatch 4000 mm Part No. 557254



#### Plan view

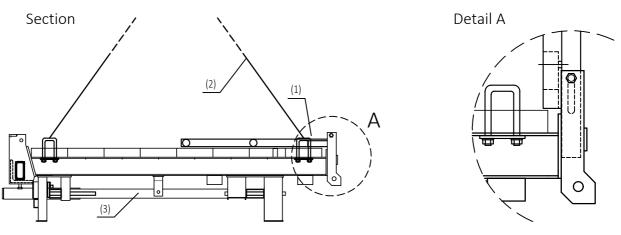


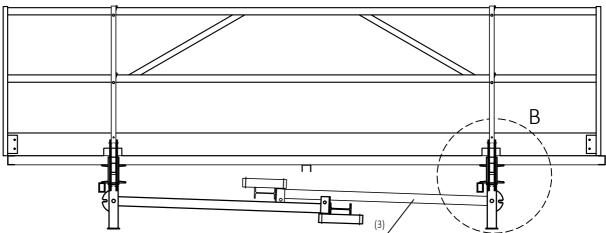
#### 4. Assembly

#### 4.1 Assembly process for working platforms

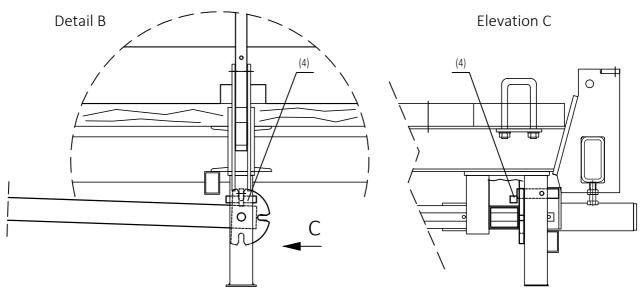
- Swing out guard rail (1) to open and press the post downwards into the elongated hole as far as it will go (see Detail A)

- Attach quadruple sling ropes (2) to the stirrups sunk into the boarding.



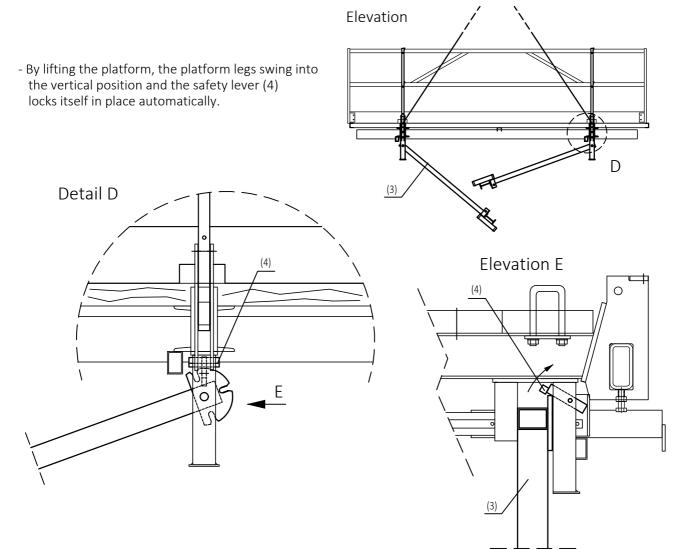


- The bracket legs (3) are folded in for transport and locked in place with the safety lever (4) (see Detail B and Elevation C)

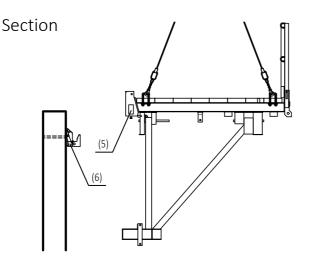




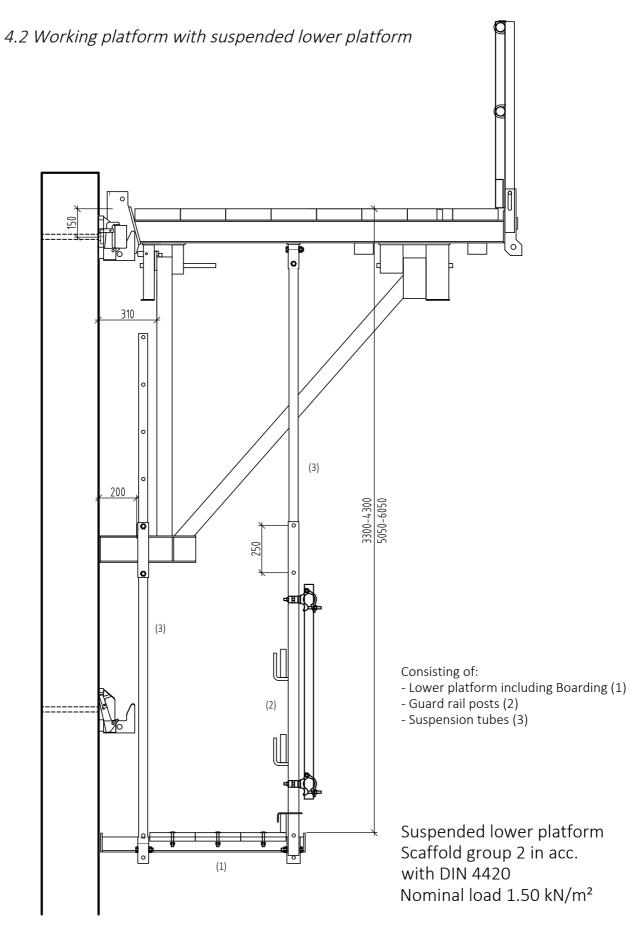
- Lift the climbing scaffold and hold the brackets when folded downwards, then lift the safety lever (4) to unlock the bracket legs (3) (see Elevation E)



- Attach the scaffold unit by the support tube (5) to the suspension hooks (6), which lock themselves automatically to prevent detachment (see 'Suspending the platform')









#### *4.3 Tables of parts for suspended lower platform*

Individual parts fo lower platform	or suspended	Part No.	Unit 4.00 m	Unit 6.00 m	Unit 4.00 m with ladder exit
	: p to 4.30 m p to 6.05 m	557214 557215	4	6	8
Only when used with tube Part No. 55721 Scaffold tube 1.50 m Coupler 48x48	5	501500 510300	2 2	2 4	2 4
Lower platform	4.00 m 6.00 m	557258 557260	1-	- 1	1-
Guard rail		557221	2	3	2
M16x 80 N+W for su	spension tube	see 9	16	24	36
M16x100 N+W for lo	ower platform	see 9	4	6	4
Scaffold tube	1.50 m	501500	-	-	6
	3.00 m 5.00 m	503000 505000	1	- 1	-
Coupler 48x60		510600	2	2	12
Guard rail board	4.00 m	557224	2	-	-
	6.00 m	557225	-	2	-
Board	4.00 m	557226	1	-	1
	6.00 m	557227	-	1	-
Ladder entry, consist and side parts	ting of floor	557274	-	-	1
Ladder Ladder clamp plate Back-propping			-	-	see table below

#### Ladders and back-propping

Platform spacing in mm	Ladder 2750 mm Part No. 126140	Ladder 1000 mm Part No. 126150	Ladder clamp plate Part No. on request	Back-propping 2750 Part No. 126191	Back-propping 1000 Part No. 126192	Back-propping 500 Part No. 126193
3300 - 3550	2	-	2	-	1	-
3800 - 4050	2	-	2	-	1	1
4300	2	1	-	-	2	-
5050 - 5300	3	-	4	1	_	_
5550 - 5800	3	-	4	1	-	1
6050	3	-	4	1	1	-



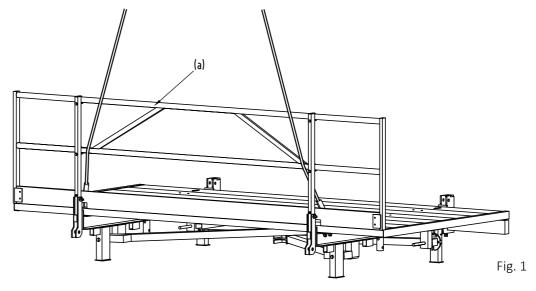
#### 4.4 Assembly process lower platform



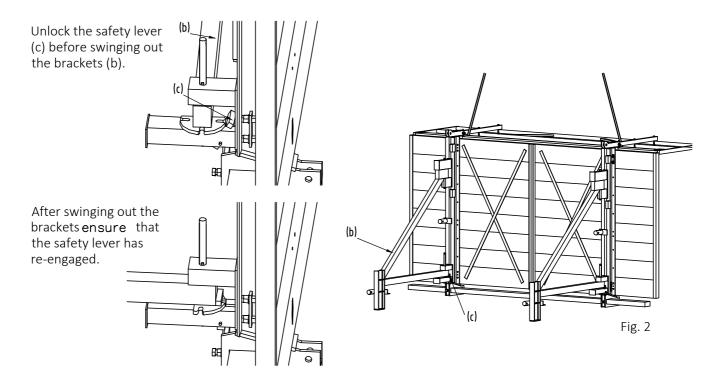
Assembly of the AB300 with suspended lower platform must be carried out on a level surface

The suspended lower platform 6000 is assembled in accordance with the following instructions but using an increased number of parts.

1 Swing out and engage guard rail (a). Attach the crane's lifting tackle to the sunken stirrups nearest the guard rail and take the crane ropes up through the guard rail (see Fig. 1).



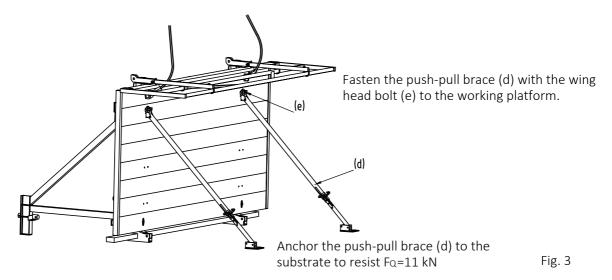
2 Lift the working platform slowly into the vertical and swing out the brackets (b). To do this, the safety lever (c) must be first unlocked and then the brackets swung out until the safety lever snaps into place. After swinging the brackets out, check that the safety lever has re-engaged (see Fig. 2).





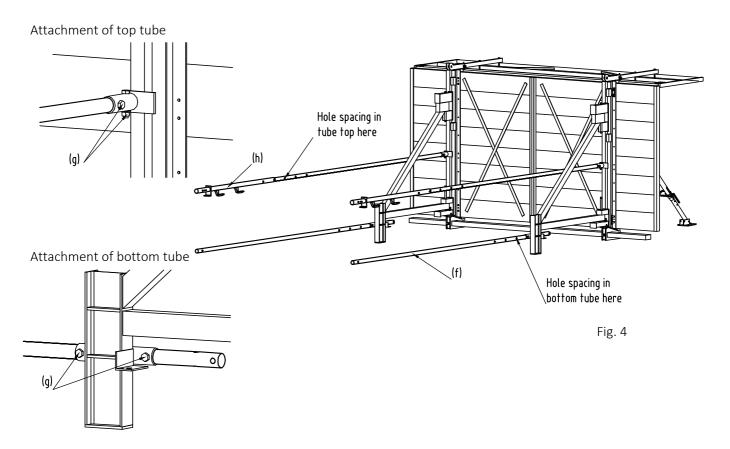
3 Set the working platform down and fasten the 2 push-pull braces (d) in place by screwing the wing head bolts (e) [Part No. 135009] into the threaded sockets in the platform boarding and anchor the braces to the substrate to resist tension and compression forces.

Only then can the crane rope be released (see Fig. 3).



4 Fasten suspension tube (f), hole spacing 25 cm, to the working platform:

- 2.75 m long [Part No. 557214] for a platform spacing of approx. 3.30-4.30 m
- 4.50 m long [Part No. 557215] for a platform spacing of approx. 5.05-6.05 m
Fasten tube to brackets each with 2 bolts M16x80 (g), paying attention to the hole spacing.
Push the guard rail for lower platform (h) [Part No. 557221] over the top suspension tube but do <u>not</u> yet screw it in place (see Fig. 4).

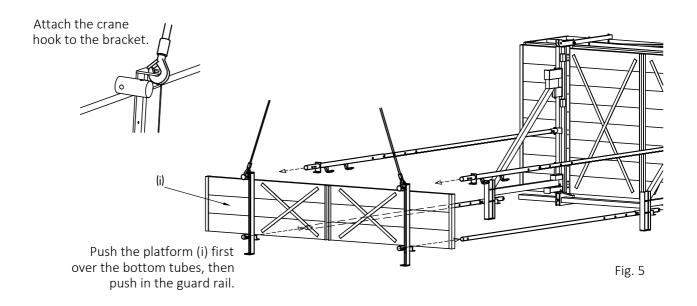


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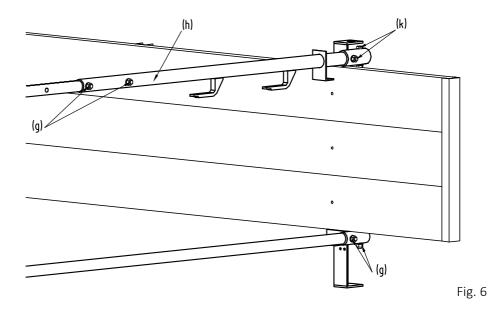


# NOE AB300 Climbing scaffold

5 Attach lower platform (i) [Part No. 557258] to the crane ropes and lift it slightly. Push the lower platform first over the bottom tubes, then push the guard rail into the top sleeves of the platform (see Fig. 5).



6 Fasten guard rails (h) to the top tubes and the bottom tubes on the platform each with 2 bolts M16x80 (g).
Fasten guard rails (h) to the platform each with 2 bolts M16x100 (k) (see Fig. 6).

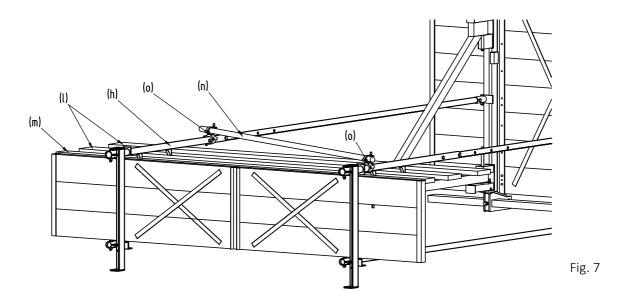


# Assembly and Operating Manual

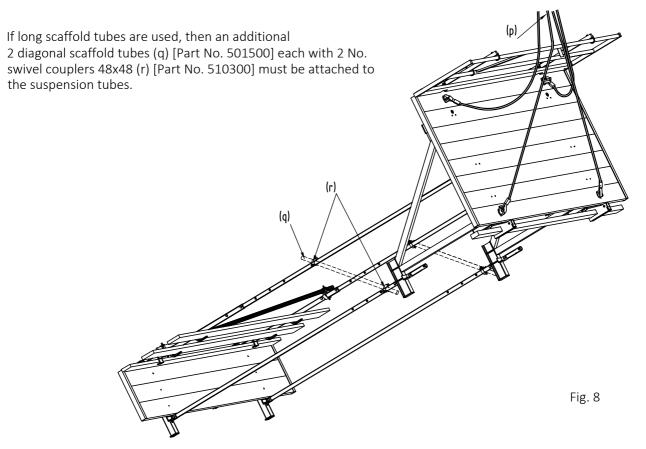


# NOE AB300 Climbing scaffold

7 Insert guard rail board (I) [Part No. 557224] and board (m) [Part No. 557226] and attach with nails. Fasten diagonal scaffold tube [Part No. 503000] with 2 No. swivel couplers 48x60 (o) [Part No. 510600] to the guard rails (h) (see Fig. 7).



8 Attach the quadruple crane ropes (p) to the stirrups sunk into the boarding. Release the stabilizers from the substrate and from the working platform and then slowly lift the working platform with suspended lower platform (see Fig. 8).



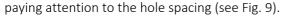


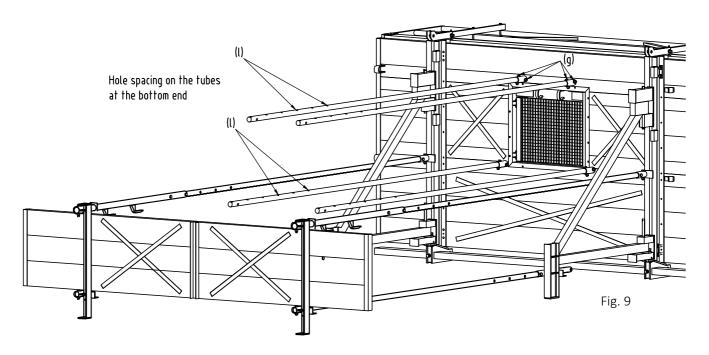
4.5 Assembly process for unit with hatch and ladder ascent

→

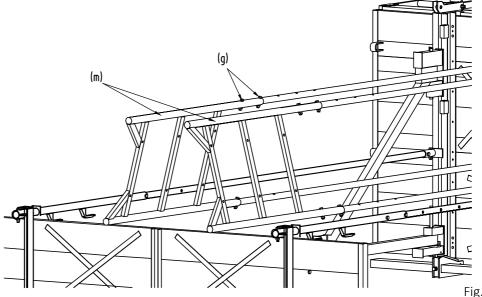
The working platform is assembled in accordance with sections 1-6. Then as described below.

9 4 No. Fasten the suspension tubes (I) for ladder ascent to the working platform:
 2.75 m long [Part No. 557214] for a platform spacing of approx. 3.30-4.30 m
 4.50 m long [Part No. 557215] for a platform spacing of approx. 5.05-6.05 m
 Fasten tubes to brackets each with 2 bolts M16x80 (g),



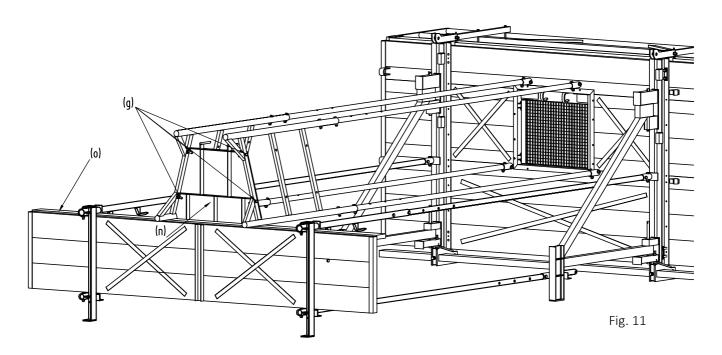


10 Push the side parts (m) of the ladder exit over the suspension tube and fasten each with 2 bolts M16x80 (g). The hole centres of the tubes correspond with those of the suspension tube for the lower platform (see Fig. 10).

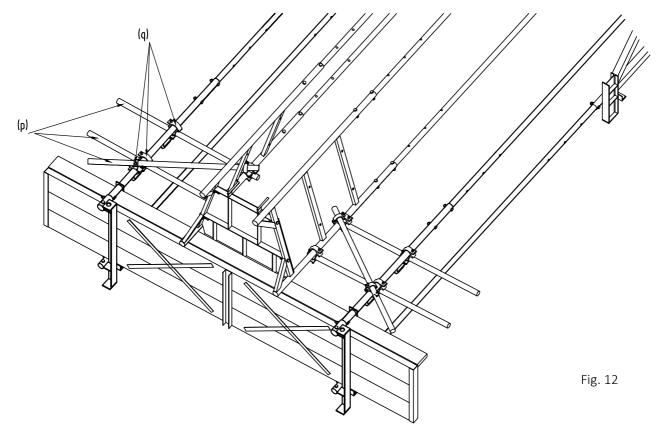




11 Fasten board (o) to the lower platform. Bolt the floor (n) of the ladder ascent to the side parts with 4 bolts M16x80 (g). The floor of the ladder ascent must be above the floor of the lower platform (see Fig. 11).



12 Fasten scaffold tubes 1500 mm long (p) [Part No. 501500] to the suspension tubes of the lower platform and the ladder ascent each with 2 swivel couplers 60x48 (q) [Part No. 510600]. Attach 4 tubes horizontally as guard rail, 2 tubes diagonally as stiffeners (see Fig. 12).



#### Assembly and Operating Manual

### NOE AB300 Climbing scaffold

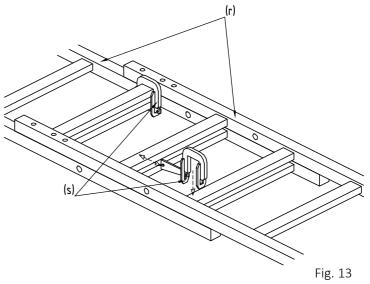


13 Connect ladders (r) with ladder clamp plates (s) positioned diagonally. To do this, pull out the wedge, fit the ladder clamp plates over 2 rungs and hammer in the wedge. The ladders must overlap a min. 2 rungs or 0.5 m (see Fig. 13).

2 or 3 ladders may be required, depending on the height. The total length of the ladder is at least the distance from the top of the boarding of the upper platform to the top of the boarding of the lower platform + 1.00 m.

#### NOE ladders

Part No.	Description	
126140	Ladder 2750 mm	
126150	Ladder 1000 mm	



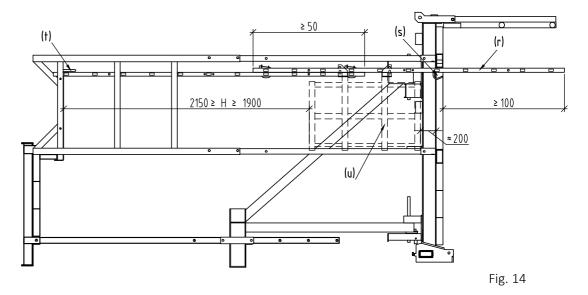
14 Suspend the ladder (r) from the hook (s) of the platform at the top and in between use the pins (t) and the boarding on the ladder ascent (see Fig. 14).

Choose a length for the back-propping (u) such that the distance H from the top of the boarding of the ladder ascent to the underside of the back-propping is between approx. 1.90 and 2.15 m.

#### NOE back-propping

Part No.	Description
ruitivo.	Description

- 126191Back-propping 2750 mm
- 126192 Back-propping 1000 mm
- 126193Back-propping500 mm

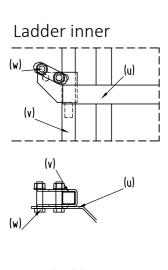


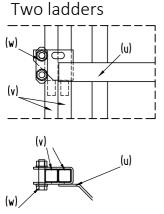
### Assembly and Operating Manual

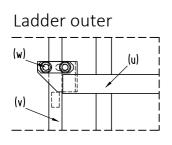


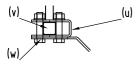
# NOE AB300 Climbing scaffold

15 Push the back-propping (u) over the ladder stiles (v) and insert the connection channel (w) in such a way that the ladder is firmly fixed. The distance between the underside of the platform and top of the back-propping must not exceed a maximum of 200 mm (see Fig. 15).









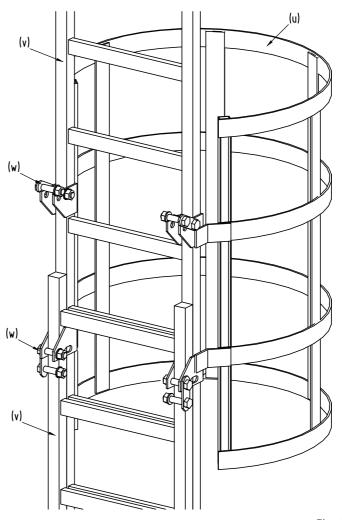
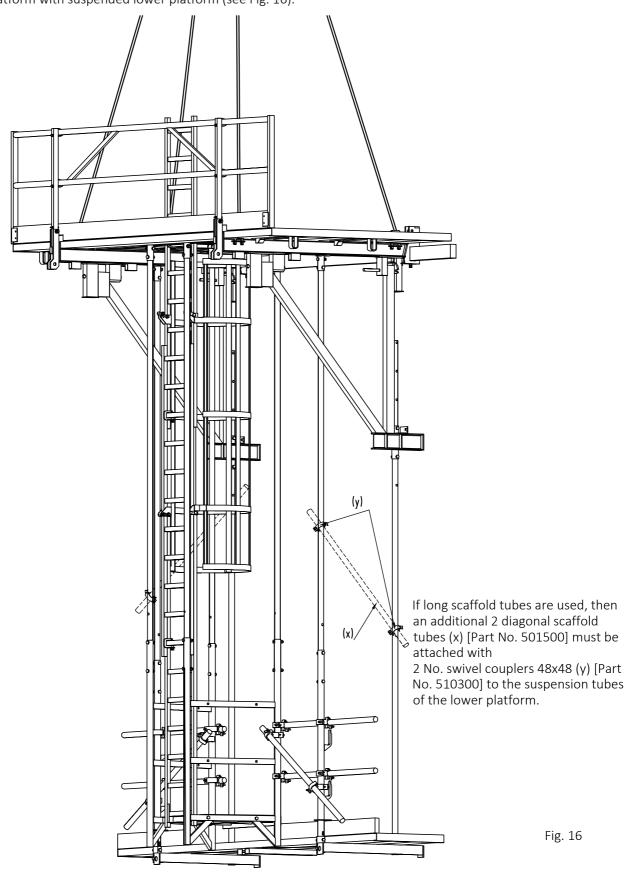


Fig. 15



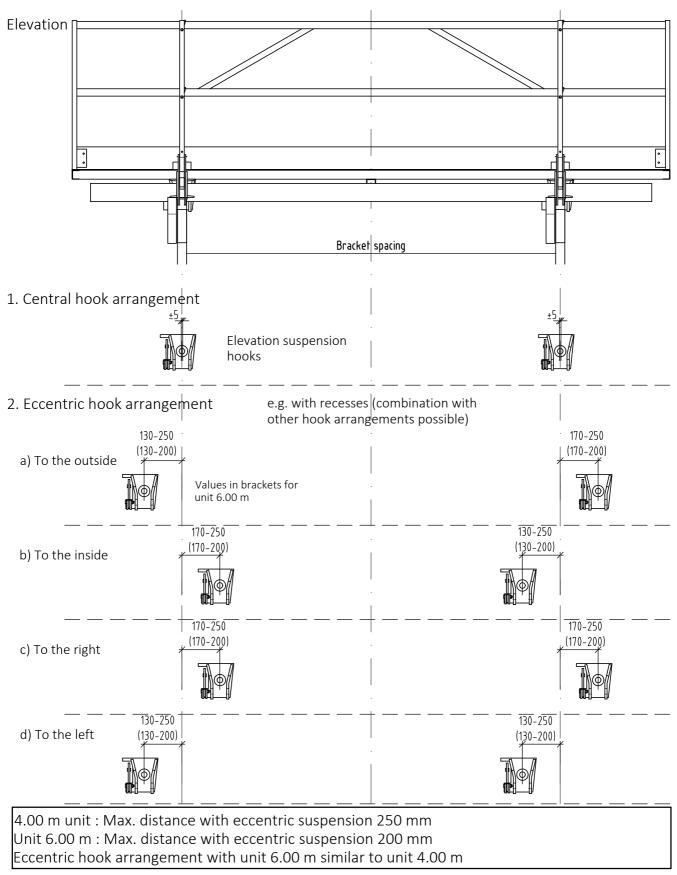
16 Attach the quadruple crane ropes (p) to the stirrups sunk into the boarding. Release the stabilizers from the substrate and from the working platform and then slowly lift the working platform with suspended lower platform (see Fig. 16).





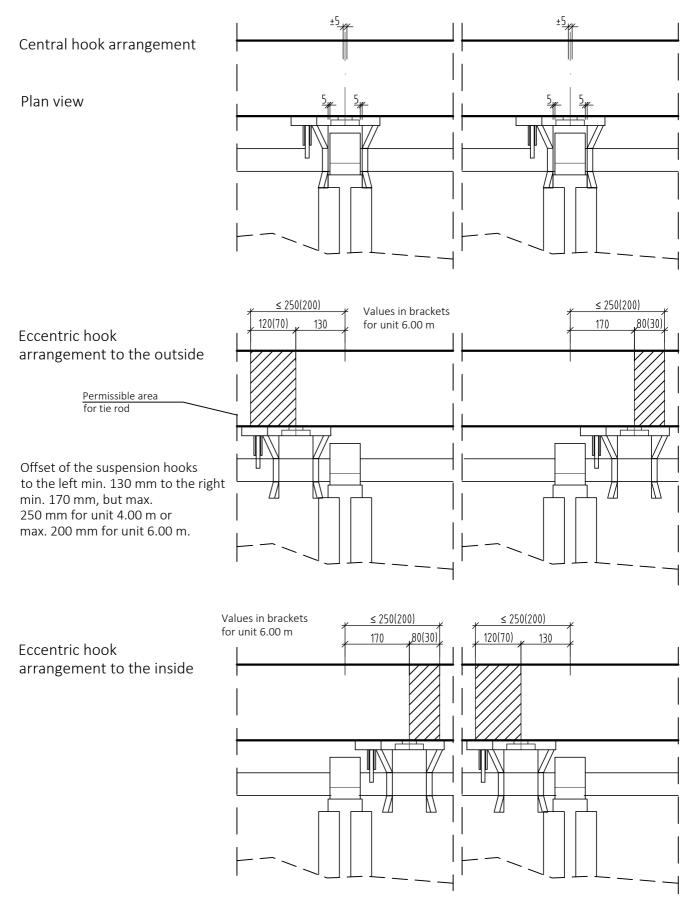
#### 5. Scaffold suspension

5.1 Available play when installing the suspension hooks



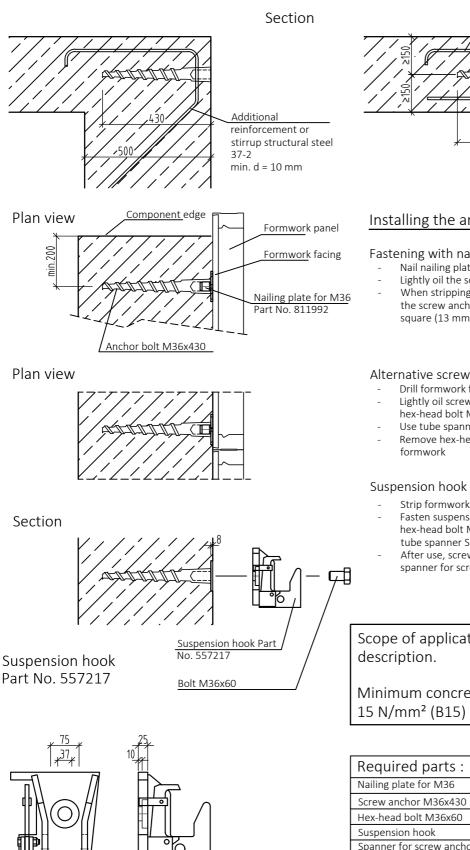


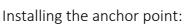
### 5.2 Details of central and eccentric hook arrangement





#### 5.3 Fastening the suspension hooks with screw anchor M 36x430





Fastening with nailing plate

Nail nailing plate for M36 to the formwork facing

430

Lightly oil the screw anchor and bolt on to the nail plate.

stirrup structural steel 37-2 min. d = 10 mm

When stripping the formwork, the nail plate remains on the screw anchor and can then be screwed out using a square (13 mm or 1/2 inch) socket.

#### Alternative screw anchor fastening

- Drill formwork facing (Ø38 mm)
- Lightly oil screw anchors M36x430 and fasten with hex-head bolt M36x60
- Use tube spanner SW55 to tighten
- Remove hex-head bolt M36x60 before stripping

#### Suspension hook fastening

- Fasten suspension hook for screw anchor M36x430 with hex-head bolt M36x60 in screw anchor M36x430 using tube spanner SW55
- After use, screw out screw anchor M36x430 using spanner for screw anchor for reuse

Scope of application see system

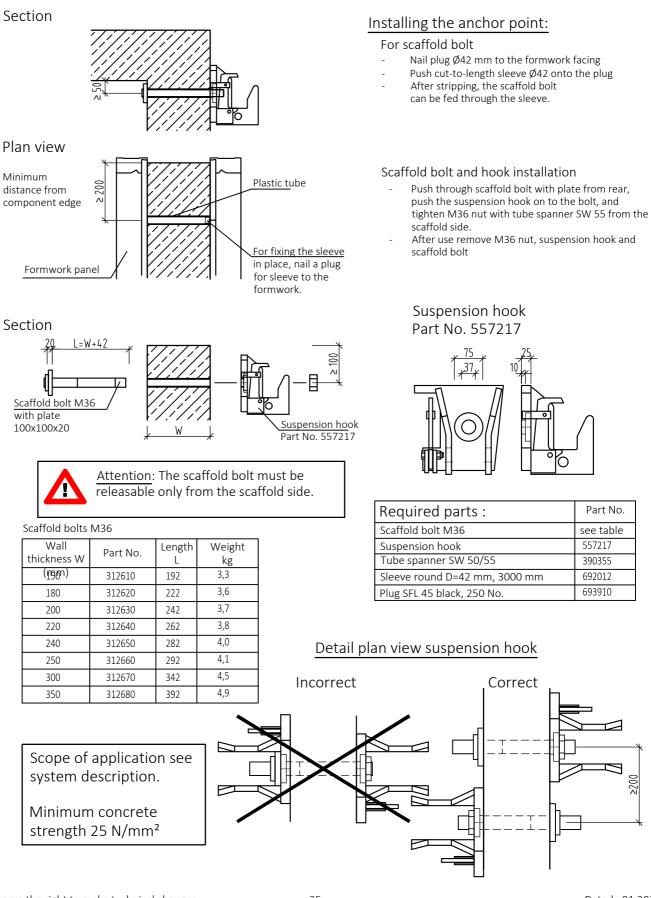
# Minimum concrete strength

Required parts :	Part No.
Nailing plate for M36	811992
Screw anchor M36x430	811900
Hex-head bolt M36x60	318200
Suspension hook	557217
Spanner for screw anchor M36x430	811910
Tube spanner SW55	390355

We reserve the right to make technical changes



#### 5.4 Fastening the suspension hook with scaffold bolt M36



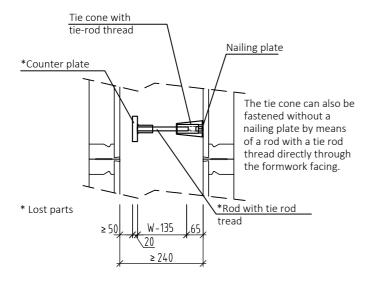


#### 5.5 Fastening the suspension hook with removable tie cone

# 1.) Fasten tie cone to formwork panel

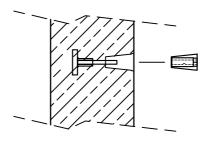
2.) Remove tie cone

Plan view



Minimum distance to component edges 200 mm, if nec. fix additional reinforcement.

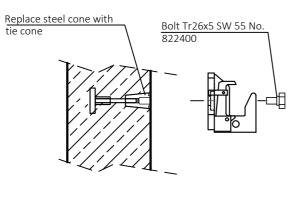
The tie-rod-threaded rod must be fully screwed into the tie cone (as far as it will go)!



#### Installing the anchor point:

- Fasten nailing plate to the formwork facing
- Screw in the tie-rod-threaded rod as far as it will go into the counter plate and into the tie cone
- Screw the tie cone with tie rod and counter plate into the nailing plate
- After stripping the formwork, screw out the nailing plate and tie cone with a spanner
- Screw in the steel cone for use as a removable cone with the spanner for steel cone
- Fasten suspension hook with bolt Tr26 using spanner SW 55 into the steel cone
- After use, unscrew suspension hook and steel cone and bolt Tr26x5 for reuse

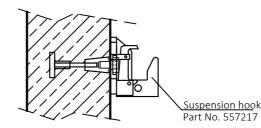
#### 3.) Installing the removable cone



Range of application see system description.

Minimum concrete strength 25 N/mm<sup>2</sup>

#### 4.) Suspension hook in the removable cone



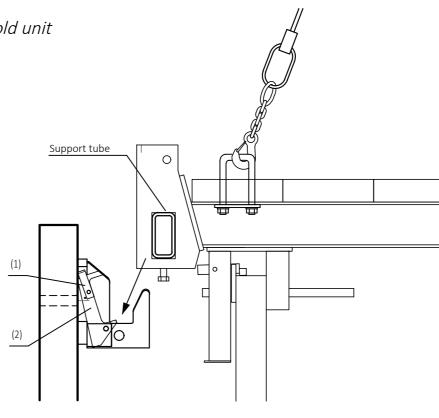
Required parts :	Part No.
Counter plate	557213 *
Rod with tie rod thread lg., black	76*
Tie cone with tie-rod-thread	686900
Nailing plate for tie cone	811991
Steel cone	557212
Bolt Tr26x5 50lg. SW 55	822400
Suspension hook	557217
Pipe-head shaped key SW 32 for tie cone	394901
Spanner for nailing plate	466712
Key for steel cone	811920
Tube spanner SW 50/55 for bolt	390355
* Lost narts	

\* Lost parts

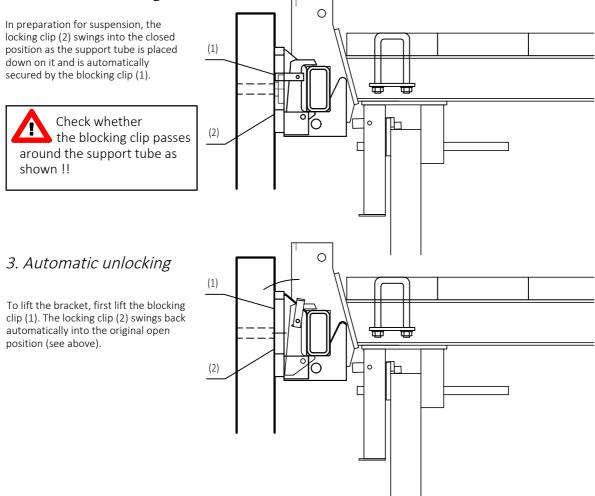
5.6 Suspending the scaffold unit

1. Suspension

Blocking clip (1) swung up and locking clip (2) open.



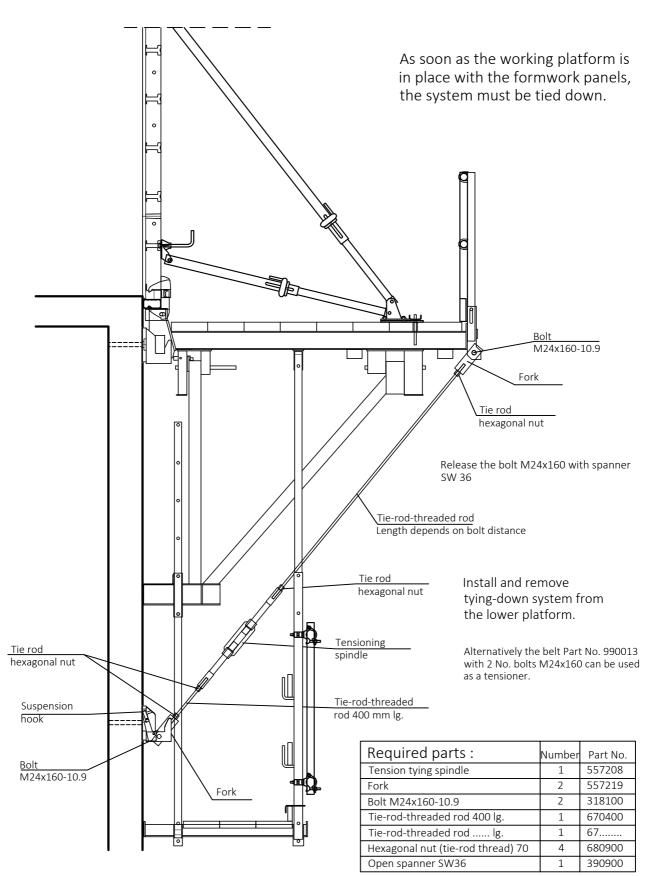
#### 2. Automatic securing







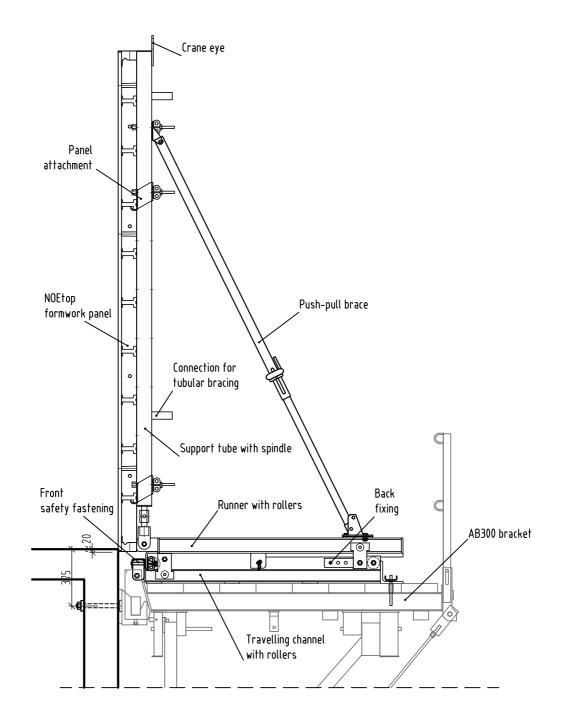
5.7 Tying down against wind uplift on the panels





6. Use with travelling channel and travelling device

6.1 Overview





#### 6.2 Use of the AB300

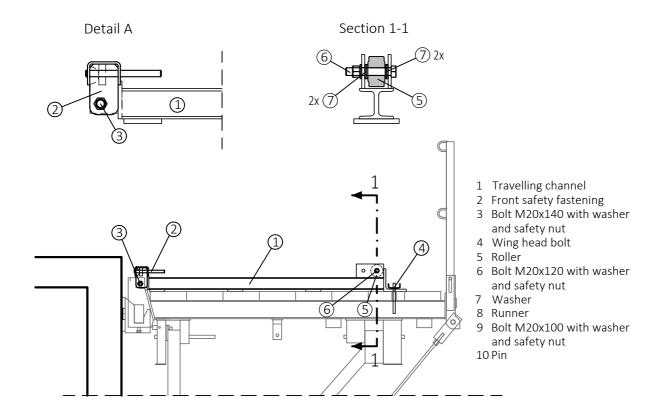
◆ Before concreting the wall or slab, plan out the formwork and falsework and determine the tie rod spacings. Refer to the design tables. Concrete in the tie rods in such a way that the suspension hook can be fastened in position later. After the concrete has reached the required strength, fasten the suspension hook in position and attach the scaffold.



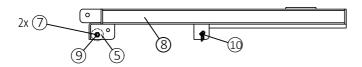
Refer to Points 4 and 5 for this.

#### 6.3 Mounting the runner on the bracket

- ◆ Bolt the travelling channel (1) and front safety fastening (2) with bolt M20x140 (3) to the bracket and fasten to the sunken nut in the bracket with the wing head bolt (4).
- ◆ Fasten the roller (5) with bolt M20x100 (6) and additional washers (7) to the travelling channel.



◆ Bolt the second roller (5) with bolt M20x100 (9) and additional washers (7) to the runner (8). Insert the safety pin (10) into the opening on the runner and secure.



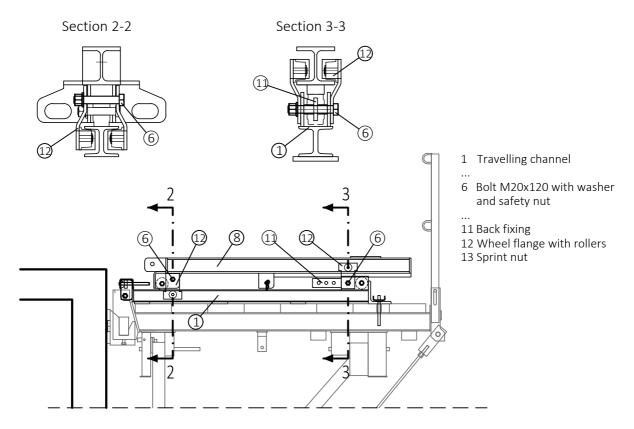
We reserve the right to make technical changes

30

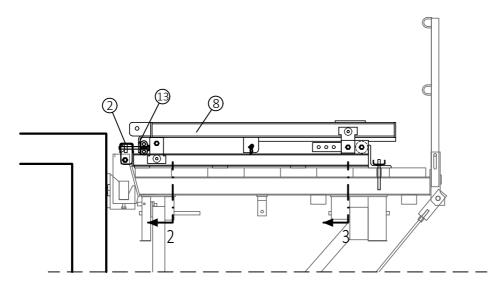


✦ Place pre-assembled runner (8) on to the travelling channel (1).

Fasten the back fixing (11) and a wheel flange (12), with the rollers upwards, to the travelling channel with bolt M20x120 (6). Fasten the other wheel flange (12) with the rollers downwards, at the front on to the runner with bolts M20x120 (6). The runner is held at the sides with this arrangement and secured against uplift.



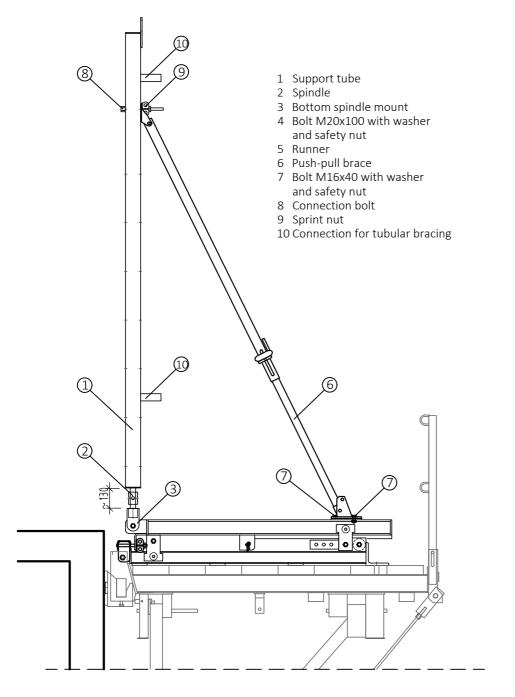
Push the runner (8) as close to the front safety fastening (2) as possible, until the 2 Sprint nuts (13) can be tightened to secure the assembly in place.





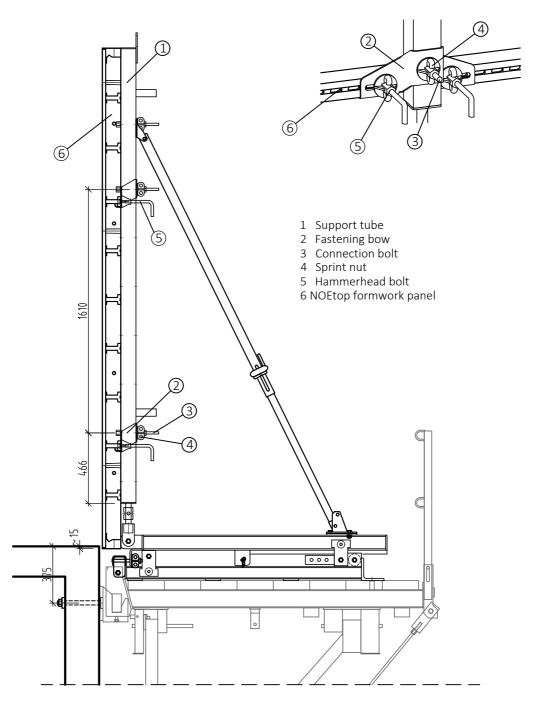
#### 6.4 Install support tube and panel system

- Bolt support tube (1) with spindle (2) and bottom spindle mount (3) to the runner (5) with bolt M20x100 (4). Secure the spindle against screwing out with cotter pins.
- ◆ Bolt the bottom support of the push-pull brace (6) to the runner (5) with 2 bolts M16x40 (7). Set the support tube vertical, pull out the brace and fasten the head support to the support tube (1) with the connection bolt (8) and Sprint nut (9).
- ◆ Stiffen the support tubes with at least a pair of tubular bracing members connected to the connections for the tubular bracing Ø48 (10)..





- Fasten 2 fastening bows (2) onto the support tube (1) each with 1 connection bolt (3) and Sprint nut (4).
- Suspend the NOEtop formwork panel (6) on the hat profile in the connection bow (2) and fasten each one on to the hat profile with 2 hammerhead bolts (5).

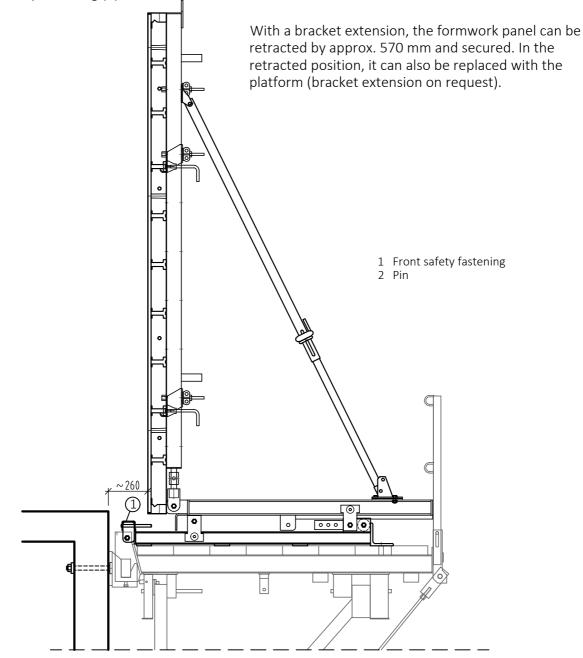


✦ Adjust the height of the formwork panels with the spindle on the support tube. Push the runner and attached the formwork panels up to the wall by tightening the Sprint nut at the front safety fastening. Align the formwork panel system with the push-pull braces.



#### 6.5 Retract the formwork panel

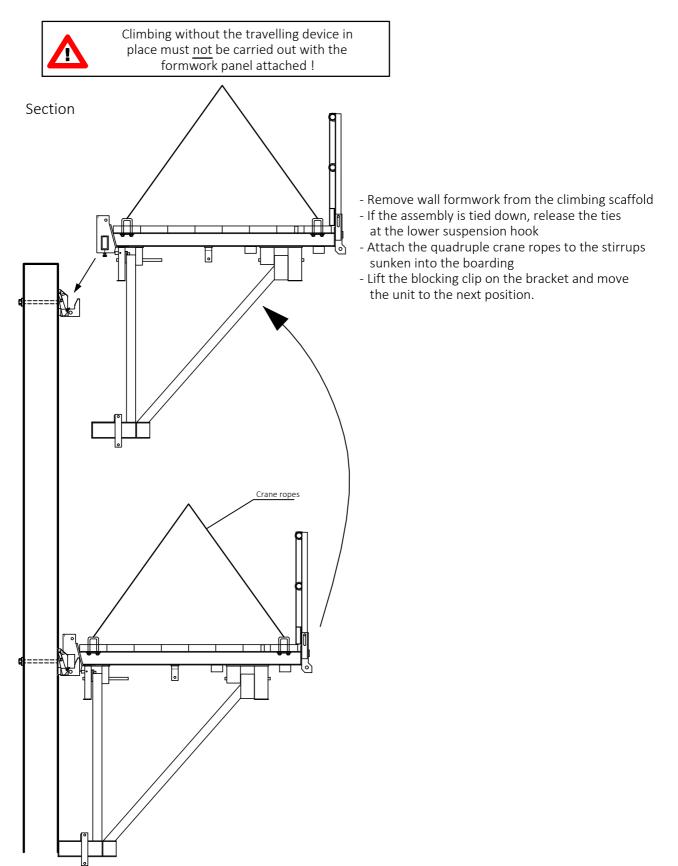
Remove the 2 Sprint nuts from the front safety fastening (1), release the formwork panel from the concrete and move the assembly back with the runner. Before being transported by crane, the formwork panel must be moved forward and fastened in position with Sprint nuts at the front safety fastening (1).



- Attach crane hooks to the crane eyes of the support tube, release the safety device on the suspension hook and move the complete unit with formwork into position for the next use.
- ◆ Attach and secure the brackets in the mounted suspension hooks. Only then release the unit from the crane. After cleaning, oiling etc. move the formwork panel forward again and secure the runner as described above.

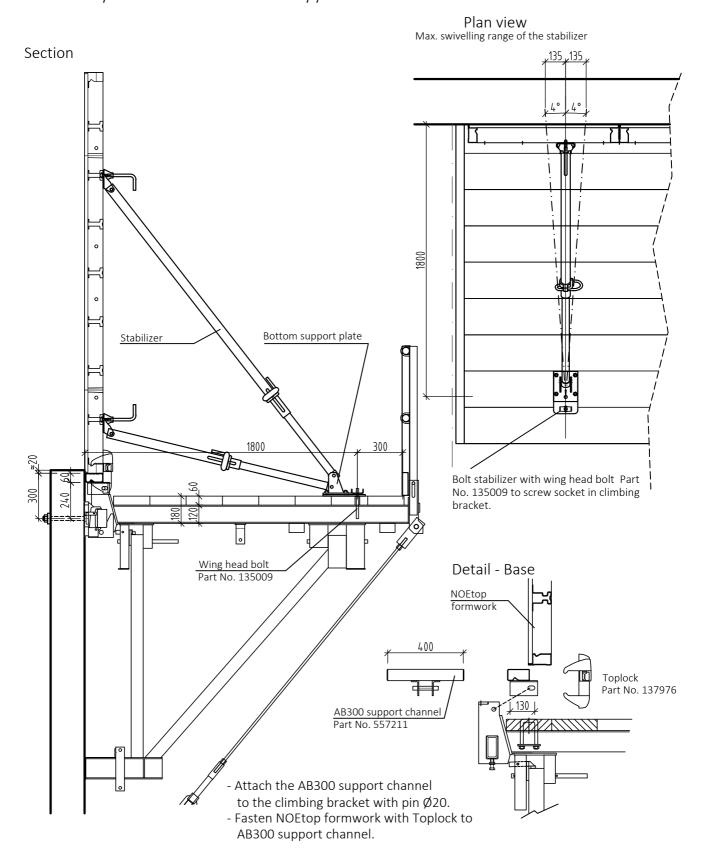


6.6 Climbing process without travelling device





# 7. Use without travelling device 7.1 NOEtop formwork with AB300 support channel

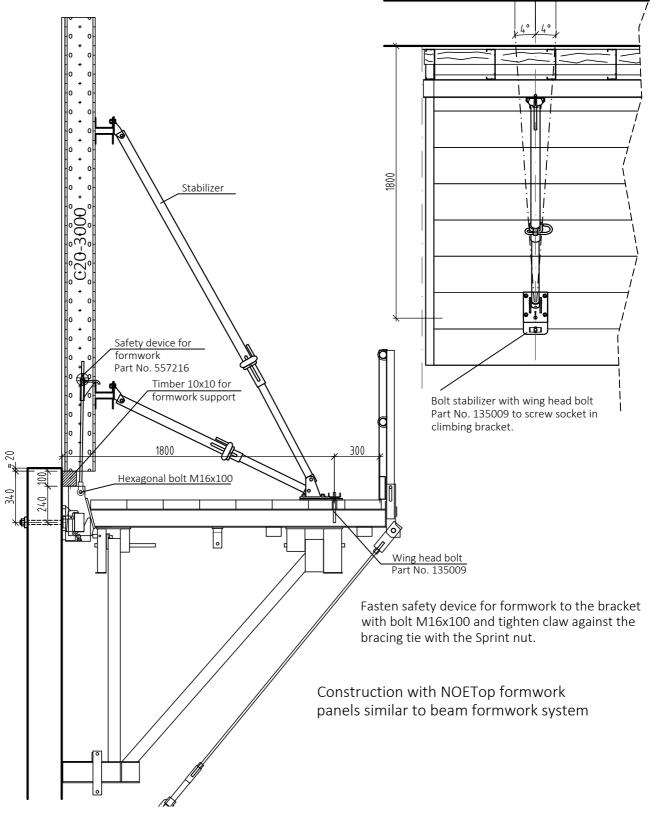






Plan view

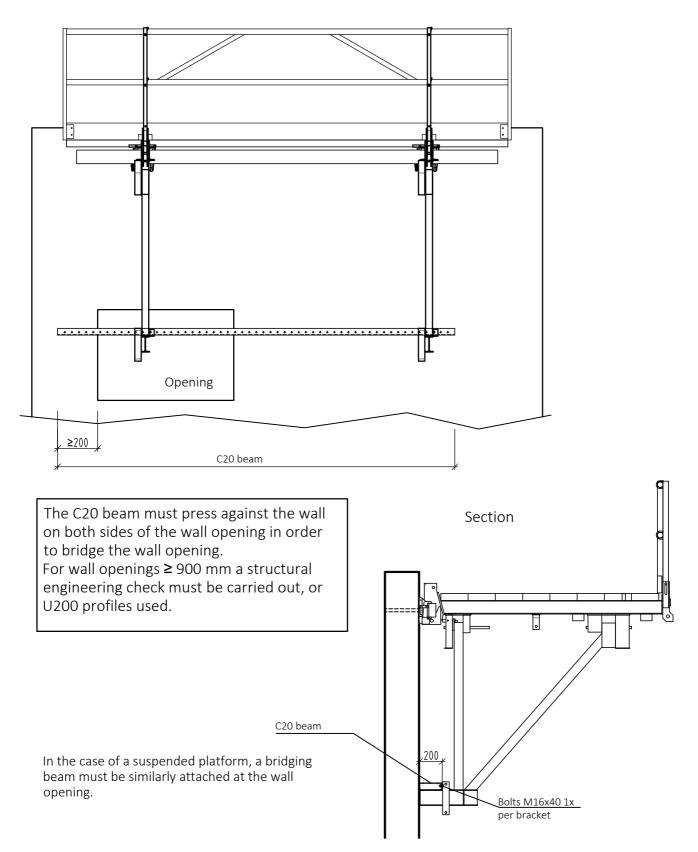
Section





## 8. Practical solutions for various situations

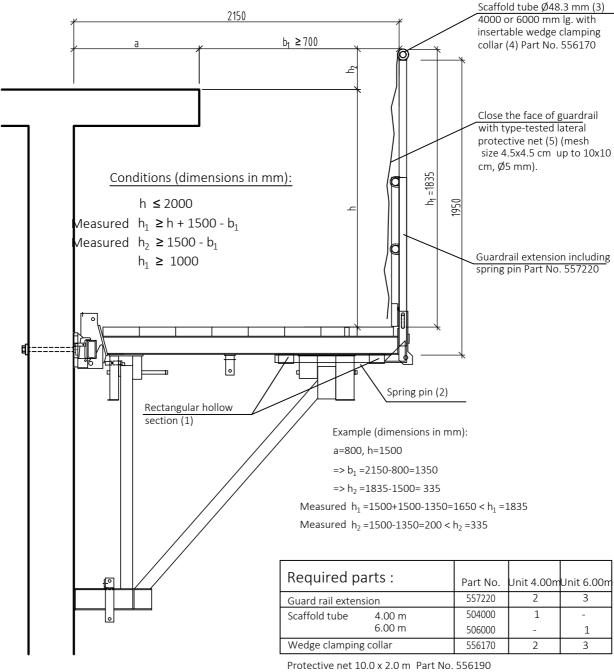
8.1 Bridging wall openings





## 8.2 Guard rail extension with protective net





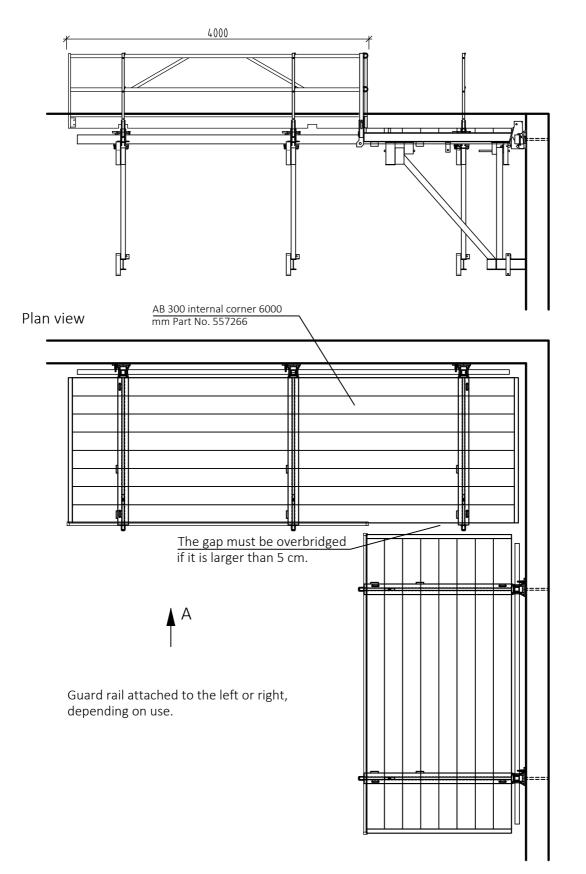
5.0 x 2.0 m Part No. 556180

- Insert guard rail extension through lateral rectangular hollow section (1) on to bracket and secure with spring pin (2)
- Insert scaffold tube (3) and wedge clamping collar (4) in guard rail extension
- Attach type-tested lateral protective net (5



## 8.3 Internal corner

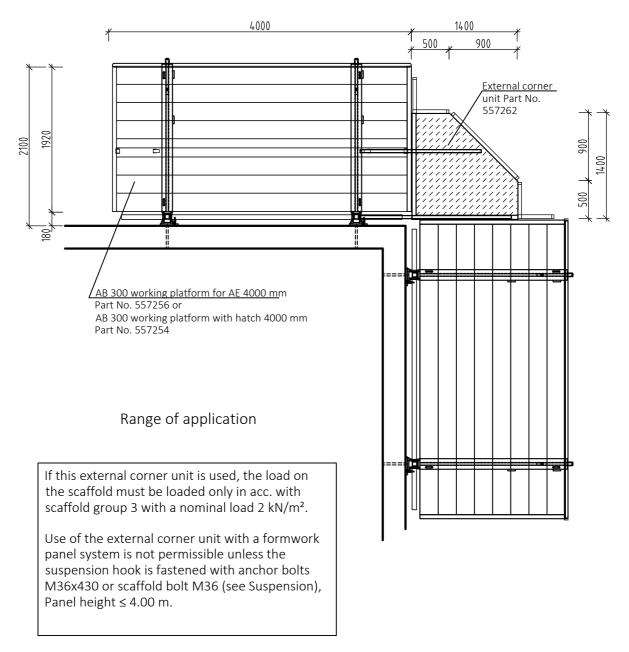
### View A

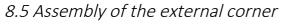




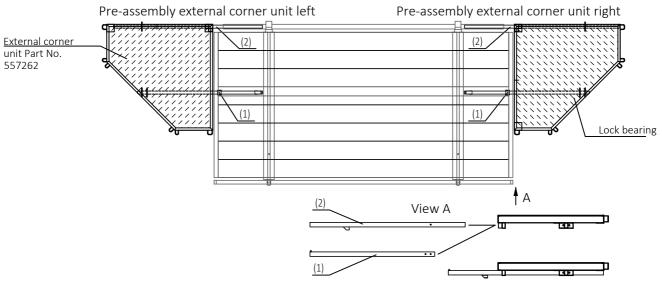
## 8.4 External corner

#### Plan view



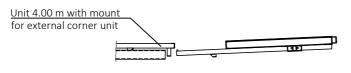


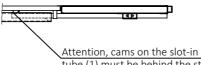
Plan view



- Insert short slot-in tube (1) into the lock bearing of the corner unit with cams pointing upwards and secure with 2 spring pins in front and behind the rear lock bearing.
- Insert long slot-in tube (2) into the lock bearing of the corner unit with cams pointing downwards and secure at the rear lock bearing with 1 spring pin.
- Insert short slot-in tube (1) into the lock bearing of the corner unit with cams pointing upwards and secure at the rear lock bearing with 2 spring pins.
- Insert long slot-in tube (2) into the lock bearing of the corner unit with cams pointing downwards and secure at the rear lock bearing with 1 spring pin.

#### Elevation

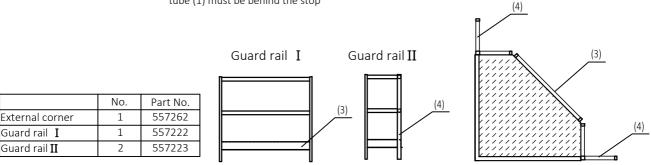




tube (1) must be behind the stop

#### Assembly external corner unit

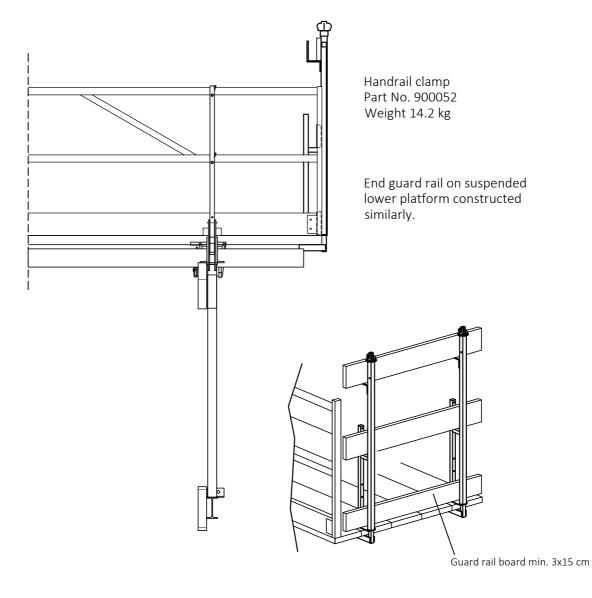
- Lift external corner unit and push into unit 4.00 m with mounting for external corner unit or unit with hatch as far as it will go so that it is automatically locked in the horizontal position.
- Insert guard rail (3) and 2 corner guard rails (4) on the external corner unit into the mount for guard rail. Guard rails not included in external corner units.







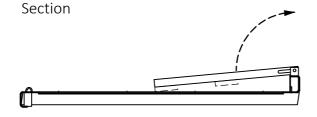
8.6 End guard rail



Clamp guard rail clamp to boarding
 2 Attach guard rail boards and toeboard

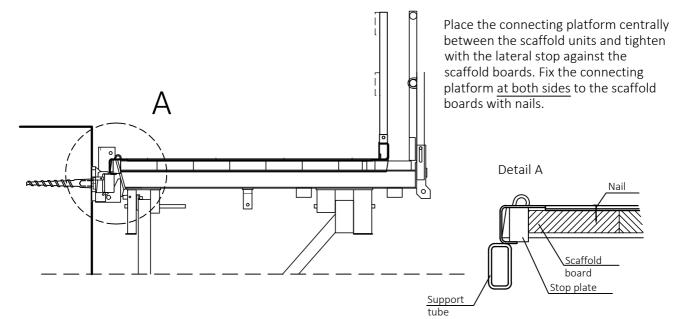


## *8.7 Connecting platform Part No. 557264*

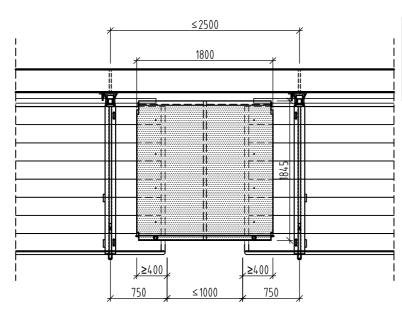


The guard rail of the connecting platform can be folded down for transport. Before use, fold out the guard rail and press the guard rail posts downwards (see also Assembly process scaffold).

Use a quadruple sling rope when moving by crane. Attach the crane ropes to the crane suspension points at the sides (4 No).



Plan view



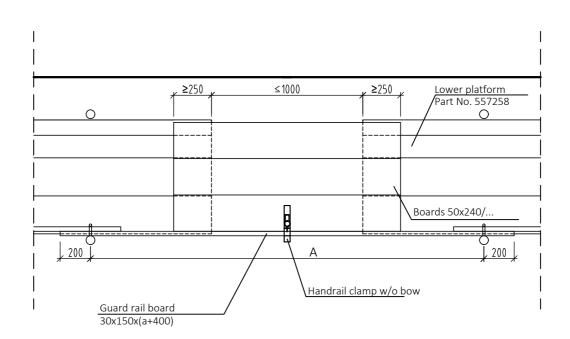
Range of application

Use of the connecting platform with a formwork panel system is not permissible unless the suspension hook is fastened with anchor bolts M36x430 or scaffold bolt M36 (see Suspension).

Height above ground	Panel height
≤ 24 m	4.00 m
≤ 100 m	3.00 m



## 8.8 Connecting lower platform



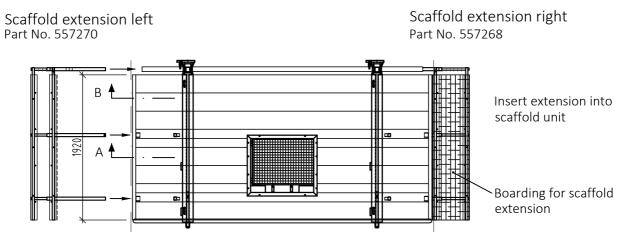
If A is greater than 2.0 m, a handrail clamp must be attached to the connecting platform boards !

Dated: 01.2021



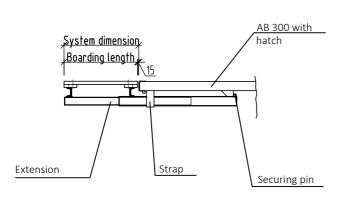
### 8.9 Scaffold extension

For platform with hatch (200-500 mm, one or both sides)

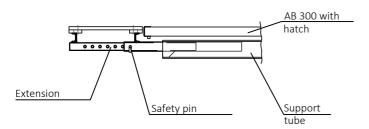


The scaffold extension is inserted on the left or right side into the straps and the support tube of the working platform with hatch. The AB 300 can be extended in this way on any side between 200 and 500 mm in increments of 50 mm.

Section A-A (Extension inserted)



#### Section B-B (Extension inserted)



#### Boarding for scaffold extension

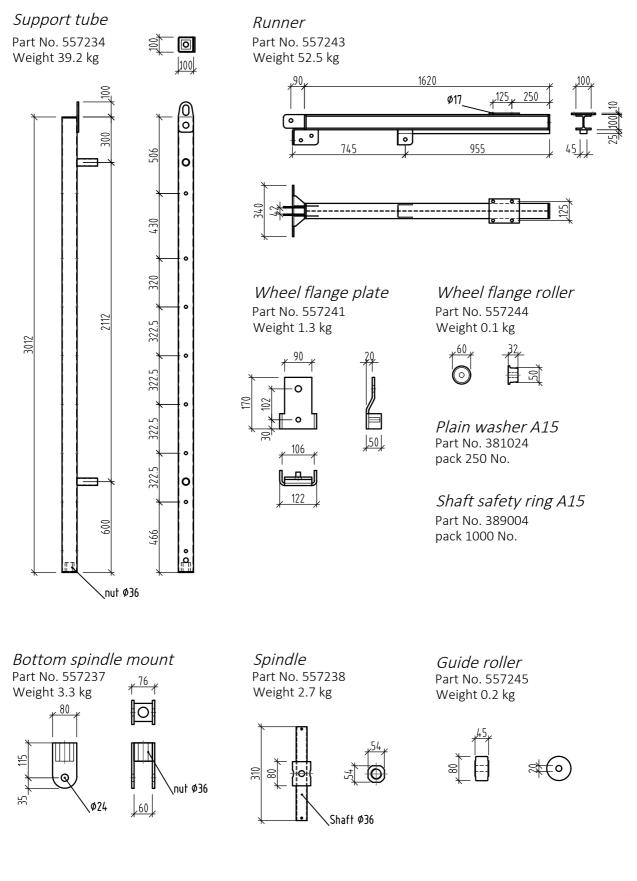
System dimension [mm]	Boarding length [mm]	Boarding weight [kg]	Weight total [kg]
200	185	4,6	48,1
250	235	5,8	49,3
300	285	7,1	50,6
350	335	8,3	51,8
400	385	9,6	53,1
450	435	10,9	54,4
500	485	12,1	55,6

Additional for scaffold extension:

Plywood for scaffold extension Part No. 557272 with information about the system dimension for the crossing length



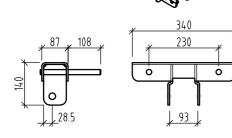
## 9. Individual parts of the travelling device



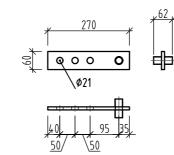


## Front safety fastening

Part No. 557239 Weight 4.1 kg



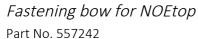
Back fixing Part No. 557233 Weight 1.2 kg



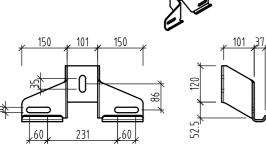
Pin Part No. 557232 Weight 0.3 kg

Incl. spring pin, washer and cotter pin

Hammerhead bolt handle, head length 125 mm Part No. 319338 Weight 1.2 kg



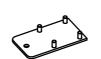
Weight 3.5 kg

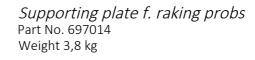


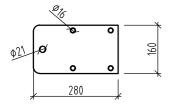
NOEtop connection bolt

Part No. 135019 Weight 0.6 kg

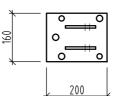
*bottom support plate* Part No.557276 Weight 3,6 kg







Fastening the bottom support plate with 4x M16 nut part no. 370025







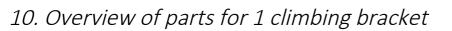


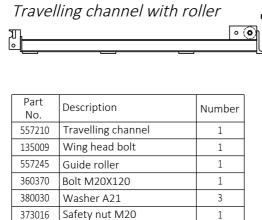
Sprint nut 80 Part No. 680580 Weight 0.7 kg



## Bolts, nut and washers

Part No.	Description	Weight [kg/piece]	Pack No.
362340	Hex-head bolt M16x 30 DIN 933 8.8	0,077	50
362344	Hex-head bolt M16X 40 DIN 933 8.8	0,09	50
360258	Hex-head bolt M16X 80 DIN 931 8.8	0,155	25
360264	Hex-head bolt M16x100 DIN 931 8.8	0,186	25
370024	Nut M16 DIN 934 8.0	0,03	200
380026	Washer A17 DIN 125	0,01	250
318000	Hex-head bolt M16x100, DIN 934 10.9	0,227	1
360366	Hex-head bolt M20X100, DIN 931 8.8	0,303	25
360370	Hex-head bolt M20X120, DIN 931 8.8	0,351	25
360374	Hex-head bolt M20X140, DIN 931 8.8	0,398	25
373016	Safety nut M20 DIN 985 8.8	0,065	100
380030	Washer A21 DIN 125	0,017	250
369004	Hex-head bolt M24x160, DIN 931 10.9	0,665	10
379000	Nut M24 DIN 934 10.9	0,22	50
380034	Washer A25 DIN 125	0,032	100





#### Support tube with spindle

Part No.	Description	Number
557234	Support tube	1
557237	Spindle mount	1
557238	Spindle	1
360366	Bolt M20x100	1
380030	Washer A21	1
373016	Safety nut M20	1
912519	Cotter pin 6x26	2

#### Attaching to NOEtop formwork

Part No.	Description	Number
557242	Fastening bow	1
135019	Connection bolt	1
680580	Sprint nut	1
319338	Hammerhead bolt	2

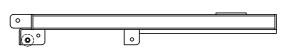
2 fastening sets are required for each support tube.

## Front safety fastening

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Part No.	Description	Number
557239	Front safety fastening	1
680580	Sprint nut	2
360374	Bolt M20x140	1
380030	Washer A21	1
373016	Safety nut M20	1

### Runner with roller



Part No.	Description	Number
557243	Runner	1
557232	Safety pin	1
557245	Guide roller	1
360366	Bolt M20x100	1
380030	Washer A21	3
373016	Safety nut M20	1

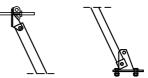
### Wheel flange with rear fixing

**●** ◎



Part No.	Description	Number
557241	Wheel flange plate	4
557244	Wheel flange roller	4
360370	Bolt M20X120	2
380030	Washer A21	2
373016	Safety nut M20	2
389004	Shaft safety ring	4
381024	Washer A15	4
557232	Pin	1
557233	Back fixing	1

### Push-pull brace with fastening



Part No.	Description	Number
697024	Push-pull brace	1
135019	Connection bolt	1
680580	Sprint nut	1
362344	M16x40 bolt	2
370024	Nut M16	2
380026	Washer A17	2





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