



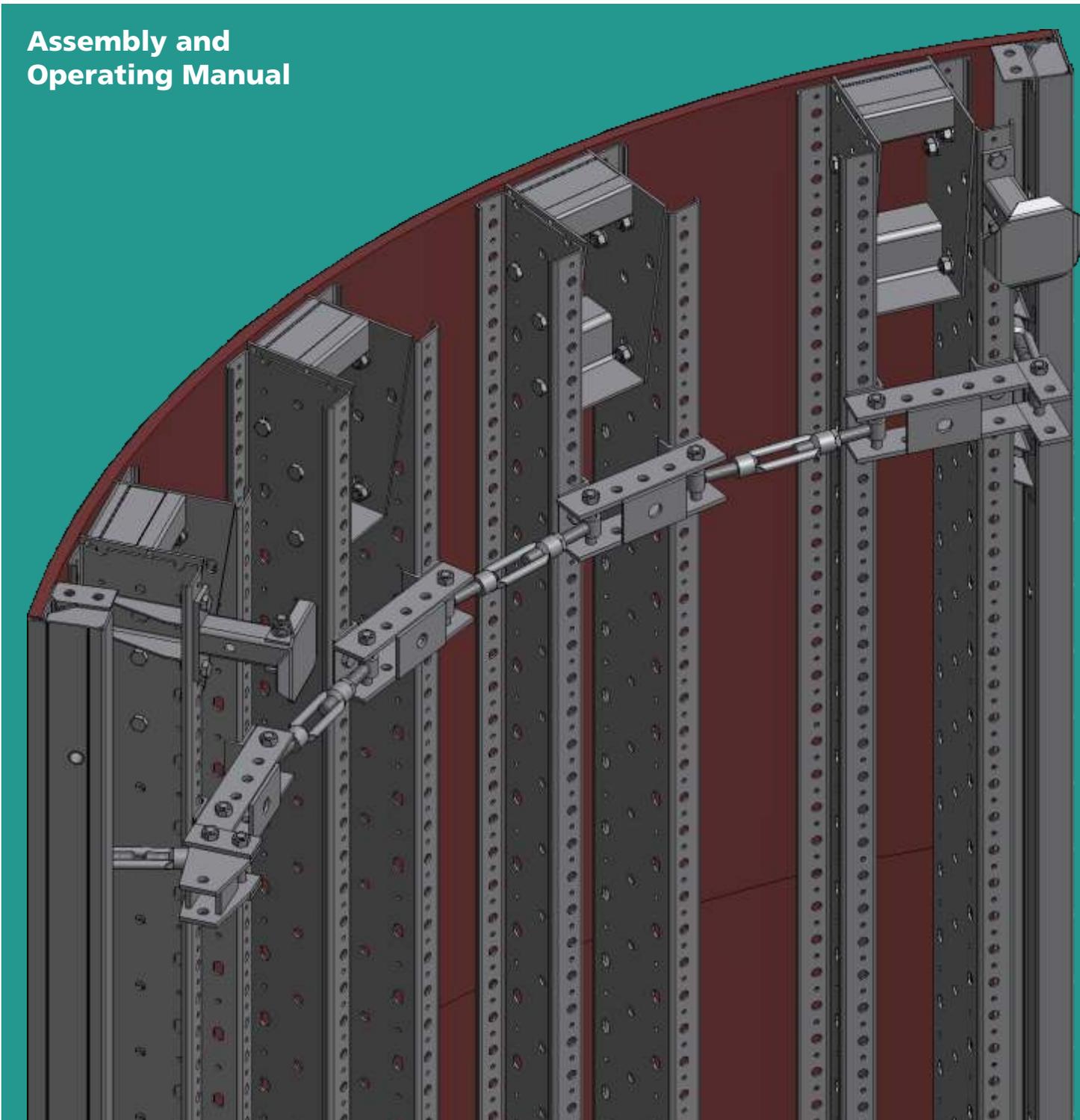
THE FORMWORK



NOE[®] top R275

Dated: 01.2021

Assembly and
Operating Manual



Assembly and Operating Manual
NOEtop R275 Circular formwork



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1 Safety advice, GSV guidelines

1.1. 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.



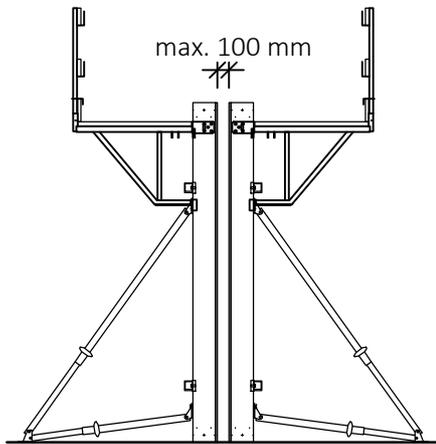
Note: Supplementary information for safe, correct and professional execution of work activities.

- 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.

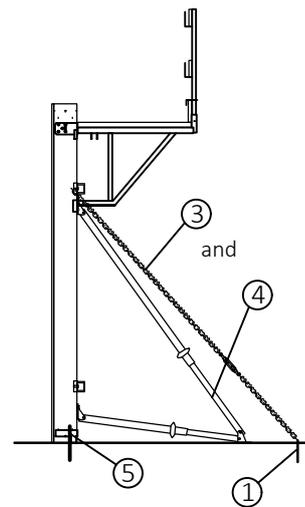
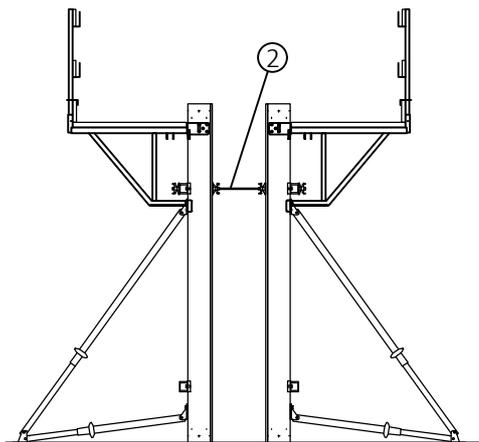
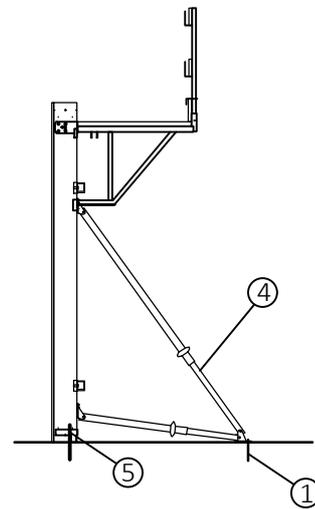
1.2 Safety regulations for use

1.2.1 Safe setting down of formwork elements

Double-faced formwork



Single-faced formwork



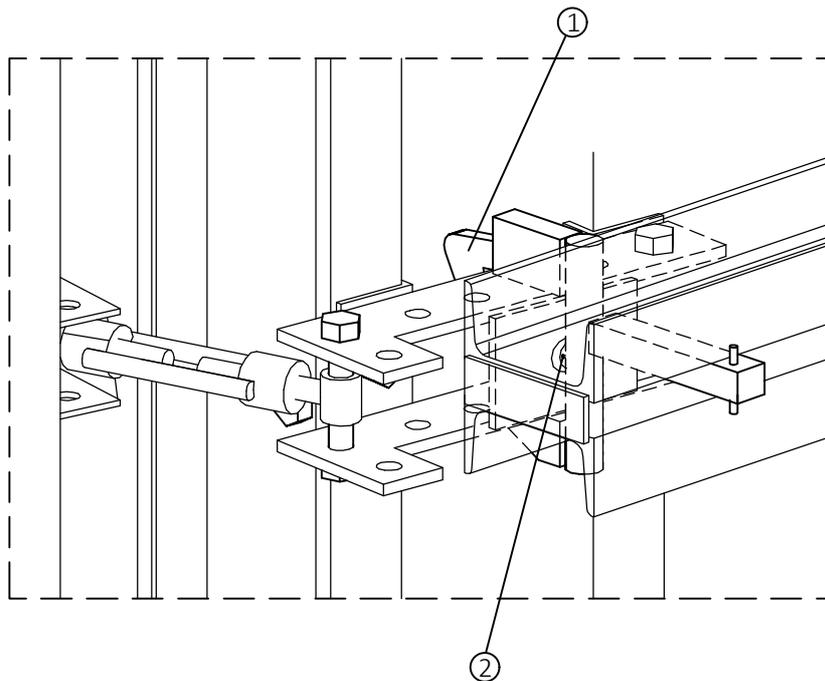
To avoid accidents always set elements down in such a way that they are structurally stable (guy, brace, anchor), this includes placing them down safely on the ground.

If the stabilizers are anchored with an anchor bolt, they must be able to act in compression and tension. At least 2 stabilizers must be attached to single elements.
Attach the uplift safety device in the event of wind loads.

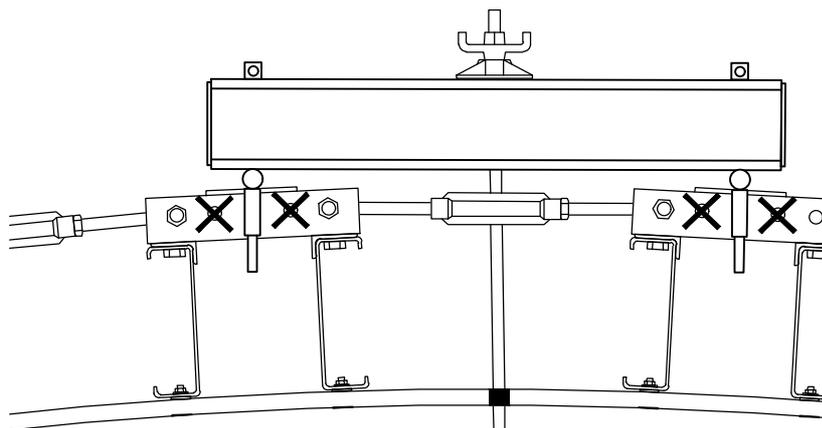
- 1 Anchor bolt
- 2 Tie rod
(to resist tension and compression)
- 3 Guy
- 4 Stabilizer, anchored
- 5 Uplift safety device

1.2.2 Attaching the spreader bar

The hooks of the spreader bar must be suspended with the pin in the middle of the yokes, not towards the edges!
Ensure that the locating pins are in the hole of the yoke, and the safety clamps are fitted over the yoke.



- 1 Safety clamp fitted over the yoke
- 2 Locating pin of the spreader bar in the hole of the yoke



Additional advice for transport

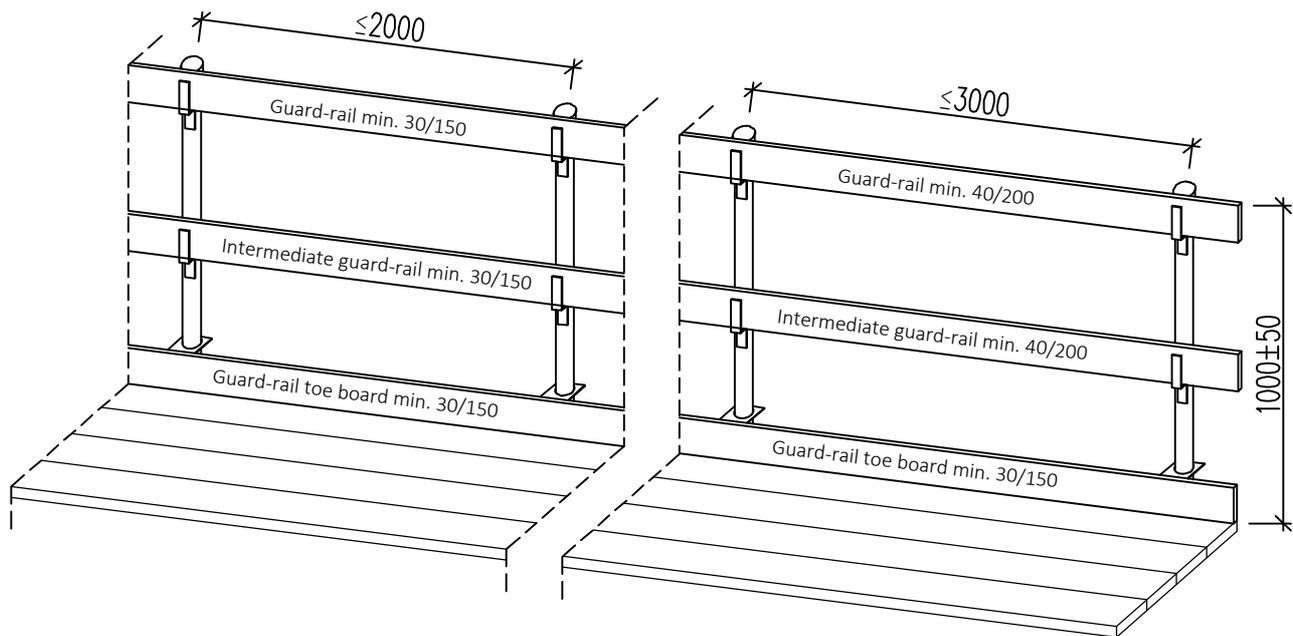
Before moving the formwork with a crane, check that the spreader bars are securely fixed in place.
Attach and detach spreader bars only when the elements are upright.
If the elements are laid down horizontally, then the spreader bars must be removed.

1.3 Guard rails and planking

1.3.1 Edge protection

Working places and walkways must have edge protection fitted to prevent people falling off.

Timbers identified as complying with DIN 4074, Part 1, classes S10 or MS10 only must be used for scaffold planking and edge protection.



1.3.2 Scaffold boards

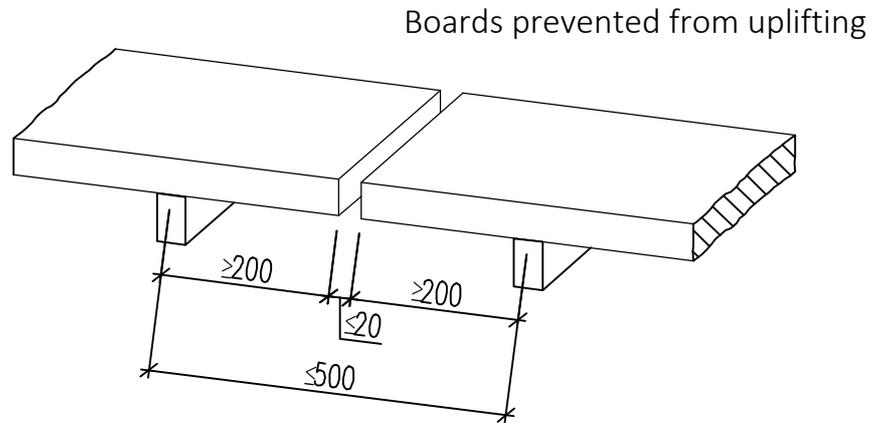
Timbers identified as complying with DIN 4074, Part 1, classes S10 or MS10 only must be used for scaffold planking and edge protection. The spacing of the concreting brackets complies with the requirements in Table 8 of DIN 4420, Part 1, Section 5.

Scaffold group	Board or planking width (mm)	Board or planking thickness (mm)			
		35	40	45	50
2, 3	200	1500	1750	2250	2500
	240 / 280	1750	2250	2500	2750

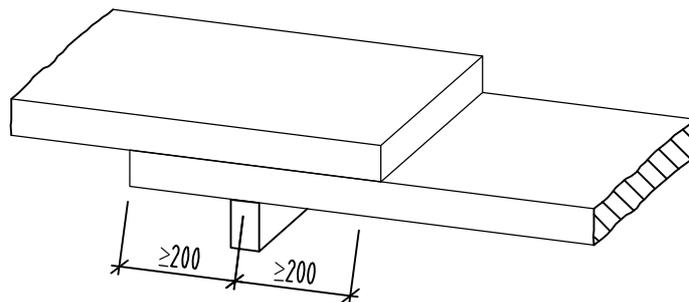
Table 1: Permissible spans in mm for scaffold planking made of timber planks or boards in accordance with DIN 4420.

Butt joints between scaffold boards

Uplift prevention fixings can be omitted if the scaffold boards or planking are at least 3000 mm long and have a cross section of at least 200x40 mm.

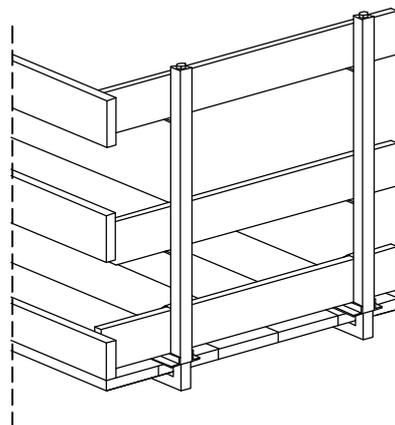


Overlapping of scaffold boards



1.3.3 Scaffold-end handrails

Timbers identified as complying with DIN 4074, Part 1, classes S10 or MS10 only must be used for handrails.



Scaffold end protection can be constructed e.g. with guard-rail clamp Part No. 900052.

2 Overview of units

2.1 Full standard units

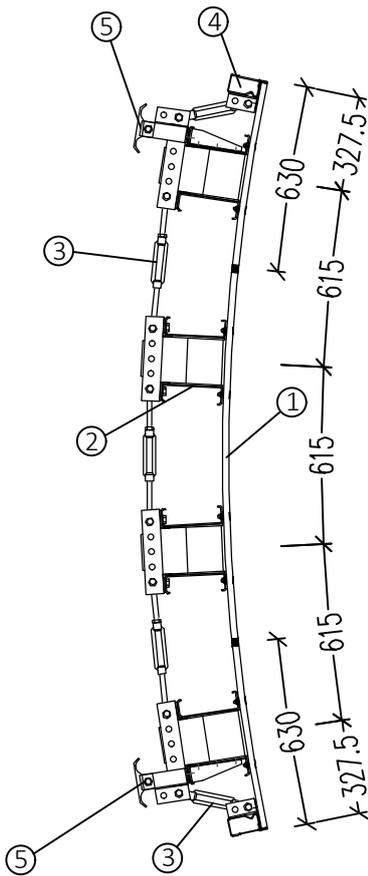
Facing 21 mm, minimum radius 4.00 m.

External

L=2.50 m

Internal

L=2.38 m

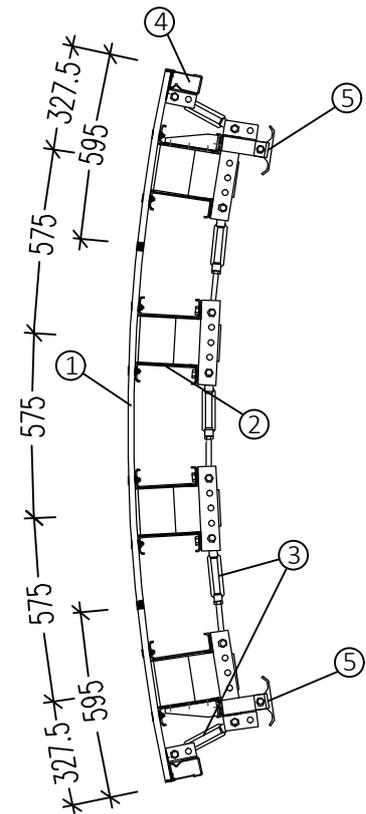


External units

Height [mm]	Part No.	Weight [kg]
3000	351000	569
1500	351010	349
750	351020	213

Internal unit

Height [mm]	Part No.	Weight [kg]
3000	351100	561
1500	351110	343
750	351120	208



Permis. concrete pressure
50 kN/m²
Minimum radius: 4.00 m

- 1 Facing 21 mm
- 2 C20 beam
- 3 Turnbuckle
- 4 Edge profile
- 5 Base Part No. 350412

Bases are attached to allow the units to be stacked. Crane bows are used when moving the units by crane.

Various loose parts are required to connect and couple units, walkway brackets, stabilizers, spreader bars and ties in addition to the standard units.

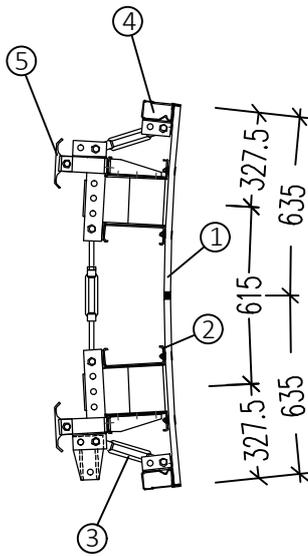
Full units with 18 mm facing for radii greater than 2.75 m can be ordered as purchased items.

2.2 Half standard units

Facing 18 mm, minimum radius 2.75 m.

External L=1.27 m

Internal L=1.23 m

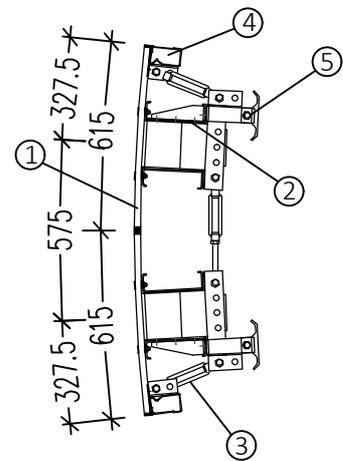


External units

Height [mm]	Part No.	Weight [kg]
3000	351030	334
1500	351040	204
750	351050	125

Internal unit

Height [mm]	Part No.	Weight [kg]
3000	351130	328
1500	351140	198
750	351150	122



Permis. concrete pressure
50 kN/m²
Minimum radius: 2.75 m

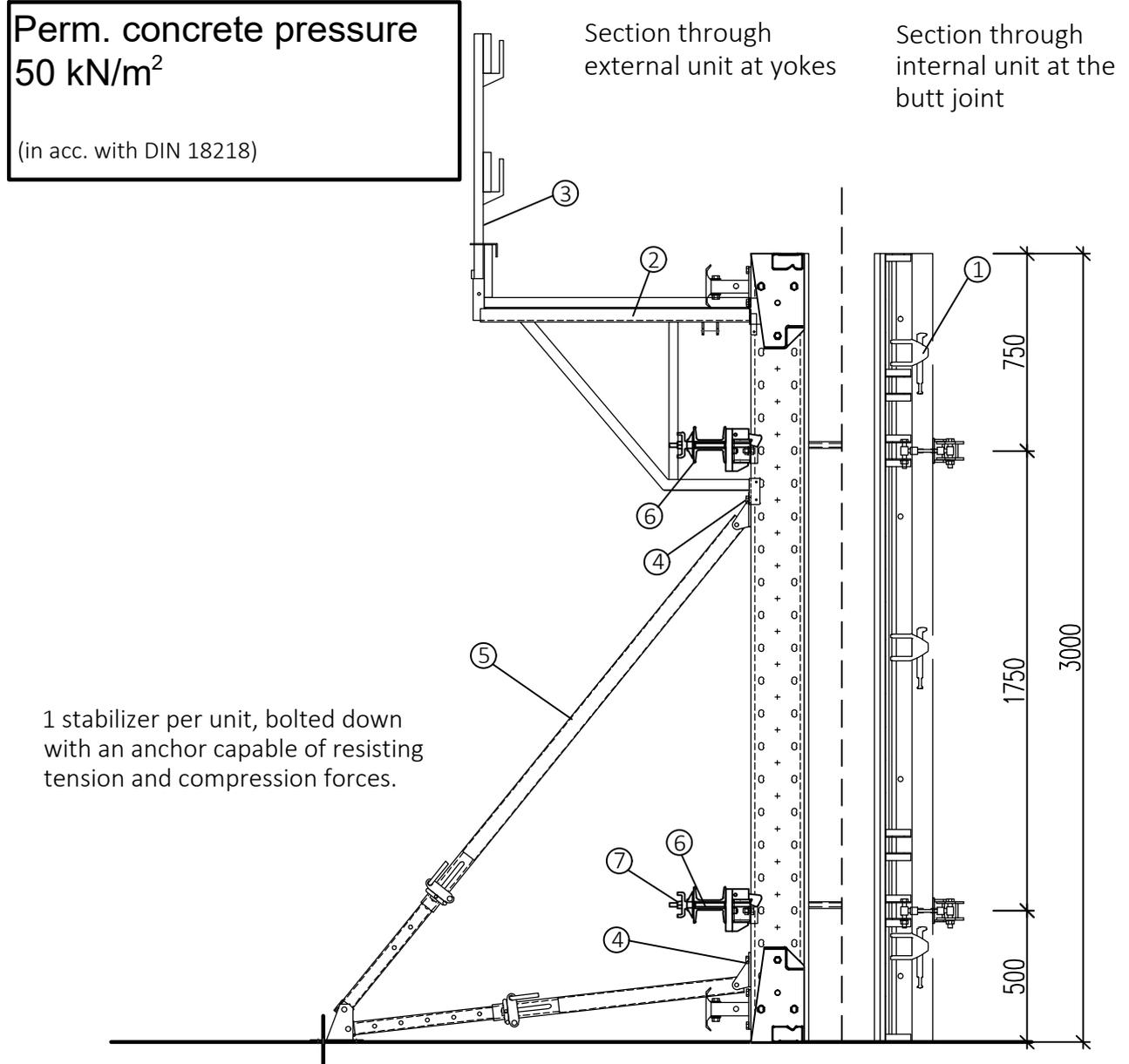
- 1 Facing 18 mm
- 2 C20 beam
- 3 Turnbuckle
- 4 Edge profile
- 5 Base Part No. 350412

Ring bolts are attached to the 3.00 m high internal and external units for moving them by crane. Bases are attached to allow the units to be stacked.

Various loose parts are required to connect and couple units, walkway brackets, stabilizers, spreader bars and ties in addition to the standard units.

3 Formwork construction

3.1 Section through formwork 3.00 m high



No. of Toplock V or adjustable locks at the butt joint

Unit height 3.00 m:	3 No.
Unit height 1.50 m:	2 No.
Unit height 0.75 m:	2 No.

- 1 NOEtoplock V Part No. 137976
- 2 Walkway bracket Part No. 530014
- 3 Guard rail tube Part No. 111400
- 4 M16x30 Part No. 313200
- 5 Stabilizer
- 6 Spreader bar Part No. 350330
- 7 Tie bar

Stabilizers

- Up to 4.50 m high Ext. length 2.10-3.65 m (+ 2x M16x30, Part No. 313200)
- Up to 6.00 m high Ext. length 2.77-5.00 m (+ 2x M16x30, Part No. 313200)
- Up to 9.00 m high Ext. length > 7.00 m (+ 3x M16x30, Part No. 313200)
and additional ext. length 2.10-3.65 m

Stabilizers for greater heights on request.

3.2 Butt joints between units

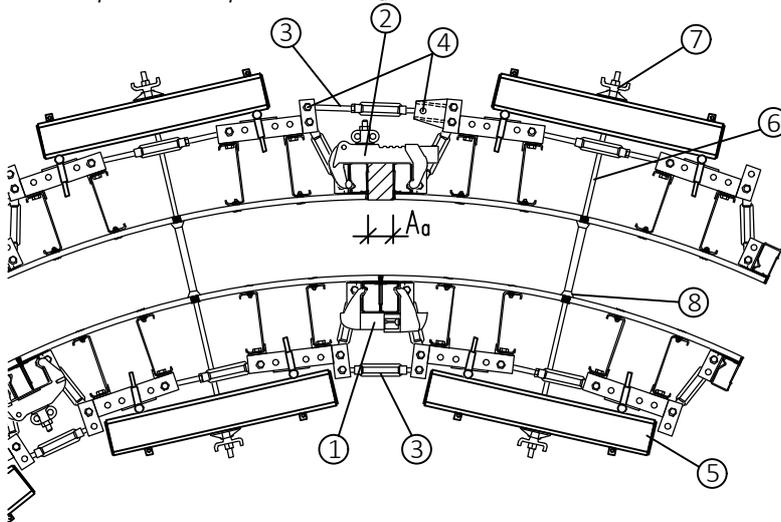
Depending on radius and wall thickness a compensation piece may be necessary at the butt joint between the units on the internal or external units

Observe the safety regulations when attaching the spreader bars!

With the internal panels the turnbuckle connected to the facing must be set about 2 mm longer (when setting the radius it is under tension) before concreting, as the spindle will be placed under compression load during concreting (spindle play taken into account).

3.2.1 Compensation piece, external

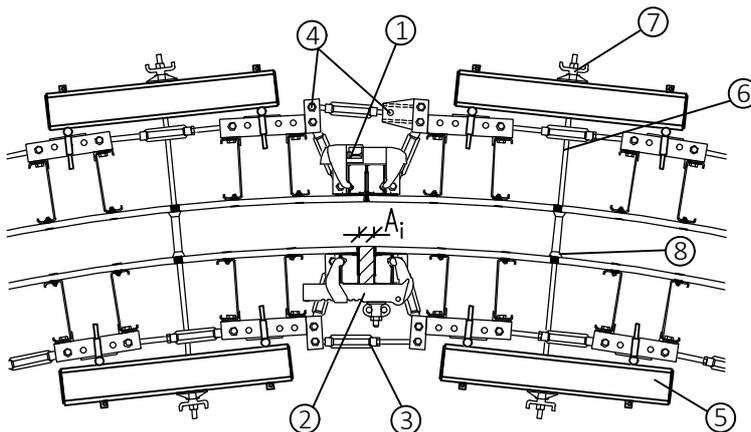
Max. compensation piece size $A_a = 13.5 \text{ cm}$



- 1 NOEtoplock V Part No. 137976
- 2 Top adjustable lock Part No. 137985
- 3 Turnbuckle at joint
(Part No. see individual parts)
- 4 M16x100 Part No. 314000
- 5 Spreader bar Part No. 350330
- 6 Tie rod $\varnothing 15$
- 7 Swivel plate with wing nut
Part No. 691700
- 8 Support cone Part No. 694809
with sleeve $\varnothing 26$

3.2.2 Compensation piece, internal

Max. compensation piece size $A_i = 12 \text{ cm}$



Connections at butt joint

- Units 3.00 m high : 3 x over the height
- Units 1.50 m high : 2 x over the height
- Units 0.75 m high : 2 x over the height

3.2.3 Table of compensation piece sizes

Table of compensation piece sizes (in cm) between full units

Int. radius [m]	Wall thickness [cm]	15	17,5	20	22,5	25	30	35	40	45	50
		2,75	2,6**	4,7**	6,9**	9,1**	11,2**	-	-	-	-
3,00	1,4**	3,3**	5,3**	7,3**	9,3**	13,3**	-	-	-	-	-
3,25	0**	2,2**	4,0**	5,8**	7,7**	11,3**	-	-	-	-	-
3,50	0,5**	1,2**	2,9**	4,6**	6,3**	9,7**	13,1**	-	-	-	-
4,00	1,7	0	1,2	2,7	4,2	7,1	10,1	13,1	-	-	-
4,50	2,8	1,5	0	1,0	2,4	5,0	7,7	10,3	12,9*	-	-
5,00	3,7	2,6	1,4	0	0,9	3,3	5,7	8,1	10,4*	12,8*	-
6,00	5,1	4,1	3,1	2,1	1,2	0,8	2,7	4,7	6,7*	8,7*	-
7,00	6,0	5,2	4,3	3,5	2,7	1,0	0,6	2,3	4,0*	5,7*	-
8,00	6,8	6,0	5,3	4,5	3,8	2,3	0,9	0,5	2,0*	3,5*	-
9,00	7,3	6,7	6,0	5,3	4,7	3,4	2,1	0,8	0,5*	1,8*	-
10,00	7,8	7,2	6,6	6,0	5,4	4,2	3,1	1,9	0,7*	0,4*	-
15,00	9,2*	8,8*	8,4	8,0	7,6	6,8	6,0	5,2	4,4*	3,6*	-
20,00	9,9*	9,6*	9,3	9,0	8,7	8,1	7,4	6,8	6,2*	5,7*	-
30,00	10,6*	10,4*	10,2	10,0	9,8	9,4	8,9	8,5	8,1*	7,7*	-
50,00	11,2*	11,0*	10,9	10,8	10,7	10,4	10,2	9,9	9,7*	9,4*	-

□ Compensation, internal



Compensation, external

- Other solution

* Units with additional tie rod holes

** Full units with 18 mm facing as purchased items

Table of compensation piece sizes (in cm) between half units

Int. radius [m]	Wall thickness [cm]	15	17,5	20	22,5	25	30	35	40	45	50
		2,75	3,7	4,8	5,9	7,0	8,1	10,4	12,6	-	-
3,00	3,0	4,1	5,1	6,1	7,1	9,2	11,2	13,3	-	-	-
3,25	2,5	3,4	4,4	5,3	6,3	8,2	10,1	12,0	13,8	-	-
3,50	2,0	2,9	3,8	4,7	5,5	7,3	9,1	10,8	12,6	-	-
4,00	1,3	2,0	2,8	3,6	4,3	5,9	7,4	9,0	10,5	12,0	-
4,50	0,7	1,4	2,1	2,7	3,4	4,8	6,2	7,5	8,9	10,3	-
5,00	0	0,8	1,4	2,1	2,7	3,9	5,1	6,4	7,6	8,8	-
6,00	0,5	0	0,5	1,1	1,6	2,6	3,6	4,6	5,7	6,7	-
7,00	1,0	0,5	0	0	0,8	1,6	2,5	3,4	4,3	5,2	-
8,00	1,3	1,0	0,6	0	0	0,9	1,7	2,5	3,2	4,0	-
9,00	1,6	1,3	1,0	0,6	0	0,4	1,1	1,8	2,4	3,1	-
10,00	1,9	1,6	1,3	0,9	0,6	0	0,6	1,2	1,8	2,4	-
15,00	2,6	2,4	2,2	2,0	1,7	1,3	0,9	0,5	0	0	-
20,00	2,9	2,8	2,6	2,5	2,3	2,0	1,7	1,4	1,1	0,8	-
30,00	3,3	3,2	3,1	3,0	2,9	2,7	2,4	2,2	2,0	1,8	-
50,00	3,6	3,5	3,4	3,4	3,3	3,2	3,1	2,9	2,8	2,7	-

□ Compensation, internal



Compensation, external

- Other solution

If full and half units are placed next to one another, the compensation piece size can be taken as the average of the values in the two tables.

3.3. Tie bars

The tying of full standard elements using the predrilled tie bar holes depends on the relation of internal radii to wall thickness, and is possible for:

Internal radii 4.00 m to 14.00 m for wall thickness 0.15-0.40 m and

Internal radii 14.00 m to 25.00 m for wall thickness 0.20-0.40 m

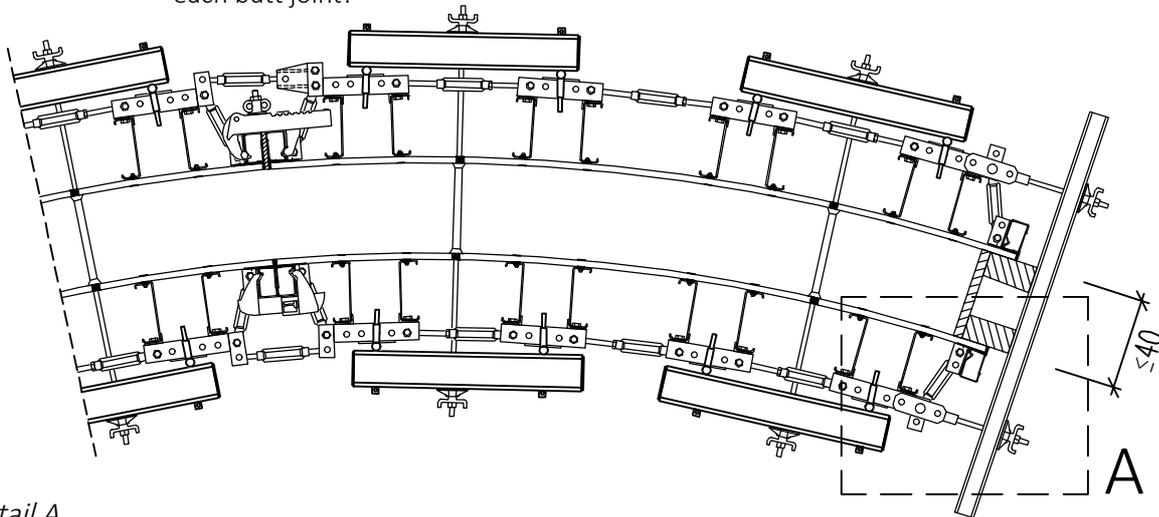
If this tie bar holes do not fit, the formwork must be done with half units, or additional tie rod holes must be drilled.

3.4 Stop-end form

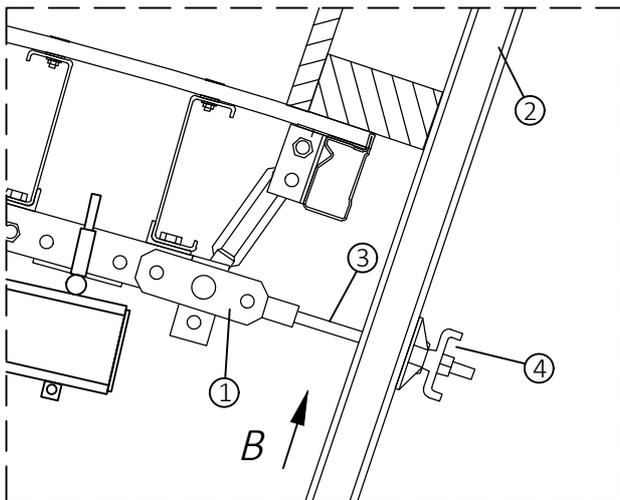
Max. Wall thickness 40 cm

No. of stop-end supports	
Units 3.00 m high :	2 x over the height
Units 1.50 m high :	2 x over the height
Units 0.75 m high :	1 x over the height

Turnbuckle at each butt joint!

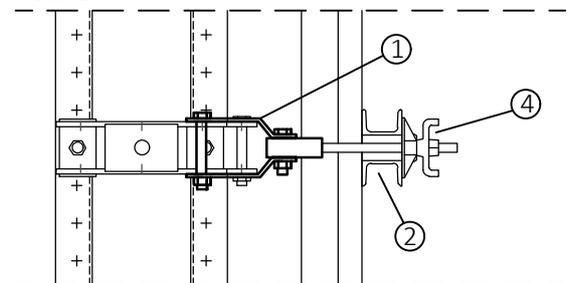


Detail A



- 1 Stop-end support Part No. 350390
incl. fastenings
- 2 Alignment channel 1425 mm Part No. 135210
- 3 Tie rod 30 cm Part No. 670300
- 4 Swivel plate with wing nut Part No. 691700

View B



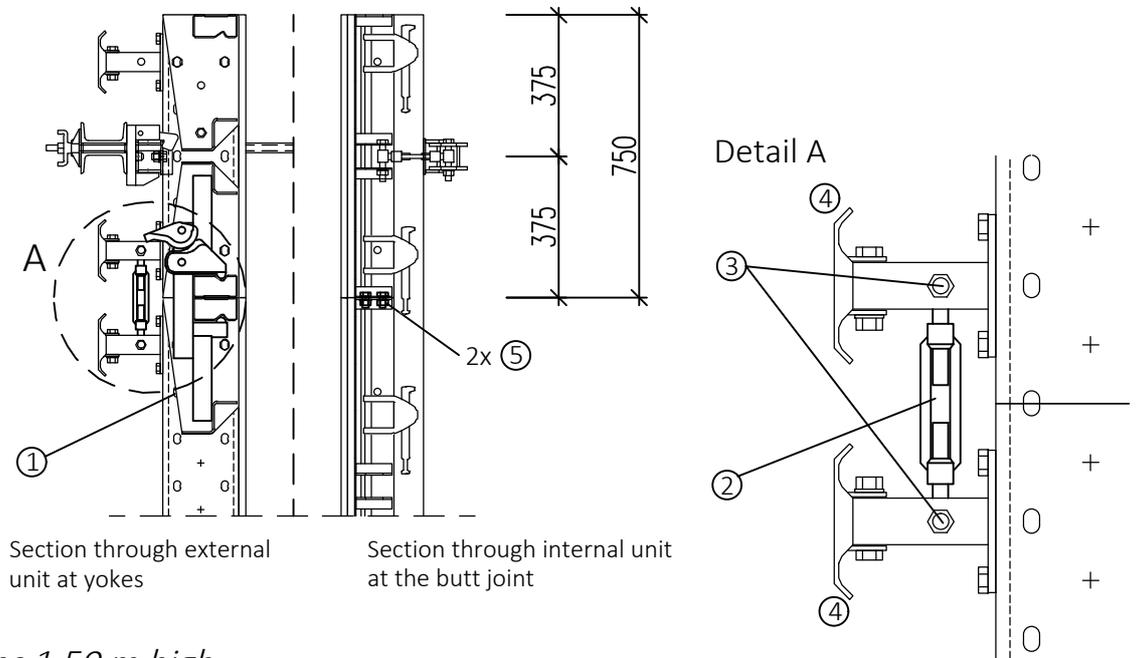
Attention:

If the stop-end is installed without stop-end supports, then the force due to the pressure on the stop-end must be carried completely on stabilizers. Under no circumstances may the stop-end be attached directly on the edge profile.
Larger wall recesses must be adequately stiffened so that the formwork can push against them. Otherwise the formwork facing might deform.

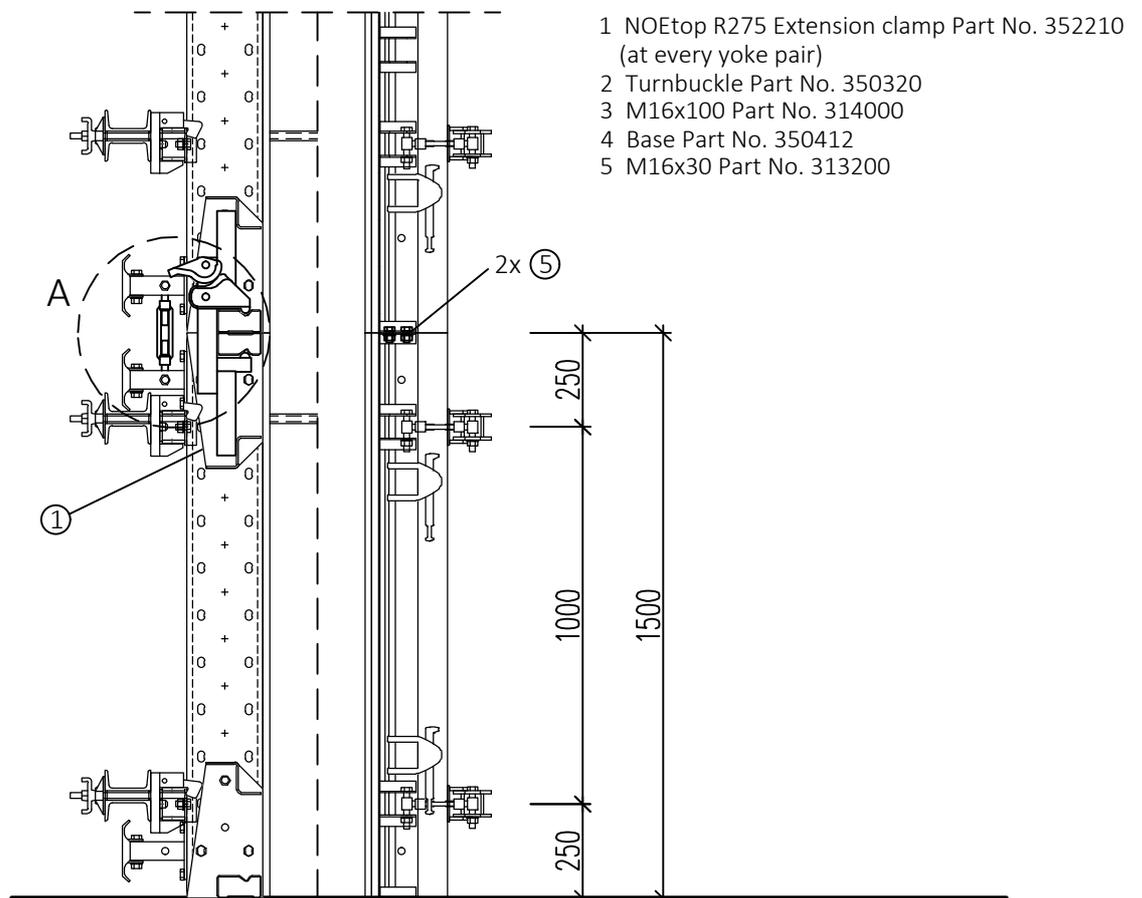
4 Extensions

4.1 Extensions 0.75 m high Extension unit installed on top

Fasten a tie bar with two M16x100 bolts between the bases to align the units.



4.2 Extensions 1.50 m high Extension unit installed below



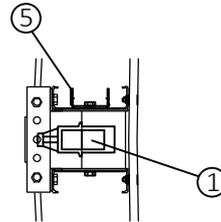
4.3 Examples of extensions

4.3.1 Height 3.00 m (2 x 1.50 m)

R275 extension clamps cannot be used for extensions!
Use adjustable locks and MH channels.

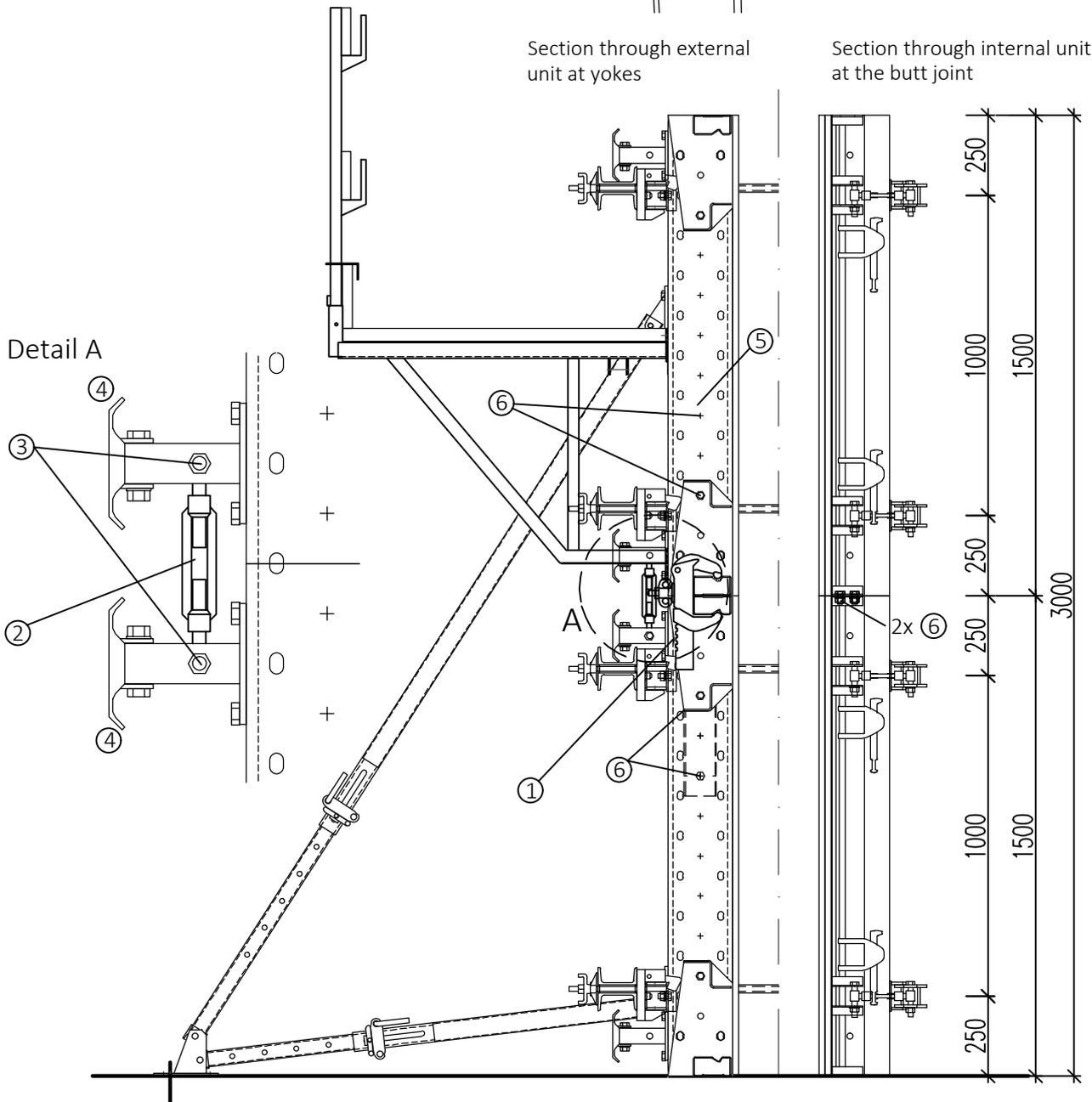
- 1 NOE adjustable lock Part No. 137985
(at every yoke pair)
- 2 Turnbuckle Part No. 350320
- 3 M16x100 Part No. 314000
- 4 Base Part No. 350412
- 5 MH channel 1.25 m Part No. 261250
(bolted on one side)
- 6 M16x30 Part No. 313200

Plan view of butt joint between units



Section through external unit at yokes

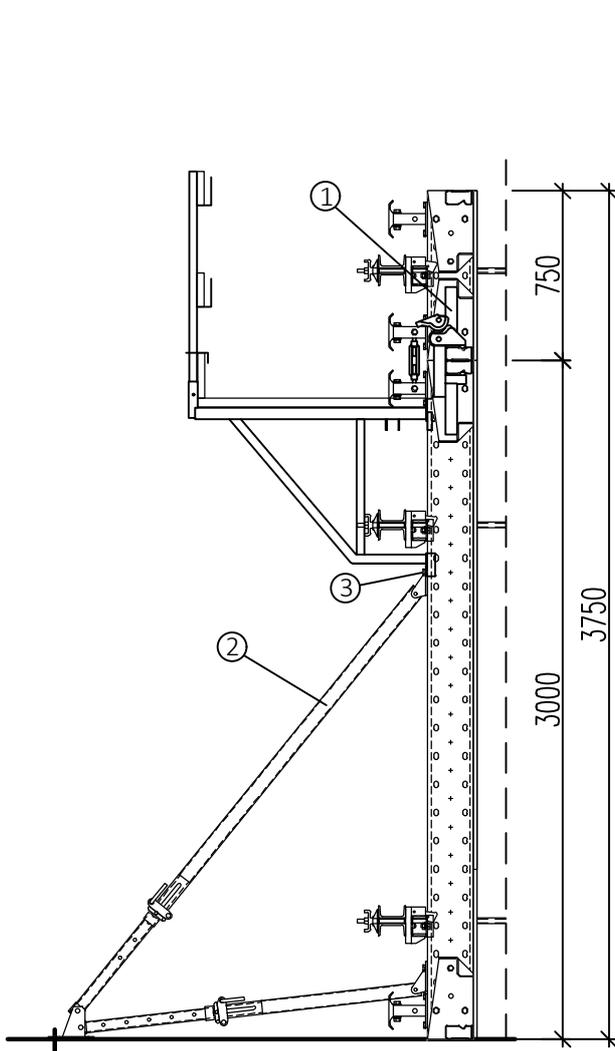
Section through internal unit at the butt joint



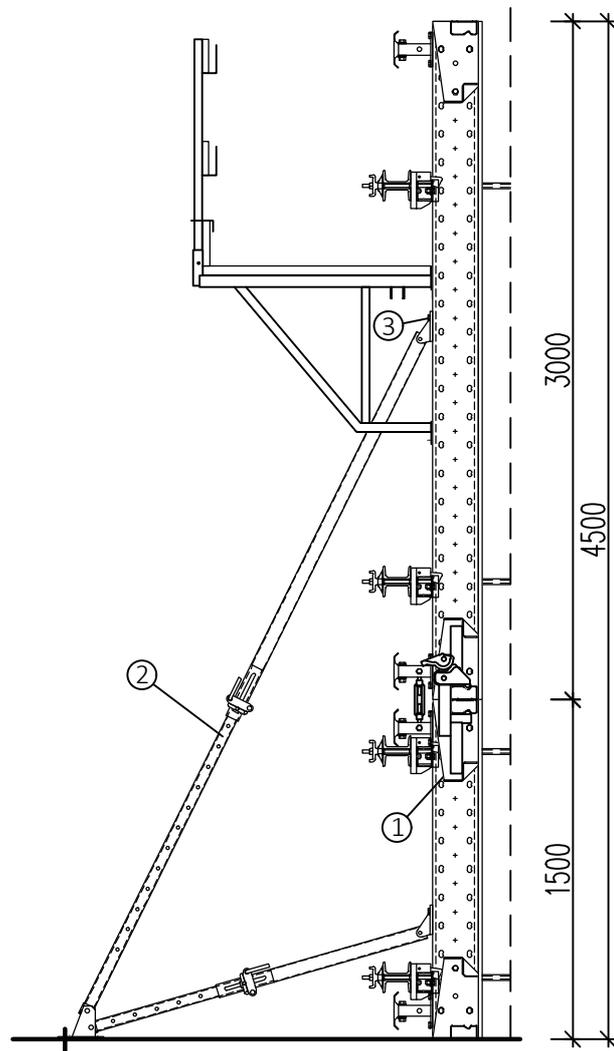
4.3.2 Height 3.75 m (3.00 + 0.75 m)

4.3.3 Height 4.50 m (1.50 + 3.00 m)

- 1 NOEtop R275 extension clamp Part No. 352210
- 2 Stabilizer
- 3 M16x30 Part No. 313200



Stabilizers bolted down to resist tension and compression forces



Stabilizers bolted down to resist tension and compression forces



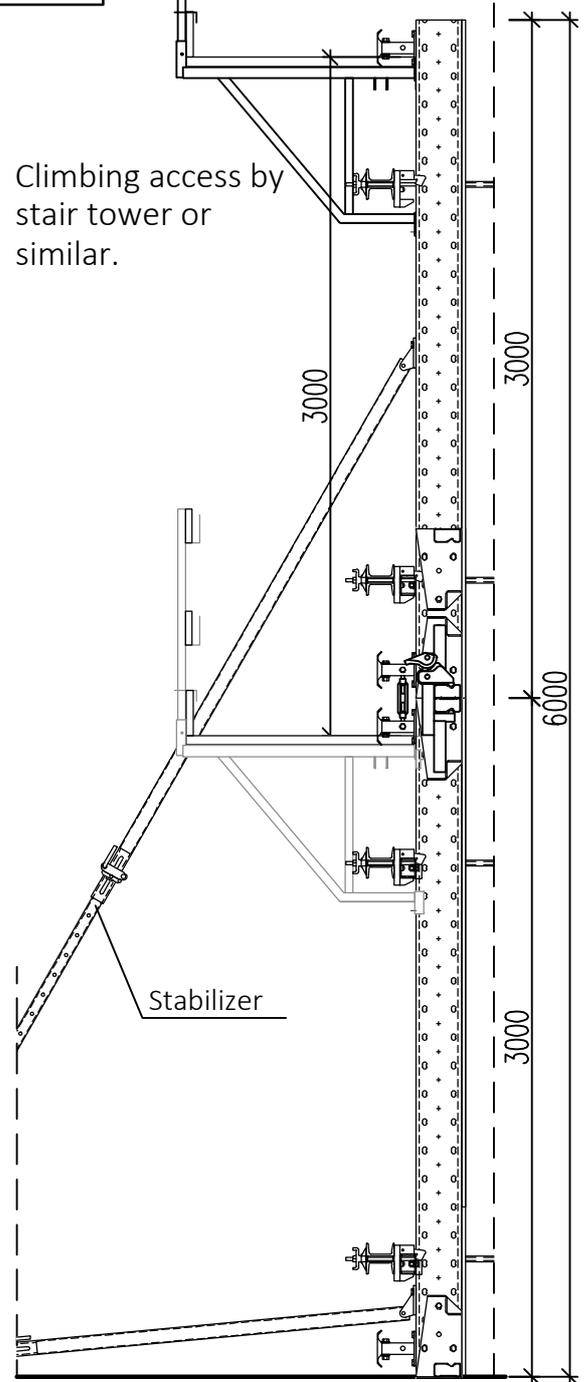
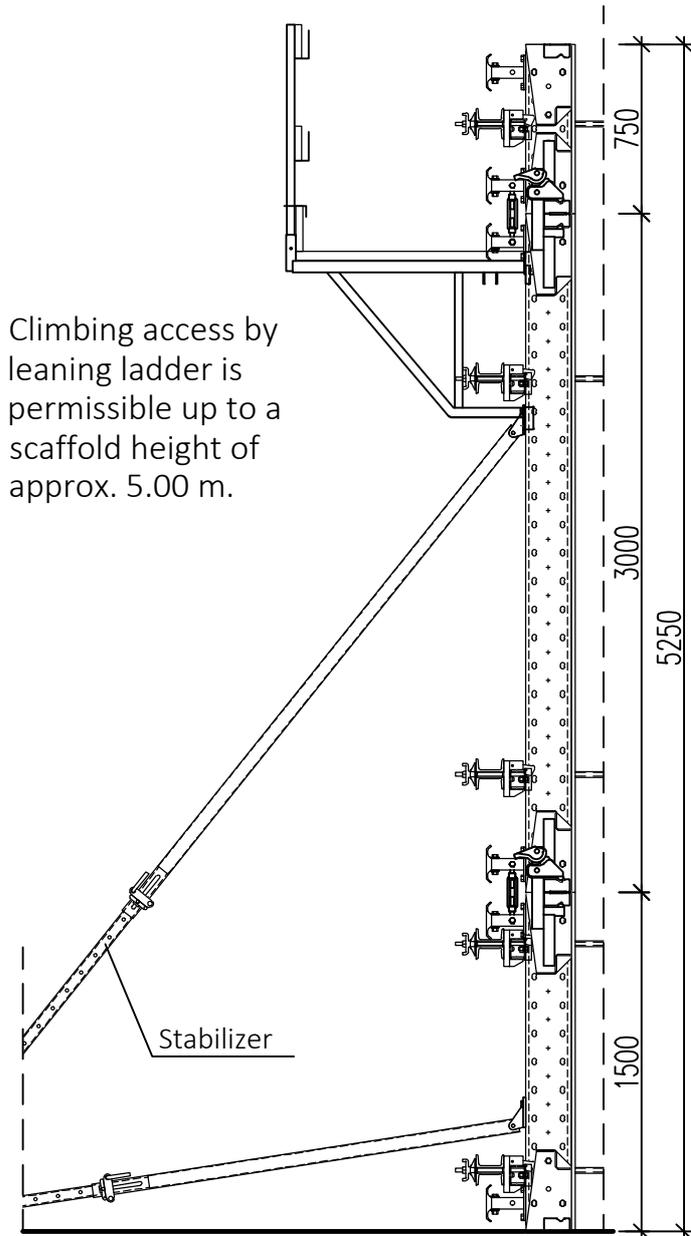
For working heights above 2.00 m a guardrail or another scaffold must be attached to the opposing formwork units.

4.3.4 Height 5.25 m (1.50 + 3.00 + 0.75 m)

4.3.5 Height 6.00 m (3.00 + 3.00 m)

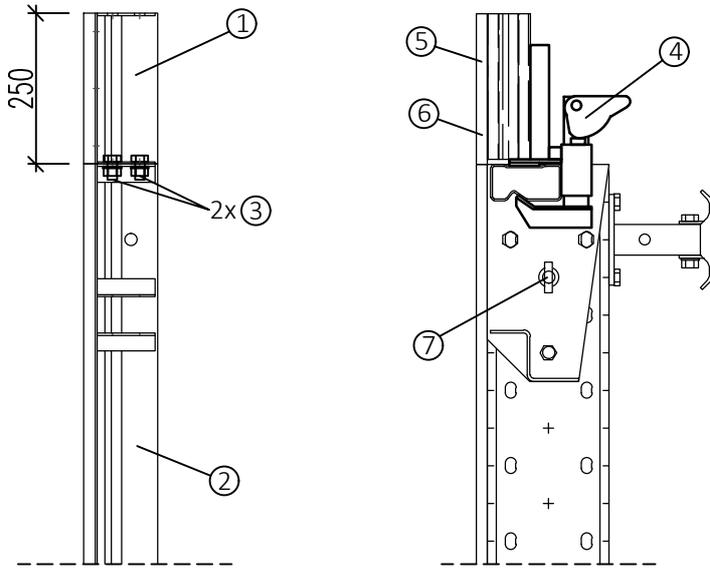


For working heights above 2.00 m a guardrail or another scaffold must be attached to the opposing formwork units.



For formwork greater than 6.00 m high or working heights greater than 5.00 m install a stair tower or similar, in certain circumstances an intermediate scaffold may be required, observe national regulations, e.g. UVV !

4.4 Extensions up to 25 cm



If extension clamps are used then crane bows cannot be used for moving the units by crane. Attach a crane suspension with ring bolt.

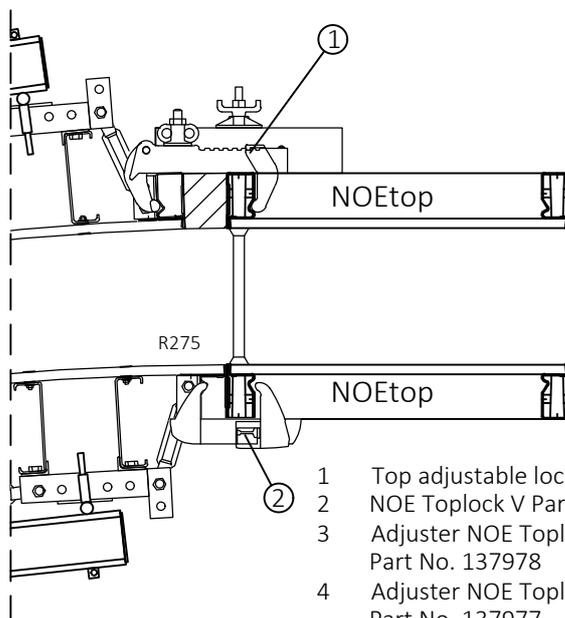
- 1 NOEtop R275 extension bar Part No. 352212
- 2 Edge profile
- 3 M16x30 Part No. 313200
- 4 NOEtop extension clamp Part No. 137850
- 5 Timber compensation piece
- 6 Facing
- 7 Ring bolt M16 Part No. 821110 and Safety nut Part No. 327000

Attach an extension clamp at every C20 beam pair when extending.

	Part No.	Full unit	Half unit
NOEtop extension clamp	137850	4	2
Extension bar	352212	2	2
Bolts M16x30	313200	4	4

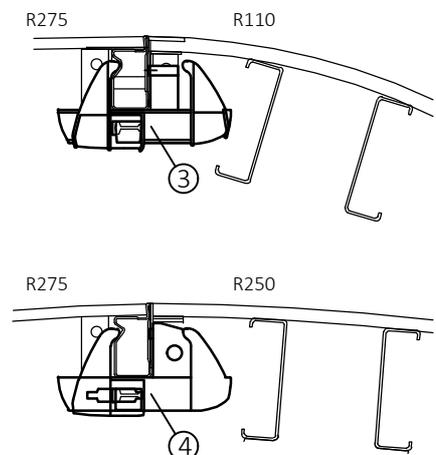
5 Connection to other NOE formwork systems

To NOEtop panels



- 1 Top adjustable lock Part No. 137985
- 2 NOE Toplock V Part No. 137976
- 3 Adjuster NOE Toplock V R110/R275 Part No. 137978
- 4 Adjuster NOE Toplock V R250/R275 Part No. 137977

to R110 and R250



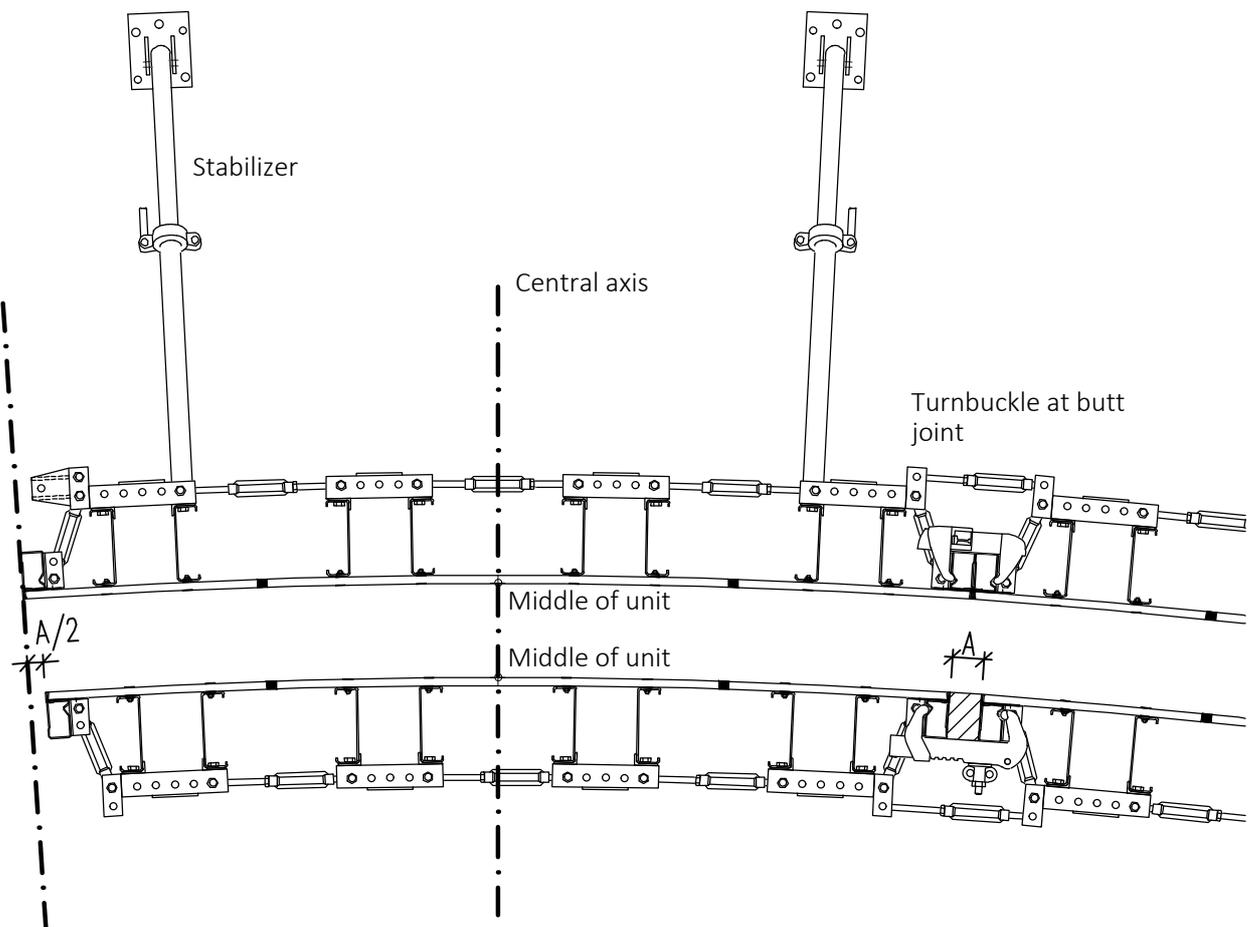
6 Erecting the formwork units

Depending on the site programme requirements, erection can start with either the internal or the external units.

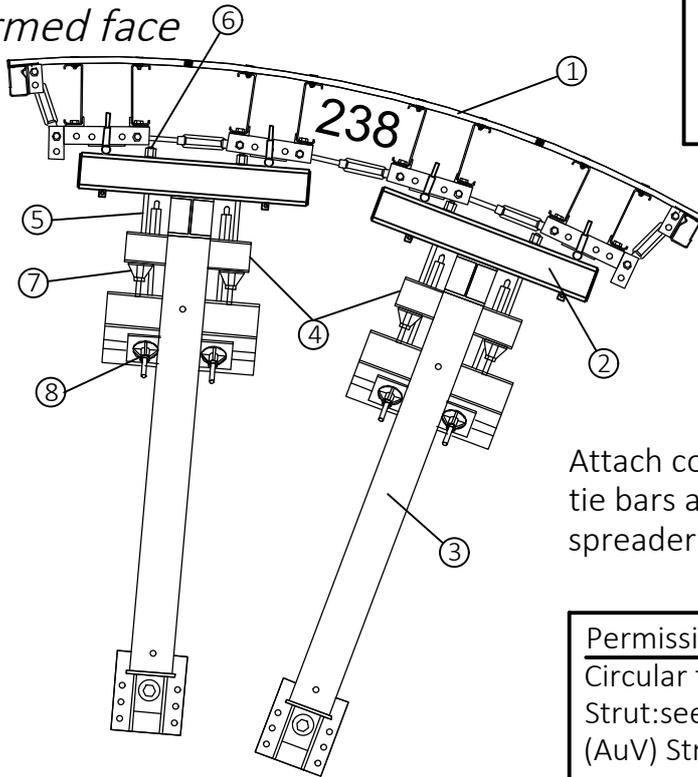
1. Place the unit in the intended position.
2. Before releasing the crane bow, attach 2 stabilizers and anchor them.
3. Place the next unit down and connect at the edge profile with NOEtoplock V or, if a compensation piece is to be used, install the piece of wood and connect there with adjustable locks.
4. Before releasing the crane bow, attach a stabilizer and anchor it.
5. Adjust the alignment of the unit and attach a turnbuckle at the butt joint.
6. Place further elements down and align them in the same way.
7. Attach walkway brackets and lay the scaffold planking.

When erecting the opposing formwork units make sure that the units are positioned relative to their central axis, in other words the unit ends are in certain circumstances offset to one another (half the compensation piece size $A/2$).

Attach the spreader bars only to standing formwork units, all the time observing Sub-section 1.2 'Safety regulations for use'.



7 Formwork to walls with one formed face



ATTENTION:

Formwork and struts must be moved separately !

- 1 R275 unit
- 2 Spreader bar Part No. 350330
- 3 Strut
- 4 Compensation channel Part No.135109
- 5 Tie rod 50 cm Part No. 670500
- 6 Hexagonal nut Part No. 680900
- 7 Sprint nut Part No. 680580
- 8 Strut tie

Attach compensation channel with two 50 cm tie bars and Sprint nut and hexagonal nut to the spreader bar of the C20 circular formwork.

Permissible concrete pressure

Circular formwork: 50 kN/m²

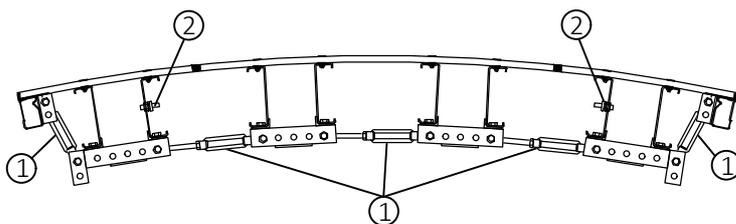
Strut: see Tables Assembly and Use Instructions (AuV) Strut

The arrangement of the struts and anchor rods depends on the radius.

8 Setting the radius

The units are set to the radius for their first use at the factory and then delivered.

Wooden gauges can be used on site to set the subsequent radii accurately. Setting the radius is done by turning the turnbuckle body to alter the curvature of the units.



Wooden gauge

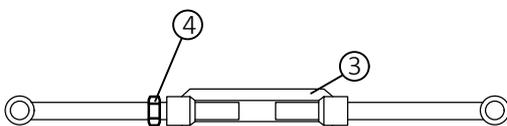
- Internal formwork Part No. 352220
- External formwork Part No. 352221

(Please inform us of the radius at the time of ordering, Gauges can be supplied as purchased items.)

For the internal formwork units, unscrew the spindle connected to the facing by approx. 1 1/2 turns (approx. 2 mm) to allow for the change from tension to compression loading in the spindle.

- 1 Turnbuckle
- 2 Ring bolt for crane transport (for extending with top extension clamp)
- 3 Nut
- 4 Lock nut

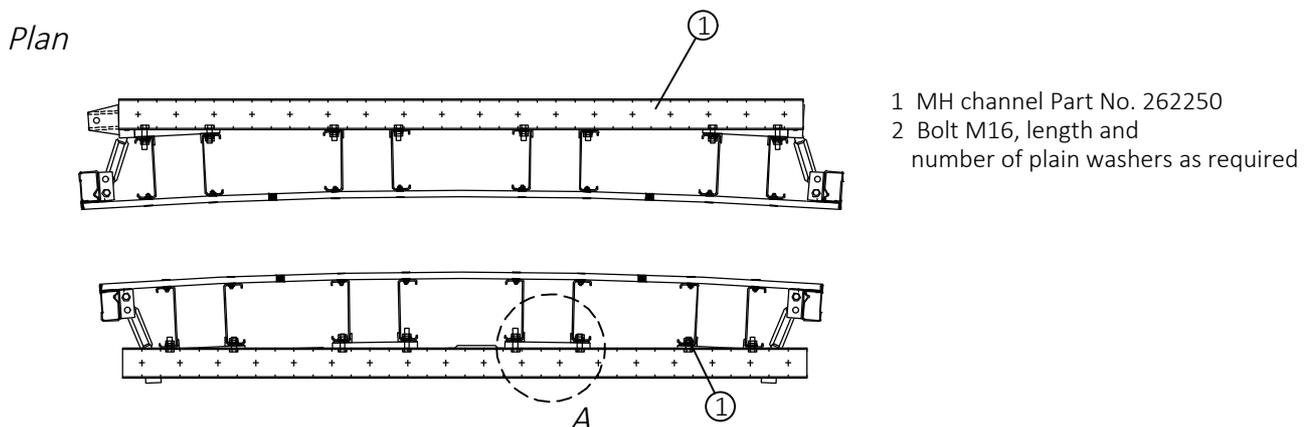
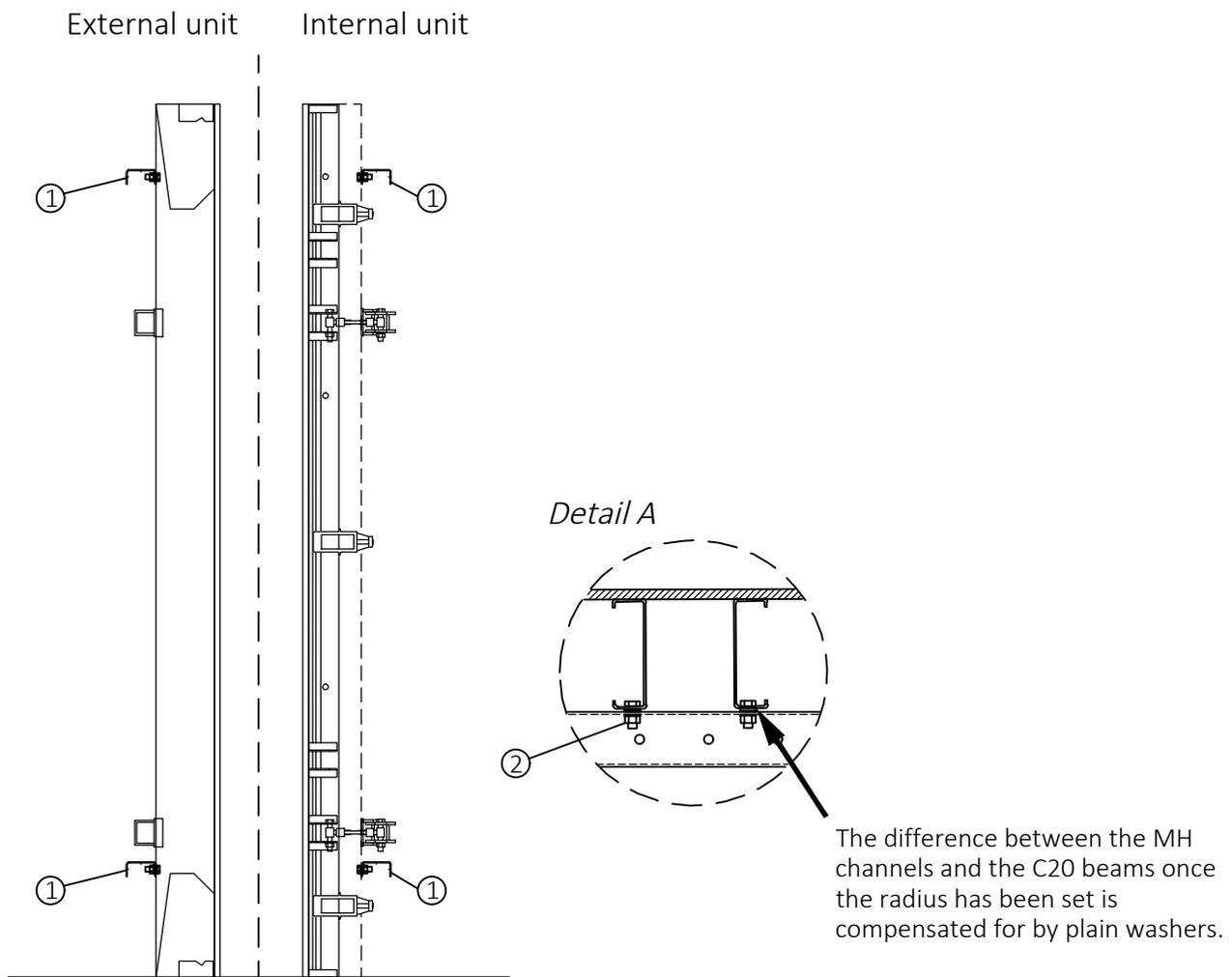
Adjusting the turnbuckle



Adjust the turnbuckle by turning the turnbuckle body. Tighten the locknut after adjusting the turnbuckle.

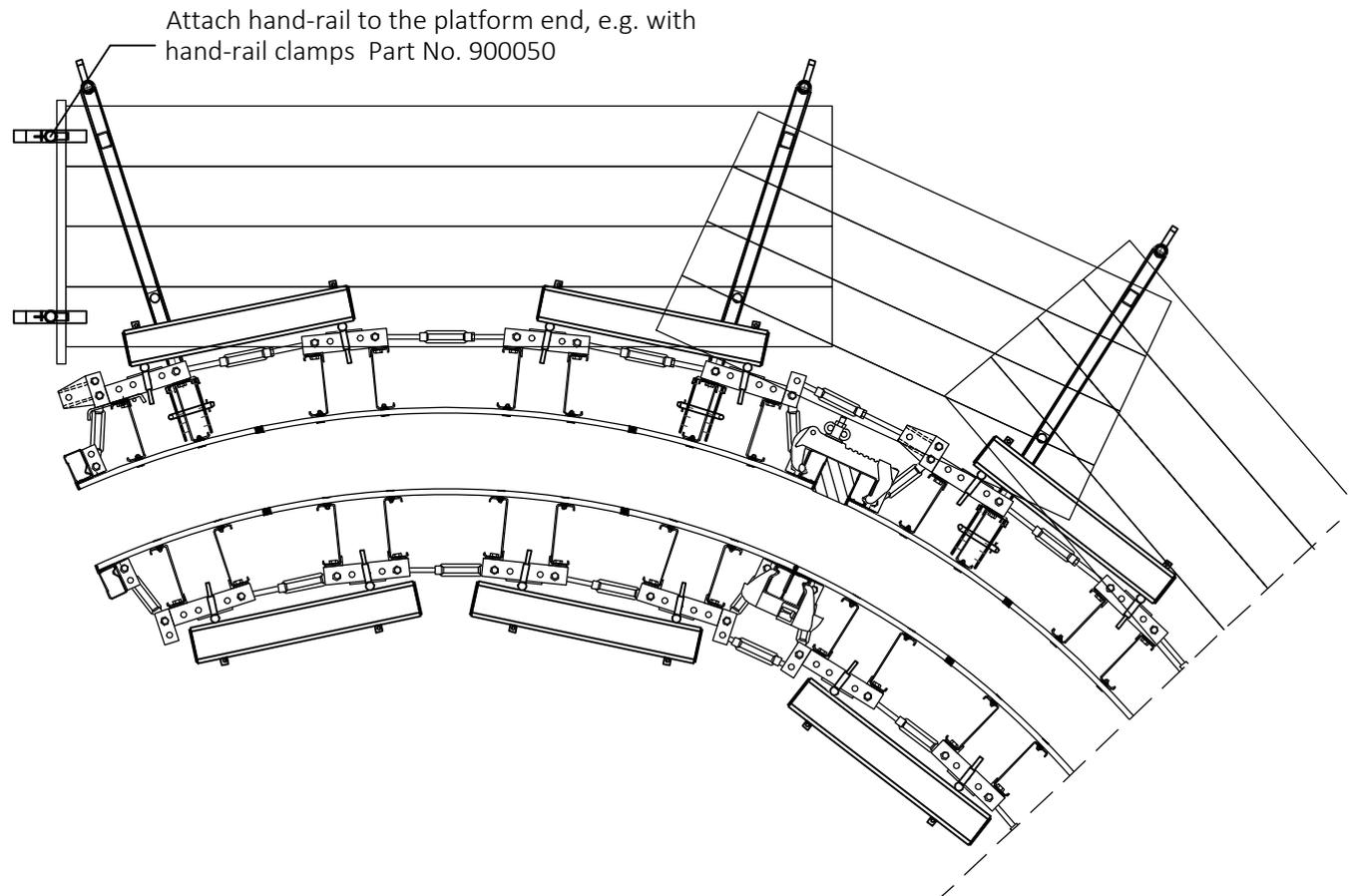
9 Stiffening for large radii

For radii greater than 18 m with 3.0 m high units, two horizontal MH channels must be attached to the C20 beams. One channel is used for 1.5 m and 0.75 m high extension units. If the facing is old then MH channels should be used with radii greater than $R = 12$ m.



10 Concreting scaffold

Plan view



For walkway bracket position and attachment see Points 3 and 4.

Timbers identified as complying with DIN 4074, Part 1, classes S10 or MS10 only must be used for scaffolding planking and edge protection.

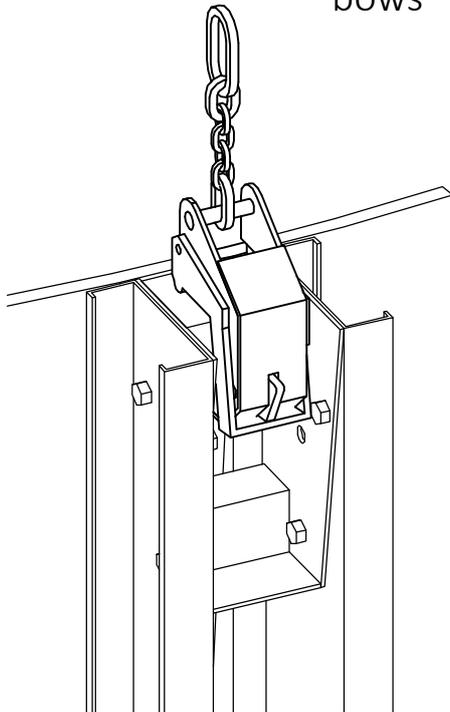
Depending on the spacing of the concreting brackets, the planking thickness must comply with the requirements in Table 8 of DIN 4420, Part 1, Section 5 (refer to 1.3).

11 Transporting the formwork units

11.1 Crane suspension points

Table 1: Permissible suspended loads for crane bows

Crane bow Part No.	Incl. pull 60° Permissible T [kg]	Incl. pull 90° Permissible T [kg]
135905	1500	1200



To transport the units, attach the crane-hook bow to the end piece between the C20 beam pairs (2 per unit).

Crane bow (carrying capacity 2000 kg for vertical pull)



Part No. 135905
Weight 7.4 kg

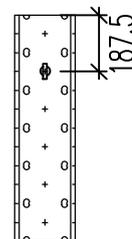
Alternatively:

Attach ring bolt with M16 nut (2x per unit) e.g. for extension with NOEtop extension clamp.

Ring bolt

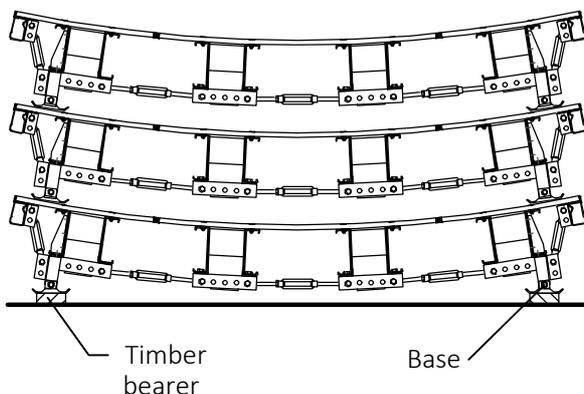
Part No. 821110
Weight 0.4 kg

Safety nut M16
Part No. 327000



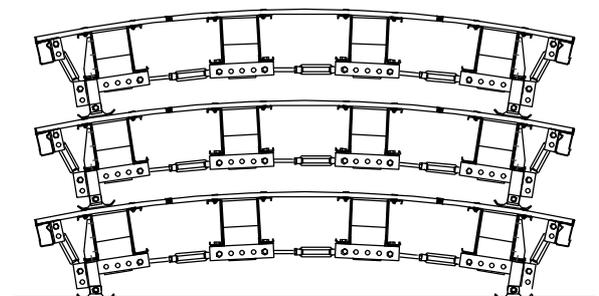
11.2 Stacking the formwork units

External units



The bases are bolted to the units.

Internal unit

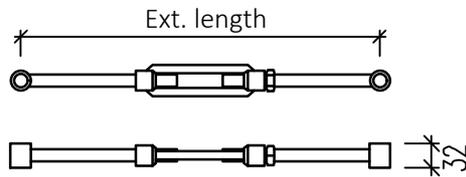


12 Individual parts

(For overview of units see Point 2)

Turnbuckles

Right/left thread M20



Extended length

Designation	[mm] MIN - MAX	Part No.	Weight [kg]
Long	412-530	350310	0.8
Medium	312-430	350315	0.7
Short	212-315	350320	0.6

(Part No. 350320 without locknut.)

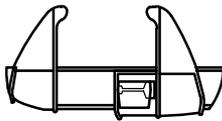
2 No. M16x100 Part No. 314000 are required per turnbuckle.

NOE Toplock V

Part No. 137976

Weight 3.7 kg

Also for compensation piece
max. 4 cm

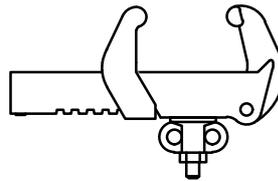


Top adjustable locks

For compensation piece up to 13.5 cm

Part No. 137985

Weight 5.2 kg

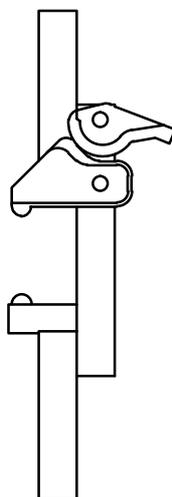


NOEtop R275 extension clamp

For extending the units

Part No. 352210

Weight 10.5 kg

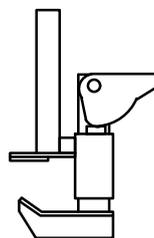


NOEtop extension clamp

For extensions up to 25 cm

Part No. 137850

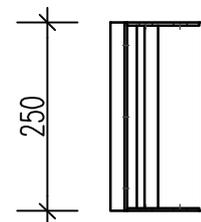
Weight 7.5 kg



NOE R275 Extension bar

Part No. 352212

Weight 3,2 kg

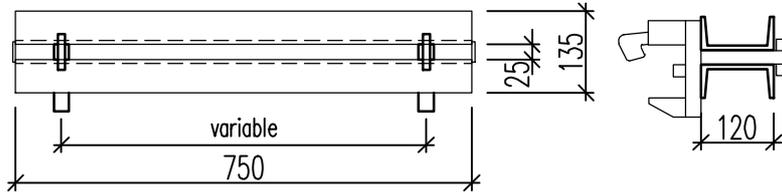


Assembly and Operating Manual

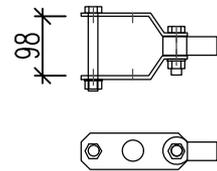
NOEtop R275 Circular formwork



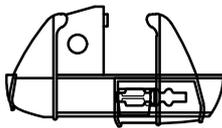
Spreader bar
Part No. 350330
Weight 22.3 kg



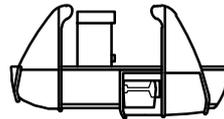
Stop-end support
Part No. 350390
Weight 1.91 kg



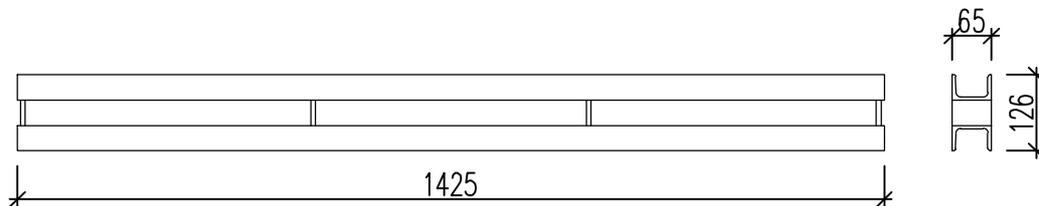
Adjuster NOE Toplock V
R250/R275
Part No. 137977
Weight 4.4 kg



Adjuster NOE Toplock V
R110/R275
Part No. 137978
Weight 4.4 kg



Alignment channel 1425
Part No. 135210
Weight 21.5 kg



M16x30
Part No. 313200
Weight 0.11 kg



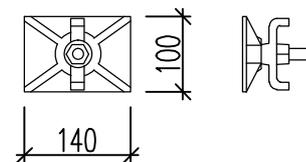
M16x100
Part No. 314000
Weight 0.22 kg



Tie rod 300 mm long
Part No. 670300
Weight 0.42 kg



Swivel plate with wing nut
Part No. 691700
Weight 1.2 kg



Tie rod 1500 mm long
Part No. 671500
Weight 2,12 kg





THE FORMWORK



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