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Formwork & Scaffolding.
We make it work.

Doka floor prop Eurex 20 top 700

User Information

Instructions for assembly and use (Method statement)

Contents

Introduction

Elementary safety warnings

User target groups

- This booklet is aimed at all persons who will be working with the Doka product or system that it describes. It contains information on the standard design for setting up this system, and on correct, compliant utilisation of the system.
- All persons working with the product described herein must be familiar with the contents of this booklet and with all the safety instructions it contains.
- Persons who are incapable of reading and understanding this booklet, or who can do so only with difficulty, must be instructed and trained by the customer.
- The customer is to ensure that the information materials provided by Doka (e.g. User Information booklets, Instructions for Assembly and Use, Operating Instruction manuals, plans etc.) are up to date and available to all users, and that they have been made aware of them and have easy access to them at the usage location.
- In the relevant technical documentation and formwork utilisation plans, Doka shows the workplace safety precautions that are necessary in order to use the Doka products safely in the usage situations shown.
  In all cases, users are obliged to ensure compliance with national laws, standards and regulations throughout the entire project and to take appropriate additional or alternative workplace safety precautions where necessary.

Hazard assessment

- The customer is responsible for drawing up, documenting, implementing and continually updating a hazard assessment at every job-site.
  This booklet serves as the basis for the site-specific hazard assessment, and for the instructions given to users on how to prepare and utilise the system. It does not substitute for these, however.

Remarks on this booklet

- This document can be used as general Instructions for Assembly and Use (Method Statement) or be incorporated into site-specific Instructions for Assembly and Use (Method Statement).
- **The graphics, animations and videos in this document or app sometimes depict partially assembled assemblies and may require additional safety equipment and/or measures to comply with safety regulations.**
  The customer must ensure all applicable regulations are complied with, even if they are not shown or implied in the graphics, animations and videos provided.
- **Individual sections contain further safety instructions and/or special warnings as applicable.**

Planning

- Provide safe workplaces for those using the formwork (e.g. for when it is being erected/dismantled, modified or repositioned etc). It must be possible to get to and from these workplaces via safe access routes!
- **If you are considering any deviation from the details and instructions given in this booklet, or any application which goes beyond those described in the booklet, then revised static calculations must be produced for checking, as well as supplementary assembly instructions.**

Regulations; industrial safety

- All laws, Standards, industrial safety regulations and other safety rules applying to the utilisation of our products in the country and/or region in which you are operating must be observed at all times.
- If a person or object falls against, or into, the sideguard component and/or any of its accessories, the component affected may only continue in use after it has been inspected and passed by an expert.

Rules applying during all phases of the assignment

- The customer must ensure that this product is erected and dismantled, reset and generally used for its intended purpose in accordance with the applicable laws, standards and rules, under the direction and supervision of suitably skilled persons.
  These persons' mental and physical capacity must not in any way be impaired by alcohol, medicines or drugs.
- Doka products are technical working appliances which are intended for industrial / commercial use only, always in accordance with the respective Doka User Information booklets or other technical documentation authored by Doka.
- The stability and load-bearing capacity of all components and units must be ensured during all phases of the construction work!
- Do not step on or apply strain to cantilevers, closures, etc. until suitable measures to ensure their stability have been correctly implemented (e.g. by tie-backs).
- Strict attention to and compliance with the functional instructions, safety instructions and load specifications are required. Non-compliance can cause accidents and severe injury (risk of fatality) and considerable damage to property.
- Sources of fire in the vicinity of the formwork are prohibited. Heaters are permissible only when used correctly and situated a correspondingly safe distance from the formwork.
- Customer must give due consideration to any and all effects of the weather on the equipment and regards both its use and storage (e.g. slippery surfaces, risk of slipping, effects of the wind, etc.) and implement appropriate precautionary measures to secure the equipment and surrounding areas and to protect workers.
- All connections must be checked at regular intervals to ensure that they are secure and in full working order.
  In particular threaded connections and wedged connections have to be checked and retightened as necessary in accordance with activity on the jobsite and especially after out-of-the-ordinary occurrences (e.g. after a storm).
- It is strictly forbidden to weld Doka products – in particular anchoring/tying components, suspension components, connector components and castings etc. – or otherwise subject them to heating.
  Welding causes serious change in the microstructure of the materials from which these components are made. This leads to a dramatic drop in the failure load, representing a very great risk to safety.
  It is permissible to cut individual tie rods to length with metal cutting discs (introduction of heat at the end of the rod only), but it is important to ensure that flying sparks do not heat and thus damage other tie rods.
  The only articles which are allowed to be welded are those for which the Doka literature expressly points out that welding is permitted.

Assembly

- The equipment/system must be inspected by the customer before use, to ensure that it is in an acceptable condition. Steps must be taken to exclude components that are damaged, deformed, or weakened due to wear, corrosion or rot (e.g. fungal decay).
- Using our safety and formwork systems together with those of other manufacturers can create risks that may lead to injury and damage to property. This requires separate verification by the user.
- The equipment/system must be assembled and erected in accordance with the applicable laws, standards and rules by trained customer personnel whilst maintaining any applicable safety inspections that may be required.
- It is not permitted to modify Doka products; such modifications constitute a safety risk.

Closing the formwork

- Doka products and systems must be set up so that all loads acting upon them are safely transferred!

Pouring

- Do not exceed the permitted fresh-concrete pressures. Over-high pouring rates overload the formwork, cause greater deflection and risk breakage.

Stripping the formwork

- Do not strip out the formwork until the concrete has reached sufficient strength and the person in charge has given the order for the formwork to be stripped out!
- When stripping out the formwork, never use the crane to break concrete cohesion. Use suitable tools such as timber wedges, special pry-bars or system features such as Framax stripping corners.
- When stripping out the formwork, do not endanger the stability of any part of the structure, or of any scaffolding, platforms or formwork that is still in place!

Transporting, stacking and storing

- Observe all country-specific regulations applying to the handling of formwork and scaffolding. For system formwork the Doka slinging means stated in this booklet must be used – this is a mandatory requirement.
  If the type of sling is not specified in this document, the customer must use slinging means that are suitable for the application envisaged and that comply with the regulations.
- When lifting, always make sure that the unit to be lifted and its individual parts can absorb the forces that occur.
- Remove loose parts or secure them so that they cannot slip out of position and drop.
- When lifting formwork or formwork accessories with a crane, no persons must be carried along, e.g. on working platforms or in multi-trip packaging.
- All components must be stored safely, following all the special Doka instructions given in the relevant sections of this document!

Maintenance

- Only original Doka components may be used as spare parts. Repairs may only be carried out by the manufacturer or authorised facilities.

Miscellaneous

The weights as stated are averages for new material; actual weights can differ, depending on material tolerances. Dirt accretions, moisture saturation, etc. can also affect weight.
We reserve the right to make alterations in the interests of technical progress.

Eurocodes at Doka

The permissible values stated in Doka documents (e.g. F_{perm} = 70 kN) **are not design values** (e.g. F_{Rd} = 105 kN), unless specified**!**

- It is essential to avoid confusing permissible values with design values!
- Doka documents will continue to state the permissible values.

Allowance has been made for the following partial factors:

- γ_F = 1.5
- $\gamma_{M,\ timber}$ = 1.3
- $\gamma_{M,\ steel}$ = 1.1
- k_{mod} = 0.9

Consequently, all the design values for an EC design calculation can be determined from the permissible values.

Symbols used

The following symbols are used in this document:

DANGER
This is a notifier drawing attention to an extremely dangerous situation in which non-compliance with this notifier will lead to death or severe, irreversible injury.

WARNING
This is a notifier drawing attention to a dangerous situation in which non-compliance with this notifier can lead to death or severe, irreversible injury.

CAUTION
This is a notifier drawing attention to a dangerous situation in which non-compliance with this notifier can lead to slight, reversible injury.

NOTICE
This is a notifier drawing attention to a situation in which non-compliance with this notifier can lead to malfunctions or damage to property.

Instruction
Indicates that actions have to be performed by the user.

Sight-check
Indicates that you need to do a sight-check to make sure that necessary actions have been carried out.

Tip
Points out useful practical tips.

Reference
Cross-references other documents.

Intended use

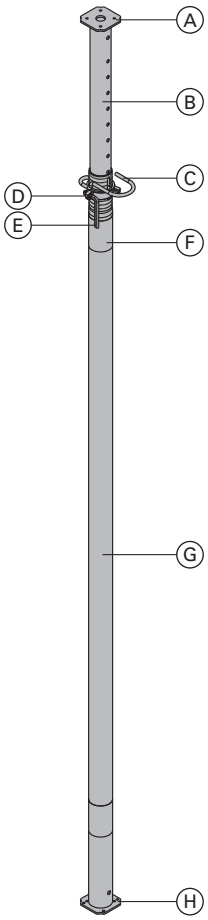
The Doka floor prop Eurex 20 top 700 is an adjustable telescopic steel prop.
Doka floor props are used in Doka floor systems, as temporary reshores and as free-standing floor props for transferring perpendicular loads. Doka floor props are used in an upright position.

Boundary conditions for use:
Observe the relevant information in the Doka technical documents.

Other use or use not in conformity with that stated above is non-intended use and requires the prior written approval of Doka!

Product description

Product features



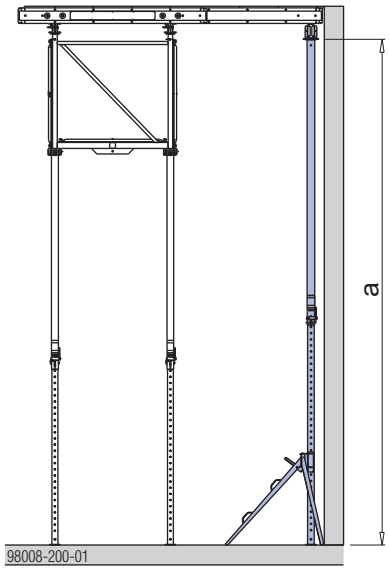
A	Head plate
B	Inner tube
C	Fastening clamp
D	Adjusting nut
E	Toggle lever
F	Type label
G	Outer tube
H	Baseplate

- Approved in accordance with Z-8.311-905.
- Corresponds to the load classes in accordance with EN 1065.
- Designed and galvanised for a long service life.
- Numbered pegging holes for height adjustment.

- Quick connection with the spring locked connecting pin on the inner and outer tube for attaching various types of head adapters in a crane-handling-safe manner.
- Anti-dropout latch prevents the inner tube sliding out of the outer tube.
- Special thread geometry makes the floor prop easier to back off even under high load.
- When the floor prop is pushed in all the way, it still leaves a clear 10 cm gap so that the operator's hands are not trapped.
- Elbowed fastening clamps, reducing the risk of injury and making the props easier to operate.
- Compatible removable folding tripods, see Removable folding tripod.

Follow the directions in the relevant User Information booklet when using the floor prop in Doka floor systems!

Adaptation at edges of Doka floor tables



a ... max. extension length: 7.00 m

Using with Dokaflex 1-2-4 and Doka Xtra

NOTICE

Use of the 'Floor prop Eurex 20 top 700' with Dokaflex 1-2-4 and Doka Xtra is permitted up to a max. extension length of 6.00 m.

However, in these ranges it is advisable to use a Doka load-bearing tower because of the low weight of its individual components and increased stability.

Using on Doka floor tables

WARNING

- ➤ It is **not permitted** to use Eurex floor props 20 top 700 on Doka tableforms.
- ➤ For these heights, Eurex 20 top 550 floor props must be used in conjunction with Dokamatic table frames 1.50m.

Using with Floor-prop extension 0.50m

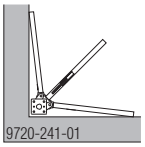
WARNING

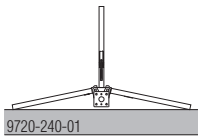
➤ It is **not allowed** to use the 'Eurex 20 top 700 floor prop' with the Floor prop extension 0.50m, and the products' safety-first design in any case makes this impossible.

➤ Alterations or modifications are strictly forbidden!

Removable folding tripod

- Set-up aid for floor props.
- Swing-out legs allow flexible positioning in constricted situations such as along walls or at corners.





CAUTION

The removable folding tripod is not a substitute for the bracing necessary for load-bearing towers.

➤ Use the removable folding tripod as a set-up aid only!

Compatible removable folding tripods and clamping ranges

Removable folding tripod	1.20m	
Clamping range	Outer tube	Inner tube
Eurex 20 top 700	✓	✓

Permissible load-bearing capacity

Used as free (non-system-dependent) construction props

Permissible load-bearing capacity [kN][1)]

		Eurex 20 top 700	
Prop class to EN 1065		C70 D70	C70 D70
	Position Outer tube	at bottom	at top
Extension length [m]	7.0	20.6	21.7
	6.9	21.5	22.6
	6.8	22.4	23.6
	6.7	23.3	24.5
	6.6	24.3	25.5
	6.5	25.1	26.3
	6.4	26.3	27.5
	6.3	27.4	28.6
	6.2	28.5	29.7
	6.1	29.7	30.9
	6.0	30.7	32.0
	5.9	32.1	33.9
	5.8	33.5	35.7
	5.7	35.1	
	5.6	36.5	
	5.5		
	5.4		
	5.3		
	5.2		
	5.1		
	5.0		
	4.9		
	4.8		36.7
	4.7	36.7	
	4.6		
	4.5		
	4.4		
	4.3		
	4.2		
	4.1		
	4.0		
	3.9		

[1)] Depending on extension length and position of the outer tube (as per National Technical Approval Z-8.311-905)

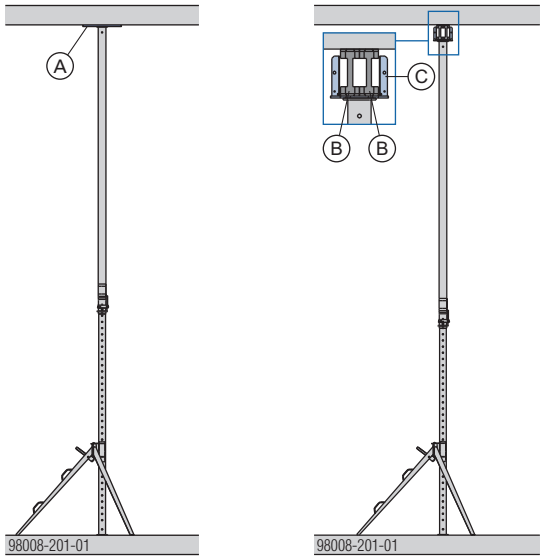
Doka floor prop Eurex 20 top 700 as temporary reshore

Permissible load-bearing capacity when used as temporary reshores (props restrained): **36.7 kN** up to 7.00 m prop length (with 2 Doka beams H20 as packers, up to 6.70 m prop length).

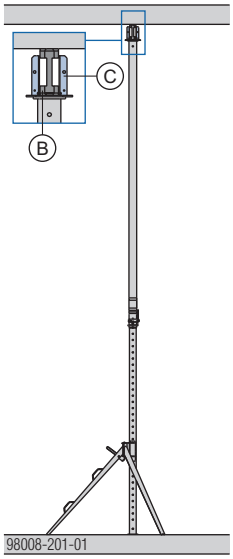
NOTICE

The increased load-bearing capacity applies only if the prop is set up with head plate or, as applicable, baseplate directly against the underside of the slab (2 Doka beams H20 or a strip of formwork sheeting as packer permissible).

With increased load-bearing capacity



Without increased load-bearing capacity



A Formwork sheet
B Doka beam H20
C Lowering head H20 or 4-way head H20

Instructions for assembly and use (Method statement)

Setup and removal

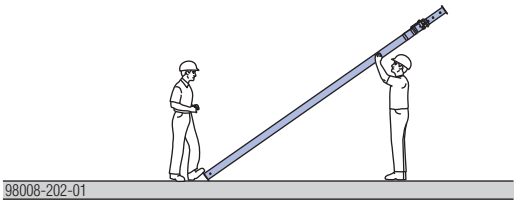
NOTICE

For manual transport, grip the floor prop only by the outer and inner tubes.

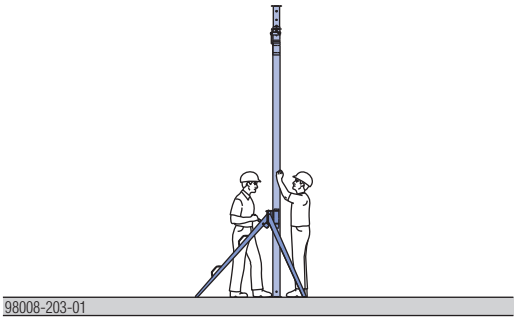
Setting up with tripod

➤ Set up Removable folding tripod 1.20m.

➤ With one foot against the baseplate to prevent slippage, raise the floor prop upright.



➤ Put the floor prop into the Removable folding tripod 1.20m and fix it in place with the clamping lever. Before stepping onto the formwork, check again to make sure that the props have been correctly fixed in the tripods.

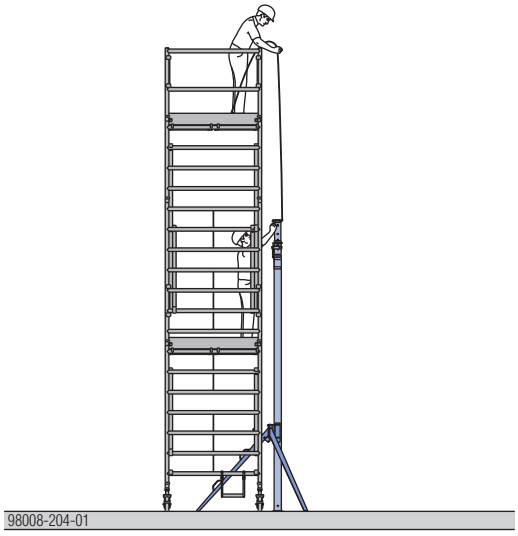


NOTICE

➤ Observe the safety rules of the working scaffold!

➤ Set up the working scaffold.

➤ Secure a rope underneath the head-plate and pull on the rope to extend the floor prop.



➤ Roughly adjust the height of the floor prop, using the fastening clamp.
The pegging holes are all numbered, which makes it easier to adjust the props to the same height.

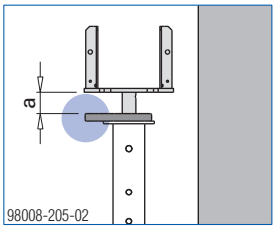
CAUTION

➤ If you do transport the floor props with the lowering heads still attached, you must secure these with a Spring locked connecting pin 16 mm to prevent them dropping out. This is particularly important when they are transported in the horizontal.

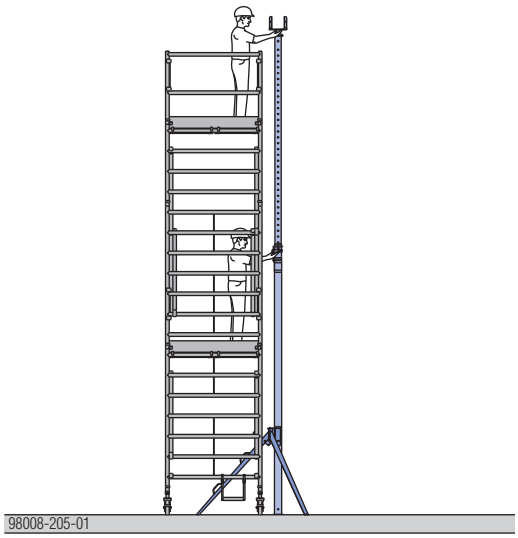
➤ Insert a Lowering head H20 into the floor prop. Leave the correct amount of lowering play (a)!

Clearance **a** between wedge and head-plate: 6 cm

The lowering heads under edge primary beams must all be turned to the position in which the wedges can be knocked open when the formwork is stripped.



➤ With the prop upright, use the adjusting nut for precision adjustment.



- The fastening clamp **(A)** has to be pushed all the way into the floor prop.
- Adjusting nut **(B)** has to be tightened into contact with the fastening clamp.

Setting up without tripod

➤ To prevent toppling, use Supporting head H20 DF to secure intermediate props for floor formwork (see the User Information booklets for Dokaflex 1-2-4 or Doka-Xtra, as applicable).

➤ When using props as temporary reshoring, press them sufficiently tightly against the floor structure to ensure that they cannot topple.

Removal

➤ Removal is the reverse of the setup procedure.

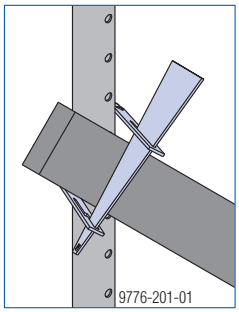
Bracing

Variant 1: Bracing clamp B with planks

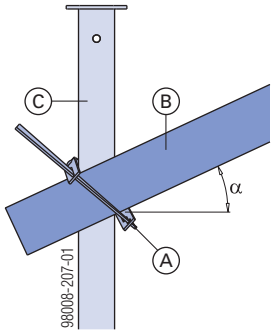
NOTICE

Always hammer in the wedge from top to bottom!

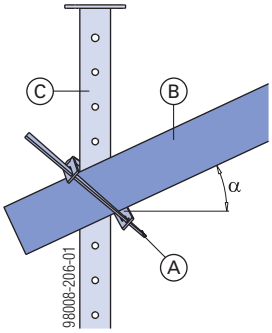
Planks can be attached to the floor props as diagonal braces, using the Bracing clamp B.



Plank fastened to outer tube



Plank fastened to inner tube



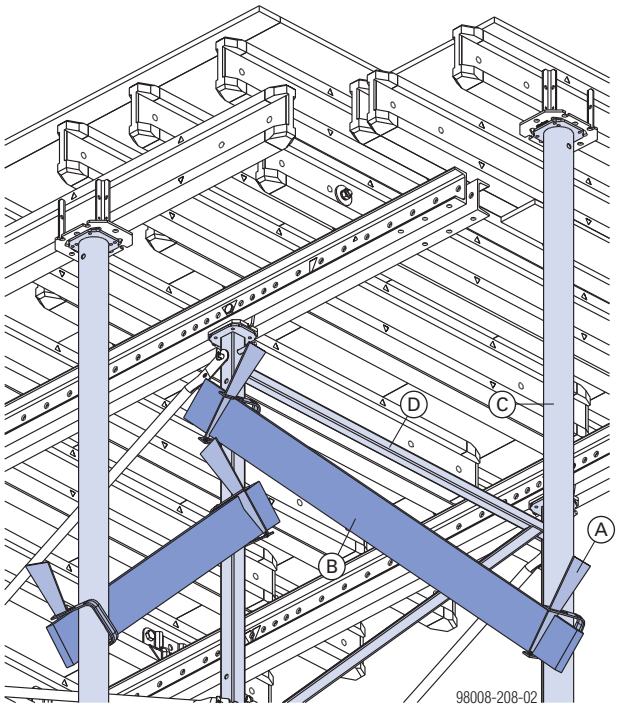
Recommended dimensions of plank for the Doka floor prop Eurex 20 top 700

Plank dimensions [cm]	α Outer tube	α Inner tube
2.4 x 10	≥ 14°	≥ 8°
3 x 10	≥ 14°	≥ 10°
2.4 x 12	≥ 24°	≥ 18°
3 x 12	≥ 24°	≥ 20°

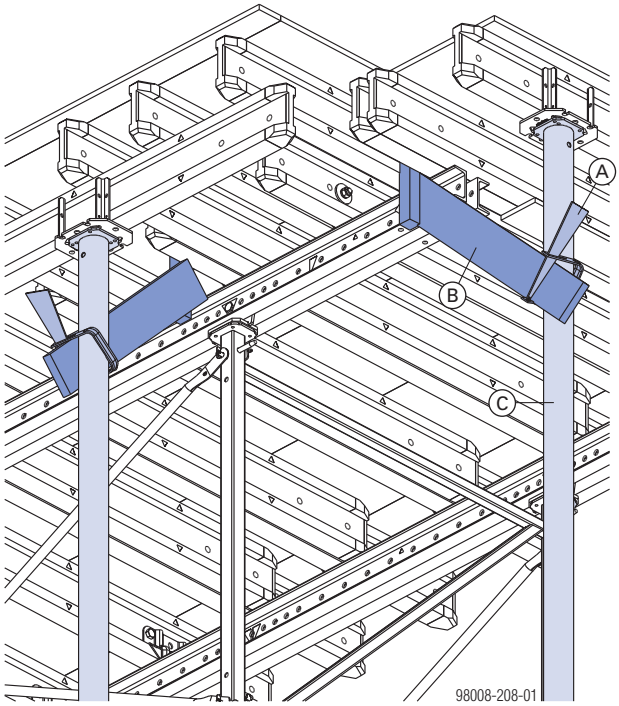
Planks of these sizes can also be connected to the Dokamatic table frame (see Practical example).

Practical examples

Planks fastened to Dokamatic table frame 1.50m



Planks fastened to tableform superstructure



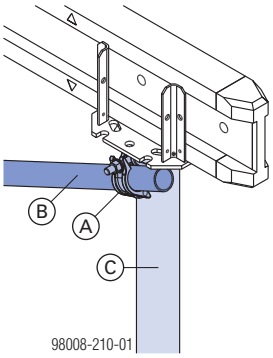
A Bracing clamp B
B Bracing plank (site-provided)
C Doka floor prop Eurex 20 top 700
D Dokamatic table frame 1.50m

Variant 2: Screw-on couplers 48mm 135 with scaffolding tubes

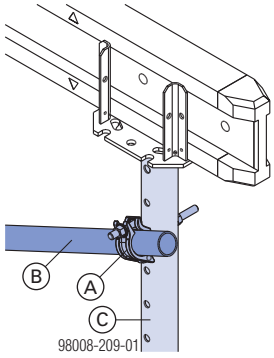
NOTICE

Before fitting the bracing, make sure that the holes in the floor prop and the 4-way head or Lowering head are correctly aligned (see Practical examples)!

Plank fastened to outer tube



Plank fastened to inner tube



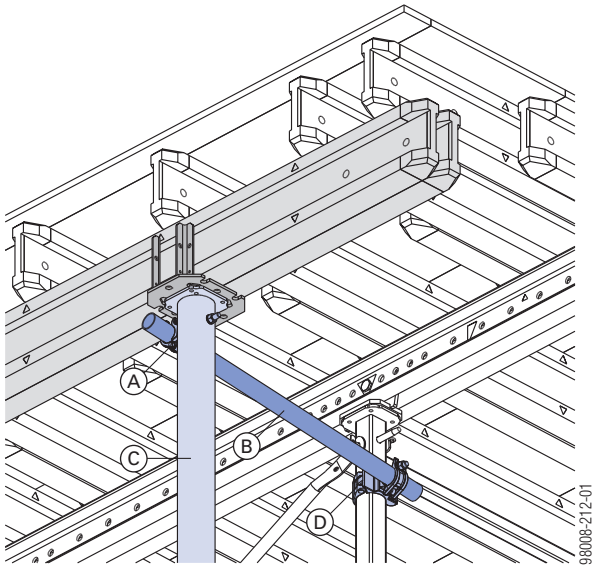
A Screw-on coupler 48mm 135
B Scaffold tube 48.3mm
C Doka floor prop Eurex 20 top 700

NOTICE

- The 4-way head or Lowering head must be fixed onto the floor prop before the screw-on couplers are mounted.
- If the screw-on couplers are mounted first, this makes it impossible to retract the floor prop all the way.
- Carefully screw on the screw-on couplers, so as not to damage the floor prop.

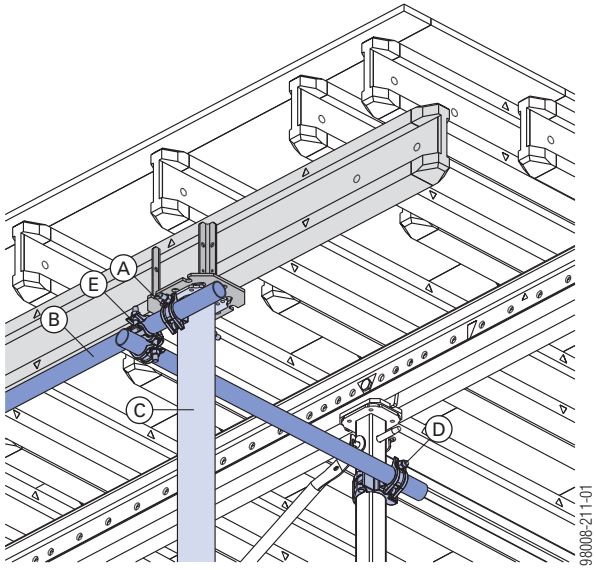
Practical examples

4-way head or Lowering head with 2 Doka beams H20



A Screw-on coupler 48mm 135
B Scaffold tube 48.3mm
C Doka floor prop Eurex 20 top 700
D Transition swivel coupler 48/76mm

4-way head or Lowering head with 1 Doka beam H20



A Screw-on coupler 48mm 135
B Scaffold tube 48.3mm
C Doka floor prop Eurex 20 top 700
D Transition swivel coupler 48/76mm
E Swivel coupler 48mm

Note:

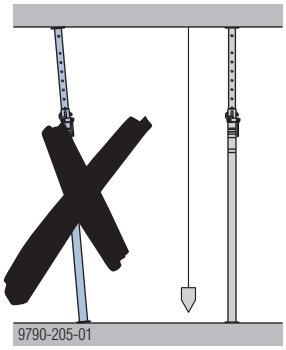
If there is 1 Doka beam H20 resting on the 4-way head or Lowering head, then an extra scaffolding tube must be attached so that the floor prop can be braced to the table frame.

Possible incorrect usages

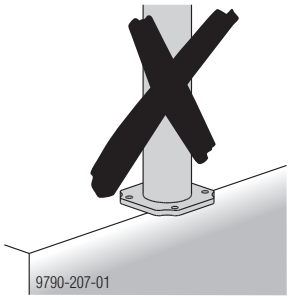
WARNING

➤ The uses illustrated below are prohibited, as are other, similar uses!

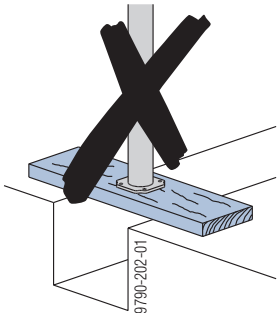
Use only perfectly upright and plumb.

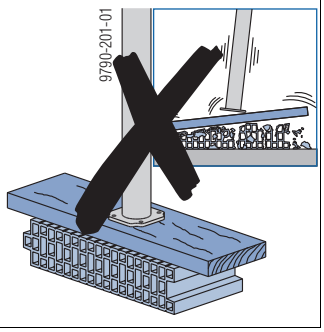


Baseplate must make full-surface contact with the ground.

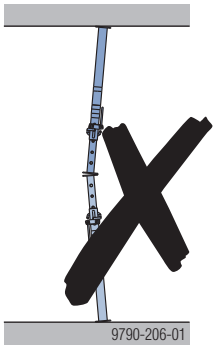


Place only on ground of adequate load-bearing strength.

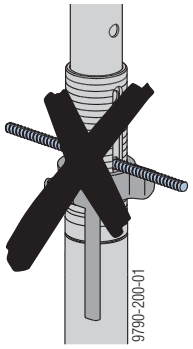




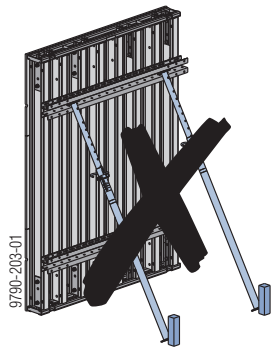
Do not attempt to use floor props one on top of another.



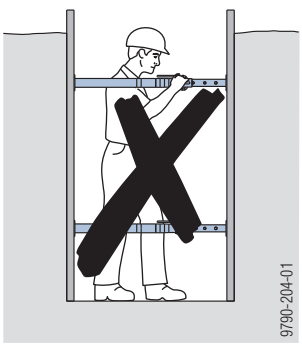
Do not use anchor rods or lengths of rebar as substitutes for the pegs.



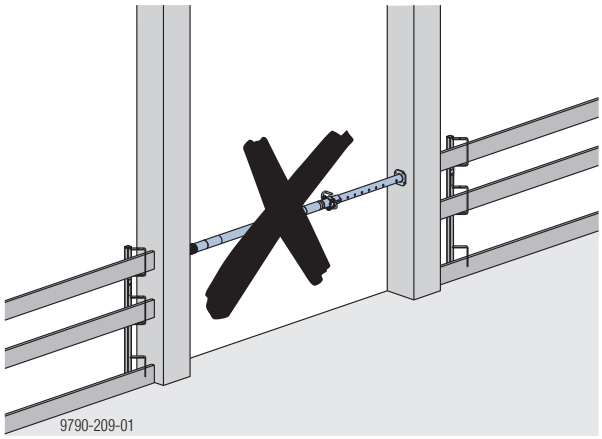
Do not use to support formwork panels.

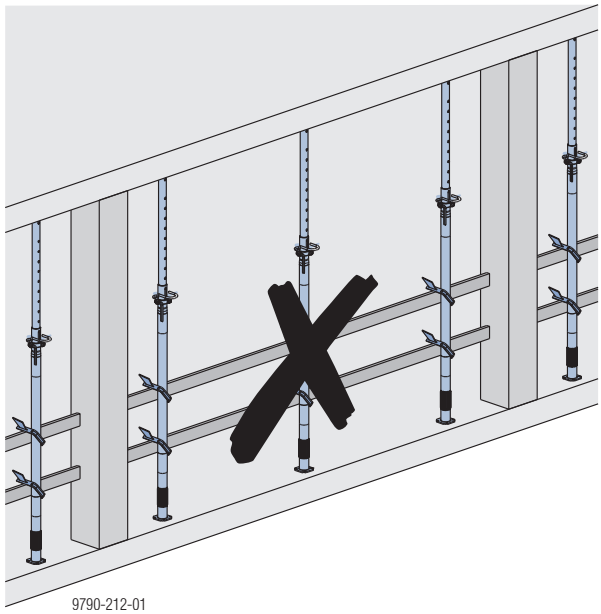


Do not use as trenching braces.



Do not use as barrier to close off openings.





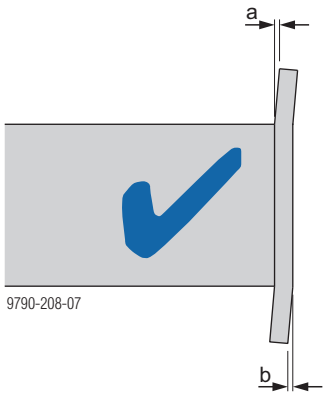
Technical condition

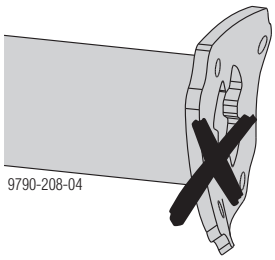
The following quality criteria define the statically permitted degree of damage or weakening.
Use is prohibited if the damage is more extensive.

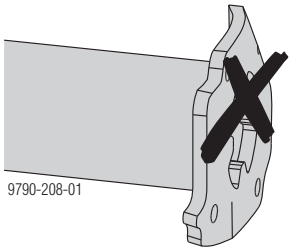
Outer tube - inner tube

Head plate or baseplate bent out of shape

- **a max. 1 mm** outward and
- **b max. 3 mm** inward is permissible

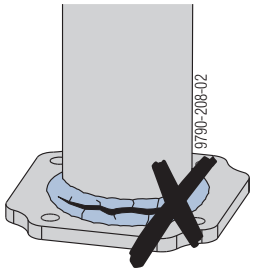






Cracks in welds

- not permissible



Threads

- must be greased over entire length and action must be smooth.

Inner tube

- When the inner tube is rotated inside the outer tube so that the U-bolt fixing-holes of both tubes are lined up, it must be possible to fully extend and retract the inner tube.

Widening

- of the pegging holes in the inner tube is permissible up to 2 mm.

Transporting, stacking and storing

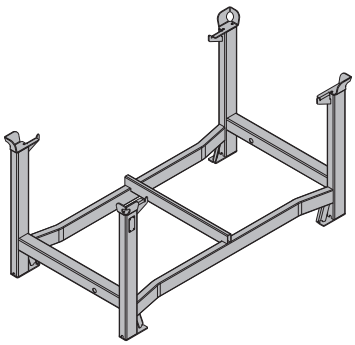
Doka stacking pallet 1.55x0.85m

Loading capacity

Max. number of floor props per pallet

Floor prop Eurex	Stacking pallet 1.55x0.85m
20 top 700	20

Storage and transport device for long items.



Permitted load-bearing capacity: 1100 kg (2420 lbs)
Permitted imposed stacking load: 5900 kg (13000 lbs)

Using Doka stacking pallets as storage units

Max. number of units on top of one another

Outdoors (on the site) Floor gradients up to 3%	**Indoors** Floor gradients up to 1%
2	6
Empty multi-trip packagings must not be stacked on top of one another!	

NOTICE

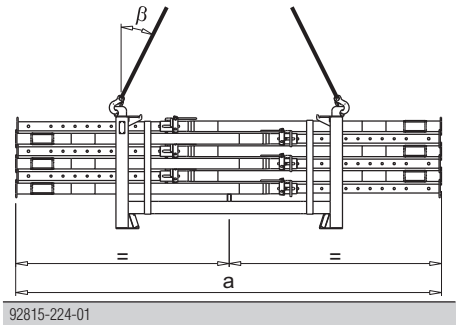
- Stacked multi-trip packagings with widely differing loads must have the heaviest boxes at the bottom and the lightest at the top!
- No castor wheels may be fitted to the bottom multi-trip packaging item in the stack.
- Secure multi-trip packagings with installed castor wheels using the fixing brake when setting down.

Using Doka stacking pallets as transport devices

Lifting by crane

NOTICE

- Multi-trip packaging items must be lifted individually.
- Use suitable lifting chains:
  - e.g. Doka 4-part chain 3.20m
  - Do not exceed the permitted working load limit of the lifting chains.
- Load the items centrically.
- Fasten the load to the stacking pallet (e.g. with strapping band or lashing strap) so that it cannot slide or tip out.
- Sling angle β max. 30°!



a ... max. 4.5 m

Repositioning by forklift truck or pallet stacking truck

NOTICE

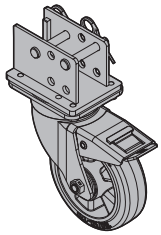
- Load the items centrically.
- Fasten the load to the stacking pallet (e.g. with strapping tape or lashing strap) so that it cannot slide or tip out.

Universal castor wheel for transport pallet

The Universal castor wheel for transport pallet turns multi-trip packaging items into fast and manoeuvrable transport devices.

- 4 castor wheels needed per multi-trip packaging item.
- Compatible multi-trip packaging items:
  - Doka stacking pallets (all sizes)
  - Doka multi-trip transport box 1.20x0.80m
  - Doka skeleton transport box 1.70x0.80m
  - DokaXdek panel pallets (all sizes)
  - Superdek beam pallet 1.22x1.10m

Follow the directions in the 'Universal castor wheel for transport pallet' User Information booklet.

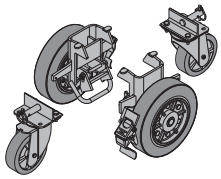


Bolt-on castor set B

The Bolt-on castor set B turns multi-trip packaging items into fast and manoeuvrable transport devices.

- Suitable for drive-through access openings > 90 cm.
- Compatible multi-trip packaging items:
  - Doka accessory box
  - Doka stacking pallets (all sizes)
  - Protective barrier Z pallets

Follow the directions in the 'Bolt-on castor set B' User Information booklet!



	[kg]	Article N°
Doka floor prop Eurex 20 top 700 Doka-Deckenstütze Eurex 20 top 700 Galvanised Length: 383 - 700 cm	**48.0**	**586139000**
Removable folding tripod 1.20m Stützbein 1,20m Galvanised Height: 120 cm Delivery condition: folded closed	**20.7**	**586145000**
Bracing clamp B Verschwertungsklammer B Painted blue Length: 36 cm	**1.4**	**586195000**
Screw-on coupler 48mm 135 Anschraubkupplung 48mm 135 Galvanised Width-across: 22 mm	**0.92**	**582892000**
Scaffold tube 48.3mm 0.50m	**1.7**	**682026000**
Scaffold tube 48.3mm 1.00m	**3.6**	**682014000**
Scaffold tube 48.3mm 1.50m	**5.4**	**682015000**
Scaffold tube 48.3mm 2.00m	**7.2**	**682016000**
Scaffold tube 48.3mm 2.50m	**8.4**	**682017000**
Scaffold tube 48.3mm 3.00m	**10.8**	**682018000**
Scaffold tube 48.3mm 3.50m	**12.6**	**682019000**
Scaffold tube 48.3mm 4.00m	**14.4**	**682021000**
Scaffold tube 48.3mm 4.50m	**16.2**	**682022000**
Scaffold tube 48.3mm 5.00m	**18.0**	**682023000**
Scaffold tube 48.3mm 5.50m	**19.8**	**682024000**
Scaffold tube 48.3mm 6.00m	**21.6**	**682025000**
Scaffold tube 48.3mm .....m Gerüstrohr 48,3mm Galvanised	**3.6**	**682001000**

	[kg]	Article N°
Swivel coupler 48mm Drehkupplung 48mm Galvanised Width-across: 22 mm	**1.5**	**582560000**
Transition swivel coupler 48/76mm Übergangsdrehkupplung 48/76mm Galvanised Width-across: 22 mm	**1.9**	**582563000**
Doka stacking pallet 1.55x0.85m Doka-Stapelpalette 1,55x0,85m Galvanised Height: 77 cm	**41.0**	**586151000**
Universal castor wheel for transport pallet Universal-Lenkrolle Transportgebinde Galvanised Height: 28.8 cm	**6.0**	**584043000**
Bolt-on castor set B Anklemm-Radsatz B Painted blue	**33.6**	**586168000**

Formwork & Scaffolding.
We make it work.

www.doka.com/floor-props