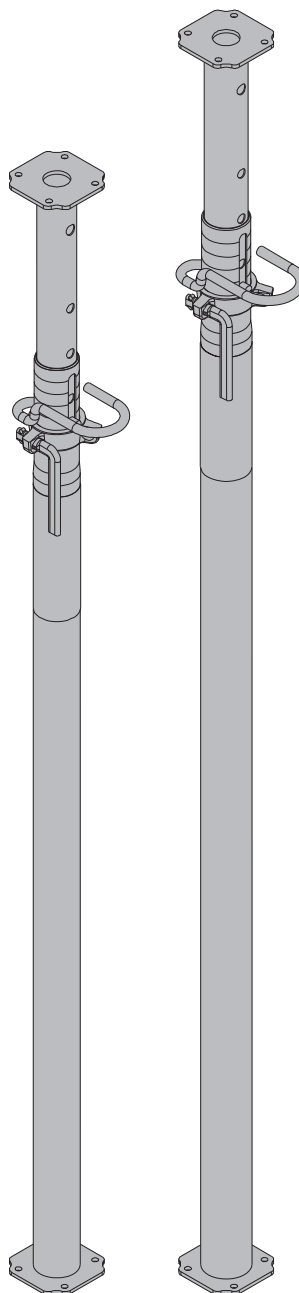


The Formwork Experts.

Floor prop Eurex 20 LW

User Information

Instructions for assembly and use (Method statement)



Contents

3	Introduction
7	Product description
8	Permitted working load limit
9	Instructions for assembly and use (Method statement)
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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 form-work 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 form-work (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 side-guard 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 at 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.

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.

Services

Support in every stage of the project

- Project success assured by products and services from a single source.
- Competent support from planning through to assembly directly on site.

Project assistance from start to finish

Every single project is unique and calls for individualised solutions. When it comes to the forming operations, the Doka team can help you with its consulting, planning and ancillary services in the field, enabling you to carry out your project effectively, safely and reliably. Doka assists you with individual consulting services and customised training courses.

Efficient planning for a safe project sequence

Efficient formwork solutions can only be developed economically if there is an understanding of project requirements and construction processes. This understanding is the basis of Doka engineering services.

Optimise construction workflows with Doka

Doka offers special tools that help you in designing transparent processes. This is the way to speed up pouring processes, optimise inventories and create more efficient formwork planning processes.

Custom formwork and on-site assembly

To complement its system formwork range, Doka offers customised formwork units. And specially trained personnel assemble load-bearing towers and formwork on site.

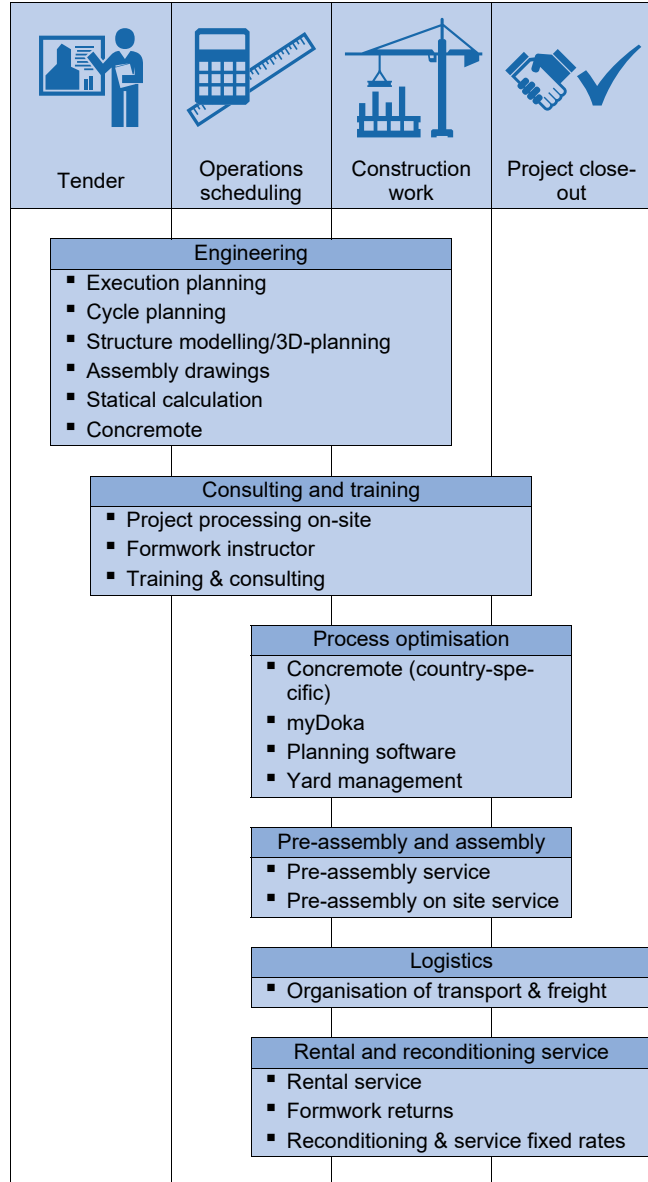
Just-in-time availability

Formwork availability is a crucial factor in realising your project on time and on budget. The worldwide logistics network puts the necessary formwork quantities on site at the agreed time.

Rental and reconditioning service

The formwork material needed for any particular project can be rented from Doka's high-performing rental park. Doka Reconditioning cleans and overhauls both client-owned equipment and Doka rental equipment.

High performance, in all stages of the project



Digital Services

for higher productivity in construction

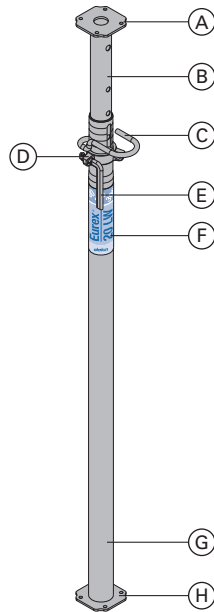
From planning to completion of construction - with our digital services we want to set the pace for boosting productivity in construction. Our digital portfolio includes solutions for planning, procuring and managing to performing on site. Learn more about our digital offer at doka.com/digital.

Product description

Doka floor props Eurex 20 LW are adjustable telescopic steel props that conform to EN 1065. They are designed for use as vertical props for temporary structures.



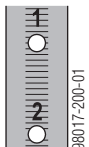
Follow the directions in the relevant User Information booklet when using the floor prop in Doka floor systems!



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

Features:

- Approved in accordance with Z-8.311-980.
- Designed and galvanised for a long service life.
- Numbered pegging holes for height adjustment.



- Quick connection with the spring locked connecting pin for attaching various types of head adapters in a crane-handling-safe manner.
- Drop-out 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.





Practical examples

Doka Floor Systems	Temporary reshoring
<p>9720-337-01</p>	<p>9795-203-01</p>

Permitted working load limit

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

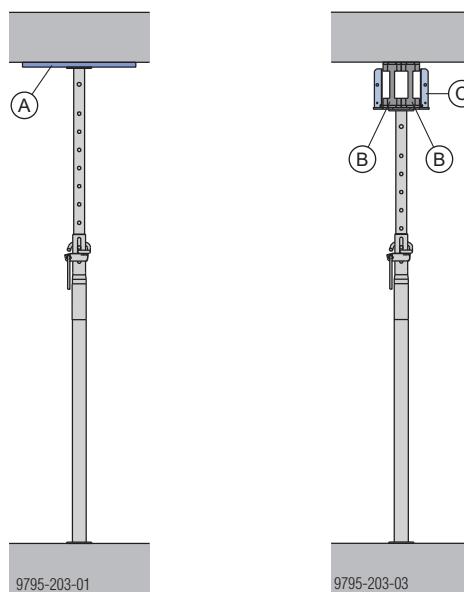
Permitted load-bearing capacity [kN] as a function
of the extension length

	Eurex 20 LW				
	300		350		
Prop category to EN 1065	B30 D30		B35 D35		
					
Position of outer tube	at bottom	at top	at bottom	at top	
Extension length [m]	3.5	—	20.6	22.7	
	3.4	—	21.8	24.5	
	3.3	—	23.5	26.6	
	3.2	—	25.2	28.9	
	3.1	—	27.1	31.5	
	3.0	20.6	23.0	29.1	33.4
	2.9	21.7	25.1	31.2	
	2.8	23.5	27.5	32.5	
	2.7	25.5	30.3	33.3	
	2.6	27.3	31.7	33.4	
	2.5	29.7			
	2.4	31.6			
	2.3	31.7			
	2.2				
	2.1				
	2.0				
1.9	31.7	—	—		
1.8		—	—		

Used in Doka tableforms, or as
temporary reshoring (floor props
restrained)

Permitted load-bearing capacity [kN] as a function
of the extension length

	Eurex 20 LW	
	300	350
3.5	—	30
3.4	—	32
3.3	—	33.4
3.2	—	
3.1	—	
3.0	30	
2.9	31.7	
2.8		
2.7		
2.6		
2.5		
2.4		
2.3		
2.2		
2.1		
2.0		
1.9	—	
1.8	—	



A Formwork sheet

B Doka beam H20

C Lowering head H20 or 4-way head H20



NOTICE

When used as temporary reshoring:

The baseplate stands directly on the floor, the head plate is directly against the slab (a formwork sheet or 2 Doka beams H20 can be used as packers at top).

Instructions for assembly and use (Method statement)



NOTICE

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



Setting up with tripod



NOTICE

Applies only for use as free-standing floor props. Comply with the instructions in the applicable User Information booklet when using the floor prop in combination with a formwork system.



CAUTION

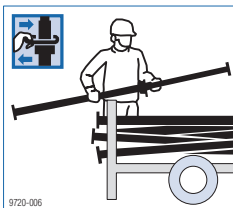
The removable folding tripod is not a substitute for the bracing necessary for load-bearing towers.

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

Possible clamping ranges for removable folding tripods

Doka floor prop	at outer tube	at inner tube
Eurex 20 LW 300	✓	—
Eurex 20 LW 350	✓	✓

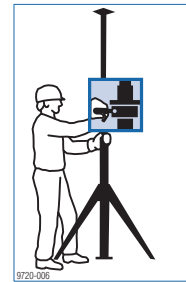
- Roughly adjust the height of the floor prop, using the fastening clamp. The pegging holes are all numbered, which makes it easier to adjust the props to the same height.



- Set up each removable folding tripod.
- Put the floor prop into the tripod 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.



- With the floor 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.

Backing off and removing floor props

- Loosen the adjusting nut with a blow of the hammer and turn the floor prop to lower it.
- Bring the floor prop into a horizontal position.
- If necessary, open the fastening clamp and push the inner tube into the outer tube.
- Lay the floor prop on the stacking pallet.

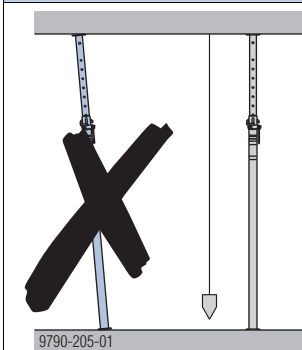
Possible incorrect usages



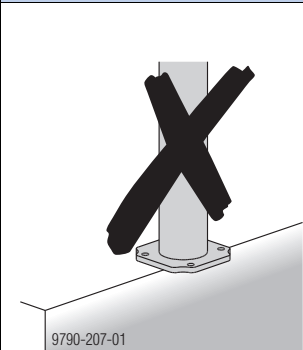
WARNING

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

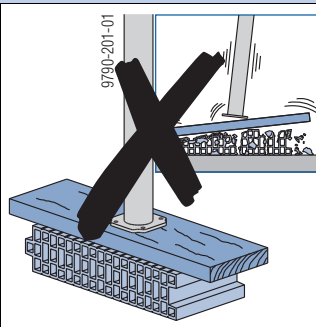
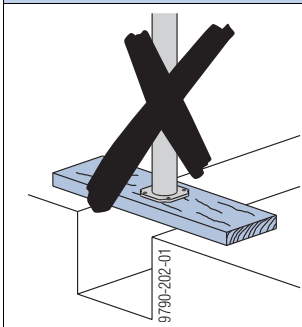
Use only perfectly upright and plumb.



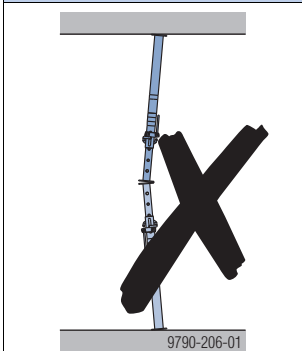
Baseplate must make full-surface contact with the ground.



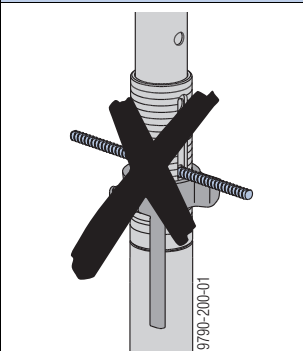
Place only on ground of adequate load-bearing strength.



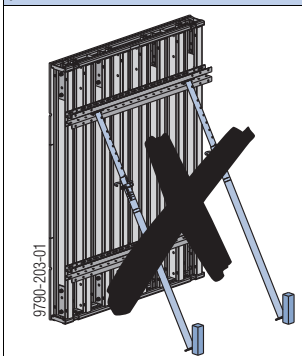
Do not attempt to use floor props one on top of another.



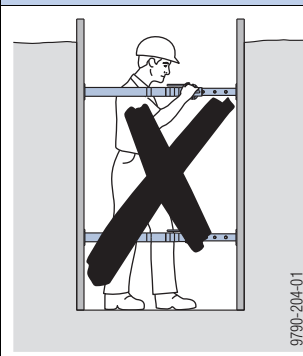
Do not use anchor rods or lengths of rebar as substitutes for the pegs.



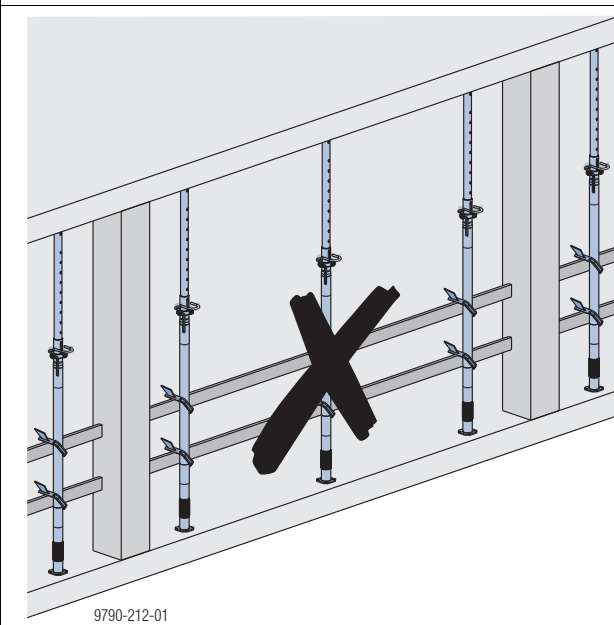
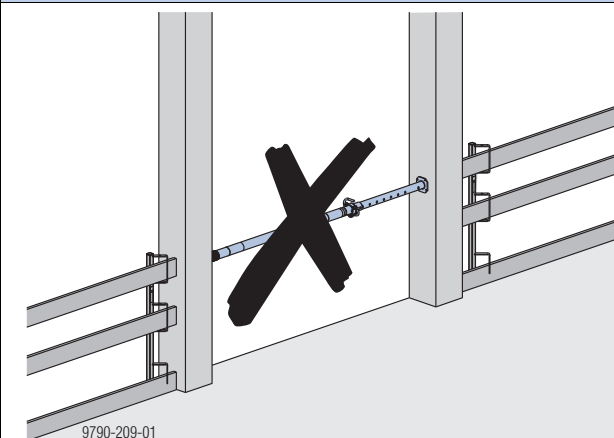
Do not use to support formwork panels.



Do not use as trenching braces.



Do not use as barrier to close off openings.



Technical condition

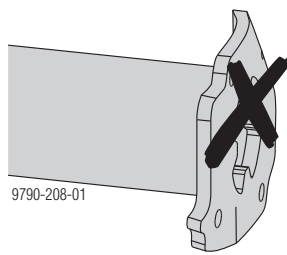
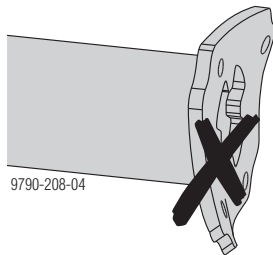
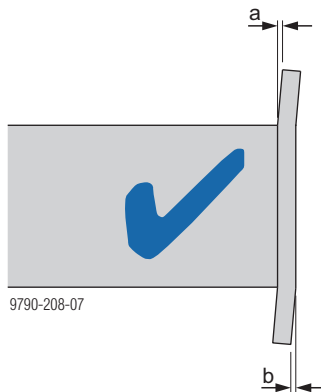
The following quality criteria define the statically permitted degree of damage or weakening.

Use is prohibited if the damage is more extensive.

Outer tube - inner tube

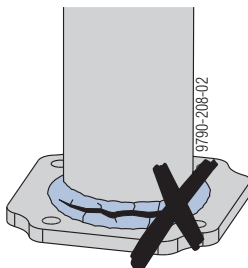
Head plate or baseplate bent out of shape

- **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

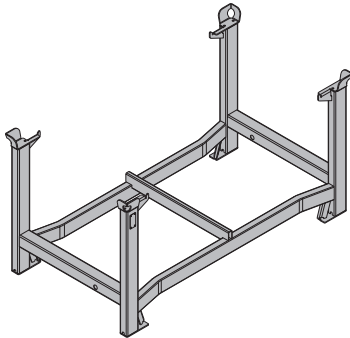
Loading capacity

Loading capacity of the stacking pallet

Doka floor props	
Eurex 20 LW 300	40
Eurex 20 LW 350	35

Doka stacking pallet 1.55x0.85m and 1.20x0.80m

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. n° of units on top of one another

Outdoors (on the site) Floor gradients up to 3%	Indoors Floor gradients up to 1%
2	6
It is not allowed to stack empty pallets on top of one another!	



NOTICE

- Stacked multi-trip boxes or pallets must have the heaviest boxes at the bottom and the lightest at the top.
- How to use with Bolt-on castor set B:**
 - Always apply the fixing brake when the container is 'parked'.
 - When Doka stacking pallets are stacked, the bottom pallet must NOT be one with a bolt-on castor set mounted to it.

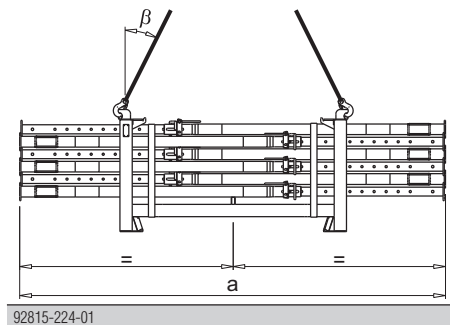
Using Doka stacking pallets as transport devices

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 centrally.
- Fasten the load to the stacking pallet (e.g. with strapping tape or lashing strap) so that it cannot slide or tip out.
- Sling angle β max. 30°!



	a
Doka stacking pallet 1.55x0.85m	max. 4.5 m
Doka stacking pallet 1.20x0.80m	max. 3.0 m

Repositioning by forklift truck or pallet stacking truck

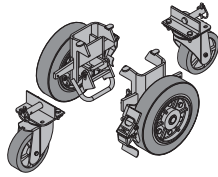


NOTICE

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

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.



The Bolt-on castor set B can be mounted to the following multi-trip packaging items:

- Doka accessory box
- Doka stacking pallets
- Protective barrier Z pallets



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

14 999816002 - 02/2024 **doka**

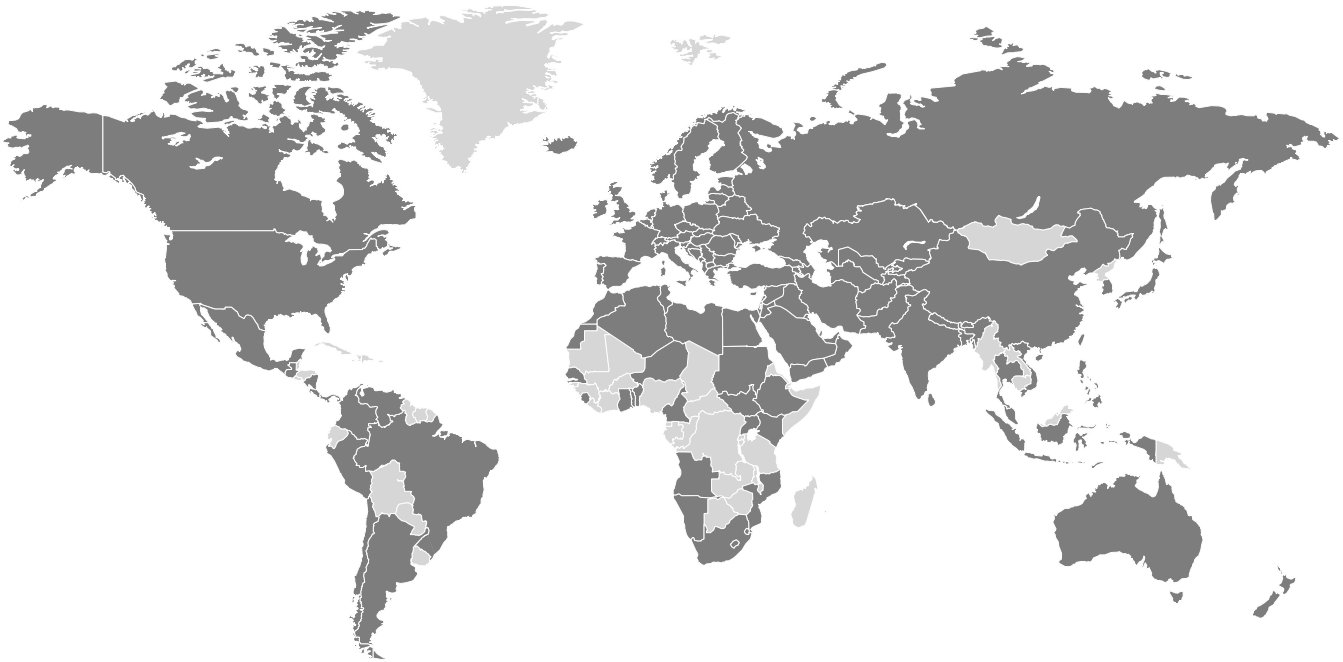
Near to you, worldwide

Doka is one of the world leaders in developing, manufacturing and distributing formwork technology for use in all fields of the construction sector.

With more than 160 sales and logistics facilities in over 70 countries, the Doka Group has a highly efficient distribution network which ensures that equipment and

technical support are provided swiftly and professionally.

An enterprise forming part of the Umdasch Group, the Doka Group employs a worldwide workforce of more than 6000.



www.doka.com/floor-props