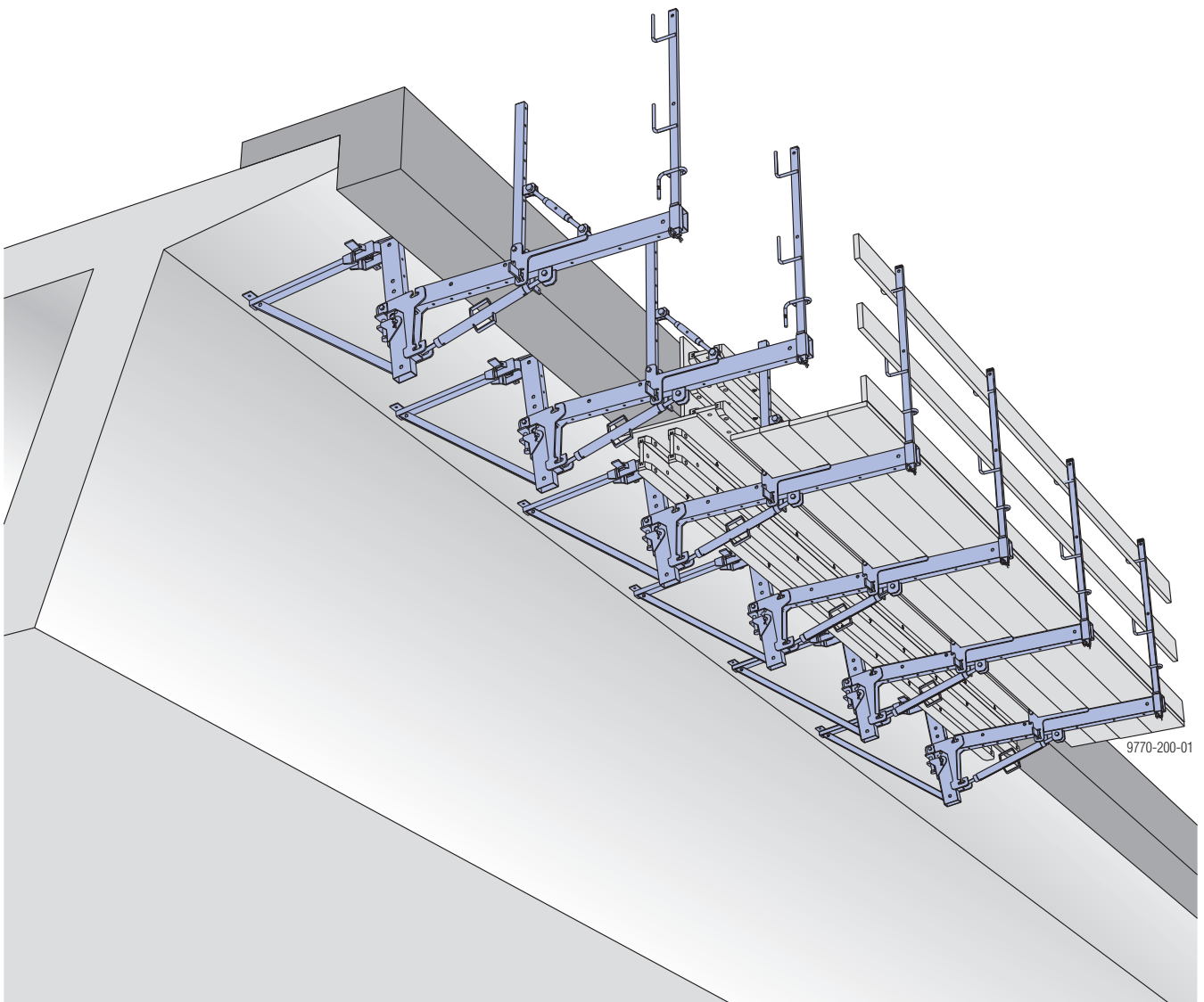


Bridge edge beam formwork T

User Information

Instructions for assembly and use (Method statement)



Contents

4	Introduction
4	Elementary safety warnings
7	Intended use
8	System overview
9	Structural design
9	Basic system
10	Structural design with Handrail post T 1.80m
11	Instructions for assembly and use (Method statement)
13	Anchoring on the structure
13	Suspension point with Bridge edge beam anchor
16	Retrofitted suspension points
17	Assembly
17	Manual erection
19	Erecting the formwork
20	Additional areas of use
20	Platforms on wide edge beams
21	Possible ways of using the Handrail post T 1.80m
24	Platforms on bridges over traffic routes
26	Other possible areas of use
31	General
31	Fall protection on the structure
32	Transporting, stacking and storing
37	Article list

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 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.

Eurocodes at Doka

The permissible values stated in Doka documents (e.g. $F_{perm} = 70 \text{ kN}$) are not design values (e.g. $F_{Rd} = 105 \text{ kN}$), 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:

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

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 Bridge edge beam formwork T is a formwork system for casting and rehabilitating the cantilevered parapets of a bridge in cast-in-place bridge construction. The Bridge edge beam formwork T is designed for forming by hand.

Technical data:

- Max. parapet width: 60 cm
- Max. parapet height: 76 cm

In special cases, boundary conditions can vary. The relevant information in the Doka technical documents must be observed.

Any other use or use going beyond that stated above is contrary to the intended use and requires a risk assessment, revised static calculations as well as supplementary assembly instructions!

Areas of use

Cost effective utilisation for casting cantilevered parapets include:

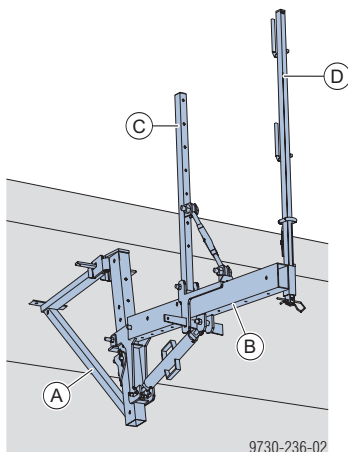
- shorter bridge superstructures (completely scaffolded)
- medium-length bridges with a small number of repositioning cycles

The system is also suitable for curved bridges.

System overview

Bridge edge beam formwork T- the fast manual bridge edge beam formwork (type-tested)

This formwork is a quick and easy way of constructing cantilevered parapets on bridges. It only has a small number of separate parts, which combine high load-bearing capacity with low unit weight. This makes it possible to erect Bridge edge beam formwork T by hand.



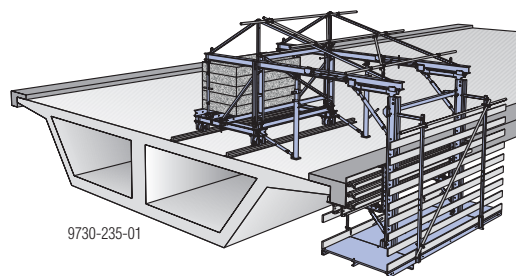
- A** Bridge edge beam bracket T 0.80m
- B** Bridge edge beam support T 1.40m
- C** Bridge edge beam clamp T 0.40m
- D** Handrail post 1.00m or Handrail post T 1.80m

Alternative systems for constructing cantilevered parapets

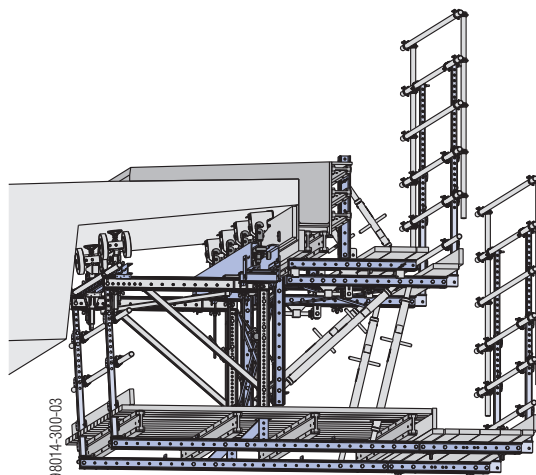


Forming wagon T and Forming wagon TU are alternatives for long bridges and/or multiple re-positioning cycles. They are also suitable for renovation of existing bridge superstructures. Follow the directions in either the 'Forming wagon T' or the 'Forming wagon TU' User Information, as appropriate.

Example using Forming wagon T:



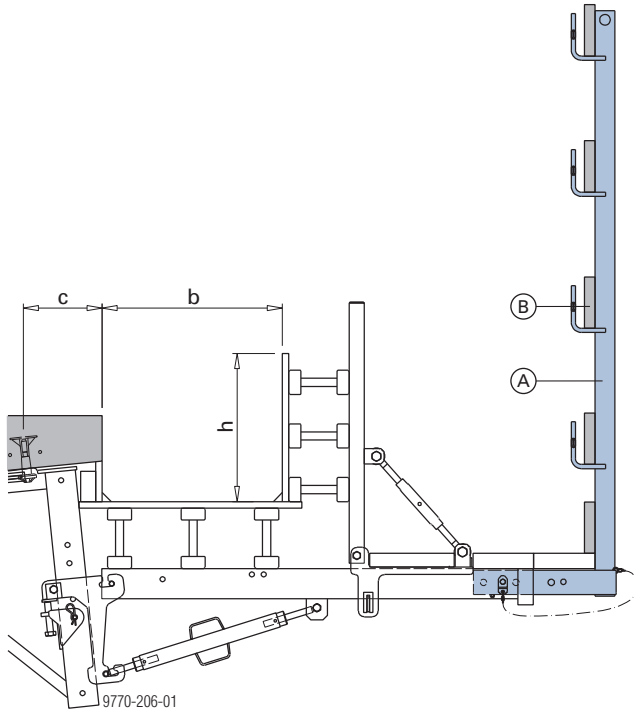
Example using Forming wagon TU:



Structural design with Handrail post T 1.80m

The Handrail post T 1.80m is ideal for constructing handrails up to 1.80 m high.

Permissible live load on the working platform for pouring is max. 0.75 kN/m^2
 A working wind of 0.25 kN/m^2 (72 km/h) is taken into account.

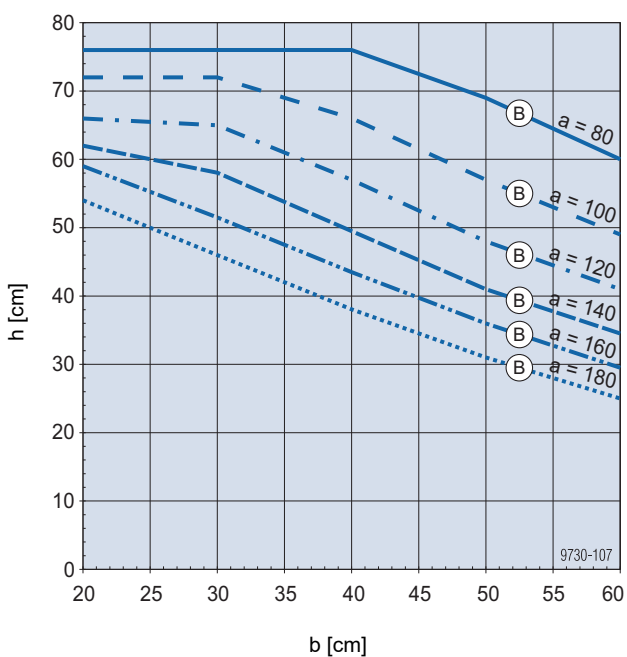


c ... Standard 25.0 cm Where the bridge edge beam support has a pronounced rearward inclination, this dimension must be determined with the aid of construction-design drawings.

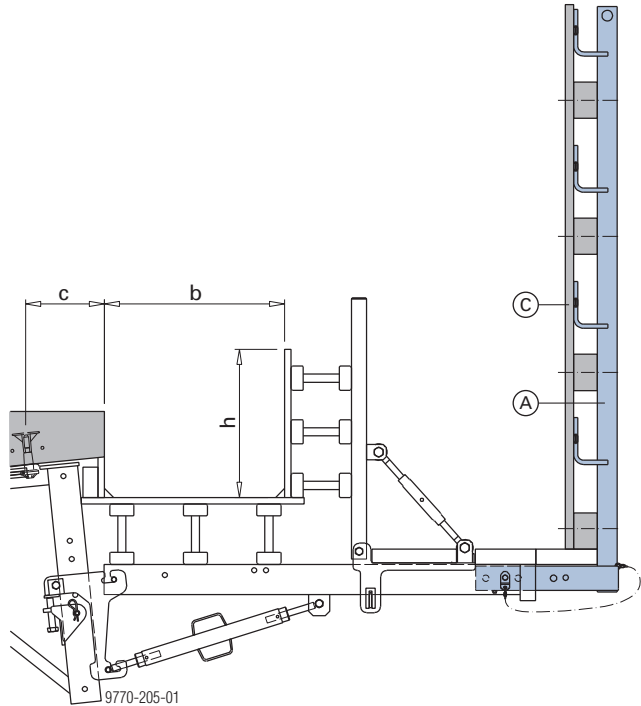
A Handrail post T 1.80m

B Guardrail boards 15x3 cm

Centre-to-centre distance 'a' graph (guardrail boards 15x3 cm)



B max. wind pressure $w_e = 1.43 \text{ kN/m}^2$

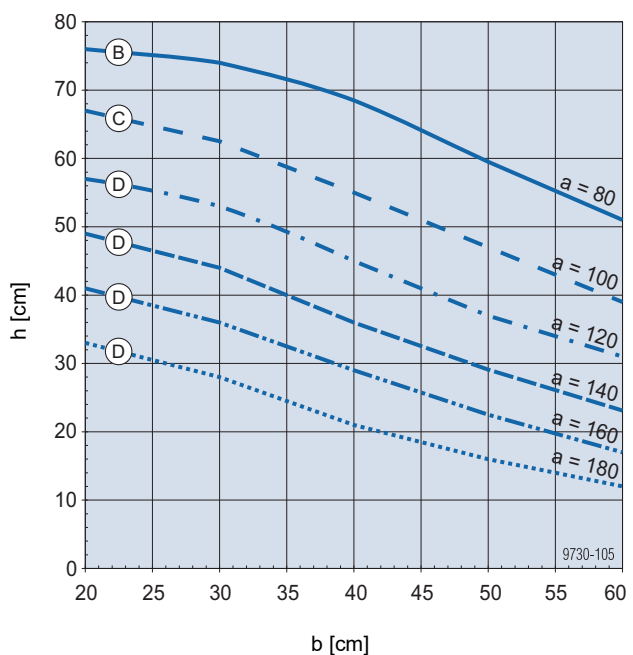


c ... Standard 25.0 cm Where the bridge edge beam support has a pronounced rearward inclination, this dimension must be determined with the aid of construction-design drawings.

A Handrail post T 1.80m

C Gap-free boarding

Centre to centre distance 'a' graph (acting on whole area)



B max. wind pressure $w_e = 1.43 \text{ kN/m}^2$

C max. wind pressure $w_e = 1.04 \text{ kN/m}^2$

D max. wind pressure $w_e = 0.65 \text{ kN/m}^2$

Instructions for assembly and use (Method statement)

Preconditions for use:

The suspension points must be pre-fitted into the superstructure at the correct intervals (see the section headed [Suspension point with Bridge edge beam anchor](#)).

For erecting the formwork, we recommend using either a mobile work platform or a work cage lowered from a construction crane, mobile crane or truck-mounted crane.

Various types of assembly carriage for forming cantilevered parapets are available on the market.

Whether a particular carriage is suitable for erecting the Bridge edge beam formwork T will depend upon the dimensions of the cantilevered parapet. This must be verified separately for each project.



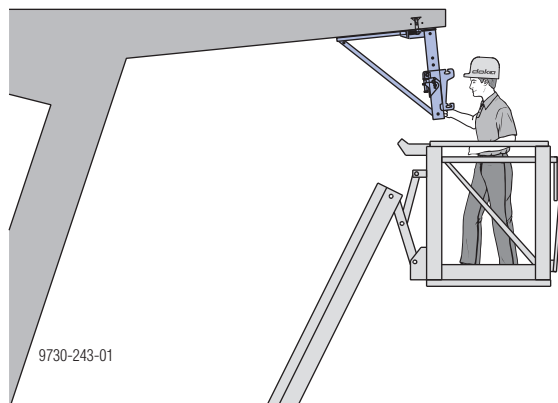
NOTICE

All equipment used must be officially approved for carrying personnel!

Doka bridge edge beam formwork takes a very short time to set up, this avoids the hoisting equipment from being "tied up" for long periods.

Suspending the first Bridge edge beam bracket

- Screw in the Screw-in cone 15.0 (see the section headed [Suspension point with Bridge edge beam anchor](#) for details).
- Mount the bridge edge beam bracket (see the section headed 'Suspension point with bridge edge beam anchor' for details). This can be made easier by lowering the bridge edge beam bracket by cable.
- On the first bridge edge beam bracket, roughly set the height of the connecting slide (see the section headed 'Manual erection' for details).



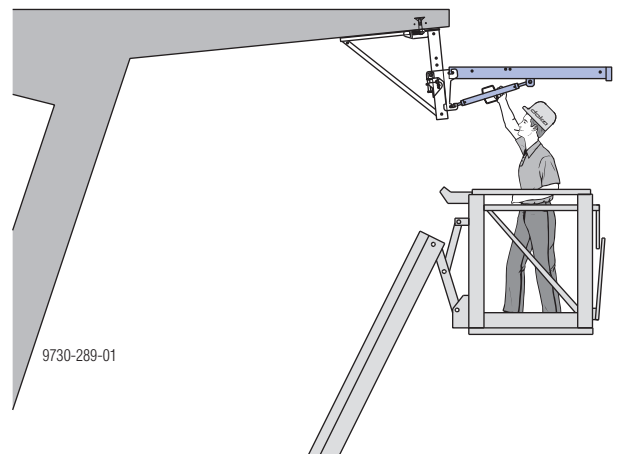
Suspending further Bridge edge beam brackets

Before being suspended, all the other bridge edge beam brackets can be pre-adjusted to match the first bracket.

- Screw in the Screw-in cone 15.0 (see the section headed [Suspension point with Bridge edge beam anchor](#) for details).
- Mount the bridge edge beam brackets (see the section headed 'Suspension point with bridge edge beam anchor' for details).

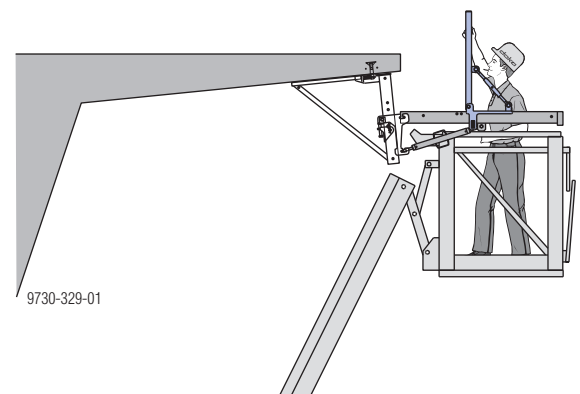
Mounting the Bridge edge beam supports

- Mount all Bridge edge beam supports T 1.40m and level them (see the section headed [Manual erection](#) for details).



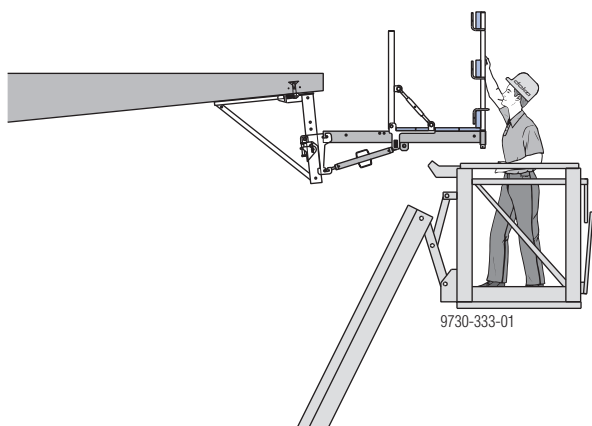
Mounting the Bridge edge beam clamp

- Stand the Bridge edge beam clamp T 0.40m on the support and wedge it at the required distance from the edge of (see the section headed [Manual erection](#) for details).



Mounting the railing

- ▶ Slot Handrail posts 1.00m into place, and fasten the guardrail boards (see the section headed [Manual erection](#) for details).
- ▶ Lay the deck-boards (these must overlap by at least 20 cm).



Board thicknesses:

- Deck-boards min. 20/4 cm
- Guardrail boards min. 15/3 cm

Note:

The plank and board thicknesses stated comply with the EN 338 C24 timber.

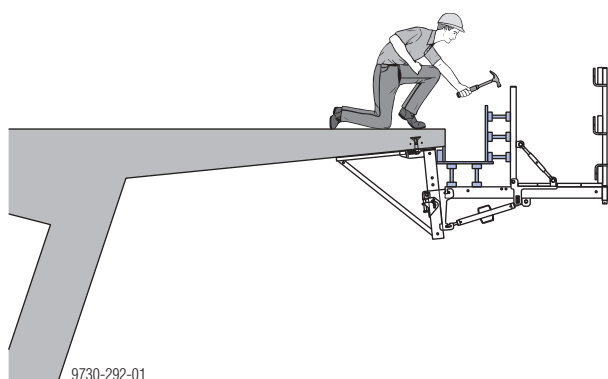
Observe all national regulations applying to deck and guardrail boards.

After this, no hoisting equipment is needed for any of the remaining operations.

Mounting the formwork

This is performed from the bridge superstructure on one side, and from the decking on the bridge edge beam supports on the other.

- ▶ Mount the bottom formwork (see the section headed [Erecting the formwork](#) for details).
- ▶ Mount the side formwork (may be pre-assembled – see the section headed [Erecting the formwork](#) for details).



Before pouring: Adjusting the formwork and reducing play

The adjusting spindles of the bridge edge beam clamps are subjected to compressive force during pouring. As the bolted connections naturally have a certain play, it is possible that some spindles will be loose (i.e. under tension) after the formwork is mounted. During pouring, this play in the spindles would result in deviations from the pre-set dimensions.

To prevent this effect, please observe the following points:

- ▶ Check whether there is any play in the spindle. If not, the adjustment is OK.
If there is:
- ▶ Screw the spindle clockwise (to move it apart) until the play is eliminated, but not so far that the formwork is also moved at the same time.

Note:

At the same time as checking the spindle, also check the wedge tension of the bridge edge beam clamp.

Anchoring on the structure

Suspension point with Bridge edge beam anchor

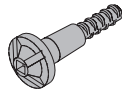


NOTICE

When constructing the bridge superstructure, incorporate the suspension points at the required positions and spacings. Separate statical verification testing is required for other anchoring versions.

Reusable anchoring component

Screw-in cone 15.0



Consumable anchoring components

Nailing cone 15.0	Bridge edge beam anchor 15.0 or Bridge edge beam anchor 15.0 galv.	Bridge edge beam anchor 15.0 stainless

For closing off the anchor hole left in the concrete

Hole plug 29mm	Zinc plug 15.0

For long-lasting corrosion protection of the suspension point



Comply with 'Approval n° Z-21.6-1982' for planning and structural design of the form-tie point!



Follow the directions in the 'Bridge edge beam anchor 15.0' User Information booklet.

Dimensioning the suspension point

The required **cube compressive strength** of the concrete at the time of loading must be **specified** separately for each project **by the structural designer**. It will depend on the following factors:

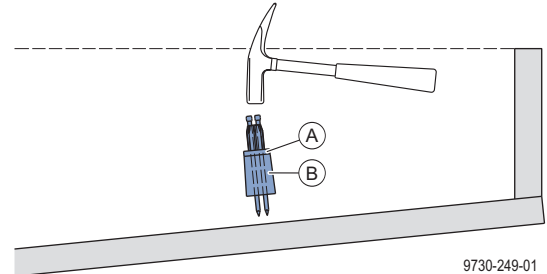
- load actually occurring
- reinforcement / extra reinforcement steel
- distance from edge

The introduction of the forces, the transfer of these forces into the structure, and the stability of the overall construction, must all be verified by the structural designer.

The required cube compressive strength $f_{ck, cube, current}$ must be at least 10 N/mm².

Fitting the bridge edge beam anchor

- Nail a nailing cone to the form-ply (position as shown in shop drawing / assembly drawing).



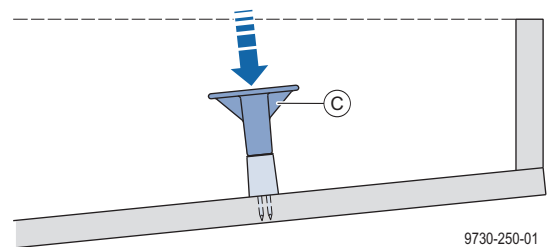
A Sealing ring

B Nailing cone 15.0



Make sure that the sealing ring is fitted correctly!

- Push the bridge edge beam anchor onto the nailing cone.



C Bridge edge beam anchor 15.0

- Tie the bridge edge beam anchor tightly to the reinforcements with binding wire. This prevents it from working loose during pouring and vibration.

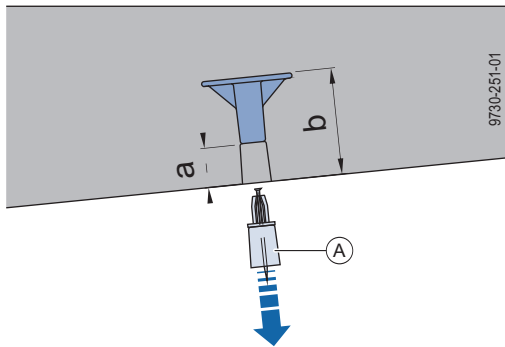


NOTICE

If statically required – place extra reinforcement steel.

After formwork has been struck

- Remove the nailing cone from the anchoring point.



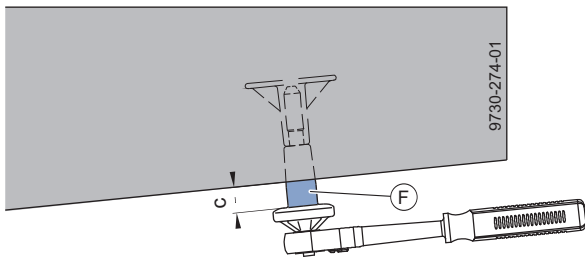
a ... concrete cover 4.0 cm
b ... placement depth 11.5 cm

A Nailing cone 15.0

Quick-attachment facility using Screw-in cone 15.0

Tools needed:

- Reversible ratchet 1/2"
- Extension 11cm 1/2"
- Screw in a Screw-in cone 15.0.

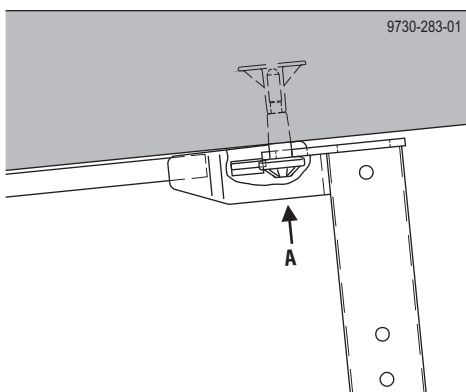


F Screw-in cone 15.0



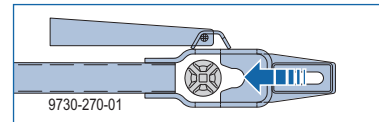
To make it easier to push the bridge edge beam bracket onto the Screw-in cone 15.0, only screw this into the bridge edge beam anchor until the distance **c** between the under-side of the slab and the head of the cone is approx. 23 to 25 mm.

- Hang the Bridge edge beam bracket T 0.80m into place.

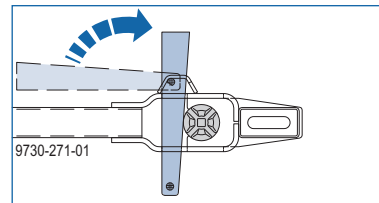


The following points refer to enlarged view A:

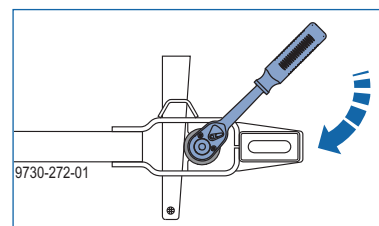
- Place the bracket head against the cone head and push it into the suspension opening.



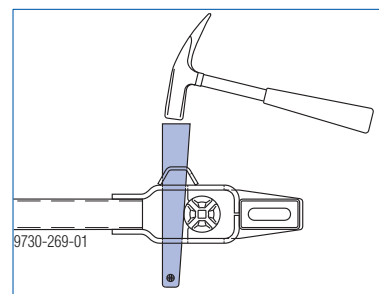
- Push the wedge in by hand.



- Tighten the Screw-in cone 15.0.



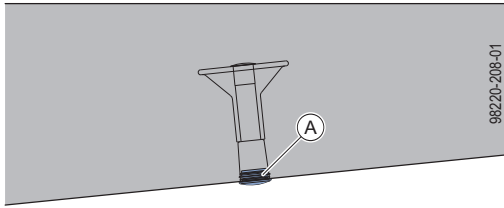
- Hammer in the wedge (one blow of the hammer is sufficient).



Sealing the suspension point

Hole plug 29mm

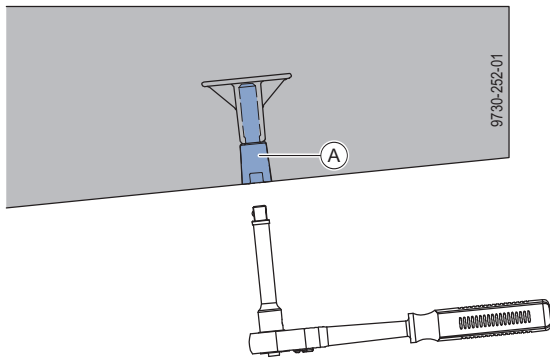
- Push the hole plug into the hole of the suspension point.



A Hole plug 29mm

Zinc plug 15.0

- Screw the zinc plug fully into the hole of the suspension point.



A Zinc plug 15.0

Tools needed:

- Reversible ratchet 1/2"
- Extension 11cm 1/2"

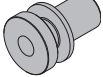
Making the suspension point reusable – lasting protection against corrosion

Where an ungalvanised 'standard' Bridge edge beam anchor 15.0 has been used, you can give the suspension point lasting (electrochemical) protection against corrosion by screwing a Zinc plug 15.0 into the anchor after the formwork has been removed.

Retrofitted suspension points

Bridge edge beam formwork T is also ideal for use in bridge renovation. However, for this application, ready-prepared form-tie points will rarely be found.

Retrofitted suspension points with collar-mounts are required for engaging the bridge edge beam brackets.

Collar-mount 21	Collar-mount 21/84	Collar-mount 25
		
For thread outside diameter 16-20 mm	For thread outside diameter 16-20 mm	For thread outside diameter 21-24 mm

Options for making a safe retrofitted suspension point:

- Chemical anchors
 - Glue in a threaded rod
 - Glue in an internally threaded sleeve
- Rock anchor spreader unit 15.0
- Heavy-duty anchor
- Self-undercutting anchor



Follow the manufacturer's fitting instructions!

Max. reaction forces of the basic system which will occur when the 'Centre-to-centre distance 'a' graph' is used:

$$N_d = 34.5 \text{ kN} \quad (N_k = 23 \text{ kN})$$

$$V_d = 10.5 \text{ kN} \quad (V_k = 7 \text{ kN})$$

Proof must be provided in each individual case for the inward/onward transfer of these reaction forces into the structure.



For more information, please contact your Doka technician.

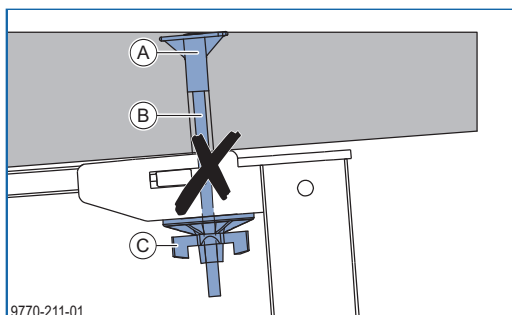


WARNING

Suspension point not constructed in accordance with correct procedure!

Reduced load-bearing capacity and failure of the suspension point.

- Suspension points that rely on friction (e.g. anchorage with bridge edge beam anchor, tie rod and super plate) are not permitted.

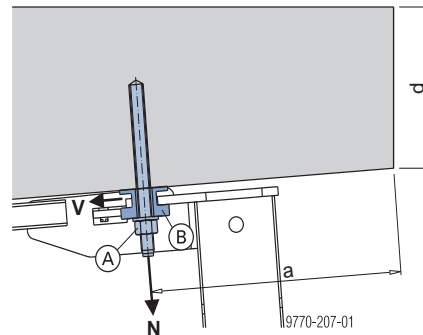


A Bridge edge beam anchor 15.0

B Tie rod 15.0

C Super plate 15.0

Example with chemical anchor



A Chemical anchor

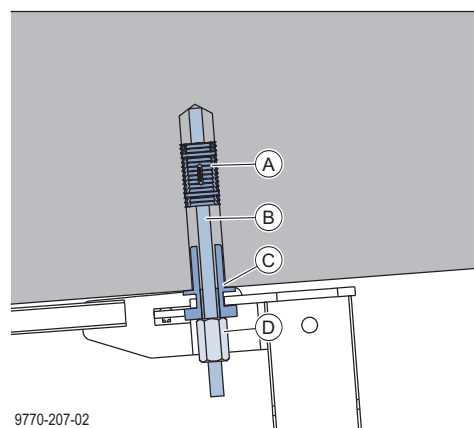
B Collar-mount 21

The manufacturer of the anchorage (e.g. Hilti) has to provide proof of calculation for the suspension point.

It is essential to provide the manufacturer with the following information for this purpose:

- Concrete strength
- a ... distance from edge
- d ... building-element thickness
- N_d ... design value of the anchor tensile load ($\gamma_F = 1.5$)
- V_d ... design value of the shear force ($\gamma_F = 1.5$)

Example with Rock anchor spreader unit 15.0



A Rock anchor spreader unit 15.0

B Tie rod 15.0

C Collar-mount 21/84

D Hexagon nut 15.0



Follow the directions in the 'Rock anchor spreader unit 15.0' Fitting Instructions!



Comply with 'Approval Z-21.6-1850'!

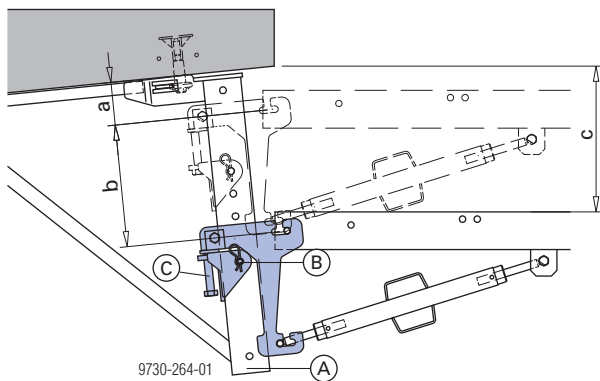
Assembly

Manual erection

Continuous height adjustment on the Bridge edge beam bracket T 0.80m

Tools needed:

- Reversible ratchet 1/2"
 - Box nut 30 1/2"
- 1) Before fitting the Bridge edge beam support T, bolt and secure the integrated slide (B) at roughly the planned height level.
 - 2) Use the adjusting screw (C) to make fine adjustments to the slide so as to position the Bridge edge beam support T at exactly the right level after this has been fitted to the bracket.

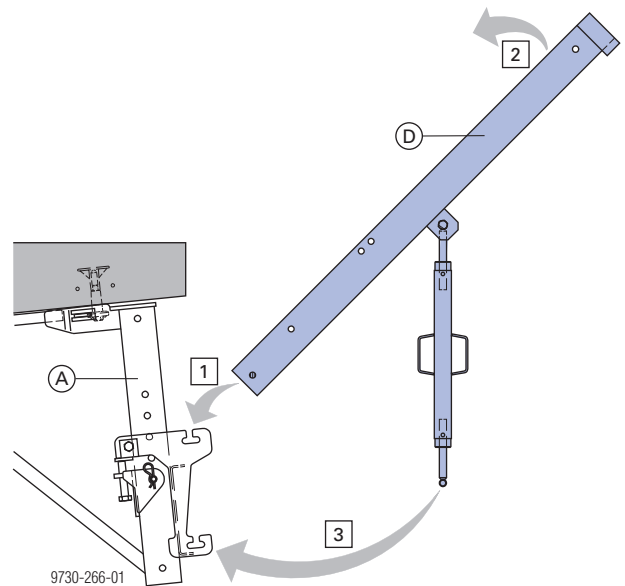


a ... min. 11.4 cm
 b ... Adjusting range 32.3 cm
 c ... min. 7.7, max. 39.8 cm (limit-values for determining the formwork configuration where the cantilever slab has an inclination of 3°)

- A** Bridge edge beam bracket T 0.80m
- B** Integral slide with rough adjustment in 4x6.0 cm hole-grid
- C** Adjusting screw for continuous fine adjustment (width-across 30 mm)

Quick-fix connection between Bridge edge beam support T 1.40m and Bridge edge beam bracket T 0.80m

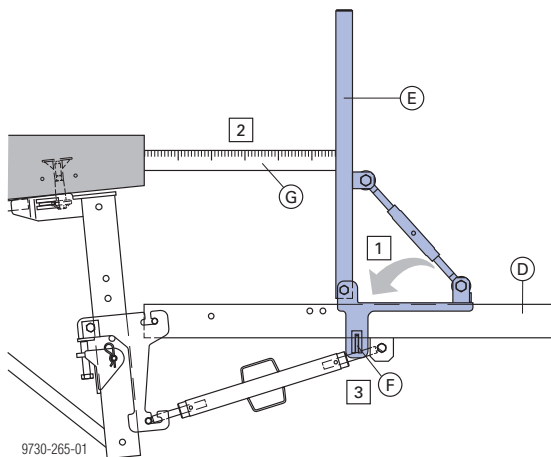
- 1) Insert the bridge edge beam support (D) into the slot at the top of the slide and
- 2) tilt it up so that
- 3) the swivel bolt of the spindle can be inserted into the slot at the bottom of the slide.



Once the bridge edge beam support has been let down and has reached its limit positions, it is securely connected to the bridge edge beam bracket.

Quick connection for Bridge edge beam clamp T 0.40m

- 1) Stand the bridge edge beam clamp (E) on the bridge edge beam support (D).
- 2) Position it the required distance away from the edge of the structure:
Ensure that the vertical tube is set to the correct angle.
Allow for the side-formwork dimension.
- 3) Secure by hammering in the clamping wedge (F). After erecting the formwork and final adjustments have been made (reducing the play - see the section headed [Instructions for assembly and use \(Method statement\)](#)), tighten the clamping wedge (F) until the hammer rebounds from the clamping wedge.

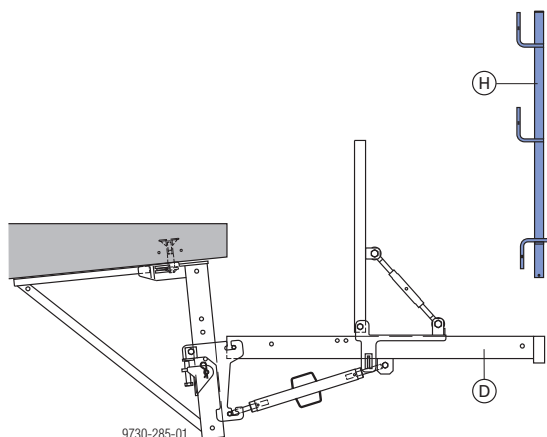


- D Bridge edge beam support T 1.40m
E Bridge edge beam clamp T 0.40m
F Clamping wedge
G Ruler

Handrail post 1.00m

Possible ways of connecting:

- to the Bridge edge beam support T 1.40m
- to the Bridge edge beam support extension T 0.20m (see the section headed [Platforms on wide edge beams](#))
- to the Bridge edge beam waling T 2.70m

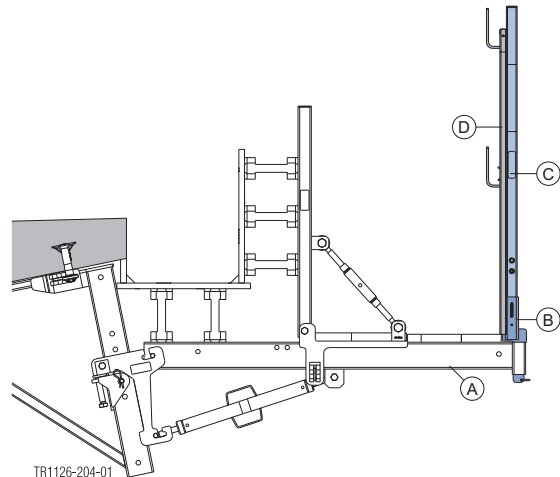


- D Bridge edge beam support T 1.40m
H Handrail post 1.00m

Edge protection system XP

With the Bracket adapter XP FRR 50/30, the Xsafe edge protection XP can be mounted on the following components:

- Bridge edge beam support T 1.40m
- Bridge edge beam support extension T 0.20m (see the section headed [Platforms on wide edge beams](#))
- Bridge edge beam waling T 2.70m



- A Bridge edge beam support T 1.40m
B Bracket adapter XP FRR 50/30
C Handrail post XP 1.20m
D Protective grating XP

Assembly

- Insert the Bracket adapter XP into the corresponding mounting and secure it with a spring cotter so that it cannot lift out.



The hollow section must face toward the formwork.

- Working from below, push the Toeboard holder XP onto the Handrail post XP (not needed when using the Protective grating XP).
- Push the Handrail post XP into the post-holding fixture on the Bracket adapter XP until the locking mechanism engages.



The locking mechanism must engage.

- Fit on a Protective grating XP or guardrail boards, and fix them in place.

Other ways of erecting guard rails

As an alternative to the Handrail post 1.00m, the Handrail post T 1.80m is also available, especially for erecting high safety railings.

This is described in detail in the section headed [Possible ways of using the Handrail post T 1.80m](#).

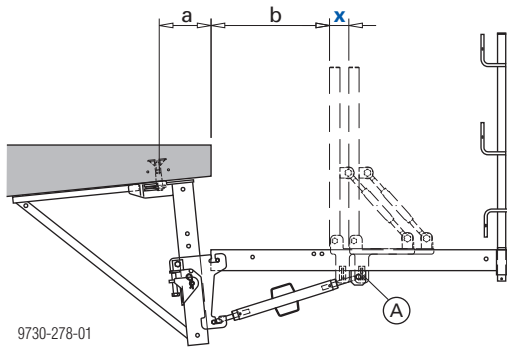
Erecting the formwork



NOTICE

When planning the formwork, allow for the 9.3 cm wide zone **x** in which clamping is not possible.

Because of the spindle connection point, the clamping wedge (**A**) cannot be positioned in this zone.



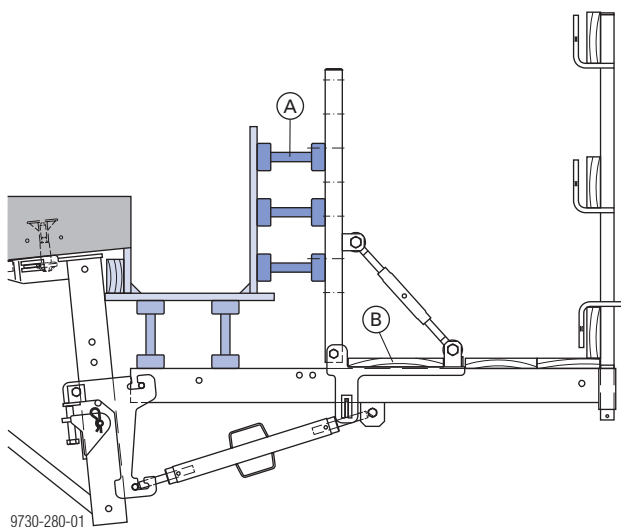
a ... 25 cm
b ... max. 57 cm
x ... 9.3 cm

Side-formwork with "upright" Doka beams

The formwork configuration can be exactly tailored to the requirements encountered on the site.

The use of upright Doka H20 beams has proved particularly effective. The beams can easily be overlapped, giving great flexibility in terms of formwork erection. The side formwork can also be pre-assembled and repositioned in one piece.

The ready-drilled holes in the bridge edge beam clamp make it possible to fasten the beams with e.g. square bolts M10x110 (not included with product).



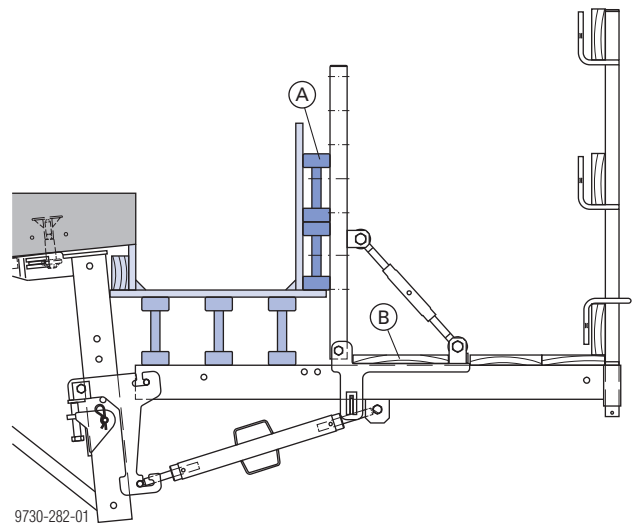
A Upright Doka beam H20
B Plank width max. 28 cm

Side-formwork with "flat" Doka beams

Note:

- The Doka beams H20 of the side-formwork must be statically verified! Where necessary, use them stood upright (i.e. loaded in the 'strong' direction)!
- The beams cannot be overlapped here. However, the formwork can also be pre-assembled and repositioned in one piece.

The ready-drilled holes in the bridge edge beam clamp allow the beams to be fastened using e.g. M10x110 square headed bolts (not included with product).

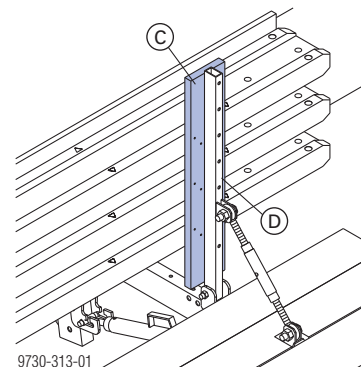


A Flat-placed Doka beam H20
B Plank width max. 28 cm



Tried-and-tested beam fixing method using nailing board:

- Screw the nailing board (**C**) onto the bridge edge beam clamp (**D**). The Doka beams can be fixed in any position on the nailing board.



- Always attach triangular ledges to the side-formwork.

Additional areas of use

Platforms on wide edge beams

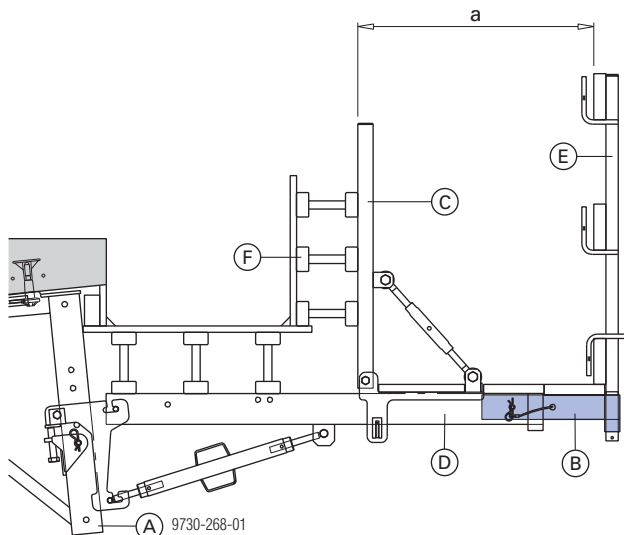
Widening the platform

A minimum distance **a** is stipulated between the outer edge of the formwork and the sideguard railings in situations where the top of the sideguard is less than 1.0 m above the outer edge of the formwork.

In order to comply with these regulations in the case of **wide edge beams**, either of the following 2 methods can be used:

- widening the Bridge edge beam support T 1.40m by adding a **Bridge edge beam support extension T 0.20m**.
- using the **Handrail post T 1.80m** to widen the Bridge edge beam support T 1.40m.

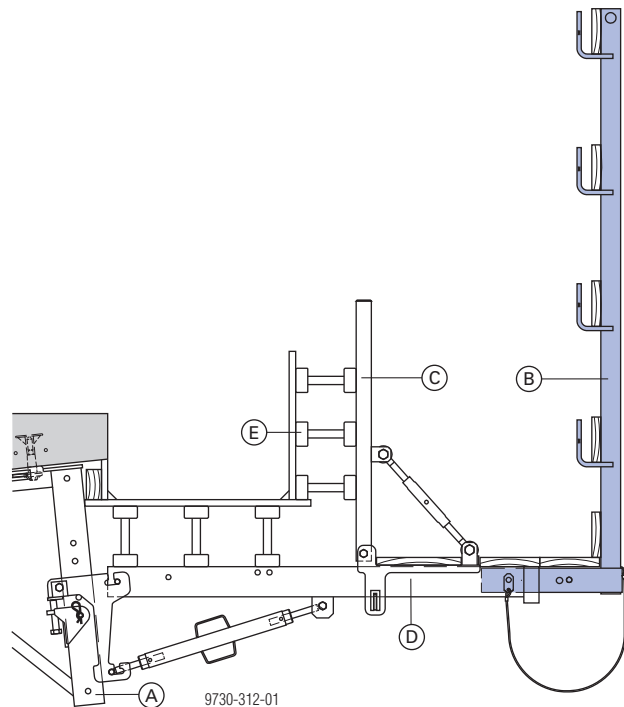
with Bridge edge beam support extension T 0.20m



a ... min. 60 cm

- A** Bridge edge beam bracket T 0.80m
- B** Bridge edge beam support extension T 0.20m
- C** Bridge edge beam clamp T 0.40m
- D** Bridge edge beam support T 1.40m
- E** Handrail post 1.00m
- F** Doka beam H20

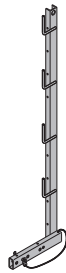
with Handrail post T 1.80m



- A** Bridge edge beam bracket T 0.80m
- B** Handrail post T 1.80m (extended)
- C** Bridge edge beam clamp T 0.40m
- D** Bridge edge beam support T 1.40m
- E** Doka beam H20

Possible ways of using the Handrail post T 1.80m

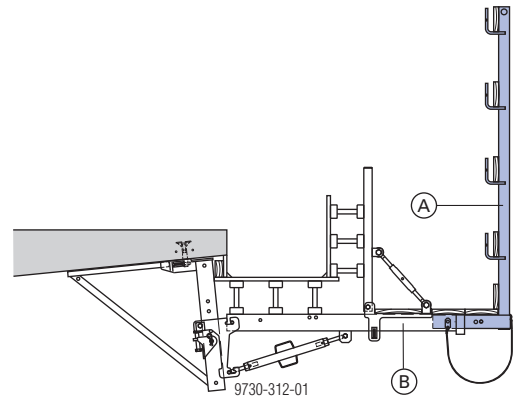
General



The Handrail post T 1.80m is ideal for constructing handrails up to 1.80 m high. It is highly versatile, with standard connections to many Doka products including:

- Bridge edge beam support 1.40m
- Bridge edge beam waling T 2.70m
- Bridge edge beam bracket T 0.80m
- Multi-purpose waling WS10 Top50
- Doka beam H20

with the Bridge edge beam support T 1.40m



A Handrail post T 1.80m

B Bridge edge beam support T 1.40m

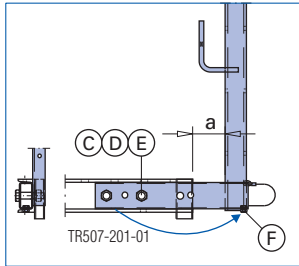
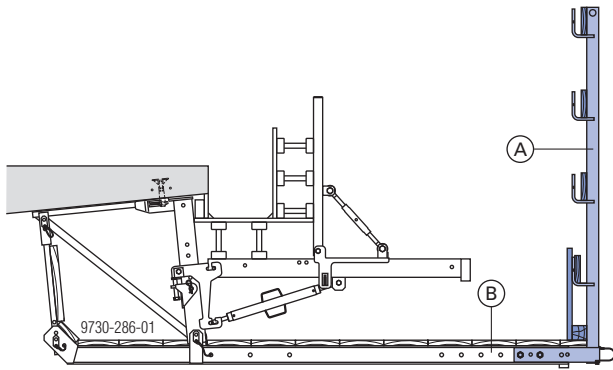
Handrail post T 1.80m

Pushed in	Extended
a ... 0.5 cm	a ... 20.5 cm
Details shown without platform planking and guard-rail boards	

C Connecting pin 110 (included with product)

D Screw for facilitating mounting (included with product - width-across 17 mm)

with the Bridge edge beam platform T 2.70m

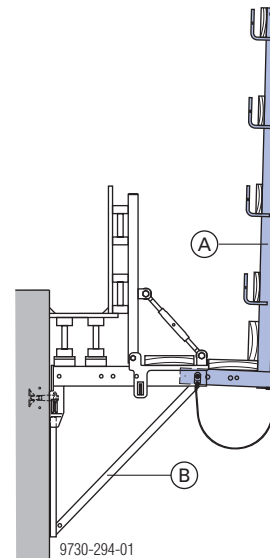


a ... 9.9 cm

Details shown without platform planking

- A** Handrail post T 1.80m
- B** Bridge edge beam platform T 2.70m
- C** Hexagon screw M20x70 (not included with product)
- D** Hexagon nut M20 (not included with product)
- E** Washer 21 (not included with product)
- F** In this application, put the bolt into the "parking position" (bolt is included with product - width-across 17 mm)

with Bridge edge beam bracket T 0.80m



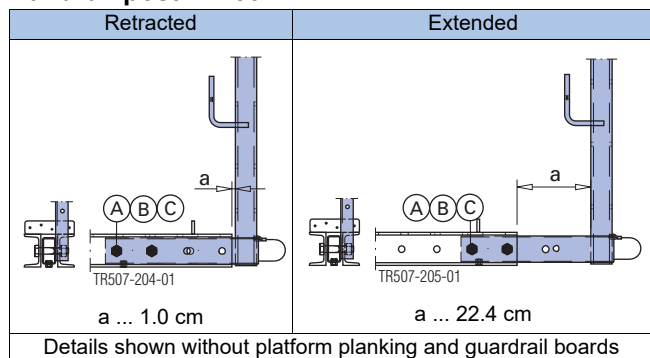
A Handrail post T 1.80m (note slightly slanted position)

B Bridge edge beam bracket T 0.80m

Handrail post T 1.80m

Pushed in	Extended
a ... 6.1 cm	a ... 26.2 cm
Details shown without platform planking and guard-rail boards	

- C** Connecting pin 110 (included with product)
- D** Screw for facilitating mounting in the "parking position" (included with product - width-across 17 mm)

with Multi-purpose waling **WS10 Top50****Handrail post T 1.80m****A** Hexagon bolt M20x90 (not included with product)**B** Hexagon nut M20 (not included with product)**C** Washer 21 (not included with product)**Note:**

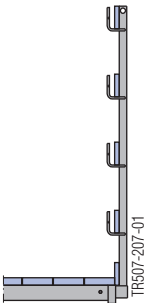
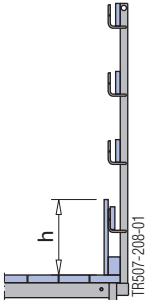
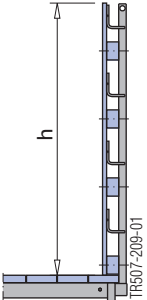
An alternative fixing method is with Connecting pins 10cm + Spring cotters 5mm.

Structural design

The table below applies to installations with:

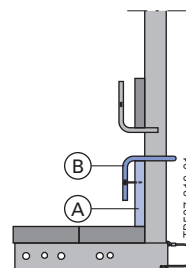
- Bridge edge beam support 1.40m
- Bridge edge beam waling T 2.70m
- Bridge edge beam bracket T 0.80m
- Multi-purpose waling WS10 Top50

Permitted influence widths for different sideguard configurations

Guard-rail board [cm]	Height above ground					
	up to 20 m	20-100 m	up to 20 m	20-100 m	up to 20 m	20-100 m
15/3	2.00 m	1.80 m	2.00 m	1.60 m	1.00 m	0.80 m
15/4	2.50 m	1.80 m	2.25 m	1.60 m		
						
	h ... 0.50 m		h ... 1.80 m		h ... 1.80 m	

Accessory

Where needed, a **Toeboard holder T 1.80 m (B)** can be used for quick fixing of the toeboard (**A**) .



Platforms on bridges over traffic routes

with the Bridge edge beam platform T 2.70m

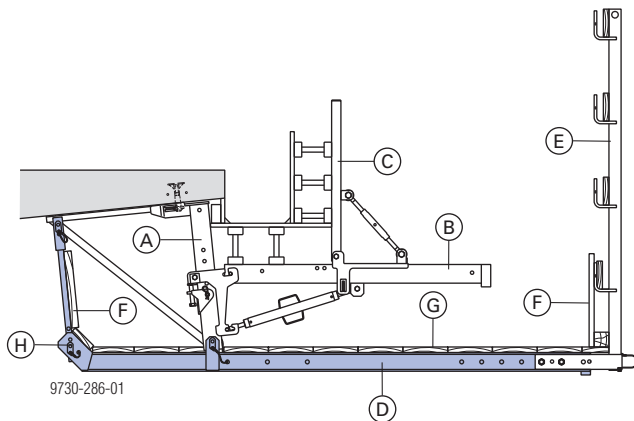
If bridge edge beam formwork is erected above public transportation routes (roads, waterways, railways) then an enclosed platform (protective canopy) will also be required, to prevent any objects dropping onto the route beneath.

The Bridge edge beam waling T 2.70m (**D**) is available for this purpose.

Rough angle adjustment is possible by means of a hole grid (**H**) .

Note:

First mount the Bridge edge beam waling T 2.70m (**D**) ,and only then hang the Bridge edge beam support T 1.40m (**B**) into place.



A Bridge edge beam bracket T 0.80m

B Bridge edge beam support T 1.40m

C Bridge edge beam clamp T 0.40m

D Bridge edge beam waling T 2.70m

E Handrail post T 1.80m

F Skirting board, as per regulation

G Tightly laid floor decking

H Hole grid



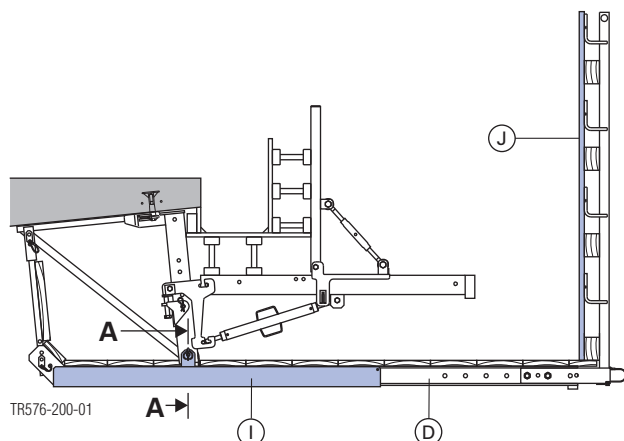
The Bridge edge beam waling T 2.70m is also recommended for use in demolition work.

Additional precautions needed for solid (i.e. gap-free) boarding

The rules may require solid (i.e. gap-free) boarding to be fitted to the Handrail posts T – on bridges over railway lines, for example.

The wind forces which are likely to occur (peak velocity pressure), or other extra loads, may make it necessary to use the **Support beam T**.

These must be dimensioned on a project-specific basis.

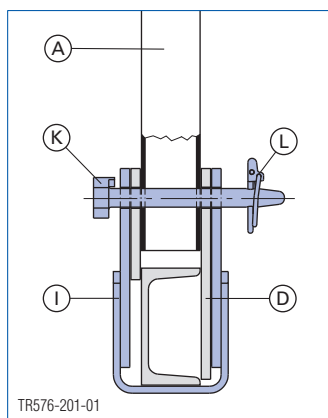


D Bridge edge beam waling T 2.70m

I Support beam T

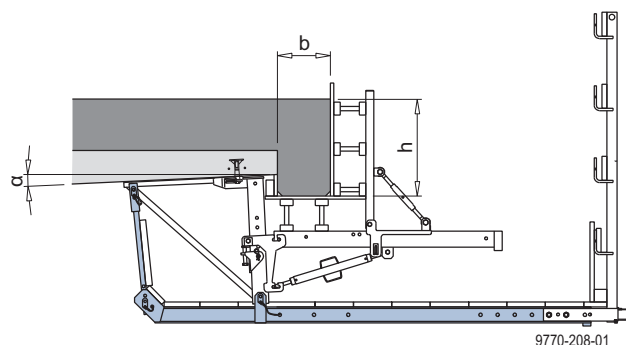
J Solid boarding

Section A-A



- Use the pin (**K**) to join the Support beam T (**I**) to the Bridge edge beam waling T 2.70m (**D**) and the Bridge edge beam bracket T (**A**). Secure with a linch pin (**L**).

Structural design



$\alpha \dots 3^\circ$

Max. live load on platform	1.00 kN/m ²	1.50 kN/m ²
Live load on platform during pouring	0.75 kN/m ²	
W x H	N _d = 34.5 kN (N _k = 23.0 kN) V _d = 10.5 kN (V _k = 7.0 kN)	
	Without support beam	With support beam
	Permissible influences (Effect of continuous beams is allowed for!)	
30 x 45 cm	0.80 m	1.30 m
35 x 50 cm	0.80 m	1.30 m
40 x 60 cm	0.80 m	1.07 m
45 x 70 cm	0.80 m	0.85 m
40 x 80 cm	0.70 m	0.70 m



NOTICE

- Max. width of guardrail boards 15cm. Where larger areas are exposed to wind, influence widths will be reduced.
- A working wind of 0.2 kN/m² (64 km/h) is considered.
- Max. wind pressure $w_e = 1.04 \text{ kN/m}^2$



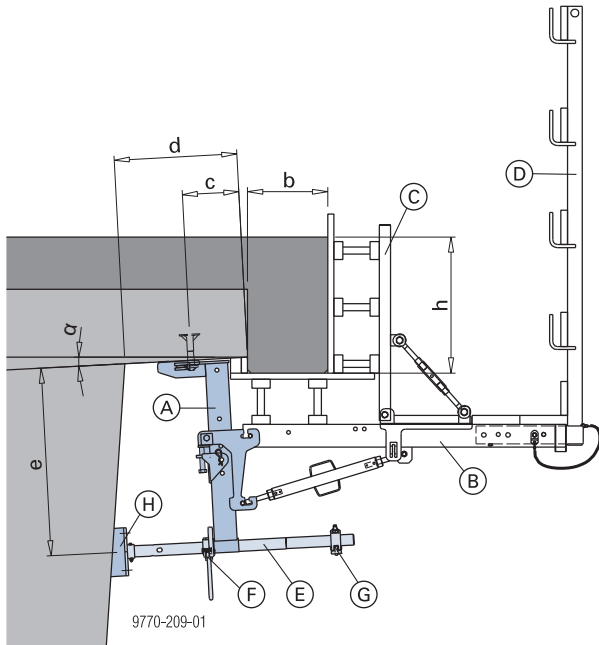
For other applications follow the directions in the section headed 'Extended system' in the type test for 'Bridge edge beam formwork T'.

Other possible areas of use

Short cantilever-arm lengths

Where the cantilever-arm lengths are shorter than 95 cm, the Bracket support T is combined with the following parts:

- Heavy-duty screw jack 70
- e.g. Split nut B



- a ... 3°
c ... 25 cm
d ... min. 40 cm - 95 cm
e ... 83.0 cm

- A** Bracket support T
B Bridge edge beam support T 1.40m
C Bridge edge beam clamp T 0.40m
D Handrail post 1.00m or Handrail post T 1.80m
E Heavy-duty screw jack 70 (art. n° 582639000)
F Split nut (art. n° 582634000)
G e.g. Screw-on coupler 48mm 50 as anti-dropout safeguard
H e.g. wedged timber for angle adjustment



NOTICE

Arrange the bracing for the heavy-duty screw jacks as statically required.

Note:

The Screw jack foot (art. n° 582637000) can be substituted for items **(E)** and **(F)**.

Structural design

Max. live load on platform	1.50 kN/m ²	
Live load on platform during pouring	1.50 kN/m ²	0.75 kN/m ²
W x H	N _d = 19.5 kN (N _k = 13.0 kN) V _d = 24.0 kN (V _k = 16.0 kN)	
	Permissible influences (Effect of continuous beams is allowed for!)	
30 x 45 cm	1.40 m	1.70 m
35 x 50 cm	1.25 m	1.40 m
40 x 60 cm	0.95 m	1.05 m
45 x 70 cm	0.75 m	0.80 m
40 x 80 cm	0.60 m	0.65 m



NOTICE

- Max. width of guardrail boards 15cm. Where larger areas are exposed to wind, influence widths will be reduced.
- A working wind of 0.2 kN/m² (64 km/h) is considered.
- Max. wind pressure w_e = 1.04 kN/m²



For other applications follow the directions in the section headed 'Extended system' in the type test for 'Bridge edge beam formwork T'.

Abutments

Variant 1 bridge edge beam clamp located directly on bridge edge beam bracket

For smaller cantilevering projections **b** of up to **approx. 28 cm**.

For this, the integral slide of the bridge edge beam bracket must be dismantled first.

To facilitate plumbing and striking of the formwork, the bottom formwork beams are placed on hardwood wedges (lift-out distance of bracket).

Max. shear force:

$$V_d = 18 \text{ kN} \quad (V_k = 12 \text{ kN})$$

Max. axial force:

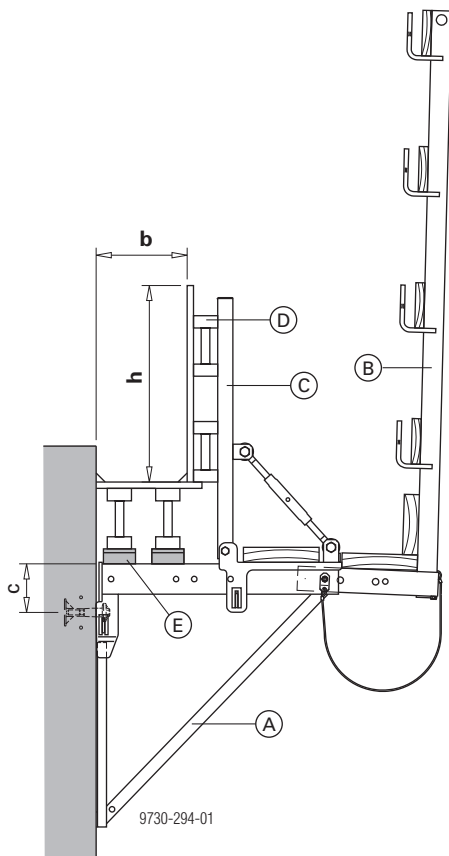
$$N_d = 28.5 \text{ kN} \quad (N_k = 19 \text{ kN})$$

For determining the influence widths, see the graph in the section headed [Basic system](#).



NOTICE

Allow a lift-out distance of min. 5.2 cm for dismantling the Bridge edge beam bracket T 0.80m!



c ... 16.0 cm

b ... Cantilever 0 - 28 cm (applies only where the side-formwork beams are in the positions shown)

A Bridge edge beam bracket T 0.80m (slide dismantled)

B Handrail post 1.00m in conjunction with Bridge edge beam support extension T 0.20m or Handrail post T 1.80m

C Bridge edge beam clamp T 0.40m

D Doka beam H20

E Hardwood wedges

Variant 2 bridge edge beam clamp located on bridge edge beam support

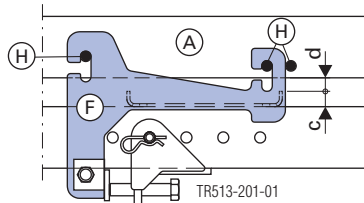
For larger cantilevering projections **d up to approx. 60 cm.**

The Bridge edge beam clamp T 0.40m sits directly on the Bridge edge beam support T 1.40m. The bridge edge beam support sits on the built-in slide of the bridge edge beam bracket and is fixed with timber wedges.

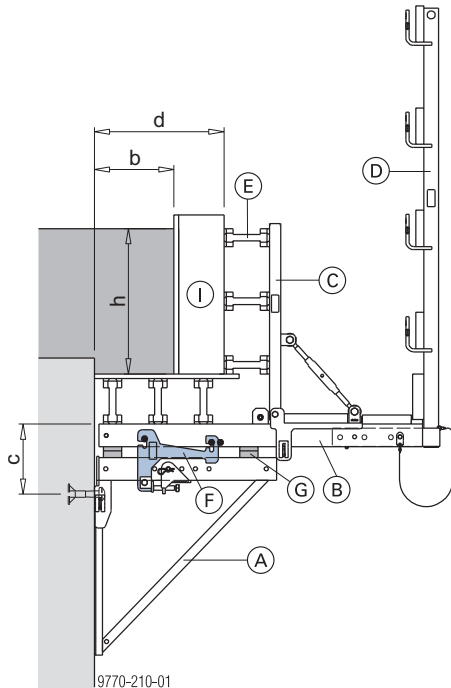


NOTICE

This function is only possible on slides **made from 1999 onwards (dimension c = 25 mm).** Previous version c = 40 mm.



d ... stripping play (lowering distance) 22 mm



c ... 30.7 cm

d ... cantilever 55.0 - 60.0 cm (applies only where the side-formwork beams are in the positions shown)

- A** Bridge edge beam bracket T 0.80m
- B** Bridge edge beam support T 1.40m
- C** Bridge edge beam clamp T 0.40m
- D** Handrail post 1.00m or Handrail post T 1.80m
- E** Doka beam H20
- F** Integral slide
- G** Hardwood wedges
- H** 3 hexagon bolts M16x90 with self-locking nuts - width across flats 24 mm (not included in scope of supply)
- I** Double thickness

Structural design

Max. live load on platform	1.50 kN/m ²	
Live load on platform during pouring	1.50 kN/m ²	0.75 kN/m ²
W x H	N _d = 28.5 kN (N _k = 19.0 kN) V _d = 18.0 kN (V _k = 12.0 kN)	
	Permissible influences (Effect of continuous beams is allowed for!)	
30 x 45 cm	1.80 m	2.00 m
35 x 50 cm	1.55 m	1.70 m
40 x 60 cm	1.15 m	1.25 m
45 x 70 cm	0.85 m	0.90 m
40 x 80 cm	0.65 m	0.70 m



NOTICE

- Max. width of guardrail boards 15cm. Where larger areas are exposed to wind, influence widths will be reduced.
- A working wind of 0.2 kN/m² (64 km/h) is considered.
- Max. wind pressure w_e = 1.04 kN/m²

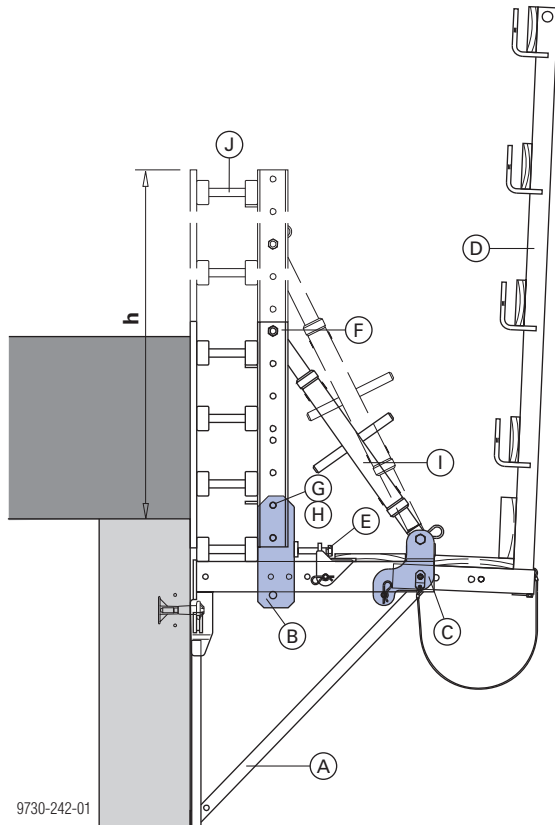


For other applications follow the directions in the section headed 'Extended system' in the type test for 'Bridge edge beam formwork T'.

Edge shuttering

In conjunction with other standard Doka parts, the Bridge edge beam bracket T is an economical way of forming slab stop-ends up to a height of 1.20 m.

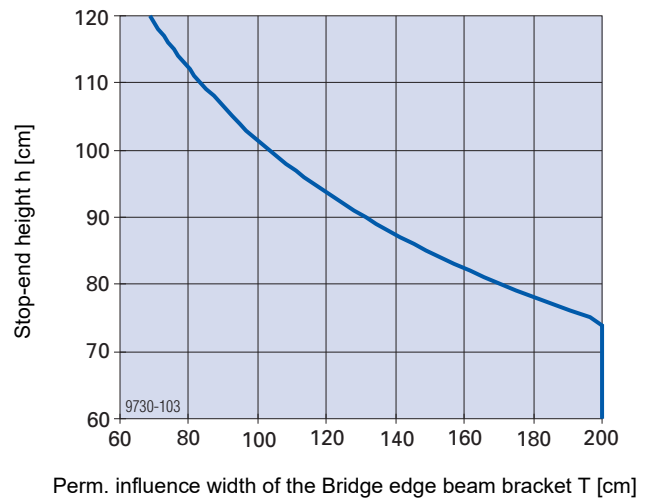
Max. tensile force:
 $N_d = 34.5 \text{ kN}$ ($N_k = 23 \text{ kN}$)



h ... stop-end height max. 120 cm

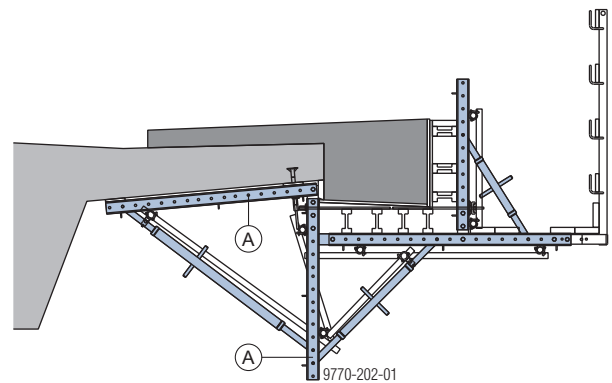
- A** Bridge edge beam bracket T 0.80m
- B** Waling connecting plate T
- C** Spindle connecting plate T
- D** Handrail post 1.00m or
Handrail post T 1.80m
- E** Adjusting screw for continuous fine adjustment
(must be modified for load transfer)
- F** Multi-purpose waling WS10 Top50
- G** Connecting pin 10cm
- H** Spring cotter 5mm
- I** Spindle strut T6 73/110cm
- J** Doka beam H20

Dimensioning graph for anchorage centres



Edge kerbs with large cross-sections

For wide edge kerbs, special brackets can be constructed using Multi-purpose walings WS10.



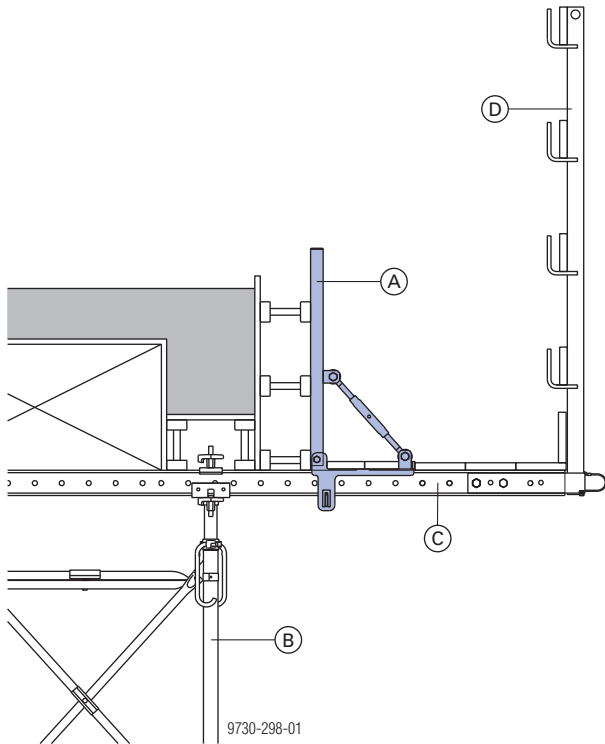
A Multi-purpose waling WS10 Top50



For more information, please contact your Doka technician.

Bridge edge beam clamp on Doka multi-purpose waling WS10 Top50

The bridge edge beam clamp is designed for a profile size of 100x50 mm. This enables additional use on any Doka multi-purpose waling WS10 or similar walings.



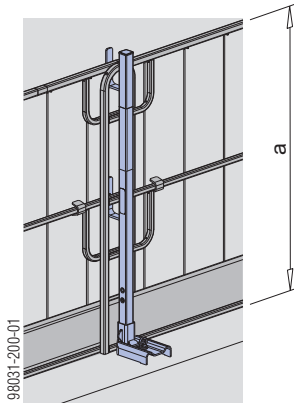
- A** Bridge edge beam clamp T 0.40m
- B** Aluxo or Staxo edge-table shoring
- C** Multi-purpose waling WS10 Top50
- D** Handrail post T 1.80m or Handrail post 1.50m

General

Fall protection on the structure

Xsafe edge protection XP

- Attached with screw-on shoe, railing clamp, hand-rail-post shoe or Step bracket XP
- Protective grating XP, guardrail boards or scaffold tubes can be used as the safety barrier



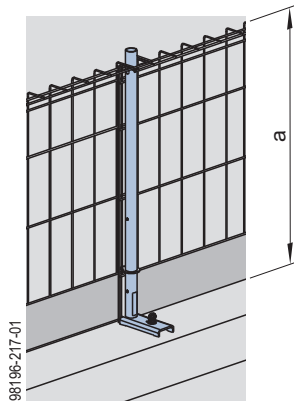
a ... > 1.00 m



Follow the directions in the 'Xsafe edge protection XP' User Information booklet.

Xsafe edge protection Z

- Attachment by integral screw-on shoe
- Protective barrier Z can be used as the safety barrier



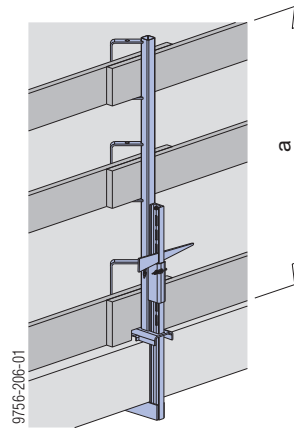
a ... > 1.17 m



Follow the directions in the 'Xsafe edge protection Z' User Information booklet.

Handrail clamp S

- Attached with integral clamp
- Guard-rail boards or scaffold tubes can be used as the safety barrier



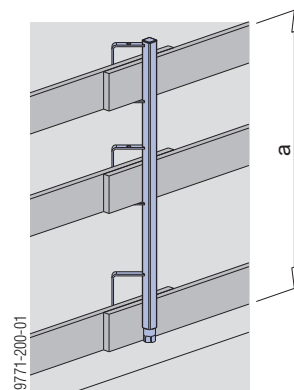
a ... > 1.00 m



Follow the directions in the "Handrail clamp S" User information!

Handrail post 1.10m

- Fixed in a Screw sleeve 20.0 or Attachable sleeve 24mm
- Guard-rail boards or scaffold tubes can be used as the safety barrier



a ... > 1.00 m



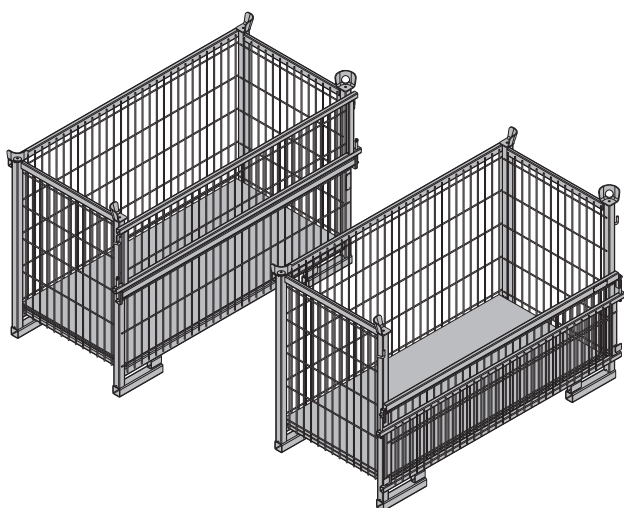
Follow the directions in the 'Handrail post 1.10m' User Information!

Transporting, stacking and storing

Utilise the benefits of Doka multi-trip packaging on your site.

Multi-trip packaging such as containers, stacking pallets and skeleton transport boxes keep everything in place on the site, minimise time wasted searching for parts, and streamline the storage and transport of system components, small items and accessories.

Doka skeleton transport box 1.70x0.80m



Storage and transport device for small items. To make the Doka skeleton transport box easier to load and unload, one of its sidewalls can be opened.

Permitted load-bearing capacity: 700 kg (1540 lbs)
Permitted imposed stacking load: 3150 kg (6950 lbs)

Using Doka skeleton transport boxes 1.70x0.80m 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	5
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.

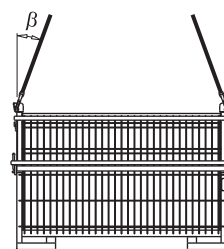
Using Doka skeleton transport boxes 1.70x0.80m as transport devices

Lifting by crane



NOTICE

- Multi-trip packaging items must be lifted individually.
- Only lift the boxes when their sidewalls are closed!
- Use suitable lifting chains:
 - e.g. Doka 4-part chain 3.20m
 - Do not exceed the permitted working load limit of the lifting chains.
- Sling angle β max. 30°!



9234-203-01

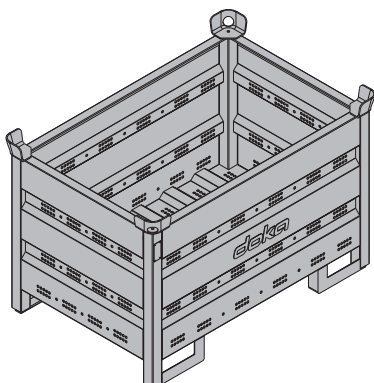
Repositioning by forklift truck or pallet stacking truck

The forks can be inserted under either the broadside or the narrow side of the containers.

Doka multi-trip transport box

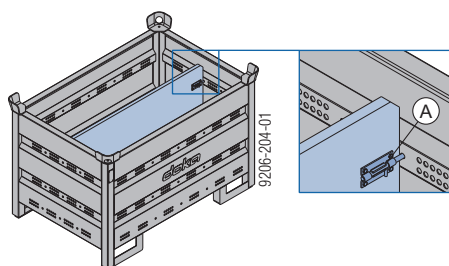
Storage and transport device for small items

Doka multi-trip transport box 1.20x0.80m



Permitted load-bearing capacity: 1500 kg (3300 lbs)
Permitted imposed stacking load: 7850 kg (17300 lbs)

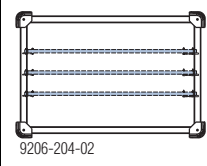
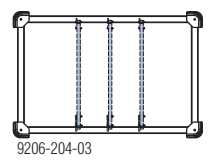
Different items in the Doka multi-trip transport box can be kept separate with the **Multi-trip transport box partitions 1.20m or 0.80m**.



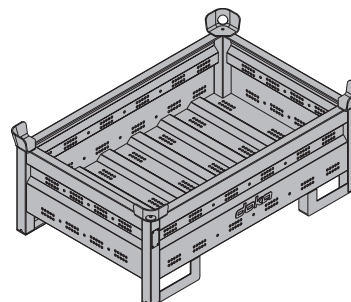
A Slide-bolt for fixing the partition

Possible ways of dividing the box

Multi-trip transport box partition	in the longitudinal direction	in the transverse direction
1.20m	max. 3	-
0.80m	-	max. 3

	
---	---

Doka multi-trip transport box 1.20x0.80mx0.41m



Permitted load-bearing capacity: 750 kg (1650 lbs)
Permitted imposed stacking load: 7200 kg (15870 lbs)

Using Doka multi-trip transport boxes as storage units

Max. n° of units on top of one another

Outdoors (on the site)		Indoors	
Floor gradients up to 3%		Floor gradients up to 1%	
Doka multi-trip transport box 1.20x0.80m	Doka multi-trip transport box 1.20x0.80x0.41m	Doka multi-trip transport box 1.20x0.80m	Doka multi-trip transport box 1.20x0.80x0.41m
3	5	6	10
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.

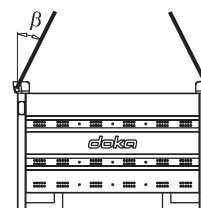
Using Doka multi-trip transport boxes as transport devices

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.
- Sling angle β max. 30°!



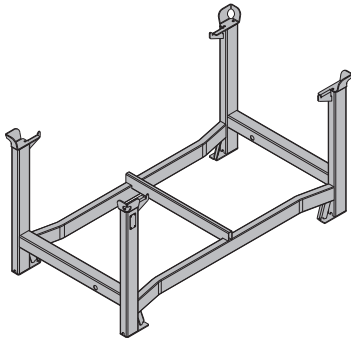
9206-202-01

Repositioning by forklift truck or pallet stacking truck

The forks can be inserted under either the broadside or the narrowside of the containers.

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.

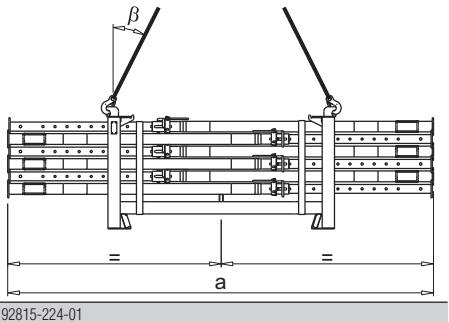
Using Doka stacking pallets as transport devices

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

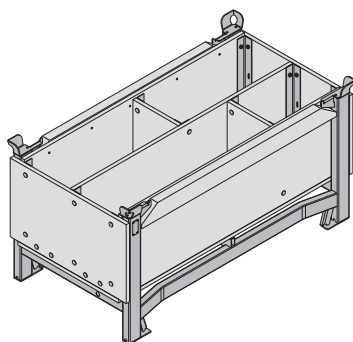


NOTICE

- 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.

Doka accessory box

Storage and transport device for small items.



Permitted load-bearing capacity: 1000 kg (2200 lbs)
Permitted imposed stacking load: 5530 kg (12190 lbs)

Doka accessory boxes 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%
3	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 caster set mounted to it.

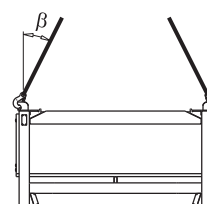
Doka accessory box as transport devices

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.
- When lifting units to which Bolt-on castor sets B have been attached, you must also follow the directions in the 'Bolt-on castor set B' User information booklet!
- Sling angle β max. 30°!



92816-206-01

Repositioning by forklift truck or pallet stacking truck

The forks can be inserted under either the broadside or the narrowside of the containers.

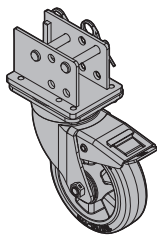
Universal castor wheel for transport pallet

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

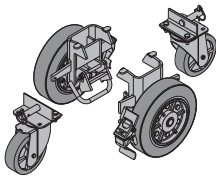


Follow the directions in the 'Universal castor wheel for transport pallet' User Information booklet.



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.

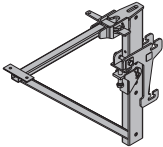
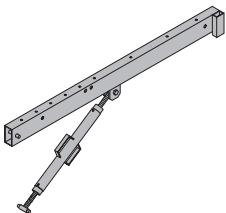
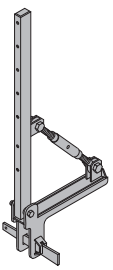
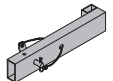
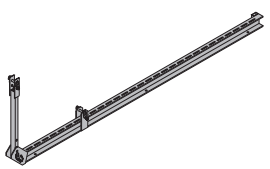
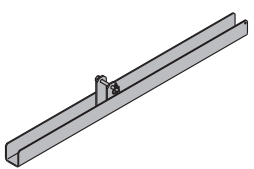
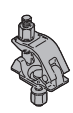
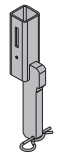
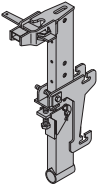


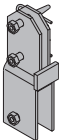
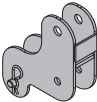
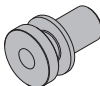
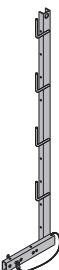
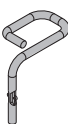
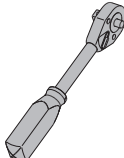
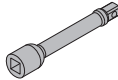
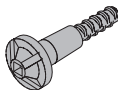
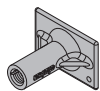
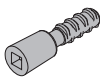
The Bolt-on castor set B can be mounted to the following multi-trip packaging items:

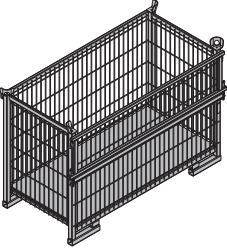
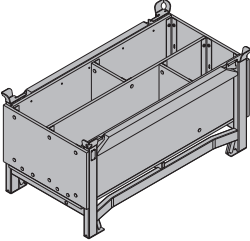
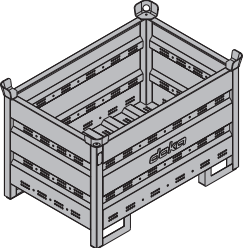
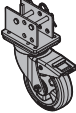
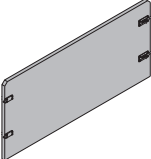
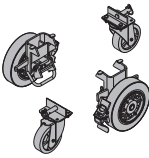
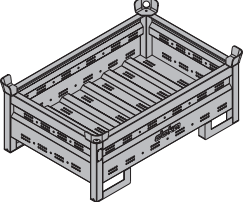
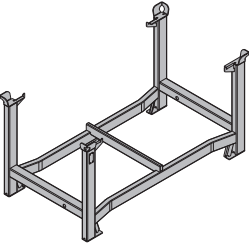
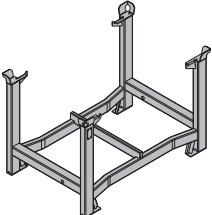
- Doka accessory box
- Doka stacking pallets
- Protective barrier Z pallets



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

	[kg]	Article N°		[kg]	Article N°
Bridge edge beam bracket T 0.80m Gesimskonsolle T 0,80m  Galvanised Length: 99 cm Height: 80 cm	22.0	584330000	Handrail post XP 1.20m Geländersteher XP 1,20m  Galvanised Height: 118 cm	4.1	586460000
Bridge edge beam support T 1.40m Gesimsträger T 1,40m  Galvanised Delivery condition: folded closed	15.8	584331000	Toeboard holder XP 1.20m Fußwehrhalter XP 1,20m  Galvanised Height: 21 cm	0.64	586461000
Bridge edge beam clamp T 0.40m Gesimszwinde T 0,40m  Galvanised Height: 104 cm	10.1	584332000	Handrail post 1.00m Geländer 1,00m  Galvanised Length: 124 cm	3.8	584335000
Bridge edge beam support extension T 0.20m Einschubträger T 0,20m  Galvanised Length: 45 cm	2.9	584333000	Scaffold tube 48.3mm 0.50m Scaffold tube 48.3mm 1.00m Scaffold tube 48.3mm 1.50m Scaffold tube 48.3mm 2.00m Scaffold tube 48.3mm 2.50m Scaffold tube 48.3mm 3.00m Scaffold tube 48.3mm 3.50m Scaffold tube 48.3mm 4.00m Scaffold tube 48.3mm 4.50m Scaffold tube 48.3mm 5.00m Scaffold tube 48.3mm 5.50m Scaffold tube 48.3mm 6.00m Scaffold tube 48.3mmm Gerüstrohr 48,3mm  Galvanised	1.7 3.6 5.4 7.2 8.4 10.8 12.6 14.4 16.2 18.0 19.8 21.6 3.6	682026000 682014000 682015000 682016000 682017000 682018000 682019000 682021000 682022000 682023000 682024000 682025000 682001000
Bridge edge beam waling T 2.70m Gesimsbühne T 2,70m  Galvanised Length: 285 cm Delivery condition: separate parts	35.5	584334000	Scaffold tube connection Gerüstrohranschluss  Galvanised Height: 7 cm	0.27	584375000
Support beam T Verstärkungsträger T  Galvanised Length: 170 cm	24.4	584382000	Screw-on coupler 48mm 50 Anschraubkupplung 48mm 50  Galvanised Width-across: 22 mm	0.8	682002000
Bracket adapter XP FRR 50/30 Konsolenadapter XP FRR 50/30  Galvanised Height: 32 cm	2.4	586486000	Bracket support T Konsolträger T  Galvanised Width: 44 cm Height: 85 cm	17.5	584372000

	[kg]	Article N°		[kg]	Article N°
Waling connecting plate T Riegellaste T  Galvanised Width: 12 cm Height: 37 cm	5.5	584370000	Screw sleeve 20.0 Schraubhülse 20,0  PP Yellow Length: 20 cm Diameter: 3.1 cm	0.03	584386000
Spindle connecting plate T Spindellaste T  Galvanised Width: 20 cm Height: 25 cm	3.1	584371000	Collar-mount 21/84 Gesimshülse 21/84  Galvanised	0.66	584860000
Handrail post T 1.80m Einschubgeländer T 1,80m  Galvanised	17.7	584373000	Collar-mount 21 Collar-mount 25 Gesimshülse  Galvanised Diameter: 6 cm	0.39 0.36	584365000 584364000
Toeboard holder T 1.80m Fußwehrhalter T 1,80m  Galvanised Height: 13.5 cm	0.53	584392000	Reversible ratchet 1/2" Umschaltknarre 1/2"  Galvanised	0.73	580580000
Handrail clamp S Schutzgeländerzwinge S  Galvanised Height: 123 - 171 cm	11.5	580470000	Extension 11cm 1/2" Verlängerung 11cm 1/2" 	0.2	580581000
Handrail post 1.10m Schutzgeländer 1,10m  Galvanised Height: 134 cm	5.5	584384000	Box nut 30 1/2" Stecknuss 30 1/2" 	0.2	580575000
Attachable sleeve 24mm Steckhülse 24mm  PVC PE Grey Length: 16.5 cm Diameter: 2.7 cm	0.03	584385000	Screw-in cone 15.0 Einschraubkonus 15,0  Galvanised Length: 15 cm	0.74	581895000
			Bridge edge beam anchor 15.0 Bridge edge beam anchor 15.0 galv. Gesimsanker 15,0  Length: 7 cm	0.45 0.44	581896000 581890000
			Nailing cone 15.0 Nagelkonus 15,0  Black Length: 7 cm	0.02	581897000
			Hole plug 29mm Gesimsankerstopfen 29mm  PE Grey Diameter: 3 cm	0.003	581891000
			Zinc plug 15.0 Zinkstöpsel 15,0  Galvanised Length: 9.9 cm Diameter: 2.9 cm	0.2	581889000

	[kg]	Article N°		[kg]	Article N°
Multi-trip packaging					
Doka skeleton transport box 1.70x0.80m Doka-Gitterbox 1,70x0,80m  Galvanised Height: 113 cm	87.0	583012000	Doka accessory box Doka-Kleinteilebox  Timber parts varnished yellow Steel parts galvanised Length: 154 cm Width: 83 cm Height: 77 cm	106.4	583010000
Doka multi-trip transport box 1.20x0.80m Doka-Mehrwegcontainer 1,20x0,80m  Galvanised Height: 78 cm	70.0	583011000	Universal castor wheel for transport pallet Universal-Lenkrolle Transportgebinde  Galvanised Height: 28.8 cm	6.0	584043000
Multi-trip transport box partition 0.80m Multi-trip transport box partition 1.20m Mehrwegcontainer Unterteilung  Steel parts galvanised Timber parts varnished yellow	3.7 5.5	583018000 583017000	Bolt-on castor set B Anklemm-Radsatz B  Painted blue	33.6	586168000
Doka multi-trip transport box 1.20x0.80x0.41m Doka-Mehrwegcontainer 1,20x0,80x0,41m  Galvanised	42.5	583009000			
Doka stacking pallet 1.55x0.85m Doka-Stapelpalette 1,55x0,85m  Galvanised Height: 77 cm	41.0	586151000			
Doka stacking pallet 1.20x0.80m Doka-Stapelpalette 1,20x0,80m  Galvanised Height: 77 cm	38.0	583016000			



Formwork & Scaffolding.
We make it work.



www.doka.com/bridge-edge-beam-formwork-t