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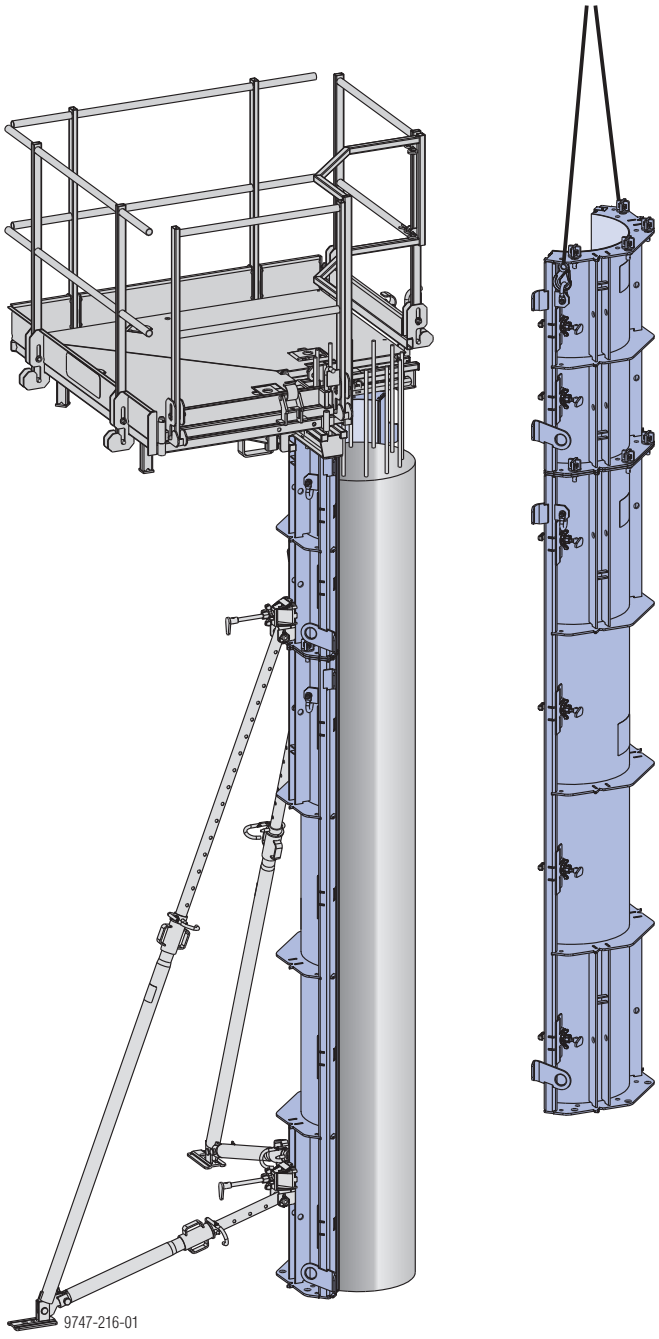
Formwork & Scaffolding.
We make it work.

Column formwork RS

User Information

Instructions for assembly and use (Method statement)



Contents

Introduction

Elementary safety warnings

User target groups

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

Hazard assessment

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

Remarks on this booklet

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

Planning

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

Regulations; industrial safety

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

Rules applying during all phases of the assignment

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

Assembly

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

Closing the formwork

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

Pouring

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

Stripping the formwork

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

Transporting, stacking and storing

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

Maintenance

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

Miscellaneous

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

Eurocodes at Doka

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

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

Allowance has been made for the following partial factors:

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

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

Symbols used

The following symbols are used in this document:

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

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

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

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

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

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

Tip
Points out useful practical tips.

Reference
Cross-references other documents.

Intended use

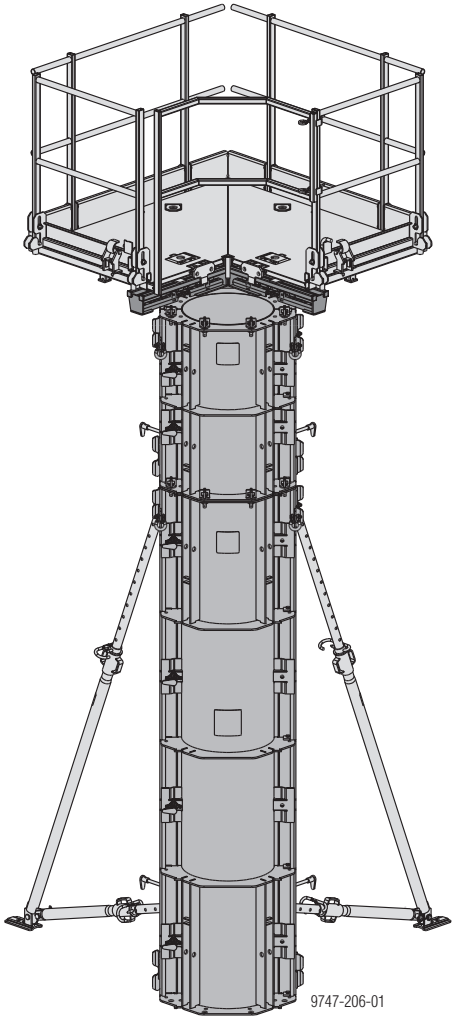
Column formwork RS is a formwork system for the production of columns in cast-in-place concrete construction. The Column formwork RS is designed for setting up using a crane.

Boundary conditions for use:

- Max. formwork height: 8.00 m
- Max. diameter: 180 cm

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

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



System description

To form a column cross section, two Column elements RS are joined together.

The following features are integrated in every **Column element RS**:

- connectors for joining together and vertically stacking the half-shells
- Centring sleeves for exactly fitting inter-panel joints
- Crane lifting points
- Stacking aids

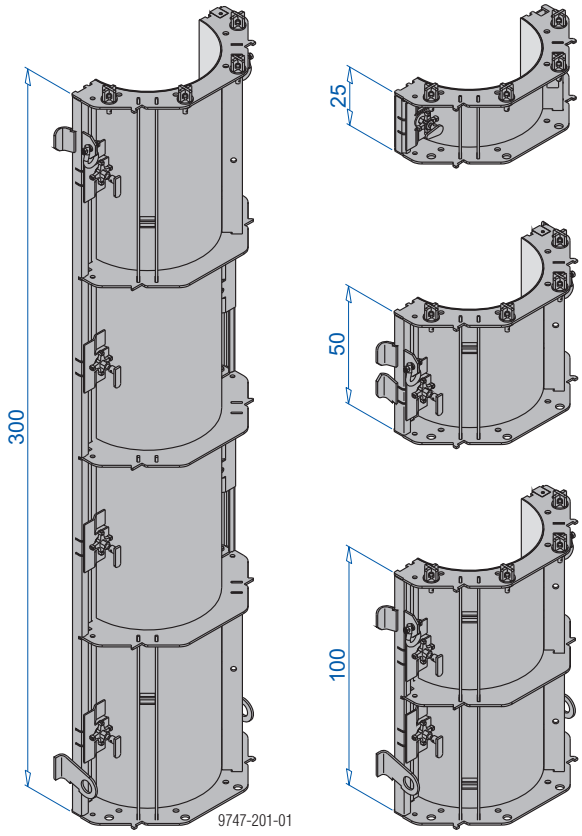
Permissible fresh-concrete pressure

Column diameter (Ø)	Permitted fresh-concrete pressure $\sigma_{hk,max}$
up to 60cm	**150 kN/m²**
65 to 150cm	**125 kN/m²**
180cm	**100 kN/m²**

Panel heights

By combining panels with heights of 0.25 m, 0.50 m, 1.00 m and 3.00 m, a 25 cm height grid is obtained.

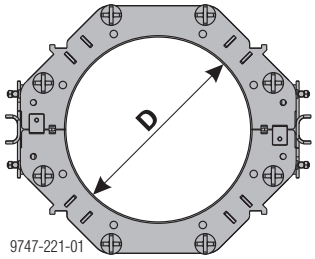
Column elements RS 0.25 m may only be used as the top elements. The crane lifting chain, and all connections to the vertical profile, must be attached to the column element below this top element.



Dimensions in cm

Element diameter

D= 30, 35, 40, 45, 50 and 60 cm



Diameters 24, 25, 55, 65, 70, 75, 80, 90, 100, 110, 120, 130, 140, 150 and 180 cm **on enquiry**.

Schedule of materials

Formwork height [m]	Column element RS			
	3.00 m	1.00 m	0.50 m	0.25 m
0.25				2
0.50			2	
0.75			2	2
1.00		2		
1.25		2		2
1.50		2	2	
1.75		2	2	2
2.00		4		
2.25		4		2
2.50		4	2	
2.75		4	2	2
3.00	2			
3.25	2			2
3.50	2		2	
3.75	2		2	2
4.00	2	2		
4.25	2	2		2
4.50	2	2	2	
4.75	2	2	2	2
5.00	2	4		
5.25	2	4		2
5.50	2	4	2	
5.75	2	4	2	2
6.00	4			
6.25	4			2
6.50	4		2	
6.75	4		2	2
7.00	4	2		
7.25	4	2		2
7.50	4	2	2	
7.75	4	2	2	2
8.00	4	4		

Follow the directions in section Additional precautions in the following cases:

- high (over 4.50 m) multi-element gangs, to stiffen the formwork when lifting it into the upright
- multi-element gangs made by stacking many small column elements

Instructions for assembly and use (Method statement)

Design of column formwork

Cleaning and care of your equipment

Before using

The steel form-facing is supplied coated with a rust inhibitor that also acts as a release agent.

➤ Wipe off excess rust inhibitor with a cloth, leaving only a very thin film.

After pouring:

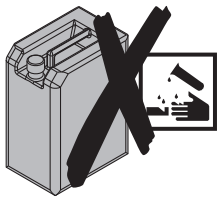
➤ Remove any blobs of concrete from the back-face of the formwork, using water (without any added sand).

➤ Do not use pointed or sharp objects, wire brushes, abrasive disks or cup brushes.

➤ Apply release agent to the formwork sheet and the end faces **extremely thinly**, **evenly** and **in a continuous layer** (make sure there are no traces of release agent running down the formwork sheet)! Applying too much release agent will spoil the concrete finish.

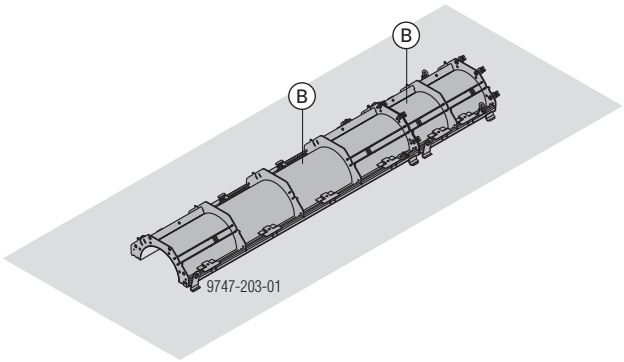
NOTICE

Do not use any chemical cleaning agents!

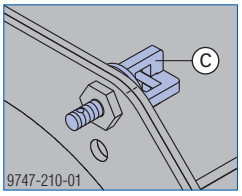


Vertical stacking of column elements

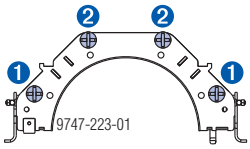
➤ Place the Column elements RS **(B)** on a flat surface.



➤ Fix the Connecting screws RS **(C)** between the elements to be stacked.



To achieve a precision stacking join between the Column elements RS, we recommend fixing the Connecting screws RS in the following order.

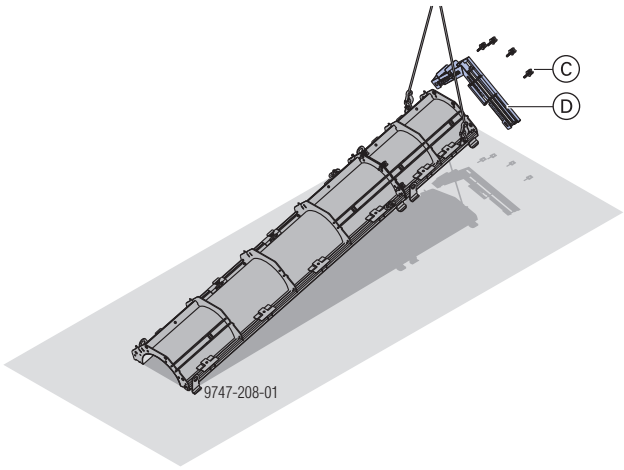


➤ Pre-assemble the other half-shell in the same way.

Preparations for using the Doka column formwork platform 150/90 cm

➤ Attach the lifting chain to the integrated crane-hoisting points and raise the formwork-half.

➤ Attach the Platform adapter RS **(D)** with Connecting screws RS **(C)** (is only needed on one of the formwork-halves).



Closing the formwork

Stand the pre-assembled formwork-halves on end, and secure them

➤ Use the crane to lift the first half of the formwork into the upright.

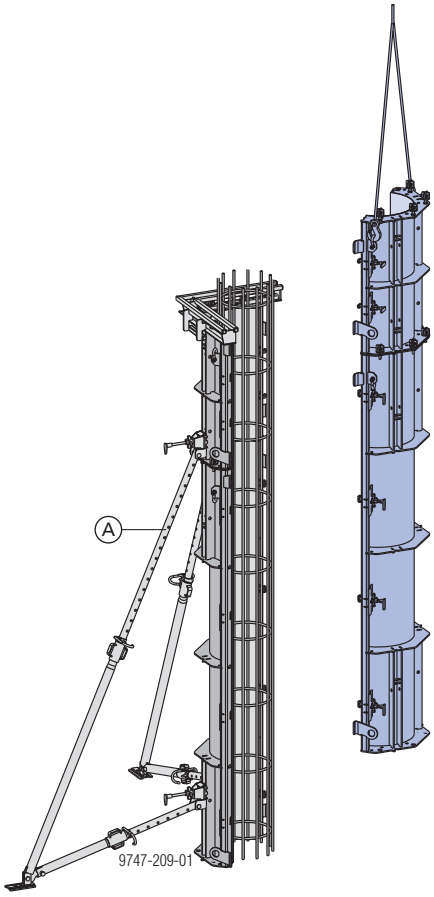
➤ Attach two panel struts **(A)** to the formwork-half to prevent it from falling over (see section Plumbing accessories); do not disengage the formwork-half from the crane until the panel struts are attached.

To save crane time, the panel struts can be attached to the half-shell while it is still lying on the ground.

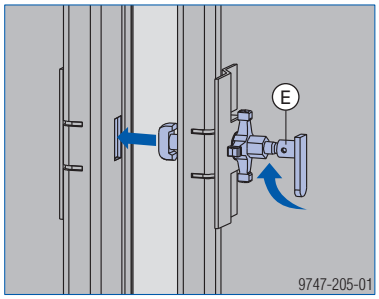
Joining the formwork-halves together

The integrated centring tool makes it easy to position the two halves exactly.

➤ Lift the second half of the formwork into the upright by crane.



➤ Link the formwork-halves with the integrated quick-acting connectors **(E)** . Do not detach the second half-shell from the crane before both halves of the formwork are properly connected.



Stripping and repositioning the formwork

First formwork-half

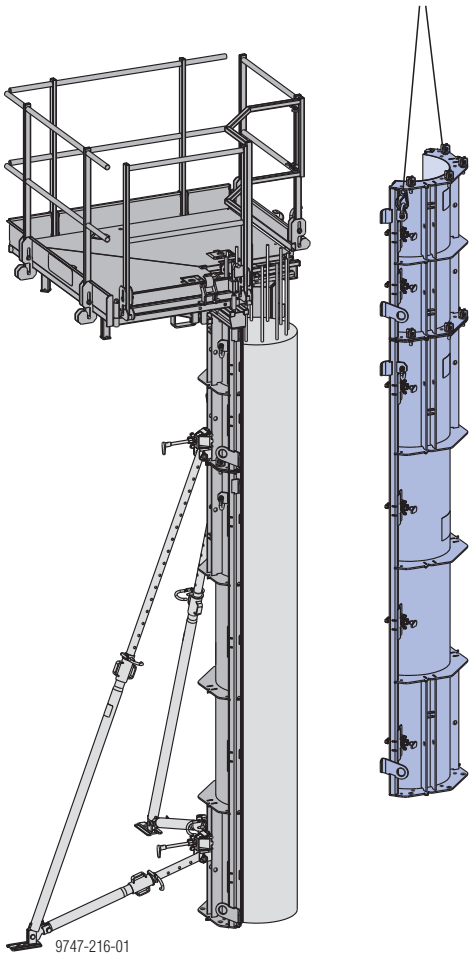
➤ Attach the crane lifting tackle to the formwork-half that is not shored by panel struts.

➤ Undo the quick-acting connector and separate the two formwork-halves.

CAUTION

➤ When stripping the formwork, never use the crane to break concrete cohesion. Use suitable tools such as timber wedges or an aligning tool.

➤ Lift the formwork-half that is attached to the crane, and set it down on the ground for cleaning.



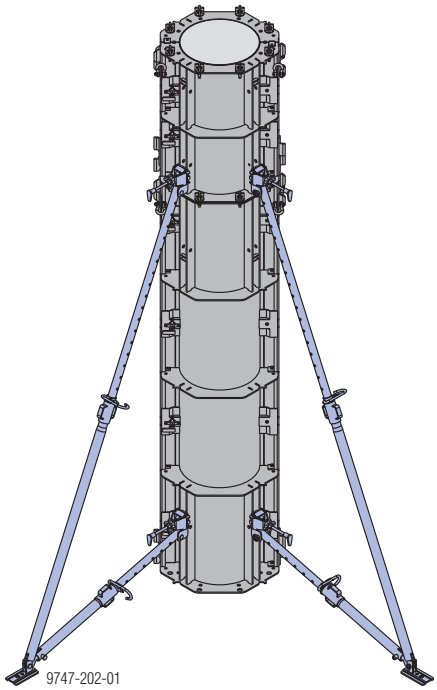
Second formwork-half

➤ Attach the lifting chains to the shored (i.e. still standing) formwork-half.
For information on how to reposition a formwork-half complete with a platform, see section Platform configurations with Doka column formwork platform 150/90cm.

➤ Undo the panel-strut anchorages from the ground.

➤ Set down this crane-held formwork-half ready for cleaning, and secure it so that it cannot fall over.

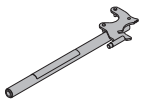
Plumbing accessories



Plumbing accessories brace the formwork against wind loads and make it easier to plumb and align the formwork.

WARNING
Risk of the formwork tipping over!
- Ensure stability of the formwork elements in **every** phase of the construction work!
- Observe all applicable safety regulations!
- If **high wind speeds** are likely, or when work finishes for the day or before prolonged work-breaks, always take extra precautions to fix the formwork in place.
- The safety pin is only for rough adjustment of the plumbing accessory. Do not attempt to remove or release the safety pin under load.

Universal dismantling tool
For easy operation of the spindle nuts.



Number of struts for each formwork-half to be shored:

Formwork height [m]	Panel strut		Eurex 60 550
	340	540	
up to 4.00	2		
up to 5.50		2	
up to 8.00			2
Max. prevailing anchoring load: F_{exist} = **13.5 kN** (actual load) F_d = **20.3 kN** (design value incl. safety factors)			

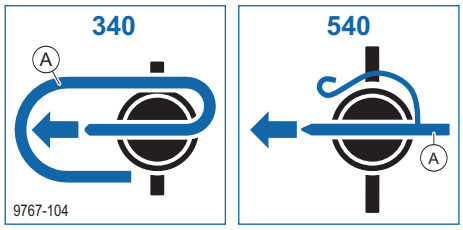
The values apply for a wind pressure of w_e = 0.65 kN/m². This results in a peak velocity pressure of q_p = 0.5 kN/m² (102 km/h) where $c_{p, net}$ = 1.3. In cases where higher wind pressure is encountered, the number of struts must be determined by static calculation.

For more information, see the Calculation Guide 'Wind loads to the Eurocodes', or consult your Doka technician!

Pre-assembly

- Install heads on the plumbing accessory.
- Fix the plumbing accessory to the formwork and to the ground (see connection possibilities below for details).
- Precision adjustment of the plumbing strut with adjusting nut.

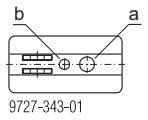
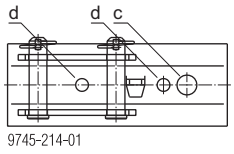
Safety pin **(A)** must be pushed all the way into the plumbing accessory.



Fixing to the ground

➤ Anchor the plumbing accessories in such a way as to resist tensile and compressive forces!

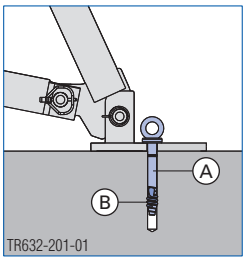
Drilled holes in footplate

Panel struts	Eurex 60 550
	

a ... diam. 26 mm
b ... diam. 18 mm (suitable for Doka express anchors)
c ... diam. 28 mm
d ... diam. 18 mm (suitable for Doka express anchors)

Anchoring the footplate

The **Doka express anchor** can be re-used many times over.



A Doka express anchor 16x125mm
B Doka coil 16mm

Doka express anchor 16x125mm:
Concrete strength class: min. C20/25
Cube compressive strength of the concrete during loading: $f_{ck,cube,current}$ = min. 15 N/mm² (corresponds to B15)

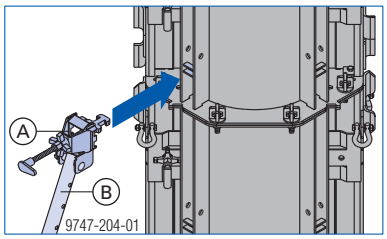
Follow the directions in the 'Doka express anchor 16x125mm' User Information booklet!

Required load-bearing capacity of alternative anchoring elements:
$R_d \geq 20.3$ kN ($R_k \geq 13.5$ kN)
Follow the manufacturers' applicable fitting instructions.

Fixing the struts to the formwork

Variant 1

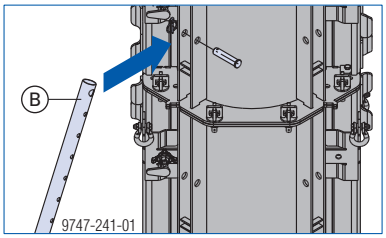
➤ Place the Prop head EB up against one of the clamping points on the Column element RS, and fix it in place with the star grip nut.



A Prop head EB
B Panel strut 340 IB or 540 IB

Variant 2

➤ Pin the panel strut directly into the pin-holes on the vertical profile.

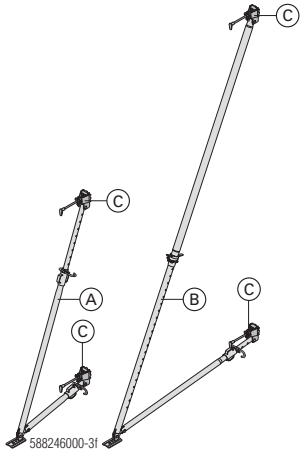


B Panel strut 340 IB

Panel struts

Product features:

- can be extended in 8 cm increments
- Fine adjustment by screw-thread
- All parts are captive, including the telescopic tube which has a safety stop to prevent dropout



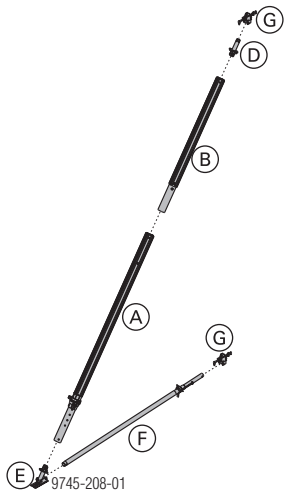
A	Panel strut 340 IB
B	Panel strut 540 IB
C	Prop head EB

Eurex 60 550 used as a shoring & plumbing accessory

As Doka plumbing strut Eurex 60 550 – fitted with the appropriate accessories – this prop can also be used **for shoring high formwork**.

- Can be connected directly – without modification – to Doka framed formwork and Doka timber-beam formwork
- The Adjusting strut 540 Eurex 60 IB makes handling much easier, especially when the formwork is being transferred.
- Can be telescoped in 10 cm increments, with continuous fine adjustment.

Follow the directions in the 'Eurex 60 550' User Information booklet!



A	Plumbing strut Eurex 60 550
B	Extension Eurex 60 2.00m
D	Connector Eurex 60 IB
E	Plumbing strut shoe Eurex 60 EB
F	Adjusting strut 540 Eurex 60 IB
G	Prop head EB

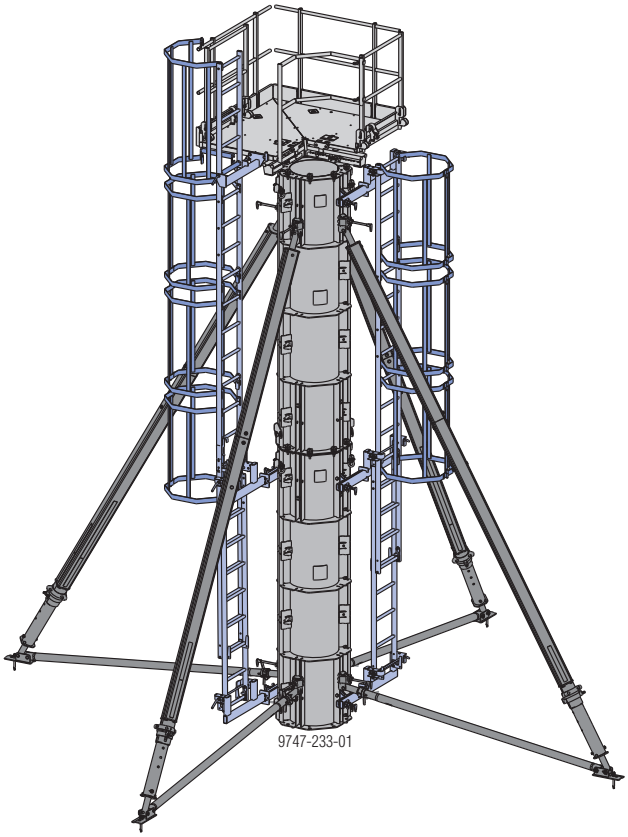
Ladder system XS

Combined with the Column formwork platform 150/90cm, the Ladder system XS provides a safe and reliable way of climbing up and down column formworks:

- during pouring
- when placing reinforcing cages
- when opening/closing the formwork-halves
- when attaching/detaching the formwork-halves

Note:
The Ladder system XS must be implemented in such a way that all national regulations are complied with.

WARNING
➤ The Ladders XS may only be used as part of the XS system, and must NOT be used separately (as "lean-to" ladders).



Note:
When used with the Ladder system XS, both formwork-halves must each be fitted with 2 panel struts.

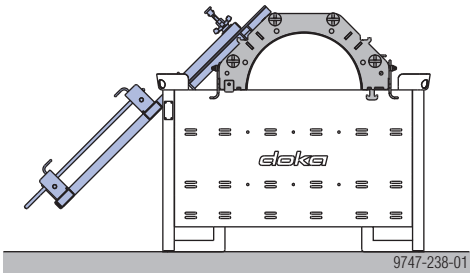
Pre-assembly

Formwork-half without column formwork platform

Mount the ladder system to the horizontal half of the formwork.

➤ Vertical stacking of column elements (see section Design of column formwork).

To make it easier to mount and dismount the Connectors XS RS, the formwork-half can be placed on top of Doka multi-trip transport boxes.



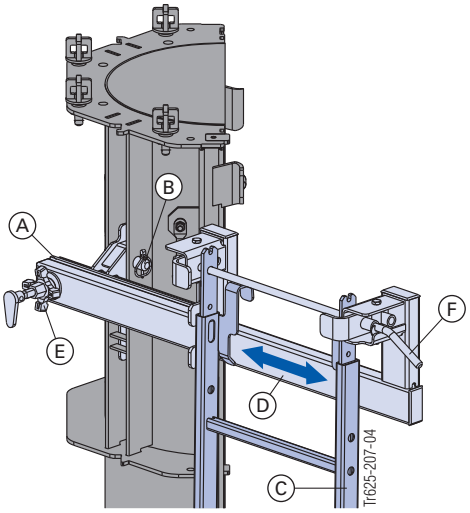
➤ Fit the Connector XS RS into the vertical profile of the Column element RS and use a bolt and linch pin to fix it in the top hole.

NOTICE
- Panel height 0.25 m: Connector XS RS cannot be installed!
- Panel height 0.50 m: Connector XS RS and panel strut cannot be installed in combination!

In the event of a collision with panel strut or transverse plate:
- Bolt the Connector XS RS into the bottom hole.
- Install the panel strut in another plane.
- Install the panel strut first, then the Connector XS RS (can be manoeuvred into position).

➤ Slide the cantilever profile into the ideal position and fix it in place with the star grip nut.

➤ Bolt the ladder to the XS connector in the front position, using the push-in pin. Secure the push-in pin with a linch pin.

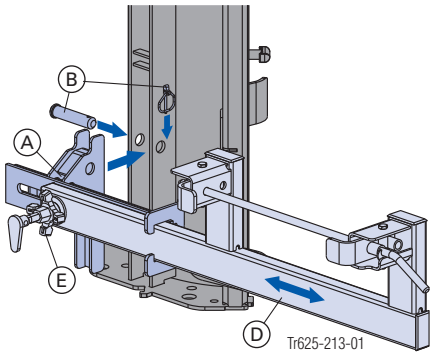


A	Connector XS RS
B	Bolt and linch pin
C	Ladder
D	Cantilever profile
E	Star grip nut
F	Push-in pin

➤ Fit the Connector XS RS into the bottom vertical profile of the Column element RS and fix it with a bolt and linch pin.

➤ For formwork heights above 5.00 m, an extra Connector XS RS must be fitted approx. half-way up the column, in the same way.
This prevents the ladder from swaying when site crew climb up or down.

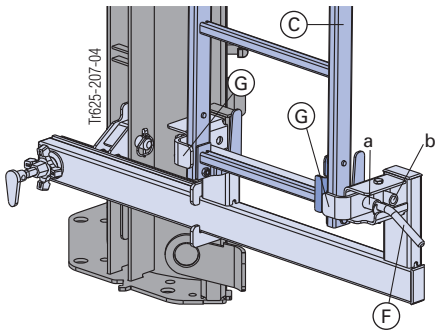
➤ Slide the cantilever profile to align it to the ladder, and fix it in place with the star grip nut.



A	Connector XS RS
B	Bolt and linch pin
D	Cantilever profile
E	Star grip nut

➤ Pull out the push-in pin, pivot the two securing hooks out of the way, and insert the ladder.

➤ Close the securing hooks, re-insert the push-in pin and secure it with a linch pin.



– in the frontmost position (a) for one single ladder
– in the rear position (b) in the telescoping zone (for 2 ladders)

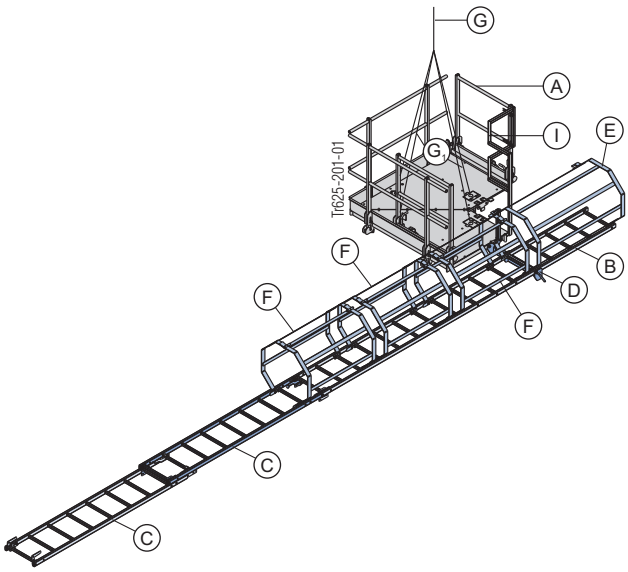
C	Ladder
F	Push-in pin
G	Securing hook

Formwork-half with Column formwork platform

➤ Prepare the formwork-half ready to be used with the Doka column formwork platform 150/90 cm (see section Design of column formwork).

Column formwork platform with Ladder system XS

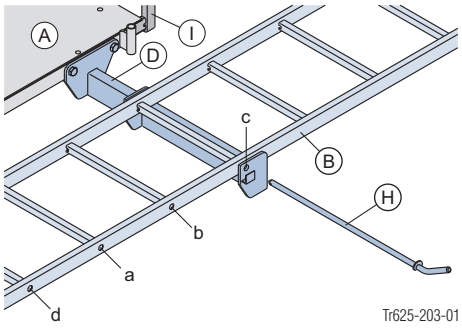
The Ladder system XS and the Column formwork platform 150/90cm are pre-assembled flat on the ground, then lifted on to the upright column formwork using the Doka 4-part chain 3.20m. (Shorten the 2 lengths of chain nearest the entry-point by removing approx. five chain-links!)



A	Doka column formwork platform 150/90cm
B	System ladder XS 4.40m
C	Ladder extension XS 2.30m
D	Connector XS column formwork platform
E	Ladder cage exit XS
F	Ladder cage XS 1.00m
G	Doka 4-part chain 3.20m G_1 shortened chain-strands
I	Counter railing col. formwork plat. 150/90cm

Note:
First install the counter railing of the column formwork platform (see section Platform configurations with Doka column formwork platform 150/90cm). The counter railing is bolted on together with the Connector XS for column formwork platform!

- ➤ Fasten the Connector XS column formwork platform to the Doka column formwork platform 150/90cm, using the bolting items supplied.
- ➤ Place the System ladder XS 4.40m onto the Connector XS, with the hooking brackets facing downwards.
- ➤ Insert the push-in pin into the rung that is suitable for the height of the column, and twist to secure.



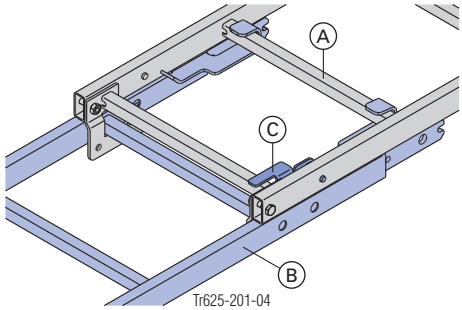
a ... Hole for a column height of 2.75 m
b ... Hole for a column height of 3.00 m
c ... Hole for a column height > 3.00 m
d ... Extra hole for special applications

A	Doka column formwork platform 150/90cm
B	System ladder XS 4.40m
D	Connector XS column formwork platform
H	Push-in pin
I	Counter railing col. formwork plat. 150/90cm

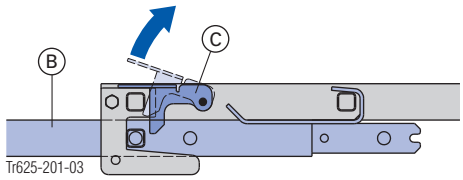
Ladder system XS for heights above 3.60 m

Telescoping ladder extension (for adjusting to ground level)

- ➤ To telescope the ladders past one another, lift the safety latch on the ladder and fix the Ladder extension XS 2.30m onto the desired rung of the other ladder.



Close-up

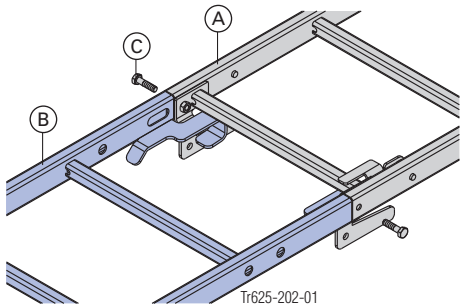


A	System ladder XS 4.40m
B	Ladder extension XS 2.30m
C	Safety latch

A telescoping join between two Ladder extensions XS 2.30m can be made in the same way.

Permanently fixed ladder extension

- ➤ Insert the Ladder extension XS 2.30m into the uprights of the System ladder XS 4.40m, with its hooking brackets facing downwards, and fasten it. Tighten the screws only **very slightly**!



Screws **(C)** are included in the scope of supply of the System ladder XS 4.40m and the Ladder extension XS 2.30m.

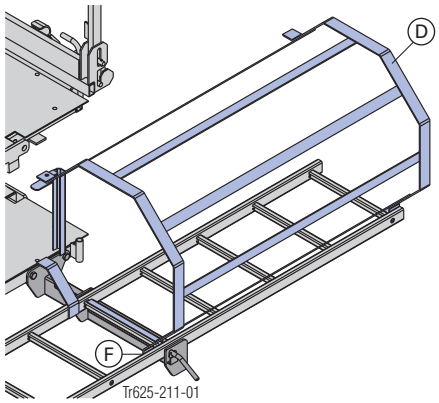
A	System ladder XS 4.40m
B	Ladder extension XS 2.30m
C	Screws, width-across 17 mm

Two Ladder extensions XS 2.30m can be fixed together in the same way.

NOTICE

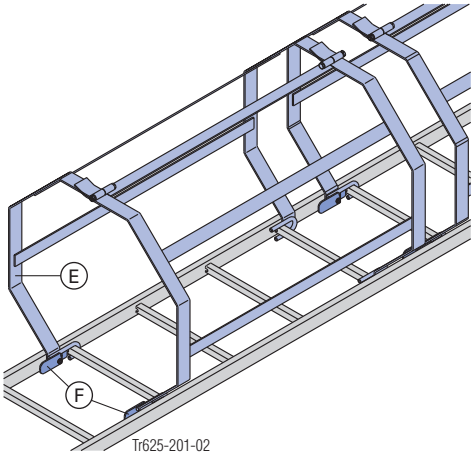
➤ Always observe all relevant safety regulations applying to the use of the Ladder cage XS in the country in which you are operating (e.g. in Germany: BGV D 36).

➤ Fix the Ladder cage exit XS (the underside must always be at the same height as the "Connector XS for column formwork platform"). The safety latches prevent the cage being accidentally lifted out.



D Ladder cage exit XS
F Safety latch

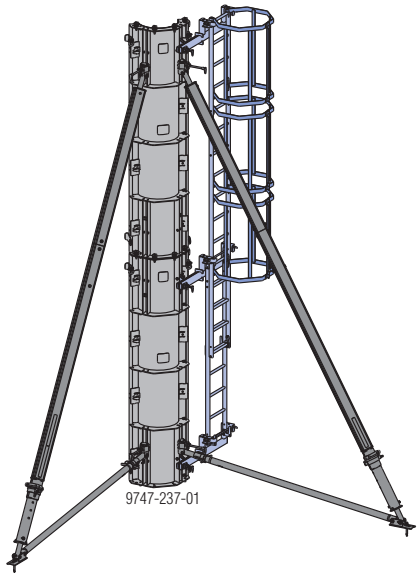
➤ Attach the Ladder cage XS to the next available rung. Attach further ladder cages, in each case to the next available rung.



E Ladder cage XS
F Safety latches (lift-out guard)

Closing the formwork

➤ Use the crane to lift the pre-assembled formwork-half (without the column formwork platform) upright.

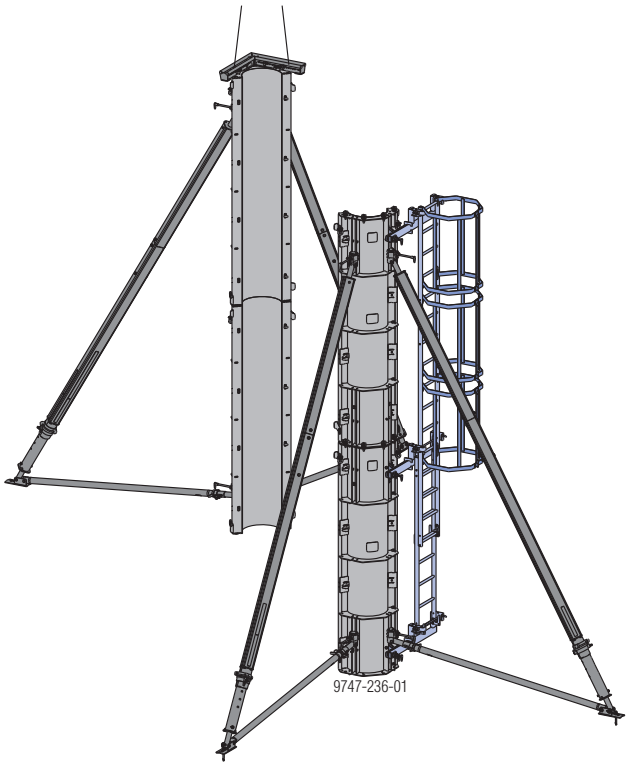


➤ Attach two panel struts to the formwork-half to prevent it from falling over (see section Plumbing accessories); do not disengage the formwork-half from the crane until the panel struts are attached.

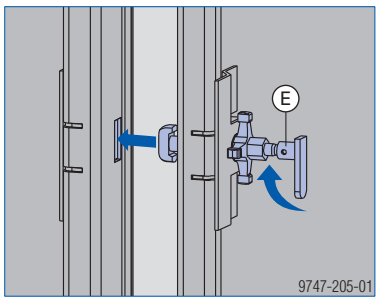
To save crane time, the panel struts can be attached to the half-shell while it is still lying on the ground.

Joining the formwork-halves together

➤ Lift the second pre-assembled formwork-half upright by crane.



➤ Link the formwork-halves with the integrated quick-acting connectors **(E)** .



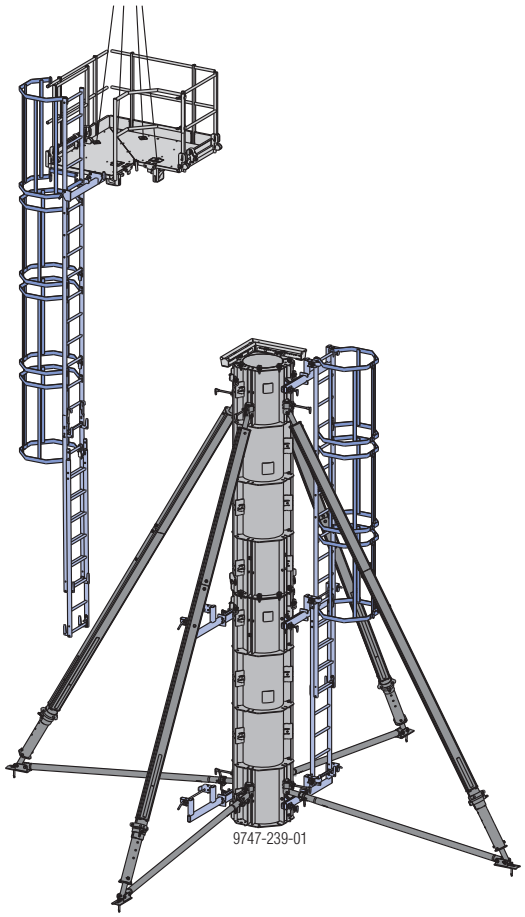
➤ Attach two panel struts to the formwork-half to prevent it from falling over (see section Plumbing accessories); do not disengage the formwork-half from the crane until the panel struts are attached.

To save crane time, the panel struts can be attached to the half-shell while it is still lying on the ground.

➤ Mount the bottom Connector XS RS as shown in 'Formwork-half without column formwork platform'.

➤ For formwork heights above 5.50 m, an extra Connector XS RS must be fitted approx. half-way up the column, in the same way.
This prevents the ladder from swaying when site crew climb up or down.

➤ Engage the pre-assembled column formwork platform with Ladder system XS in the column formwork.



➤ Fix the ladder in the Connectors XS RS.

➤ After the column formwork platform has been hung into place on the formwork, detach the 4-part lifting chain.

Stripping and repositioning the formwork

First formwork-half

➤ Attach the lifting chains to the formwork-half on which the column formwork platform is mounted (see section Moving the formwork and the platform in one piece).

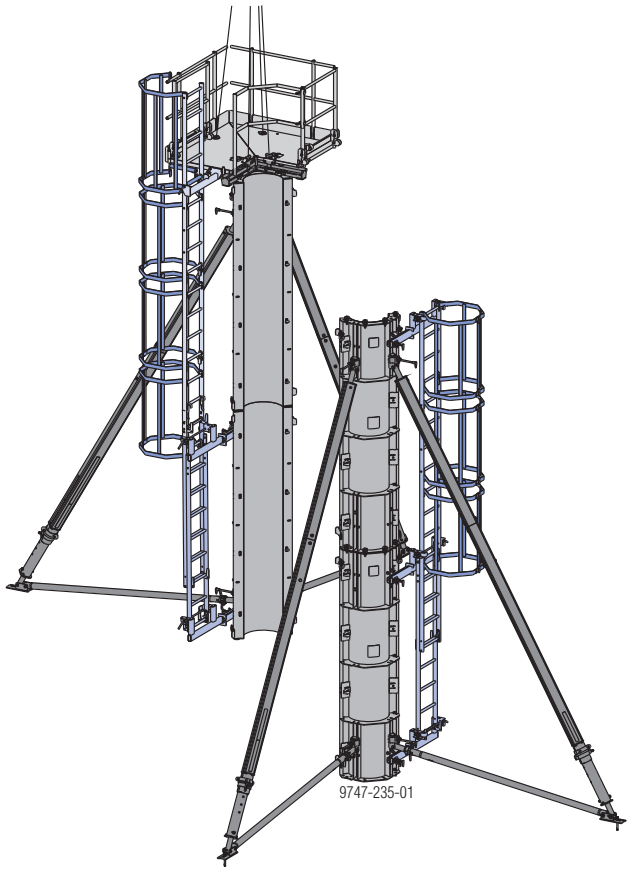
➤ Undo the panel-strut anchorages from the ground.

➤ Undo the quick-acting connector and separate the two formwork-halves.

CAUTION

➤ When stripping the formwork, never use the crane to break concrete cohesion. Use suitable tools such as timber wedges or an aligning tool.

➤ Set down this crane-held formwork-half ready for cleaning, and secure it so that it cannot fall over.



Second formwork-half

➤ Attach the lifting chains to the shored (i.e. still standing) formwork-half.

➤ Undo the panel-strut anchorages from the ground.

➤ Set down this crane-held formwork-half ready for cleaning, and secure it so that it cannot fall over.

For more information on cleaning and care of your equipment, see section Design of column formwork.

Items needed

Formwork-half with Column formwork platform

Platform + ladder	Formwork height		
	2.75-3.50 m	>3.50-5.50 m	>5.50-8.00 m
Connector XS column formwork platform	1	1	1
Connector XS RS	1	1	2
System ladder XS 4.40m	1	1	1
Ladder extension XS 2.30m	—	1	2

Ladder cage	Formwork height					
	2.70-3.15 m	>3.15-4.20 m	>4.20-5.40 m	>5.40-6.50 m	>6.50-7.75 m	>7.75-8.00 m
Ladder cage exit XS	1	1	1	1	1	1
Securing barrier XS [1)]	1	1	1	1	1	1
Ladder cage XS 1.00m	—	1	2	3	4	5

[1)] The side railing of the Doka column formwork platform 150/90cm can be used as the securing barrier.

Formwork-half without column formwork platform

Ladder	Formwork height			
	2.75-3.00 m	>3.00-5.00 m	>5.00-7.25 m	>7.25-8.00 m
Connector XS RS	2	2	3	3
System ladder XS 4.40m	—	—	1	1
Ladder extension XS 2.30m	1	2	1	2

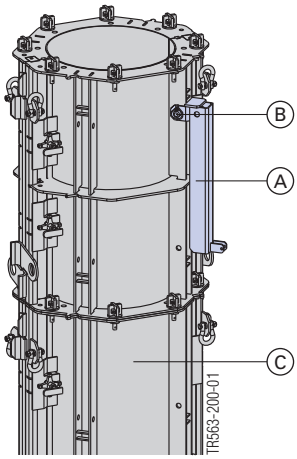
Ladder cage	Formwork height				
	2.70-3.25 m	>3.25-4.30 m	>4.30-5.50 m	>5.50-6.75 m	>6.75-8.00 m
Ladder cage XS 1.00m	—	1	2	3	4

Pouring platforms with single brackets

In conjunction with the Framax bracket 90, the Bracket connection RS makes it possible to mount pouring platforms on the Column elements RS.

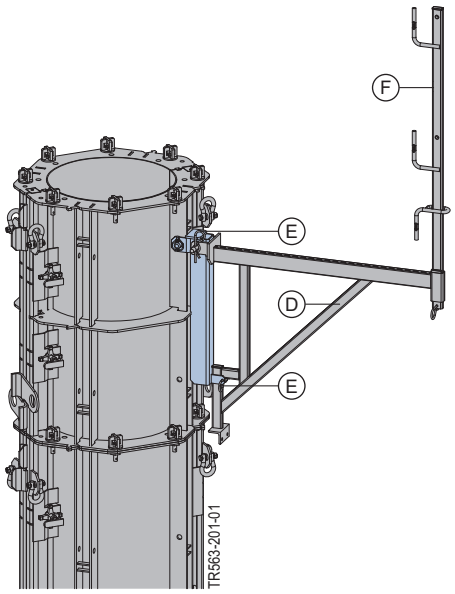
Basic design concept

➤ Hook the Bracket connection RS into the Column element RS and fix it with a bolt and linch pin.



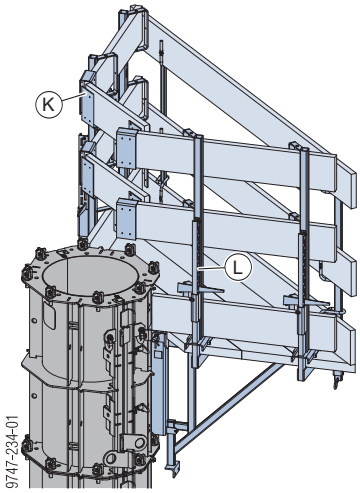
A Bracket connection RS (incl. pos. B)
B Pin d25/93.5 + linch pin 6x42 steel, galvanised
C Column element RS

➤ Using Framax wedge bolts RA 7.5, bolt the Framax bracket 90 EP into the Bracket connection RS.
➤ Secure the Framax bracket 90 EP with a Spring cotter 5mm at top and bottom.
➤ Slot a Handrail post 1.00m into the Framax bracket 90 EP and secure it with a Spring cotter 5mm.



D Framax bracket 90 EP
E Spring cotter 5mm
F Handrail post 1.00m

Platform decking and guard rails



K Universal railing shackle
L Handrail clamp S

Permitted service load: 1.5 kN/m² (150 kg/m²)
Load Class 2 to EN 12811-1:2003
Max. influence width: 2.00 m

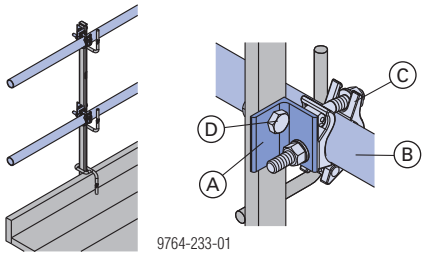
Note:
The plank and board thicknesses stated comply with the EN 338 C24 timber.
Observe all national regulations applying to deck and guardrail boards.

Board thicknesses for centre-to-centre spans up to 2.50 m:
- Deck-boards min. 20/5 cm
- Guardrail boards min. 15/3 cm

Threaded-fastener material required for securing the deck-boards:
- Cup square bolts M10x120
- Spring washers A10
- Hexagon nuts M10

Fixing the guardrail boards: use nails

Using scaffold tubes



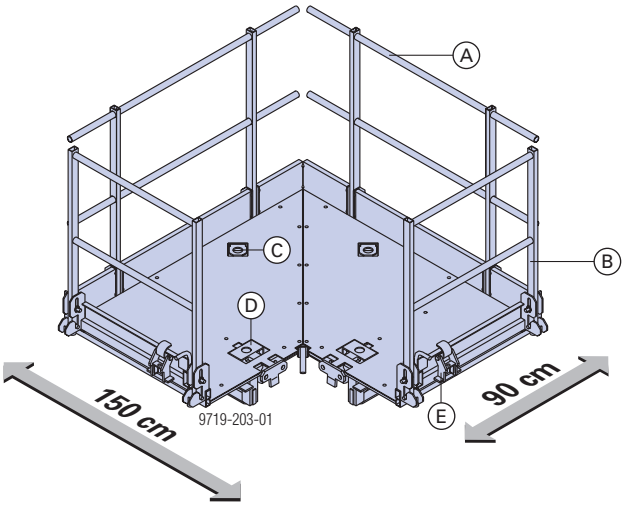
Tools required: Fork wrench 22 for mounting the couplers and scaffold tubes.

A Scaffold tube connection
B Scaffold tube 48.3mm
C Screw-on coupler 48mm 50
D Hexagon bolt M14x40 + hexagon nut M14 (threaded-fastener material required)

Platform configurations with Doka column formwork platform 150/90cm

The platform adapter RS enables the use of the Doka column formwork platform **up to a column diameter of 60cm**.

Product description



A	Rear railing
B	Side railing
C	Rear hoisting point
D	Safety hook (blue) = front hoisting point
E	Extra hoisting point (red) in parked position

Permitted service load: 1.5 kN/m² (150 kg/m²)
Load Class 2 to EN 12811-1:2003

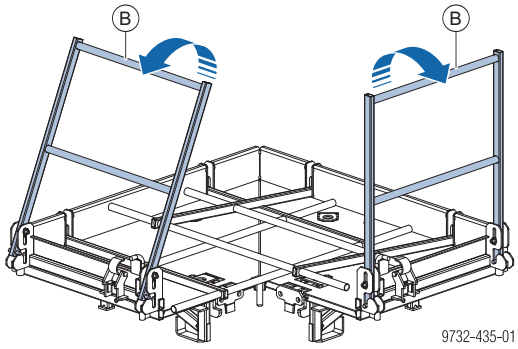
The main features:

- This pre-assembled, ready-to-use platform ensures convenient and safe working on column formworks. It can be used on columns of any cross-section.
- The slinging points recessed into the decking make it a quick and easy job to lift the platform by crane. Only one column formwork platform can be used on each column!
- Because the platform can be re-suspended so quickly, it can "migrate" from one formwork to the next during concreting. This means that one platform is sufficient to serve several column formworks.
- The practical swing-out side railings make it easy to get on or off the platform. Both the side railings can be fixed in either the open or closed position.

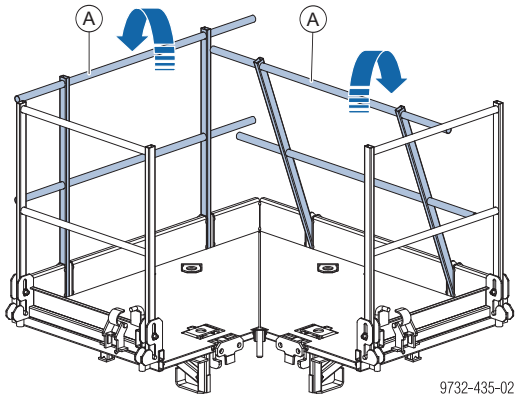
Combined with the Column formwork platform 150/90cm, the Doka Ladder system XS provides a safe and reliable way of climbing up and down column formworks.

Basic design concept

➤ Tilt up the side railings. They lock into place automatically.



➤ Tilt up the rear railings. They lock into place automatically.

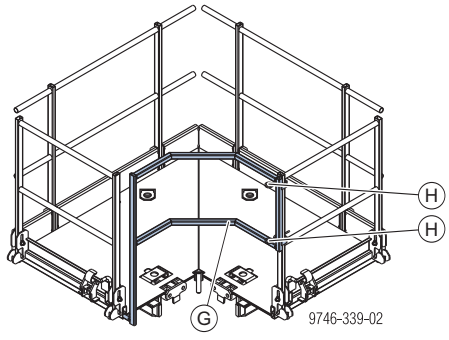


A	Rear railing
B	Side railing

The column formwork platform is now ready for use.

Note:
When folding the platform back down, first fold down the rear railings, and then the side ones.

➤ Mount the Counter railing Col. formwork plat. 150/90cm and secure with Spring cotters 5mm.



G	Counter railing col. formwork plat. 150/90cm
H	Spring cotter 5mm

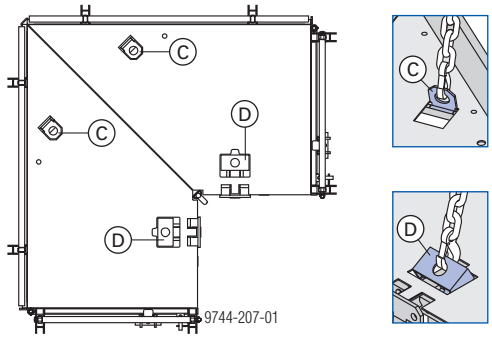
Preparing the formwork

➤ Attach the Platform adapter RS to the formwork.

For information on preparing the formwork for using the Doka column formwork platform, see section Design of column formwork.

Moving the platform

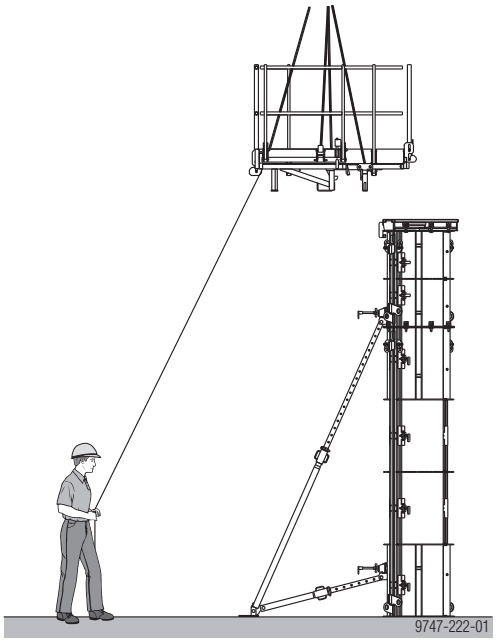
➤ Attach a four-part lifting chain (e.g. Doka 4-part chain 3.20m) to the points shown here.



C Rear crane suspension point

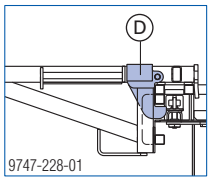
D Front crane suspension point

➤ Hook the platform onto the pre-mounted Platform adapter RS.



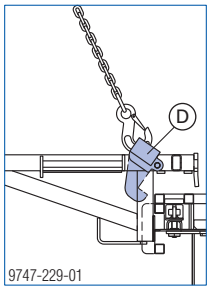
Suspending the platform exactly in position is made much easier when guide-cables are used.

➤ After the column formwork platform has been hung into place on the formwork, detach the four-part lifting chain.



The safety hook **(D)** drops down into its starting position and automatically secures the platform against being accidentally lifted out.

➤ When the platform is lifted, the lifting chain acts on the safety hook **(D)** and the platform is automatically unlocked.



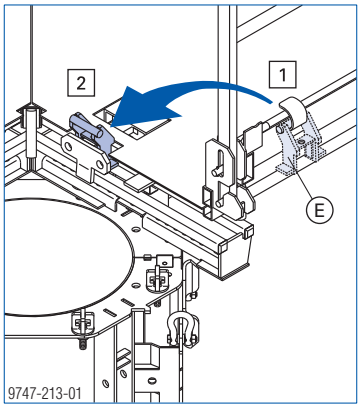
Follow the directions in the "Doka 4-part chain 3.20m" Operating Instructions!

Moving the formwork and the platform in one piece

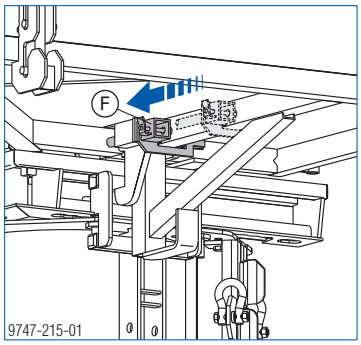
To save crane time, the Doka column formwork platform can also be repositioned jointly with the formwork:

➤ Hang the platform into place on the formwork (see section Moving the platform).

➤ Move the extra hoisting point **(E)** from the parked position to the working position. Correctly positioned = tilted forward toward the formwork.

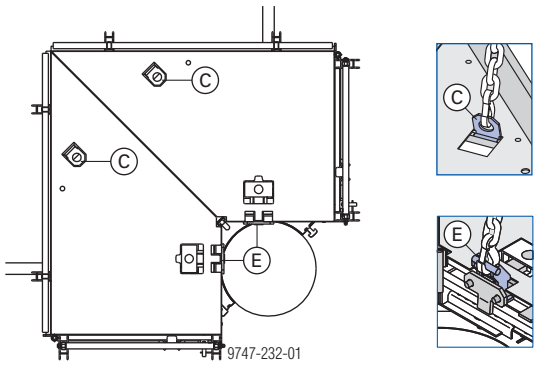


➤ Lock the extra hoisting point with the slide bolt **(F)** on the underside of the platform.



Make sure the slide bolt engages in the frontmost position.

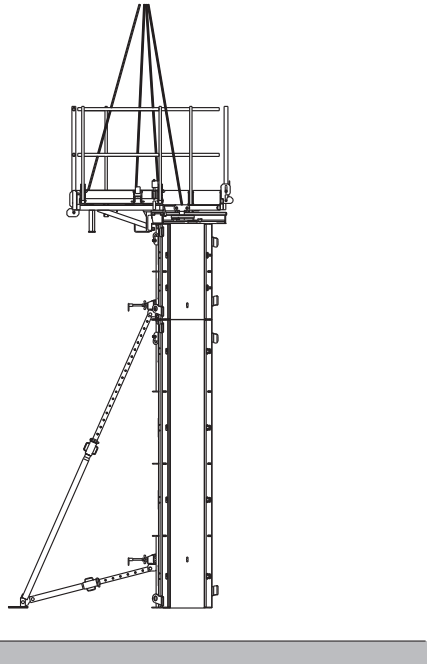
➤ Attach a 4-part lifting chain (e.g. Doka 4-part chain 3.20m). When the formwork plus platform are to be lifted in one piece, the extra hoisting point must be used.



C Rear crane suspension point

E Extra hoisting point

Follow the directions in the 'Doka 4-part chain 3.20m' Operating Instructions!



Separating the platform from the formwork

➤ Fix the slide bolt **(F)** back in the rear position and move the extra crane lifting point into the 'parked' position.

➤ Attach the crane to the locations shown in section Moving the platform.

General

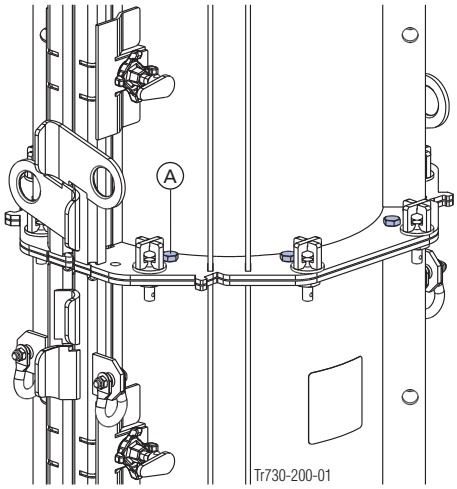
Additional precautions

Bracing

- on high (over 4.50 m) multi-element gangs, to stiffen the formwork when lifting it into the upright
- on multi-element gangs made by stacking many small column elements

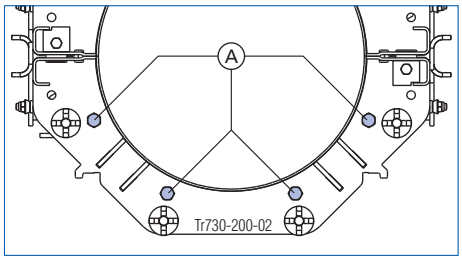
with a "Screw-set M16x45 8.8"

➤ Fit the "Screw-set M16x45" on the shell join.



The screws must be fitted in the diam. 20 mm holes on the outside reinforcement ribs

For each formwork-half, one "Screw-set M16x45" must be provided for every vertical stacking join.



with Multipurpose walings WS10 Top50

Note:
Stiffening with multi-purpose waling is possible for **column elements with a diameter of 50cm or more**. Stiffen column elements with smaller diameters with the screw-set.

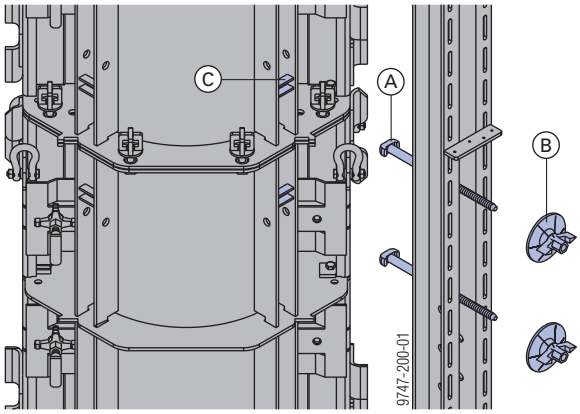
Length of Multi-purpose walings:

The Multi-purpose walings should be long enough to overlap the column-element reinforcement ribs immediately above and below the join.

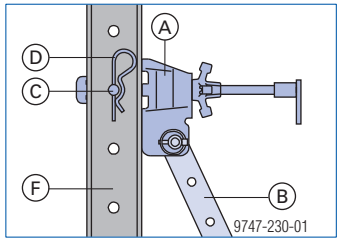
Attaching the Multipurpose waling:

Mount one multi-purpose waling WS10 or WU12 per formwork-half, on the connector-free side of the formwork.

➤ Fix multi-purpose walings with Framax universal fixing bolts 10-25 cm **(A)** and Super plates 15.0 **(B)** to the clamping points on the column elements **(C)** . In each case, there should be one fixing point **above the inter-panel joint, and one below it**.



Attaching the panel struts



A	Prop head EB
B	Panel strut 340 IB or 540 IB
C	Connecting pin 10cm
D	Spring cotter 5mm
F	Multi-purpose waling WS10 Top50

Sealing the shell joins

Optimum sealing of the joins between the column elements is obtained by using the self-adhesive Sealing tape KS.

As the sealing tape is squeezed outward when the column elements are pressed together, the tape should be positioned between 0.5 mm and 1 mm away from the edge facing the concrete. This prevents any tape protruding and making a negative impression in the concrete.

Column formwork RS used together with other formwork systems.

NOTICE

Follow the directions in the User Information booklets for the formwork system concerned, especially regarding the permitted fresh-concrete pressure.

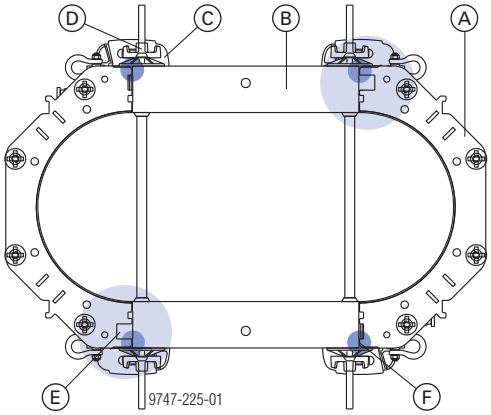
Framed formwork Framax Xlife

Practical example

'Oval columns' with column-formwork stop-ends.

The Column elements RS are connected using the standard connectors of the framed-formwork systems.

The positions of the Framax quick acting clamps RU or Framax multi-function clamps needed here are dictated by the integrated quick acting connectors.

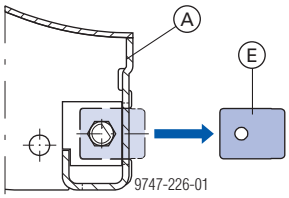


A	Column element RS
B	Framax Xlife panel
C	Framax quick acting clamp RU
D	Super plate 15.0
E	Centring mechanism
F	Hardboard strip 3mm

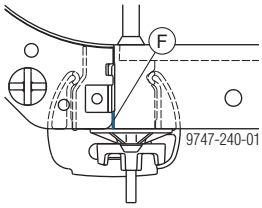
When used with Framax Xlife:

The Column elements RS come with a centring mechanism on one side. This has to be removed for direct clamping to framed formwork panels.

➤ Dismount the centring mechanism **(E)**



➤ Add a hardboard strip **(F)**



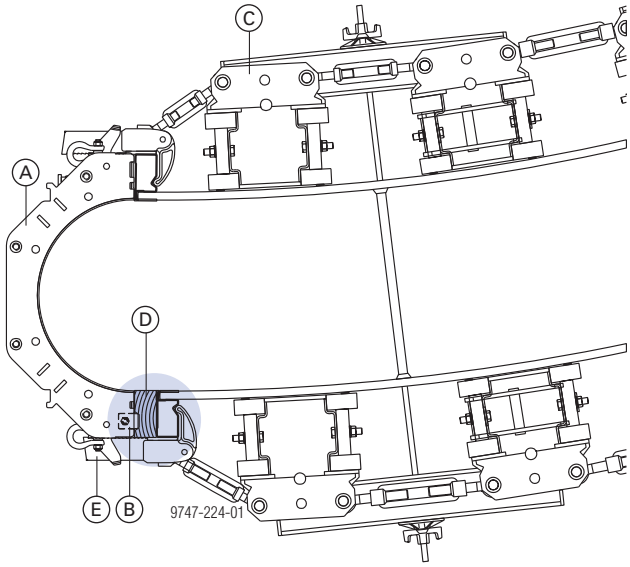
Circular formwork H20

Practical example: Guiding walls

Column elements RS used as stop-ends on Circular formwork H20.

The Column elements RS are connected with the standard connectors for Circular formwork H20.

The positions of the 'Adjustable clamps 10cm' needed here are dictated by the integrated quick-acting connectors.

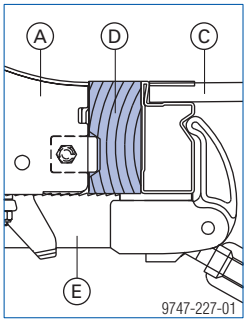


A	Column element RS
B	Centring mechanism
C	Circular formwork H20
D	Timber filler
E	Adjustable clamp 10cm

The centring mechanism can either

- be dismounted (see previous example) or
- be left on the column element if it can protrude into a recess cut out of a timber filler.

Close-up of timber filler



Transporting, stacking and storing

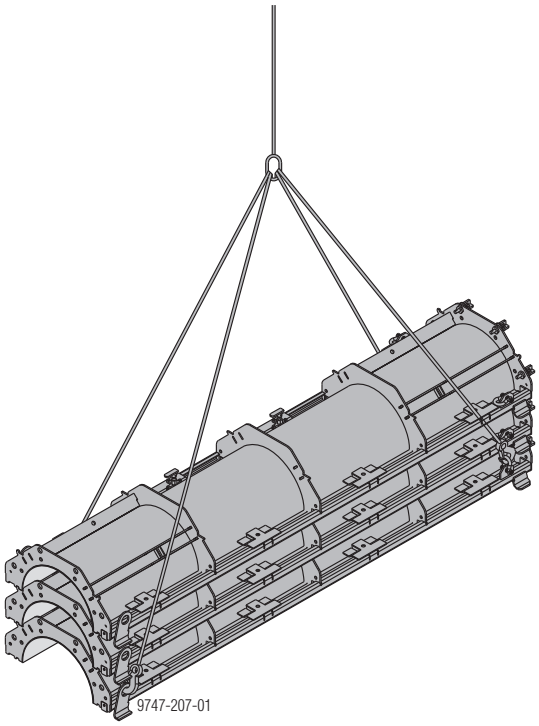
The Column elements RS can be hoisted either individually or in a stack.

Max. 8 Column elements RS may be stacked on top of one another outdoors – on flat, even ground – without being specially secured.

➤ To protect the steel form-facing from corrosion, store the shells in a roofed-over place or under tarpaulins.

The "Skeleton transport box" and "Multi-trip transport box" are suitable for storing and transporting 0.25 and 0.50 m high Column elements RS.

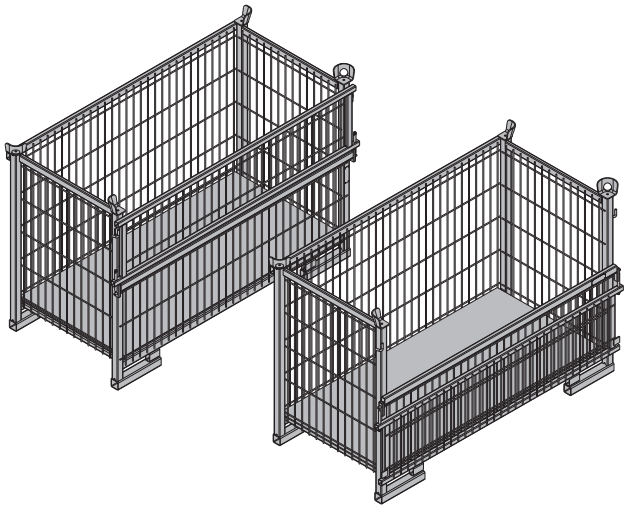
The integral stacking lugs on the Column elements RS secure the stack against both lengthways and sideways slippage.



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

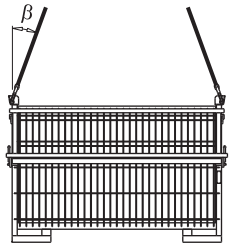
Stacked multi-trip boxes or pallets must have the heaviest boxes at the bottom and the lightest at the top.

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

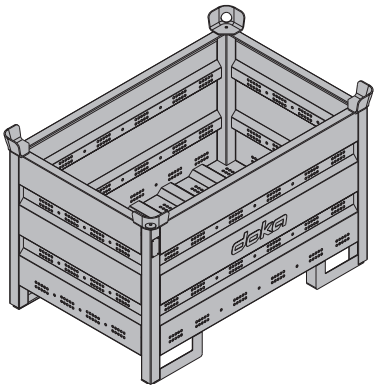
Repositioning by forklift truck or pallet stacking truck

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

Doka multi-trip transport box

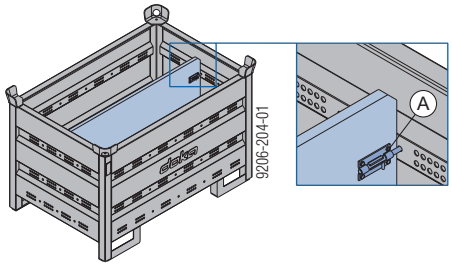
Storage and transport device for small items

Doka multi-trip transport box 1.20x0.80m



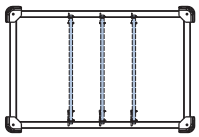
Permitted load-bearing capacity: 1500 kg (3300 lbs)
Permitted imposed stacking load: 7850 kg (17300 lbs)

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**.

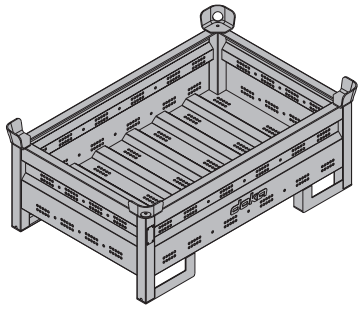


A Slide-bolt for fixing the partition

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
	 9206-204-02	 9206-204-03

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) Floor gradients up to 3%		**Indoors** Floor gradients up to 1%	
Doka multi-trip transport box		Doka multi-trip transport box	
1.20x0.80m	1.20x0.80x0.41m	1.20x0.80m	1.20x0.80x0.41m
3	5	6	10
It is not allowed to stack empty pallets on top of one another!			

NOTICE

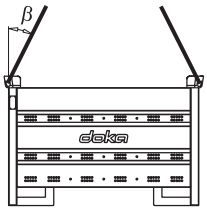
Stacked multi-trip boxes or pallets must have the heaviest boxes at the bottom and the lightest at the top.

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°!



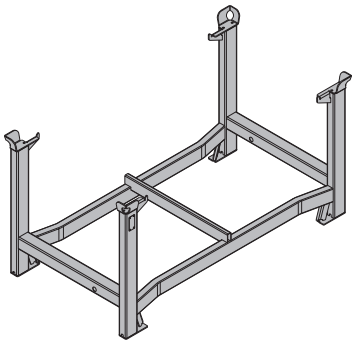
9206-202-01

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. number of units on top of one another

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

NOTICE

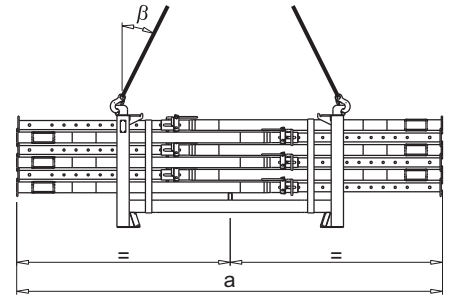
- Stacked multi-trip packagings with widely differing loads must have the heaviest boxes at the bottom and the lightest at the top!
- No castor wheels may be fitted to the bottom multi-trip packaging item in the stack.
- Secure multi-trip packagings with installed castor wheels using the fixing brake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

Using Doka stacking pallets as transport devices

Lifting by crane

NOTICE

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



92815-224-01

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

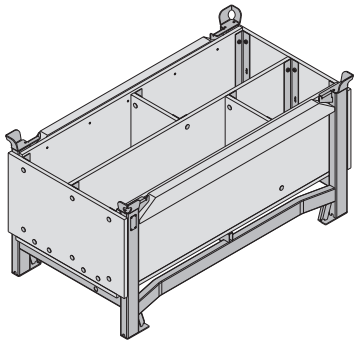
Repositioning by forklift truck or pallet stacking truck

NOTICE

- Load the items centrically.
- 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. number 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 multi-trip boxes or pallets on top of one another!	

NOTICE

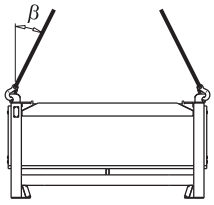
- Stacked multi-trip boxes or pallets must have the heaviest boxes at the bottom and the lightest at the top!
- Castor wheels must not be fitted to the bottom multi-trip packaging in the stack.
- Secure multi-trip packagings with installed castor wheels using the fixing brake when parking.

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

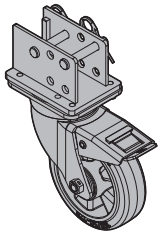
The forks can be inserted under either the broadside or the narrowside of the containers.

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.

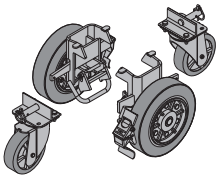


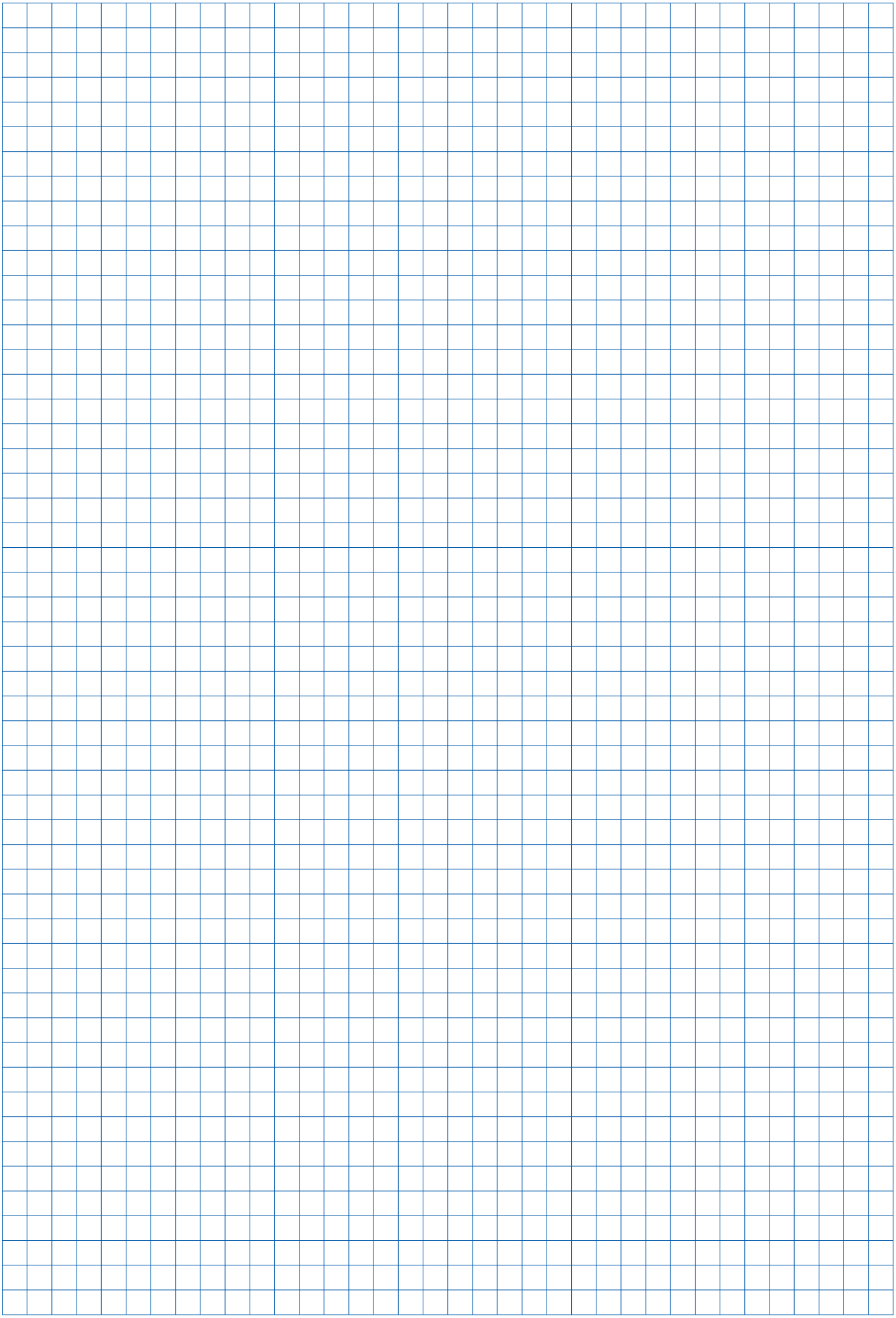
Bolt-on castor set B

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.
- Compatible multi-trip packaging items:
  - Doka accessory box
  - Doka stacking pallets (all sizes)
  - Protective barrier Z pallets

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



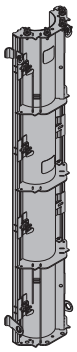


	[kg]	Article N°
Column element RS D30 3.00m	**149.0**	**587909000**
Column element RS D30 1.00m	**65.0**	**587908000**
Column element RS D30 0.50m	**36.0**	**587907000**
Column element RS D30 0.25m	**22.5**	**587944000**
Column element RS D35 3.00m	**166.0**	**587912000**
Column element RS D35 1.00m	**76.0**	**587911000**
Column element RS D35 0.50m	**42.0**	**587910000**
Column element RS D35 0.25m	**26.0**	**587945000**
Column element RS D40 3.00m	**175.0**	**587915000**
Column element RS D40 1.00m	**80.7**	**587914000**
Column element RS D40 0.50m	**44.9**	**587913000**
Column element RS D40 0.25m	**27.7**	**587946000**
Column element RS D45 3.00m	**188.0**	**587918000**
Column element RS D45 1.00m	**85.0**	**587917000**
Column element RS D45 0.50m	**48.0**	**587916000**
Column element RS D45 0.25m	**29.0**	**587947000**
Column element RS D50 3.00m	**195.0**	**587921000**
Column element RS D50 1.00m	**88.0**	**587920000**
Column element RS D50 0.50m	**49.0**	**587919000**
Column element RS D50 0.25m	**31.5**	**587948000**
Column element RS D60 3.00m	**217.0**	**587927000**
Column element RS D60 1.00m	**96.5**	**587926000**
Column element RS D60 0.50m	**53.0**	**587925000**
Column element RS D60 0.25m	**34.2**	**587950000**

Stützenelement RS

Painted blue

Ø 24, 25, 55, 65, 70, 75, 80, 90, 100, 110, 120, 130, 140, 150 and 180 cm on inquiry!



Panel strut 340 IB **24.3** **580365000**

Elementstütze 340 IB

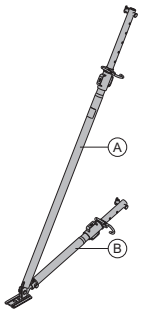
consisting of:

(A) **Plumbing strut 340 IB** **16.7** **588696000**
Galvanised
Length: 190.8 - 341.8 cm

(B) **Adjusting strut 120 IB** **7.6** **588248500**
Galvanised
Length: 81.5 - 130.6 cm

Galvanised

Delivery condition: folded closed



	[kg]	Article N°
Panel strut 540 IB	**41.4**	**580366000**

Elementstütze 540 IB

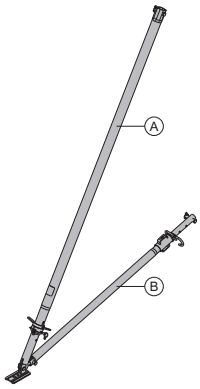
consisting of:

(A) **Plumbing strut 540 IB** **30.7** **588697000**
Galvanised
Length: 310.5 - 549.2 cm

(B) **Adjusting strut 220 IB** **10.9** **588251500**
Galvanised
Length: 172.5 - 221.1 cm

Galvanised

Delivery condition: folded closed



Eurex 60 550

Eurex 60 550

depending on length, comprising:

(A) **Plumbing strut Eurex 60 550** **42.5** **582658000**
Powder-coated blue
Aluminium
Length: 343 - 553 cm

(B) **Extension Eurex 60 2.00m** **21.3** **582651000**
Powder-coated blue
Aluminium
Length: 250 cm

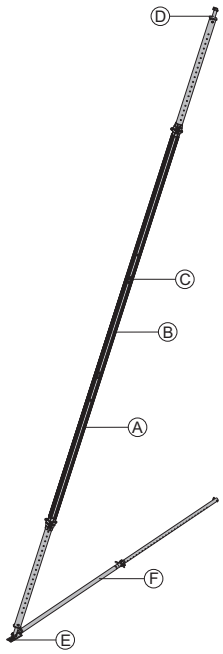
(C) **Coupler Eurex 60** **8.6** **582652000**
Aluminium
Length: 100 cm
Diameter: 12.8 cm

(D) **Connector Eurex 60 IB** **4.2** **582657500**
Galvanised
Length: 15 cm
Width: 15 cm
Height: 30 cm

(E) **Plumbing strut shoe Eurex 60 EB** **8.0** **582660500**
Galvanised
Length: 31 cm
Width: 12 cm
Height: 33 cm

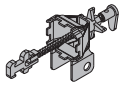
(F) **Adjusting strut 540 Eurex 60 IB** **27.8** **582659500**
Galvanised
Length: 303.5 - 542.2 cm

Delivery condition: separate parts



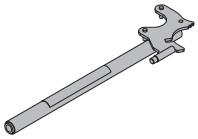
[kg] Article N°

Prop head EB 3.1 588244500
Stützenkopf EB



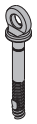
Galvanised
Length: 40.8 cm
Width: 11.8 cm
Height: 17.6 cm

Universal dismantling tool 3.6 582768000
Universal-Lösewerkzeug



Galvanised
Length: 75.5 cm

Doka express anchor 16x125mm 0.31 588631000
Doka-Expressanker 16x125mm



Galvanised
Length: 18 cm

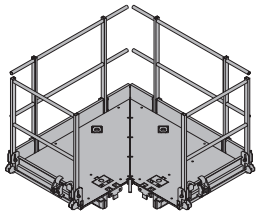
Doka coil 16mm 0.009 588633000
Doka-Coil 16mm

Galvanised
Diameter: 1.6 cm

Information plate for express anchor 0.1 588630000
Plakette Expressanker

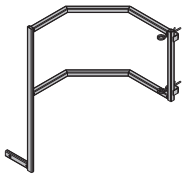
PS
Width: 8 cm
Height: 7.5 cm

Doka column formwork platform 150/90cm 211.8 588382000
Doka-Stützenbühne 150/90cm



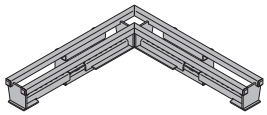
Galvanised
Length: 173 cm
Width: 173 cm
Height: 130 cm
Delivery condition: folded closed

Counter railing col. formwork plat. 150/90cm 8.0 588385000
Gegengeländer Stützenbühne 150/90cm



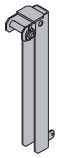
Galvanised
Width: 87 cm
Height: 170 cm

Platform adapter RS 17.5 587940000
Bühnenanschluss RS



Galvanised
Length: 78 cm
Width: 78 cm
Height: 19 cm

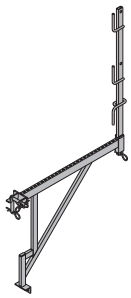
Bracket connection RS 5.2 587941000
Konsolenanschluss RS



Galvanised
Height: 61 cm

[kg] Article N°

Framax bracket 90 12.5 588167000
Framax-Konsole 90

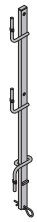


Galvanised
Length: 103 cm
Height: 185 cm
Delivery condition: railing included

Framax bracket 90 EP 9.0 588979000
Framax-Konsole 90 EP

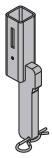
Galvanised
Length: 103 cm
Height: 84 cm

Handrail post 1.00m 3.8 584335000
Geländer 1,00m



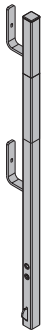
Galvanised
Length: 124 cm

Bracket adapter XP FRR 50/30 2.4 586486000
Konsolenadapter XP FRR 50/30



Galvanised
Height: 32 cm

Handrail post XP 1.20m 4.1 586460000
Geländersteher XP 1,20m



Galvanised
Height: 118 cm

Handrail clamp S 11.5 580470000
Schutzgeländerzwinge S

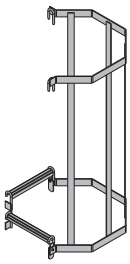
Galvanised
Height: 123 - 171 cm

	[kg]	Article N°
Universal railing shackle Universal-Geländerbügel Galvanised Height: 20 cm	**3.0**	**580478000**
Doka 4-part chain 3.20m Doka-Vierstrangkette 3,20m Follow the directions in the "Operating Instructions"!	**15.0**	**588620000**
Screw-set M16x45 8.8 Schraubensatz M16x45 8.8 Galvanised Width-across: 24 mm	**0.56**	**582831000**
Multi-purpose waling WS10 Top50 2.50m	**48.7**	**580009000**
Multi-purpose waling WS10 Top50 2.75m	**54.2**	**580010000**
Multi-purpose waling WS10 Top50 3.00m	**60.2**	**580011000**
Multi-purpose waling WS10 Top50 3.50m	**68.4**	**580012000**
Multi-purpose waling WS10 Top50 4.00m	**79.4**	**580013000**
Multi-purpose waling WS10 Top50 4.50m	**89.1**	**580014000**
Multi-purpose waling WS10 Top50 5.00m	**102.0**	**580015000**
Multi-purpose waling WS10 Top50 5.50m	**112.4**	**580016000**
Multi-purpose waling WS10 Top50 6.00m Mehrzweckriegel WS10 Top50 Painted blue	**118.0**	**580017000**
Super plate 15.0 Superplatte 15,0 Galvanised Height: 6 cm Diameter: 12 cm Width-across: 27 mm	**0.98**	**581966000**
Framax universal fixing bolt 10-25cm Framax-Universalverbinder 10-25cm Galvanised Length: 36 cm	**0.69**	**583002000**
Connecting pin 10cm Verbindungsbolzen 10cm Galvanised Length: 14 cm	**0.34**	**580201000**
Spring cotter 5mm Federvorstecker 5mm Galvanised Length: 13 cm	**0.03**	**580204000**
Sealing tape KS 20x5mm 10m Dichtungsband KS 20x5mm 10m	**0.17**	**580348000**

Ladder system XS

	[kg]	Article N°
Connector XS RS Anschluss XS RS Galvanised Length: 115 cm	**22.2**	**587955000**
Connector XS column formwork platform Anschluss XS Stützenbühne Galvanised Length: 123 cm	**10.0**	**588637000**
System ladder XS 4.40m System-Leiter XS 4,40m Galvanised	**33.2**	**588640000**
Ladder extension XS 2.30m Leiternverlängerung XS 2,30m Galvanised	**19.1**	**588641000**
Securing barrier XS Sicherungsschranke XS Galvanised Length: 80 cm	**4.9**	**588669000**
Ladder cage XS 1.00m	**16.5**	**588643000**
Ladder cage XS 0.25m Rückenschutz XS Galvanised	**10.5**	**588670000**

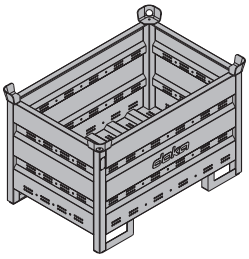
	[kg]	Article N°
Ladder cage exit XS Rückenschutz-Ausstieg XS Galvanised Height: 132 cm	**17.0**	**588666000**



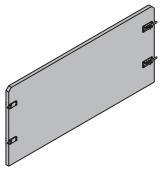
Multi-trip packaging

Doka skeleton transport box 1.70x0.80m Doka-Gitterbox 1,70x0,80m Galvanised Height: 113 cm	**87.0**	**583012000**

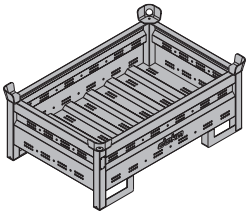
Doka multi-trip transport box 1.20x0.80m Doka-Mehrwegcontainer 1,20x0,80m Galvanised Height: 78 cm	**70.0**	**583011000**



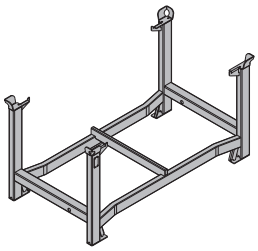
Multi-trip transport box partition 0.80m **Multi-trip transport box partition 1.20m** Mehrwegcontainer Unterteilung Steel parts galvanised Timber parts varnished yellow	**3.7** **5.5**	**583018000** **583017000**



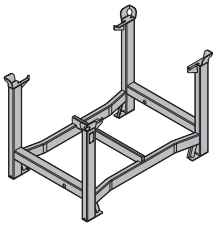
Doka multi-trip transport box 1.20x0.80x0.41m Doka-Mehrwegcontainer 1,20x0,80x0,41m Galvanised	**42.5**	**583009000**



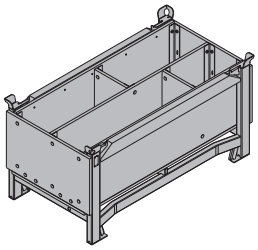
Doka stacking pallet 1.55x0.85m Doka-Stapelpalette 1,55x0,85m Galvanised Height: 77 cm	**41.0**	**586151000**



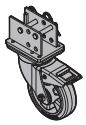
Doka stacking pallet 1.20x0.80m Doka-Stapelpalette 1,20x0,80m Galvanised Height: 77 cm	**38.0**	**583016000**



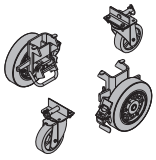
Doka accessory box Doka-Kleinteilebox Timber parts varnished yellow Steel parts galvanised Length: 154 cm Width: 83 cm Height: 77 cm	**106.4**	**583010000**



Universal castor wheel for transport pallet Universal-Lenkrolle Transportgebinde Galvanised Height: 28.8 cm	**6.0**	**584043000**



Bolt-on castor set B Anklemm-Radsatz B Painted blue	**33.6**	**586168000**



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