The Formwork Experts.

Doka floor end-shutter clamp

User Information
Instructions for assembly and use (Method statement)
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Introduction

Elementary safety warnings

User target groups

- This booklet is aimed at all persons who will be working with the Doka product or system that it describes. It contains information on the standard design for setting up this system, and on correct, compliant utilisation of the system.
- All persons working with the product described herein must be familiar with the contents of this booklet and with all the safety instructions it contains.
- Persons who are incapable of reading and understanding this booklet, or who can do so only with difficulty, must be instructed and trained by the customer.
- The customer is to ensure that the information materials provided by Doka (e.g. User Information booklets, Instructions for Assembly and Use, Operating Instruction manuals, plans etc.) are up to date and available to all users, and that they have been made aware of them and have easy access to them at the usage location.
- In the relevant technical documentation and 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 also be used as a generally valid set of Instructions for Assembly and Use (Method Statement), or it can be incorporated into a site-specific set of Instructions for Assembly and Use (Method Statement).
- The graphics in this document or app, and also the animations and videos, depict states of partial assembly in some instances and are therefore not always complete as regards their depiction of safety equipment and measures.
  Nevertheless, customer must ensure use in compliance with the applicable regulations of safety equipment possibly not shown in these graphics, animations and videos.
- The individual sections contain further safety instructions and 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 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).
- Mixing our formwork systems with those of other manufacturers can create risks that may lead to injury and damage to property. This requires separate verification.
- 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 out 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.
- All components must be stored safely, following all the special Doka instructions given in the relevant sections of this document!

Maintenance

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

Miscellaneous

The weights as stated are averages for new material; actual weights can differ, depending on material tolerances. Dirt accretions, moisture saturation, etc. can also affect weight.

We reserve the right to make alterations in the interests of technical progress.

Symbols used

The following symbols are used in this document:

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

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

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

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

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

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

- **Tip**
  Points out useful practical tips.

- **Reference**
  Cross-references other documents.
Doka services

Support in every stage of the project

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

Project assistance from start to finish

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

Efficient planning for a safe project sequence

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

Optimise construction workflows with Doka

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

Custom formwork and on-site assembly

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

Just-in-time availability

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

Rental and reconditioning service

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

High performance, in all stages of the project

- Execution planning
- Cycle planning
- Structure modelling/3D-planning
- Assembly drawings
- Statical calculation

- Project processing on-site
- Formwork instructor
- Training & consulting

- Concremote
- myDoka
- Planning software
- Depot management

- Pre-assembly service
- Formwork pre-assembly on site

- Organisation of transport & freight

- Rental service
- Formwork returns
- Reconditioning & service fixed rates
Product description

Doka floor end-shutter clamp
The Doka floor end-shutter clamp is used for fast, safe forming of slab stop-ends.
- For slab thicknesses of up to 60 cm
- 3 different fixing methods
- Various types of stop-end are possible
- Fits all standard Doka handrail posts (also complies with the requirements of DIN EN 13374)
- Can be mounted and dismounted from either above or below when the End-shutter shoe is used
- Low unit weight (can be separated into 2 parts)

System dimensions

Doka floor end-shutter clamp

![Diagram of Doka floor end-shutter clamp]

Height of anchor-point from top of wall:
- \( h_1 \) ... 15 - 57.5 cm with End-shutter shoe
- \( h_2 \) ... 18 - 57.5 cm using a Tie rod 15.0 and Bridge edge beam anchor 15.0

\( b \) ... formwork overlap min. 2 cm (as a rule, 5 cm)
\( c \) ... stop-end width 2 - 15 cm
\( d \) ... slab thickness max. 60 cm

Practical example

The edge railings must be mounted before the formwork sheets are laid out.

Note:
**Attachment methods**

<table>
<thead>
<tr>
<th></th>
<th>with End-shutter shoe and End-shutter tie rod 15.0 15-40cm</th>
<th>with Tie rod 15.0 and Super plate 15.0</th>
<th>with Bridge edge beam anchor 15.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diagram</td>
<td><img src="image1" alt="Diagram" /></td>
<td><img src="image2" alt="Diagram" /></td>
<td><img src="image3" alt="Diagram" /></td>
</tr>
</tbody>
</table>

**Stop-end**

<table>
<thead>
<tr>
<th></th>
<th>with framed formwork panels</th>
<th>with Doka beam H20 and form-ply</th>
<th>with planks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diagram</td>
<td><img src="image4" alt="Diagram" /></td>
<td><img src="image5" alt="Diagram" /></td>
<td><img src="image6" alt="Diagram" /></td>
</tr>
</tbody>
</table>

**Ways of safeguarding slab edges**

<table>
<thead>
<tr>
<th></th>
<th>with Handrail post XP 1.20m</th>
<th>with Handrail post 1.10m</th>
<th>with Handrail post 1.00m</th>
<th>with Scaffold tube 48.3mm and screw-on couplers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diagram</td>
<td><img src="image7" alt="Diagram" /></td>
<td><img src="image8" alt="Diagram" /></td>
<td><img src="image9" alt="Diagram" /></td>
<td><img src="image10" alt="Diagram" /></td>
</tr>
</tbody>
</table>
Instructions for assembly and use (Method statement)

The procedures shown here assume that End-shutter shoes are being used. See "Assembly" for details of other fixing options.

To make it easier to mount, the Doka floor end-shutter clamp can be separated into 2 parts (see the section headed "Dismantling the Doka floor end-shutter clamp"). This also makes it possible to mount it from a ladder or when working in confined spaces.

working from a facade scaffold

Read and observe the Instructions for Assembly and Use provided by the working scaffold manufacturer!

➤ Erect the facade scaffold.
➤ Mount the End-shutter tie rod and End-shutter shoe (see the section headed ‘Assembly’).
➤ Tighten the End-shutter tie rod on the inside with the Super plate 15.0 (C).
➤ Dismantle the Doka floor end-shutter clamp.
➤ Insert the End-shutter bracket into the End-shutter shoe.

working from a Bracket platform M or Folding platform K

Follow the directions in the relevant User Information booklet!

➤ Mount the Bracket platform M or Folding platform K.
➤ Set up a climbing aid if needed.
➤ Mount the End-shutter tie-rod and End-shutter shoe (see “Assembly”).
➤ Tighten the End-shutter tie-rod on the inside with the Super-plate 15.0 (C).
➤ Insert the Doka floor end-shutter clamp into the End-shutter shoe.

Practical example with Folding platform K

Fixing the Doka floor end-shutter clamp with a Bridge edge beam anchor, tie-rod and Super-plate

a ... max. 30 cm
➤ Mount the End-shutter slide onto the End-shutter bracket.
➤ Mount the formwork (see the section headed “Stop-ends”).
➤ Mount the railings (see "Safeguarding the slab edges").
working from a ladder

➤ Put up the ladder so that it stands firmly.
➤ Mount the End-shutter tie-rod and End-shutter shoe (see “Assembly”).
➤ **Tighten the End-shutter tie-rod on the inside with the Super-plate 15.0 (C).**
➤ Dismantle the Doka floor end-shutter clamp
➤ Insert the End-shutter bracket into the End-shutter shoe.

![Image of a person working on a ladder]

➤ Mount the End-shutter slide onto the End-shutter bracket.
➤ Mount the formwork (see the section headed "Stop-ends").
➤ Mount the railings (see "Safeguarding the slab edges").

Dismantling

To dismantle, perform the above steps in reverse order.

⚠️ **NOTICE**

To safely dismount the Doka floor end-shutter clamp 'from above’, use personal protective equipment to protect against falls (e.g. a Doka personal fall-arrest set)!
Assembly

Variant 1

'1-man-assembly' using End-shutter shoe and End-shutter tie rod 15.0 15-40cm

➤ Prepare tie-holes, spaced the chosen distance apart (see the section headed 'Structural design').

On walls formed by framed formwork panels, the existing tie-holes can be used.

➤ Working from the outside, push the End-shutter tie rod 15.0 15-40cm through the End-shutter shoe and the tie-hole.

Notices

➤ Tighten the End-shutter shoe firmly!
This ensures that the Doka floor end-shutter clamp is safely positioned.

➤ Secure from the inside by turning the Super plate 15.0.

Make sure that the End-shutter shoes are correctly positioned in the vertical (you can see this from the inside by checking that the flattened ‘sides’ of the End-shutter tie rod are in the vertical)!
If necessary, re-tighten the End-shutter tie rod 15.0 15-40cm with a Tie-rod wrench 15.0/20.0.

➤ Determine the required height position on the Doka floor end-shutter clamp itself, or find this out from the project plan, and insert a fastening bolt into the appropriate hole (see the section headed 'System dimensions').

➤ If a Universal plug R20/25 or Plug for closure plate R25 has been plugged into the End-shutter clamp, remove this plug. The plug is only needed in Methods 2 and 3.

The Doka floor end-shutter clamp is designed so that when it is used in Method 1 (with an End-shutter shoe) the stop-end will stand exactly in the vertical without needing any Universal plug R20/25 or Plug for closure plate R25.

When the End-shutter clamp is used without these distancer plugs in Method 2 or 3 (without an End-shutter shoe), the stop-end will be inclined slightly forward. If this is not desired, then one of these two types of distancer plug must be fitted.
Insert the Doka floor end-shutter clamp into the End-shutter shoe.

Close-up: extra hole for optional anti-liftout guard, e.g. Spring cotter 5mm

Loosen the Impact wedge 170mm and Slide wedge 235mm.

Install the stop-end, for example with framed formwork panels (for other types of stop-end see the section headed 'Stop-ends').

Push the End-shutter slide up against the stop-end.

Push the wedge unit towards the stop-end.

Tighten the Impact wedge 170mm (until the hammer rebounds from the wedge).

Press the End-shutter slide against the stop-end with the Slide wedge 235mm.

Mount the desired railings (see the section headed 'Safeguarding the slab edges').
## Variant 2

### Mounting using Tie rods 15.0 and Super plates 15.0:

**WARNING**
Sensitive rod steel!
- Never weld or heat tie rods.
- Tie rods that are damaged or have been weakened by corrosion or wear must be withdrawn from use.

➤ Prepare tie-holes, spaced the chosen distance apart (see the section headed ‘Structural design’).

On walls formed by framed formwork panels, the existing tie-holes can be used.

➤ One person pushes the Tie rod 15.0 through the tie-hole from the inside, with a Super plate 15.0 already screwed onto it.

➤ Determine the required height position on the Doka floor end-shutter clamp itself, or find this out from the project plan, and insert a fastening bolt into the appropriate hole (see the section headed ‘System dimensions’).

If not already fitted, plug a Universal plug R20/25 or Plug for closure plate R25 into the hole in the Doka floor end-shutter clamp.

The Doka floor end-shutter clamp is designed so that when it is used in Method 1 (with an End-shutter shoe) the stop-end will stand exactly in the vertical without needing any Universal plug R20/25 or Plug for closure plate R25.

When the End-shutter clamp is used without these distancer plugs in Method 2 or 3 (without an End-shutter shoe), the stop-end will be inclined slightly forward. If this is not desired, then one of these two types of distancer plug must be fitted.

➤ Working from the outside, push the Doka floor end-shutter clamp onto the tie rod (so that the fastening bolts rest on the top of the tie rod), and tighten it with a Super plate 15.0.

Loosen the Impact wedge 170mm and Slide wedge 235mm.
Install the stop-end, for example with framed formwork panels (for other types of stop-end see the section headed 'Stop-ends').

Push the End-shutter slide up against the stop-end.

Push the wedge unit towards the stop-end.

Tighten the Impact wedge 170mm (until the hammer rebounds from the wedge).

Press the End-shutter slide against the stop-end with the Slide wedge 235mm.

Mount the desired railings (see the section headed 'Safeguarding the slab edges').
Variant 3

Mounting using Bridge edge beam anchor 15.0

Fitting the Bridge edge beam anchor:
➤ The required spacing of the anchorage points in the concrete must be prepared before the walls are poured (see the section headed ‘Structural design’).
➤ Nail a nailing cone to the form-ply (position as shown in shop drawing / assembly plan).

Push the Bridge edge beam anchor onto the nailing cone.

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

After the formwork has been struck:
➤ Remove the nailing cone from the anchoring point.

Twist a Tie rod 15.0 0.50m into the Bridge edge beam anchor 15.0.

Determine the required height position on the Doka floor end-shutter clamp itself, or find this out from the project plan, and insert a fastening bolt into the appropriate hole (see the section headed ‘System dimensions’).

If not already fitted, plug a Universal plug R20/25 or Plug for closure plate R25 into the hole in the Doka floor end-shutter clamp.
The Doka floor end-shutter clamp is designed so that when it is used in Method 1 (with an End-shutter shoe) the stop-end will stand exactly in the vertical without needing any Universal plug R20/25 or Plug for closure plate R25.

When the End-shutter clamp is used without these distancer plugs in Method 2 or 3 (without an End-shutter shoe), the stop-end will be inclined slightly forward. If this is not desired, then one of these two types of distancer plug must be fitted.

- Working from the outside, push the Doka floor end-shutter clamp onto the tie rod (so that the fastening bolts rest on the top of the tie rod), and tighten it with a Super plate 15.0.

- Loosen the Impact wedge 170mm and Slide wedge 235mm.

- Install the stop-end, for example with framed formwork panels (for other types of stop-end see the section headed 'Stop-ends').

- Push the End-shutter slide up against the stop-end.

- Push the wedge unit towards the stop-end.
- Tighten the Impact wedge 170mm (until the hammer rebounds from the wedge).
- Press the End-shutter slide against the stop-end with the Slide wedge 235mm.

- Mount the desired railings (see the section headed 'Safeguarding the slab edges').

**Dismantling**

To dismantle, perform the above steps in reverse order.

**NOTICE**

To safely dismount the Doka floor end-shutter clamp 'from above', use personal protective equipment to protect against falls (e.g. a Doka personal fall-arrest set)!
## Using on brick walls

**Note:**
Only fixing-method 2 is possible (Tie-rod and Super-plate 15.0).

### WARNING
- Extra tie-backs needed on the inside, e.g. with plumbing struts.

### Installation

- Only anchor in masonry that has sufficient load-bearing capacity.
  - Bulk density ≥ 0.8 kg/dm³
  - Characteristic compressive strength: ≥ 10 N/mm² (100 kg/cm²)
  - Wall thickness at least 24 cm

### NOTICE
- Special care is needed when preparing suspension points in masonry. Every suspension point must be inspected by a skilled person before being loaded.

#### Drilled holes in the footplates

- **Drilled holes in the footplates**
  - a ... diam. 26 mm
  - b ... diam. 18 mm

#### Anchoring the footplate

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

  - Characteristic cube compressive strength of the concrete ($f_{ck,cube}$):
    - min. 15 N/mm² (C12/15 grade concrete)
  - Follow the directions in the 'Doka express anchor 16x125mm' Fitting Instructions!

#### Required safe working load of alternative anchors for footplates:

- $R_d \geq 20.3$ kN ($F_{permissible} \geq 13.5$ kN)
- Follow the manufacturers’ applicable fitting instructions.

#### Dismantling

- Remove the Doka floor end-shutter clamp.
  - Before proceeding with any further work-steps, make absolutely sure that the Doka floor end-shutter clamps have been removed from the suspension points.
  - Unscrew the Express anchor or dowel, and remove the suspension point.
Dismantling the Doka floor end-shutter clamp

To make it easier to mount, the Doka floor end-shutter clamp can be separated into 2 parts.

➤ Loosen the Impact wedge 170mm and Slide wedge 235mm.

➤ Move the End-shutter slide inwards until the Slide wedge 235mm can be pulled into the profiled tube (see close-up).

➤ Pull the End-shutter slide off the End-shutter bracket.

Animation: https://player.vimeo.com/video/284892759

Assembling the Doka floor end-shutter clamp

➤ To assemble the Doka floor end-shutter clamp, carry out the above steps in reverse order.
Stop-ends

**NOTICE**
Make sure that the stop-end extends at least 15 cm above the height of the finished floor-slab! If it does not, an extra toeboard must be mounted!

If a foam rubber seal (e.g. Sealing tape KS) is inserted on the underside of the formwork, this prevents cement slurry seeping out.

**with framed formwork panels**

Possible framed formwork panels (max. width see the section headed 'Structural design'):
- Framax Xlife panels
- Alu-Framax Xlife panels
- Frami Xlife panels

**with Doka beam H20 and form-ply**

Note:
As a basic rule, it is forbidden to use formwork beams "horizontally" (i.e. with the load-direction perpendicular to the web). However, the application shown here – with the Doka floor end-shutter clamp – is allowed.

**with planks**

Note:
When e.g. 60 cm wide framed formwork panels are used with 2 cm of formwork overlap, slab thicknesses of up to 58 cm are possible.
Safeguarding the slab-edges

Note:
The plank and board thicknesses given here comply with the C24 category of EN 338. Observe all national regulations applying to deckboards and guard-rail boards.

### Handrail post XP 1.20m

- Follow the directions in the ‘Edge protection system XP’ User Information booklet.

- Push the Handrail post XP 1.20m into the handrail-post holder of the Doka floor end-shutter clamp until it locks (‘Easy-Click’ function).

- Hang the Protective grating XP into place in all 4 Handrail-post plates.

The Handrail post XP 1.20m also allows guardrail boards and scaffold tubes to be used as the side railings.

### Handrail post 1.10m

- Follow the directions in the ‘Handrail post 1.10m’ User Information booklet.

- Twist a Handrail post 1.10m into the Doka floor end-shutter clamp until it is fully engaged.

- Insert guardrail boards and secure them with nails.

### Handrail post 1.00m

- Insert a Handrail post 1.00m into the handrail-post holder on the Doka floor end-shutter clamp and secure it with a Spring cotter 5mm (included with product).

- Add a wooden spacer (11x3.5x2cm – provided at site).

- Insert guardrail boards and secure them with nails.

Note:
The Protective grating XP can only be used on 45 cm wide framed formwork panels, and only for as long as the formwork is left in place. After the formwork has been stripped out, other safety barriers must be put up.
Scaffold tube 48.3mm

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

➤ NOTICE
There must be an at least 15 cm high toeboard in place around the edge of the finished floor slab.

➤ Fasten 2 Screw-on couplers 48mm 50 onto the Doka floor end-shutter clamp.
➤ Firmly clamp the Scaffold tube 48.3mm 1.50m to the screw-on couplers.
➤ Fasten horizontal scaffold tubes onto the vertical scaffold tube using Normal couplers 48mm.

B Doka floor end-shutter clamp
G Screw-on coupler 48mm 50
H Scaffold tube 48.3mm
I Normal coupler 48mm
Additional areas of use

Fall protection behind flat-roof parapets

**NOTICE**
In this application, the Doka floor end-shutter clamp must not be used as a working platform or as a stop-end for concrete loads.

Standard utilisation

End-shutter slide turned 180°

<table>
<thead>
<tr>
<th>a</th>
<th>max. 11 cm</th>
</tr>
</thead>
<tbody>
<tr>
<td>b</td>
<td>min. 100 cm</td>
</tr>
</tbody>
</table>

- **A** Doka floor end-shutter clamp
- **B** Wedge 235mm
- **C** Wedge 170mm
- **D** End-shutter slide
- **E** Formwork sheet fixed on by nails
- **F** Toeboard (e.g. 3-SO formwork sheet, height 50 cm, site-provided)
- **G** Handrail post XP 1.20m
- **H** Protective grating XP 2.70x1.20m
- **I** Deck-board, max. 50x160 mm (site-provided)
- **J** Flashing

<table>
<thead>
<tr>
<th>a</th>
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<tr>
<td>b</td>
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- **G** Handrail post XP 1.20m
- **H** Protective grating XP 2.70x1.20m
- **K** Deck-board, max. 50x350 mm (site-provided)
- **L** Squared timber, 40x40 mm (site-provided)
- **M** Flashing leaving gap for thermal insulation
- **N** Spring cotter 5 mm (not included in scope of supply)
Modifying the Doka floor end-shutter clamp

➤ Dismount the End-shutter slide (see the section headed ‘Dismantling the Doka floor end-shutter clamp’).
➤ Turn the End shutter slide 180° and push it back onto the Doka floor end-shutter clamp.
➤ Fix the End-shutter slide with a Wedge 170mm and secure this with a Spring cotter 5mm to prevent accidental removal. Leave the Wedge 235mm hanging loosely.

Animation: [https://player.vimeo.com/video/284892974](https://player.vimeo.com/video/284892974)

At the end of the project, restore the Doka floor end-shutter clamp to its standard configuration.

Structural design

<table>
<thead>
<tr>
<th>Edge-protection component</th>
<th>Permitted influence width [cm]</th>
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<tbody>
<tr>
<td>Guardrail boards 20 cm ¹</td>
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<td>Guardrail boards 15 cm ¹</td>
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<td>Protective grating XP 2.70x1.20m</td>
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<td>Scaffold tubes</td>
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¹) Diagonal bracing tube needed between the toeboard and the waist-level guard rail, as a stiffening reinforcement.
**Structural design**

**NOTICE**
Every stop-end element must be supported by 2 Doka floor end-shutter clamps. This requires planning!

**with guard rails**

---

### Permitted cantilever (b) of edge-protection components

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### Permitted influence width 'e' (cm)

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**Distance of anchor-point 'h' below top of wall [cm]**

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</table>

1) Sealing tape KS required (deflection of 2 mm has been allowed for)

2) When used without Sealing tape KS, the influences must be reduced by 20% (deflection 1 mm)

3) Max. influence when erected with guardrail boards 20 cm: 120 cm; with guardrail boards 15 cm: 170 cm; Protective grating XP 2.70x1.20: 250 cm

4) 2 Doka beams H20 required (see Practical example)

5) For dimensioning when using alternative (i.e. non-Doka) anchorages
User Information

**Doka floor end-shutter clamp**

**without guard rails**

---

**Practical example**

**Stop-end with 2 Doka beams H20**

---

**Permitted influence width ‘e’ [cm]**

<table>
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<tr>
<th>Slab thickness ‘d’ [cm]</th>
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<th>40</th>
<th>45</th>
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<th>57.5</th>
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<th>Doka beam H20 + form-ply</th>
<th>Planks, 5x20 cm</th>
<th>Frami Xlife panel 0.60m</th>
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<td>140</td>
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1) Sealing tape KS required (deflection of 2 mm has been allowed for)
2) When used without Sealing tape KS, the influences must be reduced by 20% (deflection 1 mm)
4) 2 Doka beams H20 required (see Practical example)
5) For dimensioning when using alternative (i.e. non-Doka) anchorages

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**Permitted vertical load $F_V$ on End-shutter shoe (without horizontal load):** 3 kN
<table>
<thead>
<tr>
<th>Description</th>
<th>Article n°</th>
<th>[kg]</th>
<th>Description</th>
<th>Article n°</th>
<th>[kg]</th>
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**Notes:**
- For dimensions, follow the directions in the "Fitting instructions".
- The components are available in different colors and materials, as indicated.
- Dimensions vary depending on the specific model.
- Ensure compatibility with other Doka products for a seamless installation.

**Galvanised**: For durability and resistance to corrosion.

**Height:**
- 137 cm
- 13.5 cm

**Width:**
- 27 mm

**Length:**
- 7 cm
- 146.8 - 256.7 cm
- 190.8 - 341.8 cm

**Diameter:**
- 12 cm
- 3 cm

**Color Options:**
- Black
- Grey
- Blue

**Fitting Instructions:**
Follow the directions in the "Fitting instructions" for proper installation and usage.
**User Information**

**Doka floor end-shutter clamp**

Component overview

- **Plumbing strut 540 IB**
  - Justierstüze 540 IB
  - Galvanised
  - Length: 310.5 - 549.2 cm
  - 30.7 kg
  - Article n°: 588697000

- **Strut shoe EB**
  - Strebenschuh EB
  - Galvanised
  - Width: 8 cm
  - Height: 13 cm
  - 0.93 kg
  - Article n°: 588946000

- **Multi-purpose waling WS10 Top50**
  - Mehrzweckriegel WS10 Top50
  - Painted blue
  - Length: 0.50m - 6.00m
  - 10.2 kg
  - Article n°: 580001000

- **Handrail post XP 1.20m**
  - Schutzgeländer 1,10m
  - Galvanised
  - Height: 118 cm
  - 4.1 kg
  - Article n°: 586460000

- **Screw-on coupler 48mm 50**
  - Anschraubkupplung 48mm 50
  - Galvanised
  - Width-across: 22 mm
  - Follow the directions in the "Fitting instructions"!
  - 0.84 kg
  - Article n°: 682002000

- **Normal coupler 48mm**
  - Normalkupplung 48mm
  - Galvanised
  - Width-across: 22 mm
  - Follow the directions in the "Fitting instructions"!
  - 1.2 kg
  - Article n°: 682004000

- **Sealing tape KS 10x3mm 10m**
  - Dichtungsband KS
  - Galvanised
  - Length: 37 cm
  - Diameter: 8 cm
  - 0.07 kg
  - Article n°: 581840000

- **Sealing tape KS 20x5mm 10m**
  - Dichtungsband KS
  - Galvanised
  - Length: 37 cm
  - Diameter: 8 cm
  - 0.17 kg
  - Article n°: 580348000
<table>
<thead>
<tr>
<th>Article n°</th>
<th>[kg]</th>
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</tr>
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<tbody>
<tr>
<td>583022000</td>
<td>3.6</td>
<td>Doka personal fall-arrest set</td>
</tr>
</tbody>
</table>

Follow the directions in the "Operating Instructions"!
Doka is one of the world leaders in developing, manufacturing and distributing formwork technology for use in all fields of the construction sector. With more than 160 sales and logistics facilities in over 70 countries, the Doka Group has a highly efficient distribution network which ensures that equipment and technical support are provided swiftly and professionally. An enterprise forming part of the Umdasch Group, the Doka Group employs a worldwide workforce of more than 6000.