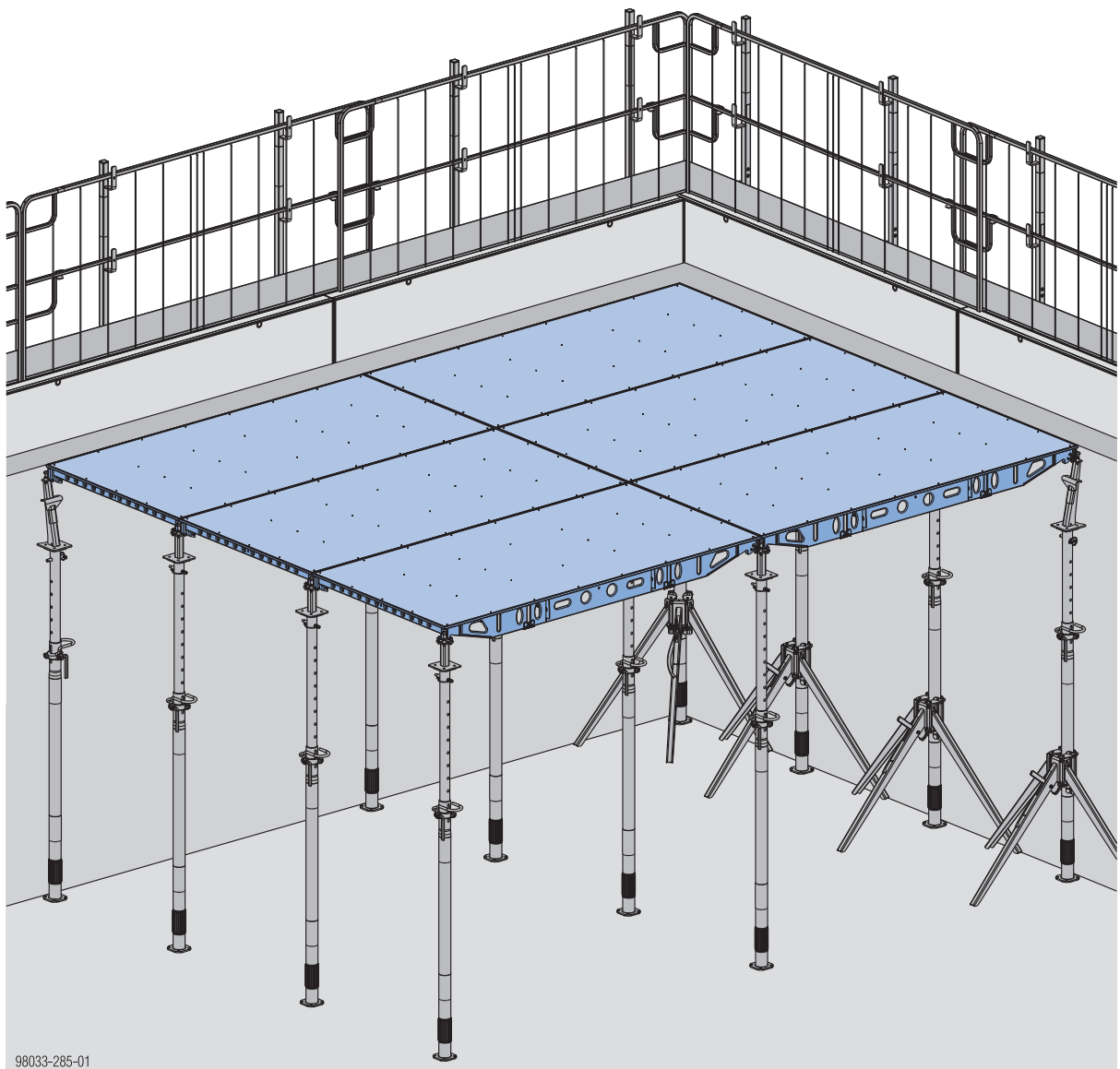


The Formwork Experts.

Panel floor formwork Dokadek 30

User Information

Instructions for assembly and use



Contents

4	Introduction
4	Basic safety warnings
7	Doka services
9	Panel floor formwork Dokadek 30
10	System overview
13	Instructions for assembly and use
13	Method statement overview
14	Basic rules
22	Operating with assembling tool
32	Forming infill zones
44	Floor formwork around edges
54	Additional areas of use
54	Sloping slabs
58	Additional precautions for slab thicknesses of up to 1'-8" (50 cm)
62	Forming past room-high openings in walls
63	Using Doka floor props Eurex 20 550
64	General remarks
64	Combining with other Doka systems
65	Transporting, stacking and storing
81	Cleaning and care of your equipment
83	Shoring system, reshoring, concrete technology and stripping
87	Product overview

Introduction

Basic 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 utilization 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 insure that the information materials provided by Doka (e.g. User Information booklets, Method Statements, Operating Instruction manuals, plans etc.) are up to date and available to all users, and that users have been made aware of them and have easy access to them at the usage location.
- In the relevant technical documentation and formwork utilization 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 must ensure compliance with the national applicable laws, standards and rules 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 utilize 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; occupational health & safety

- All laws, Standards, industrial safety regulations and other safety rules applying to the application and utilization 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 shall ensure that this product is erected and dismantled, repositioned 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 shall 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).
- The functional / technical instructions, safety warnings and loading data shall all be strictly observed and complied with. Non-compliance can cause accidents and severe injury (risk of fatality) and serious damage to property.
- Sources of fire in the vicinity of the formwork are prohibited. Heaters are permissible only when used correctly and situated at a correspondingly safe distance from the formwork.
- Customer must give due consideration to any and all effects of the weather on the equipment and regards both its use and storage (e.g. slippery surfaces, risk of slipping, effects of the wind, etc.) and implement appropriate precautionary measures to secure the equipment and surrounding areas and to protect workers.
- All connections must be checked at regular intervals to ensure that they are secure and in full working order.
In particular threaded connections and wedged connections have to be checked and retightened as necessary in accordance with activity on the jobsite and especially after out-of-the-ordinary occurrences (e.g. after a storm).
- It is strictly prohibited to weld or heat Doka products, particularly parts for anchoring, suspension or connecting, and also cast parts, etc.
Welding radically changes the micro-structure of the materials of which these components are made. This leads to a drastic reduction in failure load, constituting a serious safety risk.
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.

Welding work can be done only on the articles expressly mentioned in the Doka documents as being suitable for work of this nature.

Assembly

- The equipment/system must be inspected by the customer before use, to ensure that it is in suitable condition. Steps must be taken to rule out the use of components that are damaged, deformed, or weakened due to wear, corrosion or rot (e.g. fungal decay).
- The use of our safety systems and formwork systems in combination with those of other manufacturers could be dangerous, risking injury to health and damage to property, and therefore requires separate checking.
- The equipment/system must be assembled and erected in accordance with the applicable laws, standards and rules by suitably skilled personnel of the customer's, having regard to any and all required safety inspections.
- It is not permitted to modify Doka products; any such modifications constitute a safety risk.

Erecting the formwork

- Doka products and systems must be set up in such a way that all loads acting upon them are safely transferred!

Pouring

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

Stripping the formwork

- Do not strip the formwork until the concrete has reached sufficient strength and the person in charge has given the order for the formwork to be stripped!
- When stripping 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 S bias-cut corners.
- When stripping 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 booklet, 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 authorized facilities.

Miscellaneous

The weights are averages on the basis of new material. Actual weights can vary due to material tolerances. Weights can also differ on account of dirtying, moisture absorption, etc.

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

Symbols

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.



NOTE

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.



Visual inspection

Indicates that actions performed must be checked by means of a visual inspection.



Tip

Draws attention to a useful tip for best-practice usage.



Reference

Cross-references other documents.

Doka services

Support in every phase of the project

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



Project assistance from start to finish

Every project is unique and calls for individualized 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 customized 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.

Optimize construction workflows with Doka

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

Custom formwork and on-site assembly

Doka complements its system formwork with customized formwork units. Specially trained personnel assemble load-bearing towers and formwork on site.

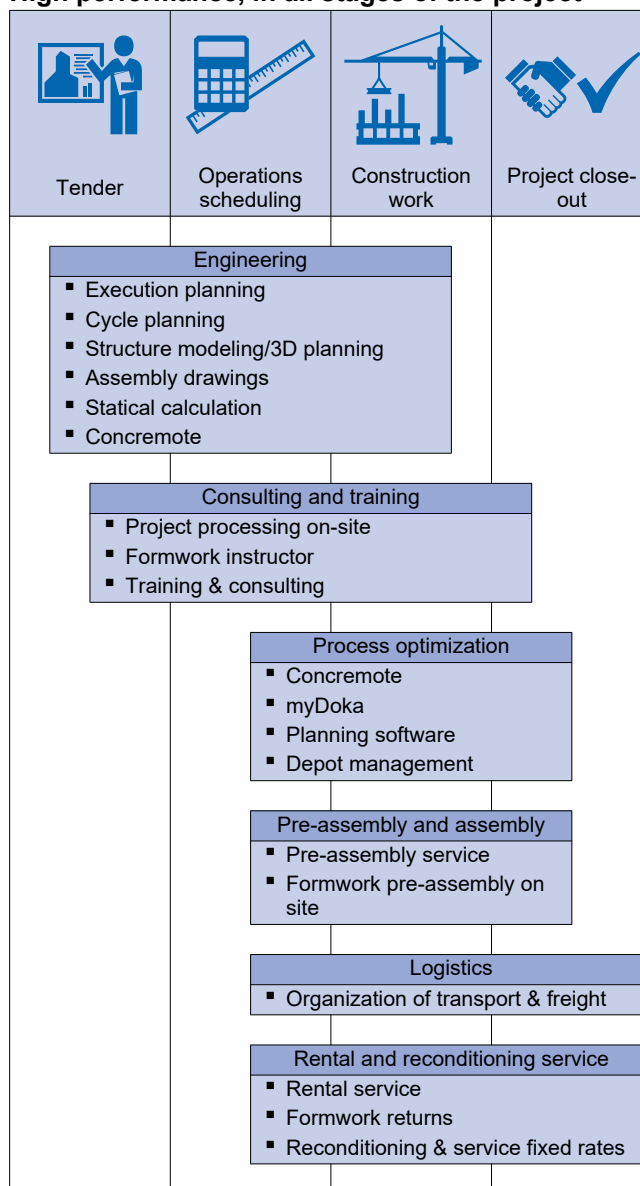
Just-in-time availability

Formwork availability is vital for on-time, on-budget realization of your project. 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 client-owned equipment and Doka rental equipment.

High performance, in all stages of the project



Panel floor formwork Dokadek 30

Tremendously fast forming

because the typical zone and the infill zone are integrated

- The typical zones are formed simply by tilting up the beam-less panels, each of up to 32 ft² (3 m²) in area
- seamless integration with Dokaflex saves time at the infills
- grid-independent adaptation to any floorplan because interfaces directly to Dokaflex
- uncluttered logistics, as there are only two sizes of panel 8'-0" x 4'-0" (2.44 m x 1.22 m) and 4'-0" x 2'-8" (2.44 m x 0.81 m)
- simple handset routine, so a 2-man team can proceed with zero stoppages

Short learning curve

because the process is logical

- no sizing, no measuring out because layout and numbers of props and panels are clear
- defined sequence of handset routines, so personnel familiarized with the procedure work in safety
- system consists of only a limited number of individual parts, so familiarization time is short
- Dekdrive for horizontally maneuvering Dokadek 30 gangforms up to 128 ft² (12 m²) – even through narrow openings

Extra-safe working

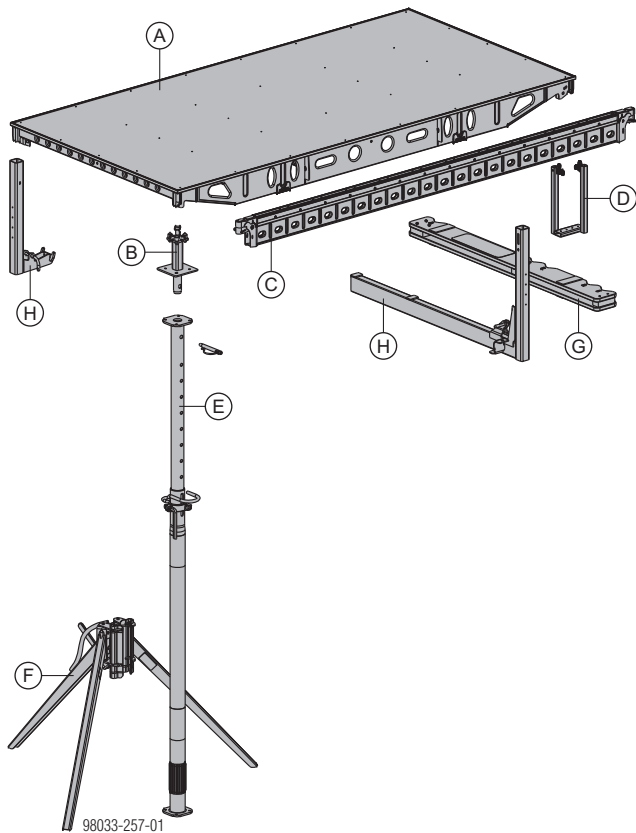
because the crew works from floor level

- panels are erected from below, with no ladders or cranes needed
- ergonomic grips in the edge sections for safe two-person handling
- Integral anti-liftout guard built into every panel



System overview

How to erect



- A** Dokadek panels
- B** Dokadek heads
- C** Dokadek infill beam
- D** Dokadek suspension clamp H20
- E** Doka floor props Eurex 30 top
- F** Removable folding tripod
- G** Dokadek wall clamp
- H** Dokadek handrail-post shoes

The Dokadek 30 system components

Dokadek panels

- galvanized, yellow coated steel frames with riveted wood/plastic composite sheets
- delivered on Dokadek panel pallets

Dokadek panel 4'-0"x8'-0" (1.22x2.44m)	Dokadek panel 2'-8"x8'-0" (0.81x2.44m)

Dokadek heads

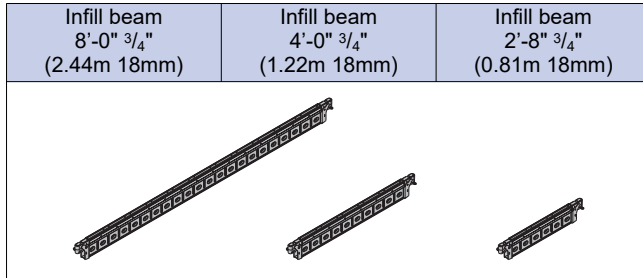
- for holding the Dokadek panels safely
- with a built-in anti-liftout guard for the Dokadek panels

Support head	Edge head 18mm	Cross head
1)	1)	1)
Corner head	Wall head	

1) Spring locked connecting pin 16mm not included with product

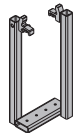
Dokadek infill beam

- for infilling along edges and around columns
- delivered on Dokadek infill-beam pallets



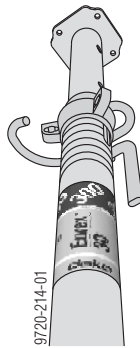
Dokadek suspension clamp H20

These are hooked into the infill beams and make it possible to transition from the Dokadek 30 system to the Dokaflex system.



Doka floor props Eurex 30 top

- Permitted load-bearing capacity: 8500 lbs (38 kN) with a safety factor of 3:1



Their high load-bearing capacity is complemented by many practical details making them very easy to handle:

- numbered pegging holes for easier height adjustment
- elbowed fastening clamps, reducing the risk of injury and making the props easier to operate
- special thread geometry makes the props easier to back off even under high load



Follow the directions in the 'Eurex top floor props' User Information booklet!



WARNING

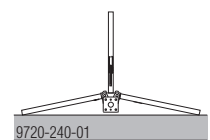
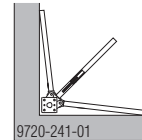
► It is **not permitted** to use the **Floor prop extension 0.50m**.

Removable folding tripod top

- for holding floor props upright
- swing-out legs allow flexible placement in constricted situations such as along edges and in corners

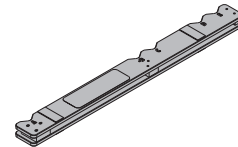


Setting up tripods in corners or up against walls



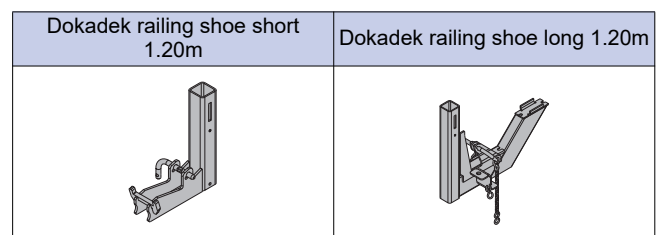
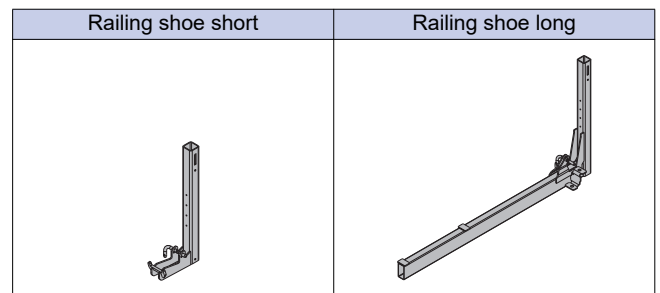
Dokadek wall clamp

- for holding floor props upright next to walls
- with an integrated template for measuring-up the right spacing of the floor props



Dokadek handrail-post shoes

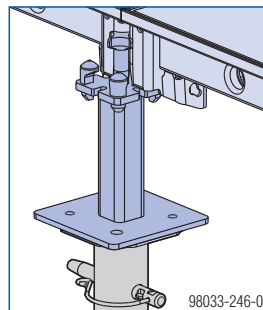
These are used with Handrail posts XP 1.20m or 1.80m to set up guardrail systems on the narrowside and broadside of the Dokadek panel.



Instructions for assembly and use

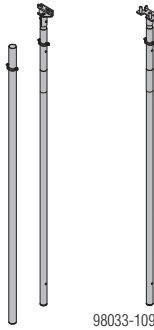
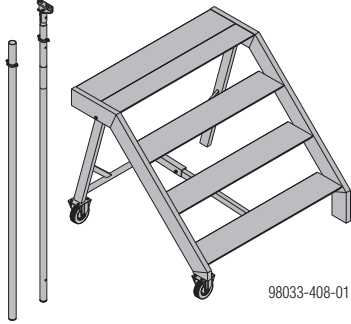
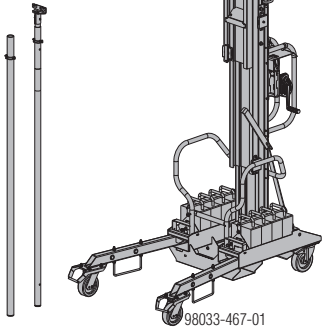
Method statement overview

Panel floor formwork Dokadek 30



**Operating
with assembling tool or suspension tool³⁾**

**Operating
with DekLift 4.50m
+ assembling tool ²⁾**

working from floor level		working from Platform stairway 0.97m ¹⁾	
with assembling tool	with assembling tool ²⁾ and suspension tool ³⁾	with assembling tool ²⁾	
			
	98033-109	98033-408-01	98033-467-01
Room height: from 6'-11" to approx. 11'-6" (2.10 m to approx. 3.50 m)	Room height: from 6'-11" to approx. 13'-1" (2.10 m to approx. 4.00 m)	Room height: from 6'-11" to approx. 13'-9" (2.10 m to approx. 4.20 m)	Room height: from 8'-10" to approx. 14'-9" (2.70 m to approx. 4.50 m)
For more information, please contact your Doka technician.			

¹⁾ 2 platform stairways are needed for hanging the panels into place.

²⁾ From room heights of 12'-6" (3.80 m) upward, the assembling tool extension 2.00m is also needed.

³⁾ Head part painted yellow.

Basic rules

Dokadek panel sizes

Perm. slab thickness¹⁾

Panel size	without additional measures	with additional measures ²⁾
4'-0"x8'-0" (1.22x2.44m)	1'-0" (30 cm)	—
4'-0"x8'-0" (1.22x2.44m)	—	> 1'-0" - 1'-8" (> 30 - 50 cm)
2'-8"x8'-0" (0.81x2.44m)	1'-6" (45 cm)	—
2'-8"x8'-0" (0.81x2.44m)	—	> 1'-6" - 1'-8" (> 45 - 50 cm)

¹⁾ with use of Doka floor prop Eurex 30 top

²⁾ See chapter headed 'Additional measures for slab thicknesses up to 1'-8" (50 cm)'.

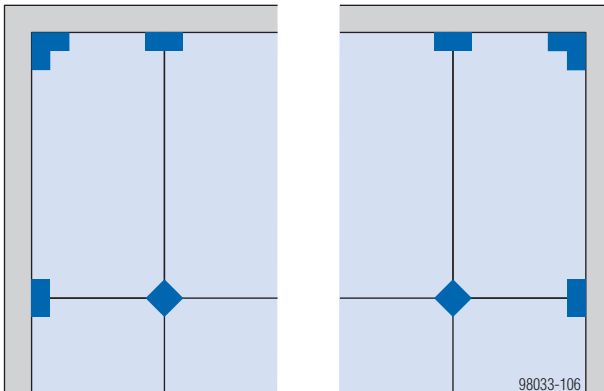
Dokadek heads



WARNING

► The Dokadek heads must always be fixed to the floor prop with the correct pin.

Position of the Dokadek heads



Legend

Support head	Corner head	Wall head
1)		

¹⁾ Spring locked connecting pin 16mm not included with product

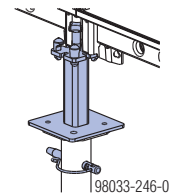


NOTICE

When placing the panels onto the heads, make sure that the panels are correctly fixed in the heads.

Installation examples

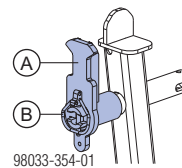
Support head



Spring locked connecting pin 16mm not included with product

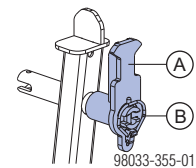
Corner head

Used in left-hand corner

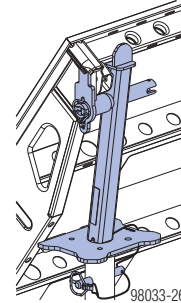
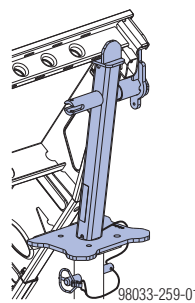


Necessary position of the reversible arm (secure with linch pin 6x42mm)

Used in right-hand corner



Necessary position of the reversible arm (secure with linch pin 6x42mm)

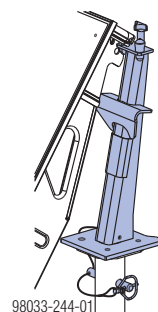


A Reversible arm

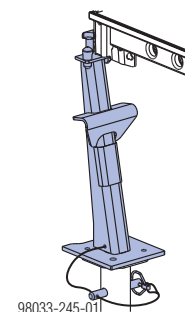
B Linch pin 6x42mm

Wall head

Used at narrow side of formwork



Used at broadside of formwork



Doka floor props Eurex 30 top



We recommend using props of the same type for the typical and infill zone, i.e. when combining Dokadek and Dokaflex.



NOTICE

- ▶ When setting up floor props, always make sure that the fastening clamp is pushed all the way into the floor prop.
- ▶ Turn the adjusting nut until it is in contact with the fastening clamp.



98017-202-01



WARNING

- ▶ Do not use floor props extended to their full length!

This means that the props must be shortened before being used:

Max. extension lengths of the floor props and max. room heights

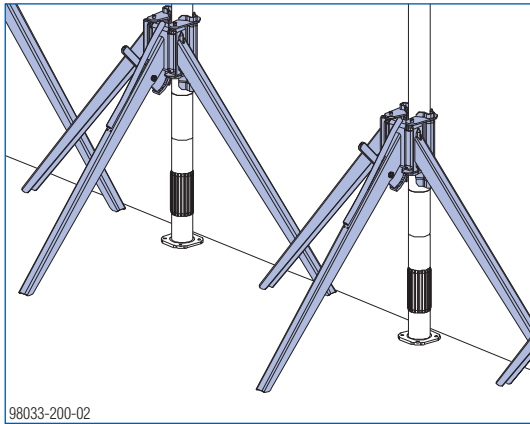
Floor prop	Max. extension length			Max. room height
	without Dokadek head	with Dokadek support head (minus 6 5/16" (16 cm))	when used with Dokadek corner head or wall head (minus 1'-4 3/8" (41.5 cm))	
Eurex 30 top 250	8'-2 6/16" (250 cm)	7'-8 1/8" (234 cm)	6'-10 1/16" (208.5 cm)	8'-5 3/4" (258.5 cm)
Eurex 30 top 300	9'-10 1/8" (300 cm)	9'-3 3/4" (284 cm)	8'-5 3/4" (258.5 cm)	10'-1 7/16" (308.5 cm)
Eurex 30 top 350	11'-5 3/4" (350 cm)	10'-11 7/16" (334 cm)	10'-1 7/16" (308.5 cm)	11'-9 1/8" (358.5 cm)
Eurex 30 top 400	13'-1 7/16" (400 cm)	12'-7 1/8" (384 cm)	11'-9 1/8" (358.5 cm)	13'-4 13/16" (408.5 cm)
Eurex 30 top 450	14'-9 2/16" (450 cm)	14'-2 13/16" (434 cm)	13'-4 13/16" (408.5 cm)	15'-1/2" (458.5 cm)
Eurex 30 top 550	18'-8 1/16" (550 cm)	17'-2 3/16" (534 cm)	16'-8 3/16" (508.5 cm)	18'-3 7/16" (558.5 cm)

Removable folding tripod top



NOTICE

- Do not oil or grease the clamping mechanism of the removable folding tripod.



CAUTION

Risk of floor props tipping over when Dokadek panel is tilted up!

- Make sure that the Removable folding tripod is facing in the right direction.
- The leg with the clamping lever must be pointing in the longitudinal direction of the panels.

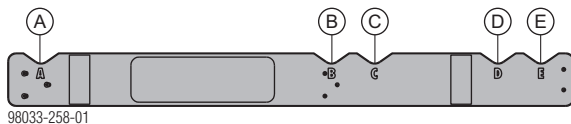


- Once the 1st row of panels set up and braced, to prevent tipping (e.g. with wall clamps), the Removable folding tripods can be removed.

However, before the formwork is stripped, the Removable folding tripods MUST be re-installed!

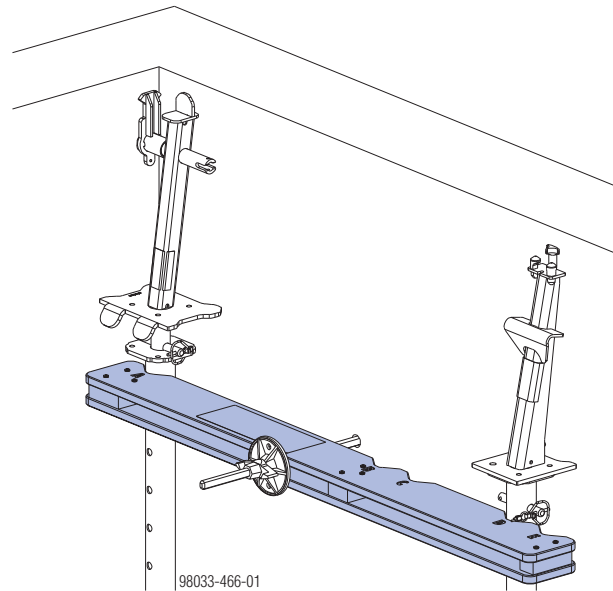
Dokadek wall clamp

Determining the required spacing of the floor props

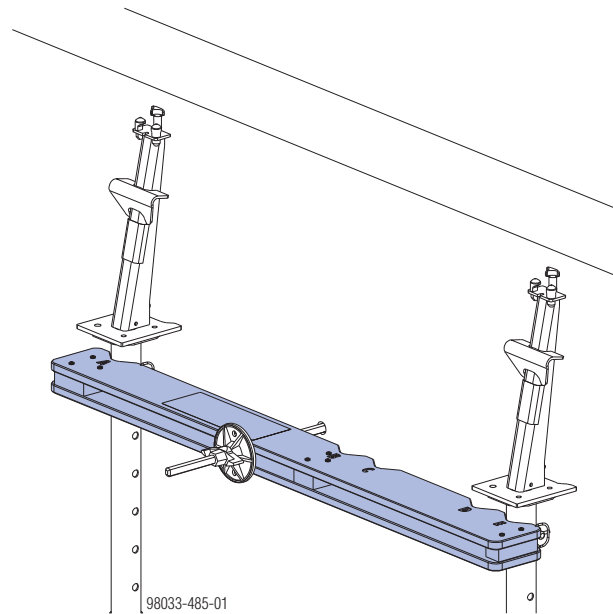


Head on 1st prop is in position A	Width of panel to be shored	Position of 2nd prop
Corner head	2'-8" (0.81 m)	B
Wall head	2'-8" (0.81 m)	C
Corner head	4'-0" (1.22 m)	D
Wall head	4'-0" (1.22 m)	E

Practical examples



Starting in a corner (with Dokadek panel 4'-0"x8'-0" (1.22x2.44m))

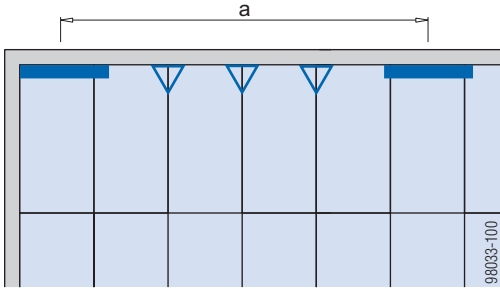
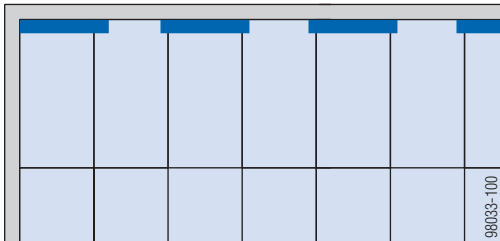
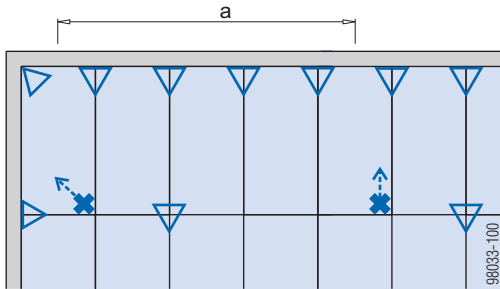


Starting from a wall (with Dokadek panel 4'-0"x8'-0" (1.22x2.44m))

Stability of the formwork

Stabilization of the starting section during assembly

Starting from a wall

Propping height < 11'-6" (350 cm)	Propping height 11'-6" - 13'-1" (350 - 400 cm)
	Please note: Additional diagonal bracing is required for propping height 11'-6" - 13'-1" (350 - 400 cm)! For more information, please contact your Doka technician.
Propping height > 13'-1" (400 cm)	Special precautions e.g. if it is not possible to use a wall clamp.
	 Please note: When the panels are being tilted up into the horizontal, the floor props must be given additional stabilization to prevent them tipping over (i.e. the tripods alone are insufficient).

a ... starting point for 1st panel, every max. 27'-7" (7.50 m) **and** on last panel

Legend

	Dokadek wall clamp
	Removable folding tripod
	Stabilization point (e.g. with tie-back) Arrow = direction of the tie-back

Starting from middle of room



NOTICE

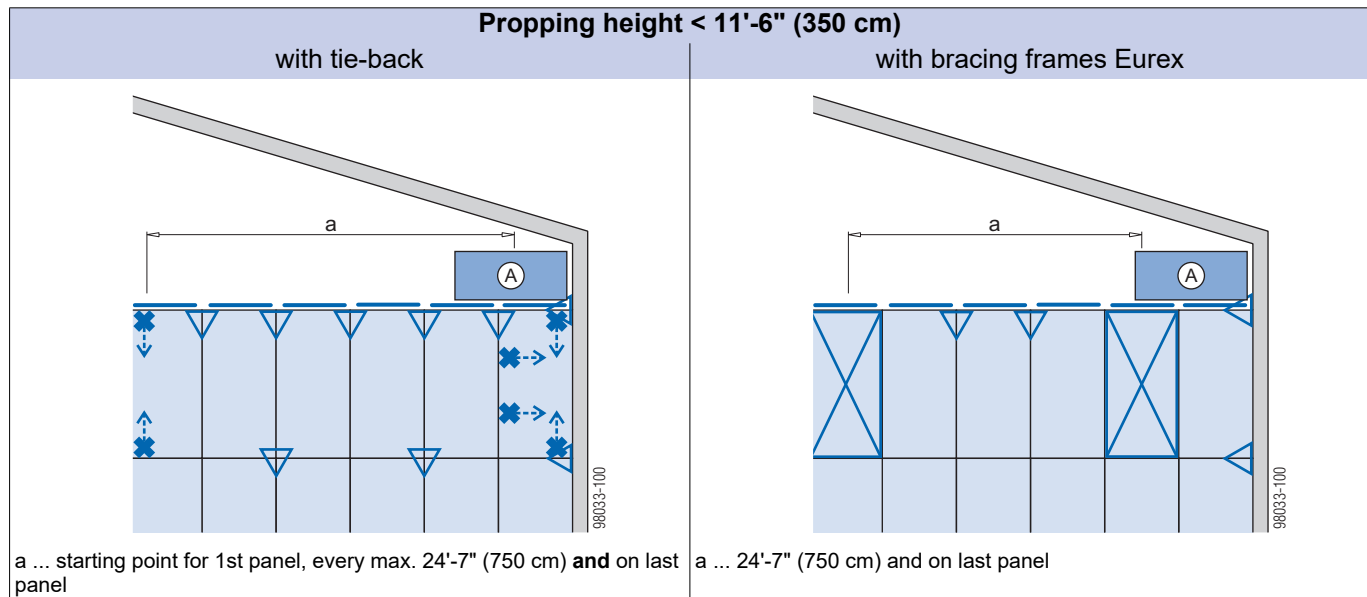
When starting from the middle of a room where it is possible to utilize the structure to obtain the first stabilization point, you **MUST** proceed in the following order:

1. Set the props and secure them so that they cannot fall over.
2. Engage infill beams into the system heads, to secure the props the correct distance apart.
3. Engage the first panel into the system heads.
4. Swing panel up.
5. Secure the panel.



CAUTION

- ▶ When engaging and tilting up the panel, give the floor props additional stabilization (i.e. as well as with the removable folding tripods) to prevent them tipping over.



A e.g. Wheel-around scaffold DF

Note:

Additional diagonal bracing is required for propping height 11'-6" - 13'-1" (3.50 - 4.00 m)! For more information, please contact your Doka technician.

Legend

	Removable folding tripod
	Stabilization point (e.g. with tie-back) Arrow = direction of the tie-back
	Dokadek infill beam
	Bracing frames Eurex with diagonal crosses



See the 'Structure edge' User Information booklet for information on how to start from the middle of the room if it is not possible to secure to the structure.

Additional stabilization during erection work



WARNING

- ▶ Before anyone steps onto the surface of the formwork, its stability must be ensured by e.g. wall clamps or lashing straps.
- ▶ Transfer of horizontal loads must be ensured by other measures (e.g. by transferring these loads into the structure or using tie-backs).

For details on how to make tie-backs with lashing straps, see 'Floor formwork around edges'.

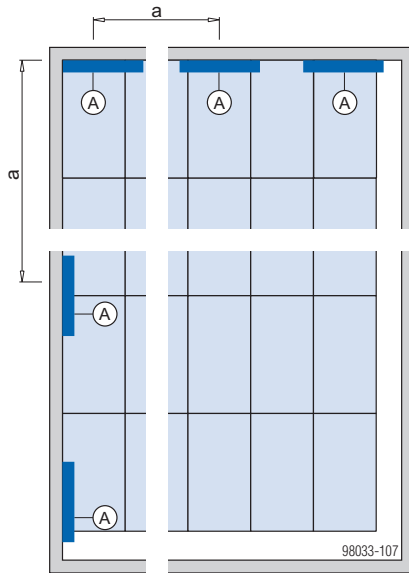
- ▶ Formwork next to walls must be secured against tip-over as shown in the illustrations.



- Once the 1st row of panels set up and braced, to prevent tipping (e.g. with wall clamps), the Removable folding tripods can be removed.

However, before the formwork is stripped, the Removable folding tripods MUST be re-installed!

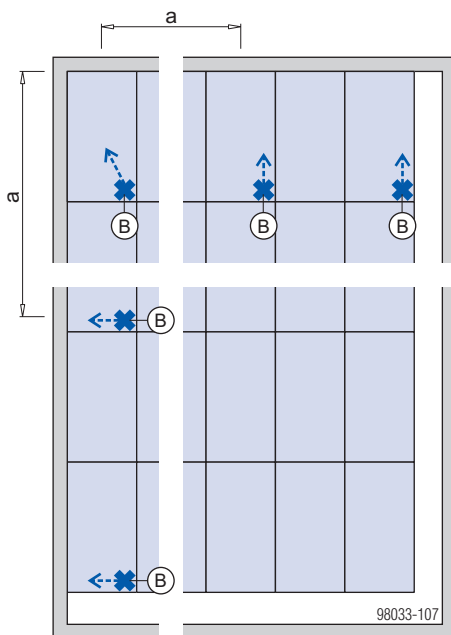
Stabilization point with wall clamps



a ... starting point for 1st panel, every max. 24'-7" (750 cm) **and** on last panel

A Connection with wall clamps

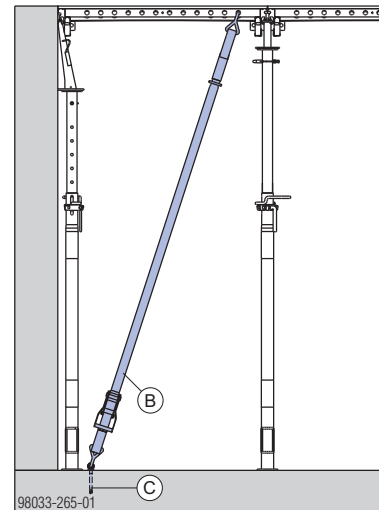
Bracing/tie back points with lashing straps



a ... starting point for 1st panel, every max. 24'-7" (750 cm) **and** on last panel

B Bracing/tie-back points using lashing straps
Arrow = direction of the tie-back

Practical example Tip-over protection using lashing straps

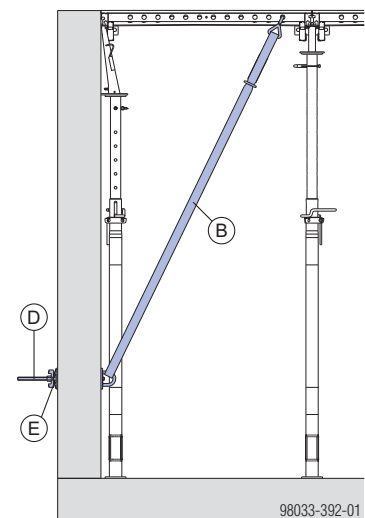


B Lashing strap 5.00m

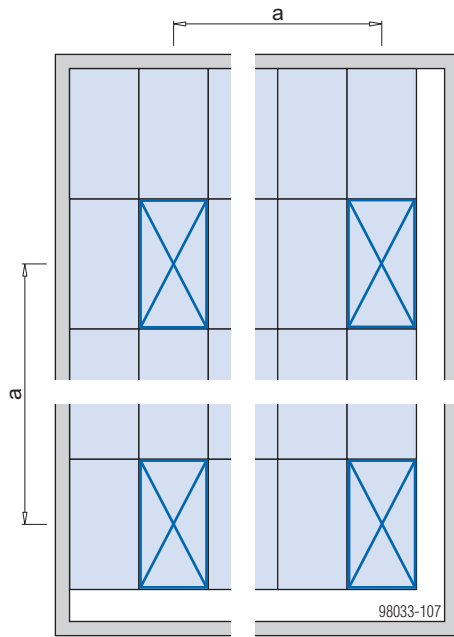
C Doka express anchor 16x125mm



- Up to a wall thickness of 1'-4" (40 cm), the Lashing strap (**B**) can also be secured to a wall with a Lifting rod 15.0 (**D**) and a Super plate 15.0 (**E**) .



Bracing with Bracing frames Eurex



a ... max. 24'-7" (750 cm) **and** on last panel

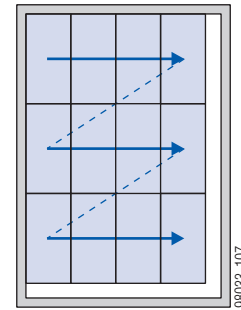
Legend



Bracing frames Eurex with diagonal crosses

Forming up and stripping

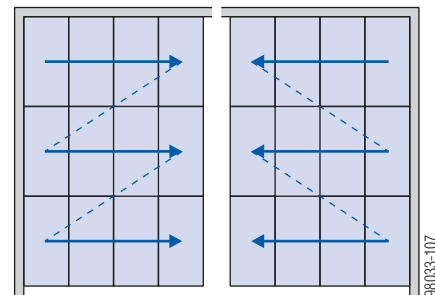
Direction of panel set-up



- 1) Start by setting up the panels row by row until only the planned infill zone is left unformed.
- 2) Then install the wall connections and fillers.



If necessary, you can start setting up the panels working from more than one side. The separate sections that have been formed with Dokadek are then joined by fillers (see the section headed 'Forming infill zones').



Stripping the formwork is the reverse of the installation procedure.

Ladder systems and working scaffolds

Platform stairway 0.97m

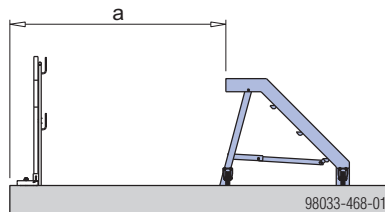


- Wheel-around, fold-down platform stairway made of light alloy
- Working height up to 9'-10" (300 cm)
(max. standing height 3'-2" (97 cm))
- Stair width: 3'-11" (120 cm)



NOTICE

- 2 'Platform stairways' are needed for hanging the panels into place.
- Minimum distance **a** from drop-off edge: 6'-7" (200 cm)

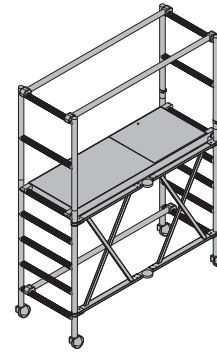


Max. load: 331 lbs (150 kg)



Follow all country-specific regulations!

Wheel-around scaffold DF



- Collapsible wheelaround platform made of light alloy.
- Variable working heights of up to 11'-6" (350 cm)
(max. platform height: 4'-11" (150 cm))
- Width of scaffold: 2'-6" (75 cm)



NOTICE

- Do not use the Wheel-around scaffold DF for installing and removing the panels.
- When work is being carried out near drop-off edges (i.e. at a distance of < 6'-7" (200 cm)), the Wheel-around scaffold DF accessory set (consisting of a toeboard and intermediate guard rail) is needed.



Follow the directions in the User Information booklet!

Operating with assembling tool



NOTICE

- ▶ When setting up floor props, always make sure that the fastening clamp is pushed all the way into the floor prop.
- ▶ Turn the adjusting nut until it is in contact with the fastening clamp.



98017-202-01



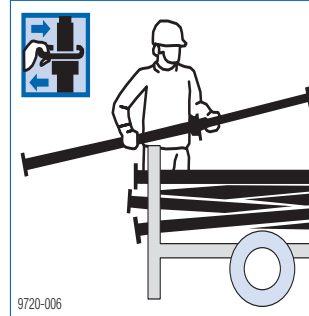
NOTICE

As well as the instructions given here, the section headed "Reshoring props, concrete technology and stripping" must be followed.



WARNING

- ▶ Do not use floor props extended to their full length!
See also the section headed 'Ground rules'.
- ▶ Roughly adjust the height of the floor prop, using the fastening clamp.

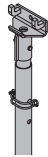


9720-006

Erecting the formwork

Preparations

- ▶ Set the **assembling tools** to the required length (= approx. room height). Min. 3 assembling tools needed per site-erection team.



From room heights of 12'-6" (3.80 m) upward, the assembling tool extension 2.00m is also needed. (For more information, please contact your Doka technician.)

Required length = room height minus 'a'

Dokadek head used		
Support head	Corner head	Wall head
 98033-280-01	 98033-280-02	 98033-280-03
a ... 10" (25 cm)	a ... 1'-8" (50 cm)	a ... 1'-8" (50 cm)
b ... Room height (e.g. with Eurex 30 top 300: max. 10'-1" (308.5 cm)) (see the section headed 'Ground rules')		
c ... extension length of floor prop		

The holes are all numbered, which makes it easier to adjust the props to the same height.

- ▶ Seat the Dokadek head on the floor prop and **secure it with the pin**.

Putting up the 1st row of floor props

- Set up each removable folding tripod.



CAUTION

Risk of floor props tipping over when Dokadek panel is tilted up!

- Make sure that the Removable folding tripod is facing in the right direction.
- The leg with the clamping lever must be pointing in the longitudinal direction of the panels.

- Set up floor props (complete with corner and wall heads) directly against the wall and secure them with Removable folding tripods.
- Use the wall clamps to find out how far apart the floor props have to be spaced.

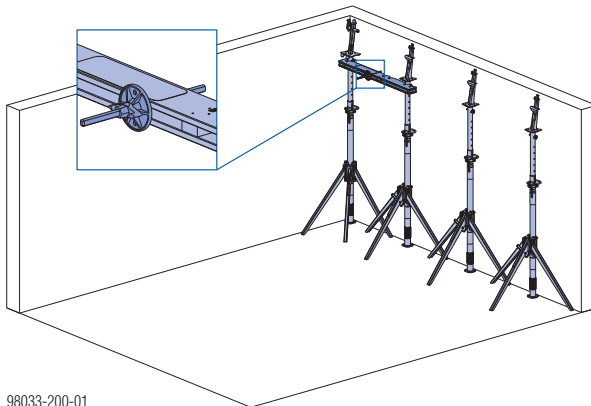


CAUTION

Risk of damage to the panel!

- Make sure that the tie rod does not stick out too far from the wall clamp, as this would get in the way when the panel is lifted onto the heads.

- Adjust the 1st and 2nd floor props to the right height and secure them with a wall clamp to prevent them from tipping over. To do this, install the wall clamp as high up the wall as possible, using a tie rod and super plate. If there are tie-holes near the top of the wall, use these.

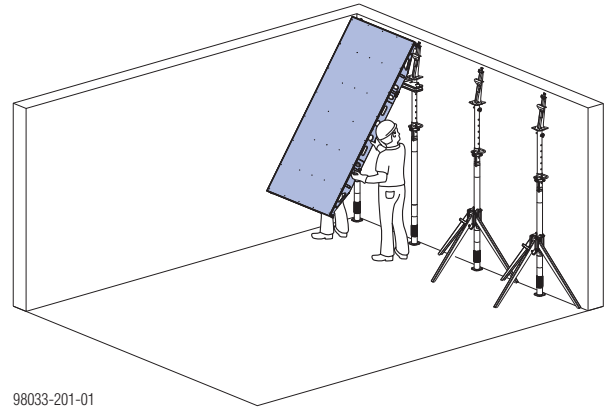


98033-200-01

Installing the 1st row of panels

Install the 1st panel

- Persons 1 and 2: Hook the panel onto the corner head and the wall head.



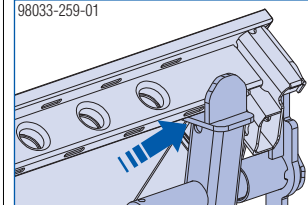
98033-201-01



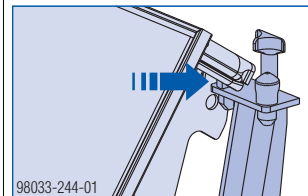
Make sure that the panel is correctly engaged in both heads.

Corner head

98033-259-01



Wall head

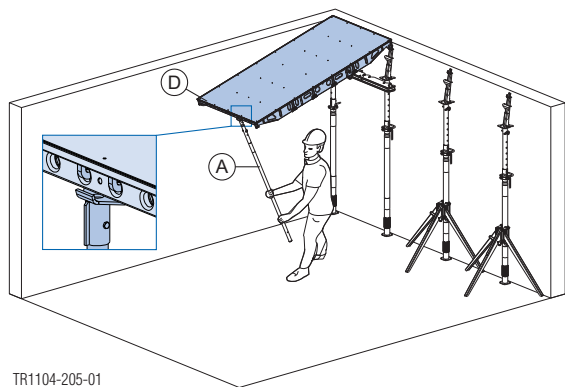


98033-244-01



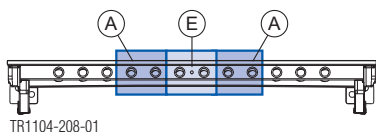
For greater room heights, use an extra assembling tool (placed on a shorter length) or suspension tool for tilting up the panel.

- Person 1: Position the assembling tool placed on a shorter length or the suspension tool off-center in the outside cross profile of the panel and lift up the end for propping.



A Assembling tool placed on shorter length or Dokadek suspension tool

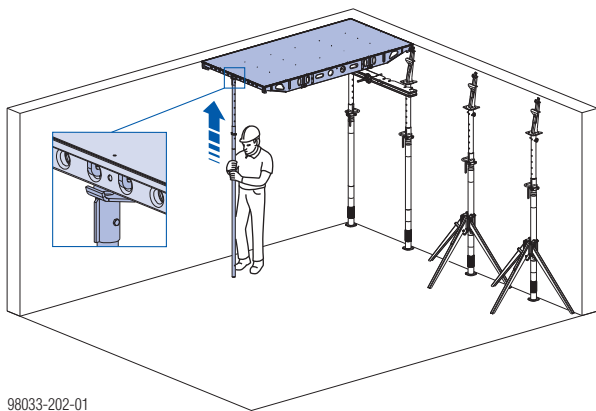
D Dokadek panel



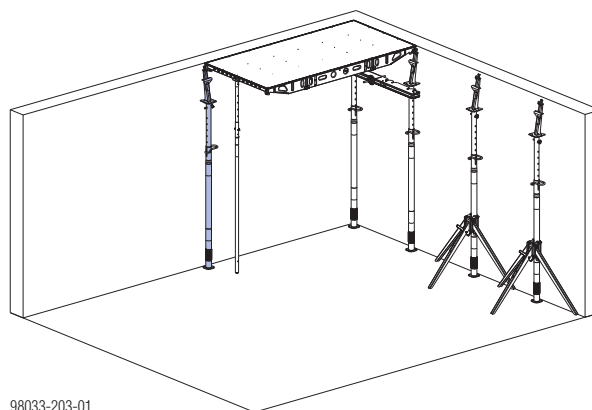
A Position of assembling tool placed on shorter length or of Dokadek suspension tool

E Position of Dokadek assembling tool B

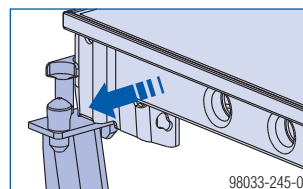
- Person 2: Hook the assembling tool into the middle of the outside cross profile of the panel, raise the panel and secure the assembling tool so that it cannot tip over.



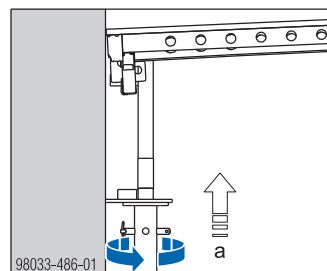
- Person 1: Place a floor prop (plus wall head) beneath the panel. The panel must still be supported by the assembling tool. (Max. inclination of the assembling tool with respect to the perpendicular: 5°).



Make sure that the panel is correctly engaged on the pin of the head.



- Turn the adjusting nut on the floor prop to raise it and the corner head by $\frac{3}{4}$ " (2 cm).



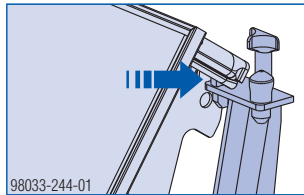
a ... $\frac{3}{4}$ " (2 cm)

Installing successive panels

- Persons 1 and 2: Hook the panel into the heads.



Make sure that the panel is correctly engaged on the pins of both heads.

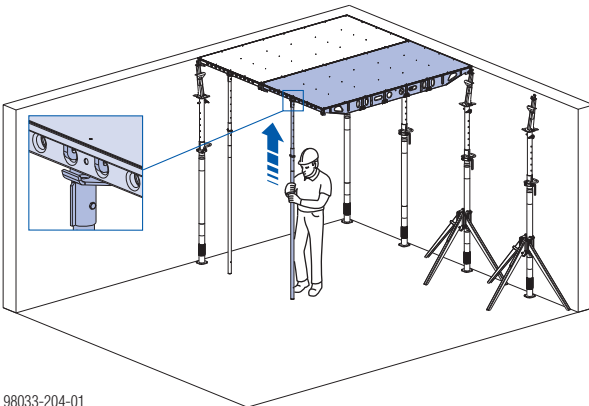


- Person 1: Swing panel part-way up.



For greater room heights, use an extra assembling tool (placed on a shorter length) or suspension tool for tilting up the panel.

- Person 2: Hook the assembling tool into the middle of the outside cross profile of the panel, raise the panel and secure the assembling tool so that it cannot tip over.

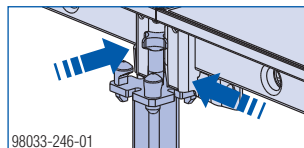


98033-204-01

- Person 1: Place a floor prop (plus Support head) beneath both panels.

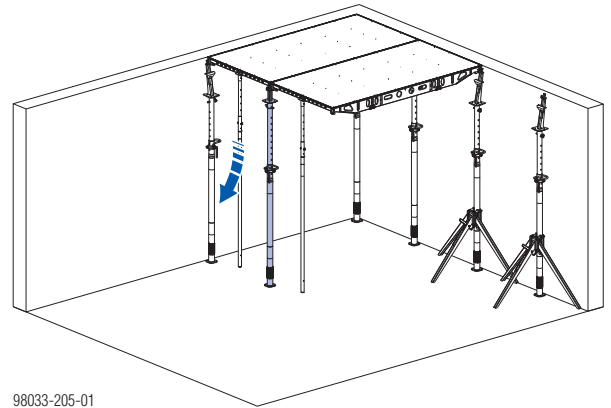


Make sure that the panels are correctly engaged on the pins of the head.



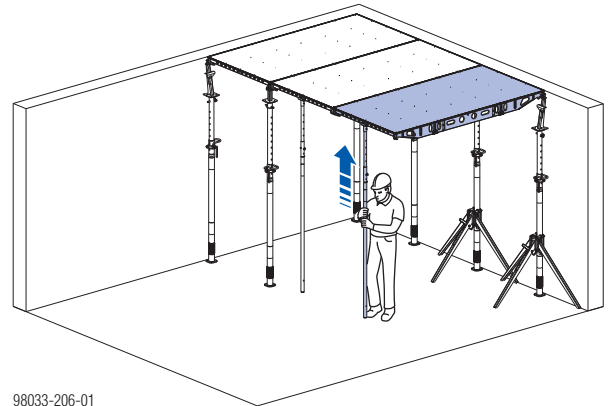
98033-246-01

- Person 2: Remove the assembling tool from the 1st panel. The 2nd panel must still be supported by the assembling tool. (Max. inclination of the assembling tool with respect to the perpendicular: 5°)

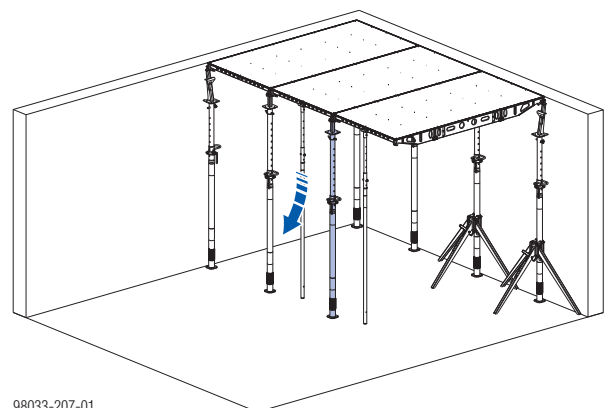


98033-205-01

- Set up further panels in the same way, until only the planned infill zone is left unformed. Ensure stability during the set-up operations (see the section headed 'Ground rules')!



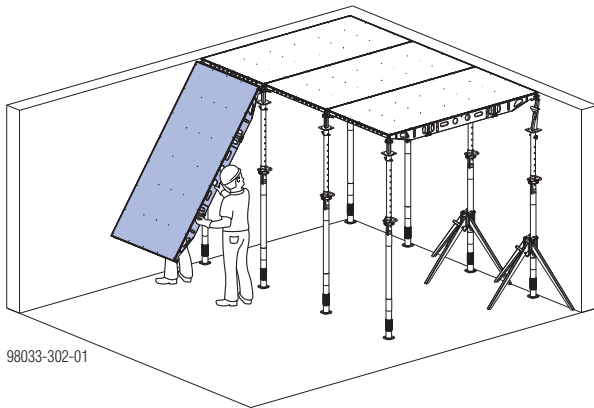
98033-206-01



98033-207-01

Setting up additional rows of panels

- Set up additional rows of panels in the same way, until only the planned infill zone is left unformed. Ensure stability during the set-up operations (see the section headed 'Ground rules')!

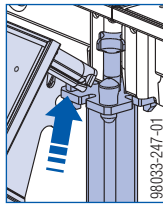


98033-302-01



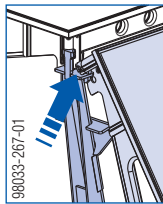
Check that the panel is correctly engaged in both heads.

Support head

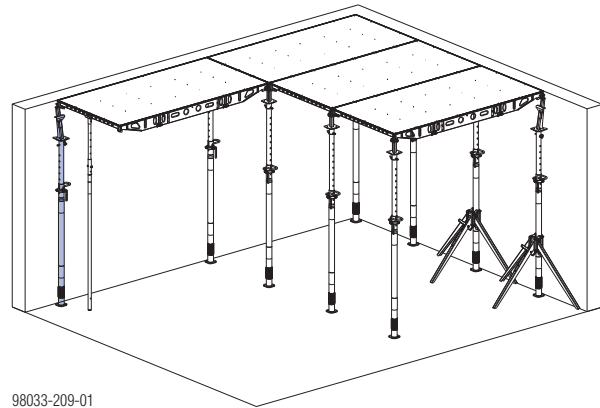


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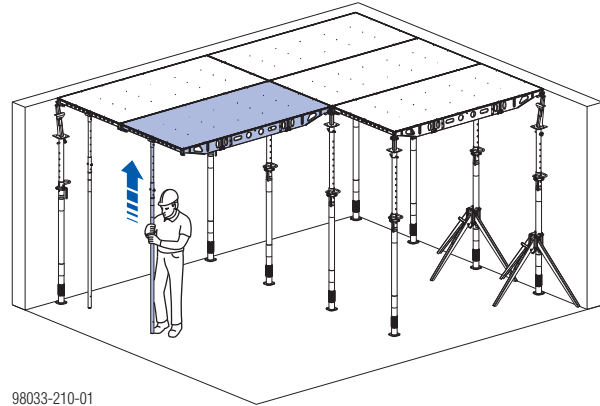
Wall head



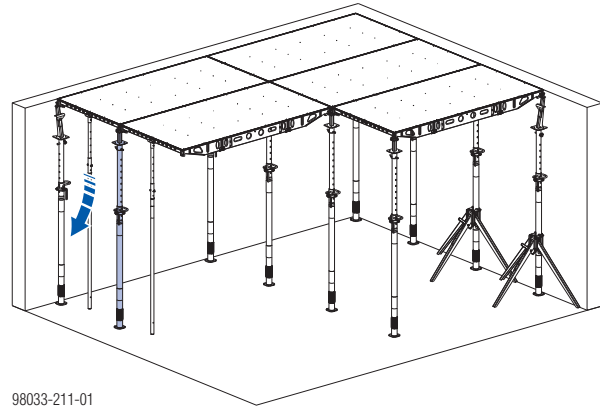
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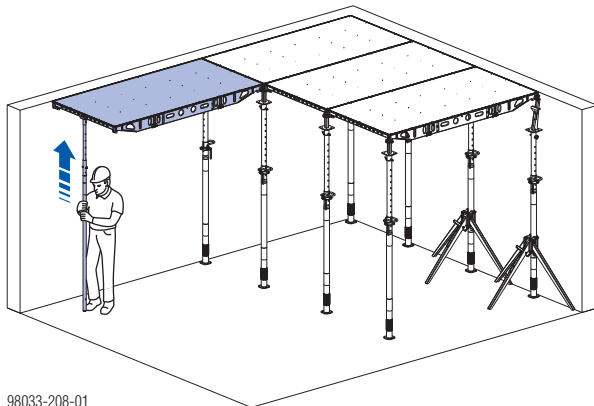
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98033-210-01



98033-211-01



98033-208-01

Installing the bracing frames

The Bracing frames Eurex 4'-0" (1.22m) and 2'-8" (0.81m) connect to the Doka floor props Eurex 20 and Eurex 30 and are a stable set-up aid - especially close to the edges of floor-slab formwork.

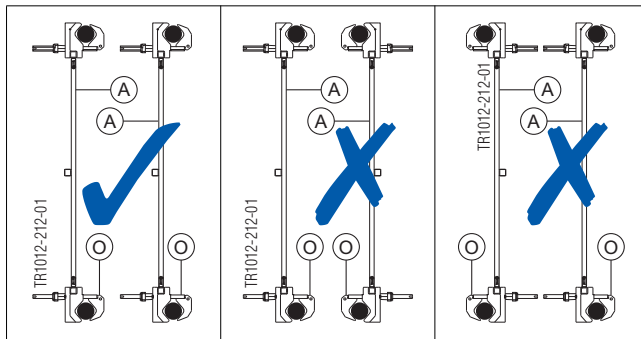
Features:

- Suitable for attaching to both the outer and inner tubes.
- Captively integrated quick-fixing mechanism for the Doka floor props
- Can be used in combination with diagonal crosses.
- On uneven surfaces (e.g. gravel fill of load-bearing capability), higher stability is ensured during assembly.



NOTICE

- Used as a set-up aid and takes horizontal loads during assembly.
- **Not suitable** for sustaining horizontal loads during pouring.
- All the floor props must be plumb.
- The prop holders on the bracing frames must always be pointing in the same direction.



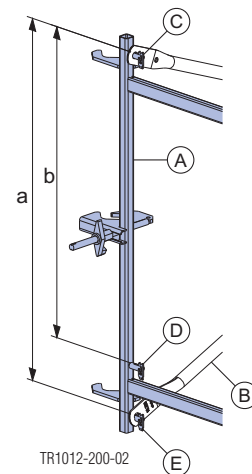
A Bracing frame Eurex

O Prop holder with quick-fixing mechanism

- Always set up the bracing frames such that the end with the two safety catches (**D**) and (**E**) is at the bottom (see Close-up A).
- It is not possible to use bracing frames directly alongside a wall.
- Use with Deklift only conditionally possible (because the bracing frame has to be removed briefly, particularly at the edge of the structure).

Area	Diagonal cross	Safety catch needed
Typical zone, Dokadek 30	18,200	Pos. C+E
Structure edge, Dokadek 30 without drop head	9,175	Pos. C+E

Close-up A



a ... 3'-4" (101.9 cm)
b ... 2'-10" (87.6 cm)

A Bracing frame Eurex

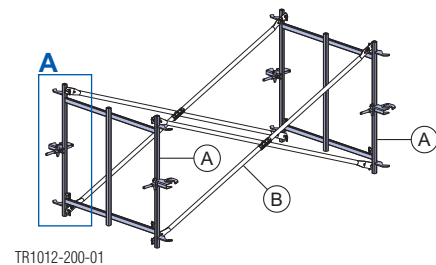
B Diagonal cross

C Safety catch 1

D Safety catch 2

E Safety catch 3

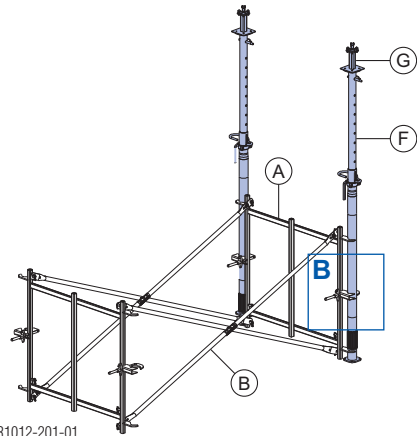
- ▶ Join both Bracing frames Eurex with diagonal crosses at top and bottom, and secure these with safety catches (Close-up A).



A Bracing frame Eurex

B Diagonal cross

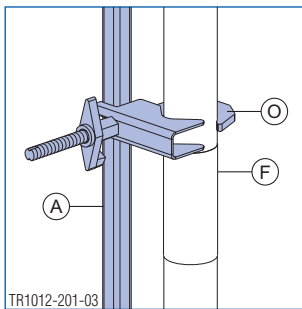
- ▶ Fasten floor props to the bracing frame with the quick-fixing mechanism (Close-up B).



TR1012-201-01

- A** Bracing frame Eurex
- B** Diagonal cross
- F** Doka floor prop Eurex
- G** Dokadek support head

Close-up B – prop-holder

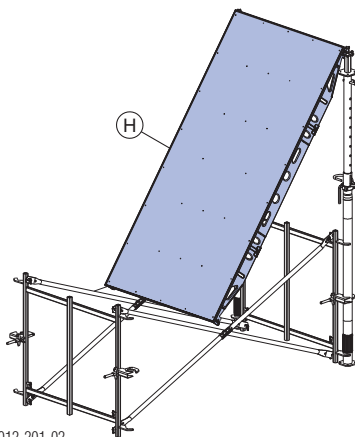


TR1012-201-03

Quick-fixing mechanism closed

- A** Bracing frame Eurex
- F** Doka floor prop Eurex

- ▶ Engage the Dokadek panel in the support heads.



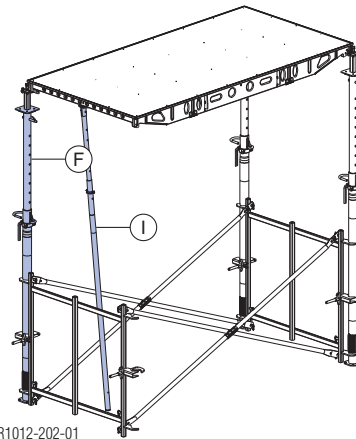
TR1012-201-02

- H** Dokadek panel



Make sure that the Dokadek panels have been hung into place (engaged) correctly.

- ▶ Tilt up the Dokadek panel with an assembling tool, and put a floor prop under one of the other corners.
- ▶ Attach the floor prop to the Bracing frame with the quick-fixing mechanism (the assembling tool stays in place, as it still has a shoring function. Max. inclination of the assembling tool with respect to the perpendicular: 5°).



TR1012-202-01

- F** Doka floor prop Eurex
- I** Assembling tool

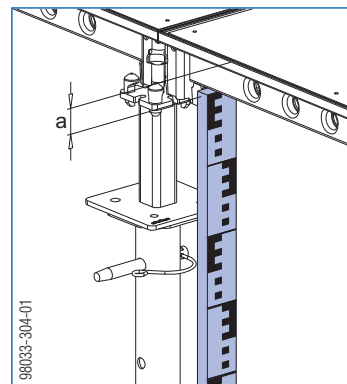
- ▶ For details on all other work steps, see the section headed 'Operating with assembling tool'.
- ▶ See the 'Structure edge (Panel floor formwork Dokadek 30)' User Information booklet for details of the positions and number of frames.

Dismantling

- ▶ is carried out in the opposite order from assembly.

Leveling the formwork

- ▶ Adjust the panels at the corners to the desired floor-slab height (= room height minus 2 1/2" (6.5 cm), with reference to the frame cross-profile.



98033-304-01

a ... 2 1/2" (6.5 cm)

Additional precautions for slab thicknesses of up to 1'-8" (50 cm)

- See chapter headed 'Additional measures for slab thicknesses up to 1'-8" (50 cm)'.

Installing guardrail systems

- See the section headed 'Guardrail systems'.

Installing fillers

- See the section headed 'Forming infill zones'.

Pouring

- Before pouring, check the floor props once again.



The fastening clamp has to be checked to ensure that it is pushed all the way into the floor prop in the direction indicated by the arrow.



Perm. slab thickness¹⁾

Panel size	without additional measures	with additional measures ²⁾
4'-0"x8'-0" (1.22x2.44m)	1'-0" (30 cm)	—
4'-0"x8'-0" (1.22x2.44m)	—	> 1'-0" - 1'-8" (> 30 - 50 cm)
2'-8"x8'-0" (0.81x2.44m)	1'-6" (45 cm)	—
2'-8"x8'-0" (0.81x2.44m)	—	> 1'-6" - 1'-8" (> 45 - 50 cm)

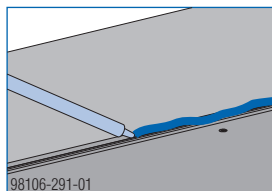
¹⁾ with use of Doka floor prop Eurex 30 top

²⁾ See chapter headed 'Additional measures for slab thicknesses up to 1'-8" (50 cm)'.

To protect the surface of the form-facing, we recommend using a vibrator with a protective rubber cap.



PU foam can be used to seal any gaps between the formwork and the walls.



Stripping the formwork

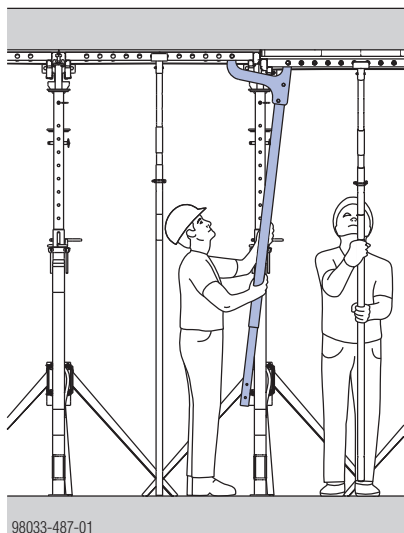


NOTICE

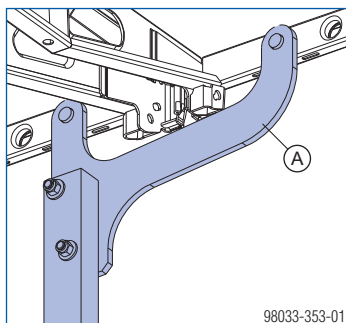
- Comply with the stipulated stripping times.
- Always strip out the formwork in reverse order.
- It is essential to follow the instructions given here and the instructions in the section headed 'Reshoring props, concrete technology and stripping out'.



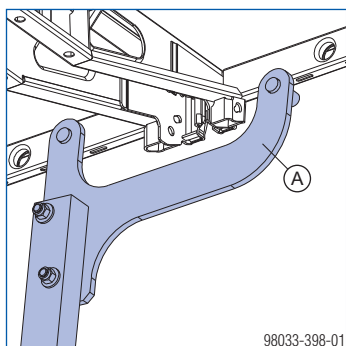
The Dokadek stripping tool (A) is an easy, safe way of detaching panels from the concrete where necessary.



Use with Dokadek panels 4'-0"x8'-0"
(1.22x2.44m)



Use with Dokadek panels 2'-8"x8'-0"
(0.22x2.44m)

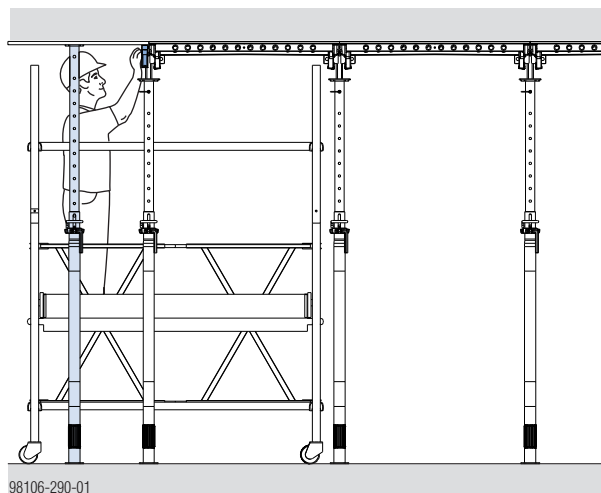


Preparations



NOTICE

- ▶ Before stripping the formwork, make sure that the floor props in the last row of panels to be stripped are still secured with removable folding tripods or wall clamps.
- ▶ Set the **assembling tools** to the required length (= approx. room height). Min. 3 assembling tools needed per site-erection team.
From room heights of 12'-6" (3.80 m) upward, the assembling tool extension 2.00m is also needed.
- ▶ Secure the panels so that they cannot accidentally drop.
- ▶ Lower the floor formwork in the infill zone (floor props underneath infill beams) approx. $\frac{3}{4}$ " (2 cm).
- ▶ Remove Doka beams H20.
- ▶ Remove the infill beams, for example using a working scaffold for access.



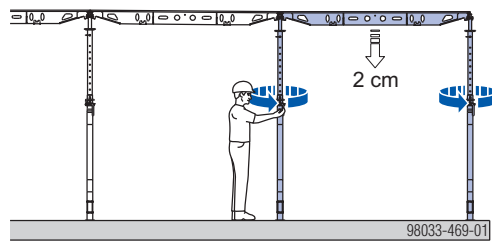
- ▶ Remove the panels.

Disassembling the floor props and panels



NOTICE

- Lower the props in the first row of panels to be stripped out, by approx. $\frac{3}{4}$ " (2 cm) (approx. 1 turn of the adjusting nut).

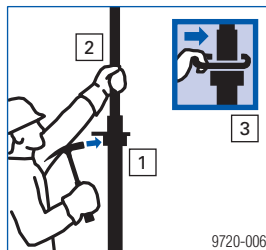


- Place assembling tool supports beneath the 1st and 2nd panels. (Max. inclination of the assembling tool with respect to the perpendicular: 5°).
- Remove the 1st and 2nd floor props and place them in a stacking pallet.



NOTICE

- Use a hammer to back off the adjusting nut.
- Take a firm grip on the inner tube with one hand.
- Open the fastening clamp to release the inner tube. Guide the inner tube into the fixed tube with your hand.



- Using the assembling tool, lower the panel until the 2nd person can take hold of it and tilt it all the way down.
- Lift the panel off the prop-heads and set it down.
- Place an assembling tool support beneath the 3rd panel, remove the 3rd floor prop and place it in the stacking pallet. (Max. inclination of the assembling tool with respect to the perpendicular: 5°).
- Unhook the 2nd panel and place it on a panel pallet.
- Take down all the other panels in the same way.

Cleaning the formwork

- See the section headed 'Cleaning and care of your equipment'.

Reshoring

- Before pouring the next floor-slab (i.e. above the one that has just been stripped), install reshoring props.
- See the section headed 'Reshoring props, concrete technology and stripping out'.

Forming infill zones



NOTICE

- Ideally, fillers should be installed from below (e.g. from a Wheel-around scaffold DF).
- If fillers have to be installed from above, the crew must use a personal fall-arrest system (e.g. the Doka personal fall-arrest set).
- Suitable anchorage points must be defined by a skilled person appointed by the contractor.

Areas where infills may be needed:

- at wall connections
- between 2 Dokadek forming-sections
- around columns



WARNING

Falling hazard! Do not step on to loose sheets and infill beams!

- Only step onto these once the entire infill zone has been closed and secured by nailing!

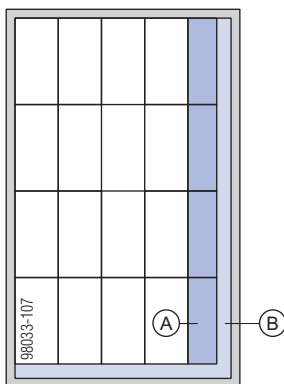
Recommended nail length for sheet thickness $\frac{3}{4}$ " (18 mm): approx. 2 $\frac{1}{4}$ " (60 mm)

Dokadek system components for infill zones

Dokadek panel 2'-8"x8'-0" (0.81x2.44m)

If Dokadek panels 4'-0"x8'-0" (1.22x2.44m) are combined with Dokadek panels 2'-8"x8'-0" (0.81x2.44m), the max. infill width can generally be reduced to 1'-4" (41 cm).

The Dokadek panels 2'-8"x8'-0" (0.81x2.44m) are installed in the same way as the Dokadek panels 4'-0"x8'-0" (1.22x2.44m).

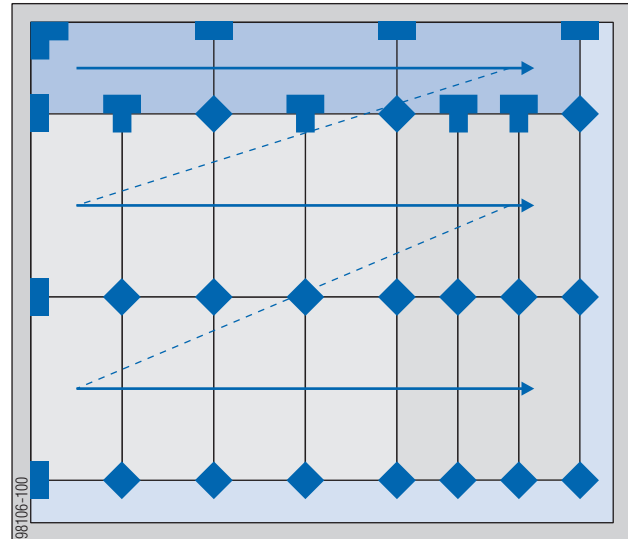


A Dokadek panel 2'-8"x8'-0" (0.81x2.44m)

B Infill (max. 1'-4" (41 cm))

Dokadek cross head to reduce the infill zone

The width of the infill zone can be reduced by turning the panels in the first row. The Dokadek cross head is used for this purpose.



Legend

Support head	Corner head	Wall head	Dokadek cross head
1)			1)

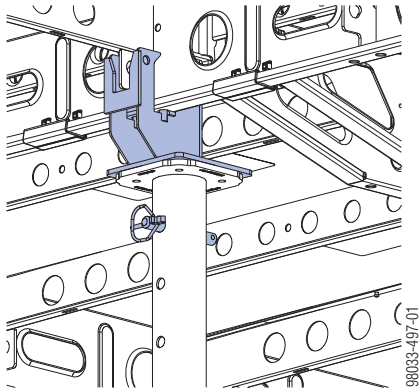
1) Spring locked connecting pin 16mm not included with product

Installation of Dokadek cross head

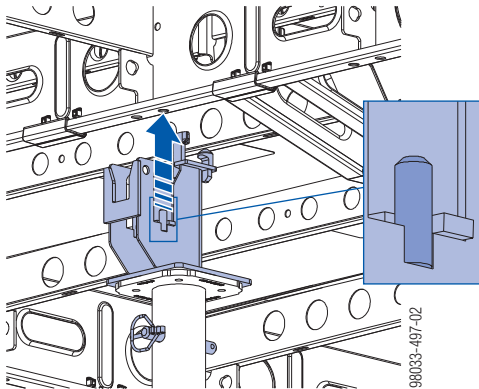


NOTICE

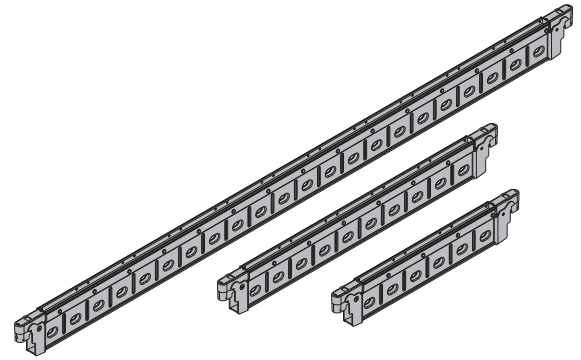
- Props with a cross head should only be extended (by turning the adjusting nut) until the prop encounters resistance from above. The panel must not be raised.
- At the corners, use tripods to secure every floor prop where only 1 panel is resting on this prop's head.
- Shore the panels with floor props and cross heads at the required position.



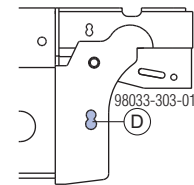
The pins of the cross head must be engaged in the two holes in the panel.



Dokadek infill beam

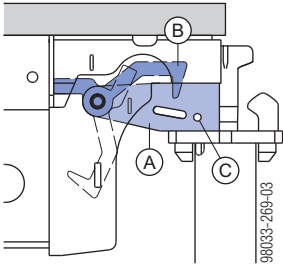
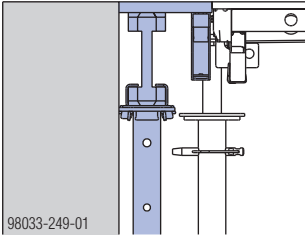
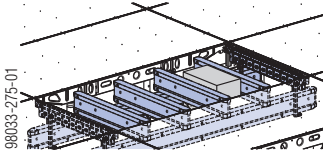
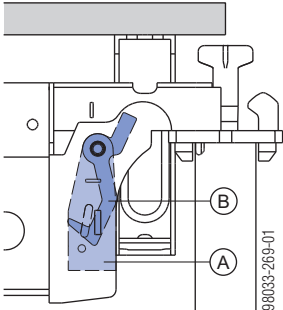
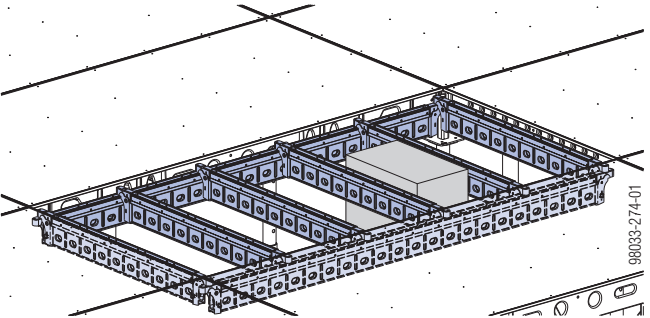
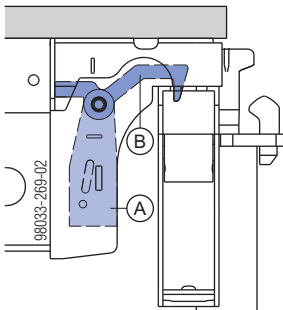


- Permitted moment: 3.69 kip-ft (5 kNm)
- Permitted shear force: 2.47 kip (11 kN)
- Flexural rigidity EI: 774 kip-ft² (320 kNm²)
- Permissible imposed load where supported by floor prop in mid-span: 4.94 kip (22 kN)



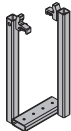
D Identification mark on infill beam to show matching sheet thickness ($8 = \frac{3}{4}$ " (18 mm))

Adjusting the Dokadek infill beams

Area of use		Practical examples	
Infill zone against a wall or around columns, using Doka beams H20: cheek plate at top, locking mechanism at top or bottom			 
Infill zone around columns, using Dokadek infill beams	▪ Infill beams used as primary beams: cheek plate at bottom, locking mechanism at bottom		
	▪ Infill beams used as secondary beams: cheek plate at bottom, locking mechanism at top		

- A Cheek plate (silver)
- B Locking mechanism (red)
- C Position for optional extra anti-liftout guard with spring cotter (included with product)

Dokadek suspension clamp H20



Permitted shear force: 2.47 kip (11 kN)

Note:
The Suspension clamp H20 does not need to be supported by any extra floor prop.

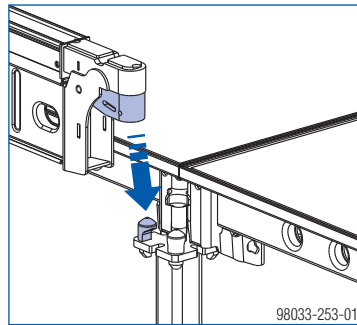
Infilling along wall connections

Variant 1: Infill width 'a' = 6 1/2" - 1'-2" (17 - 35 cm)

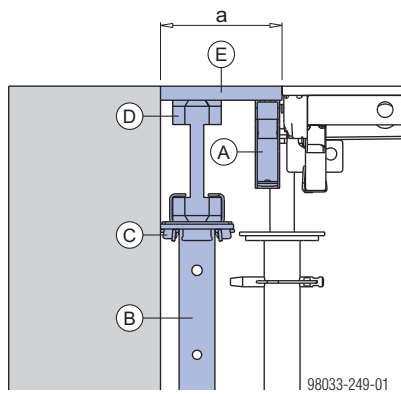
- max. spacing of infill props (Eurex 30): 8'-0" (244 cm)
- Max. slab thickness: 1'-8" (50 cm)

Installation:

- Hook the infill beams into the support heads (cheek plate at top).



- Install the infill.



- A** Dokadek infill beam
- B** Doka floor prop Eurex 30 top + Removable folding tripod
- C** Supporting head H20 DF
- D** Doka beam H20 where infill width 'a' is $\geq 6 \frac{1}{2}"$ (17 cm) (infills of less than $6 \frac{1}{2}"$ (17 cm) can be made up in-situ with a plank or squared timber.)
- E** Plywood infill

Variant 2: Infill with 'a' = 1'-1" - 1'-10" (32 - 55 cm)

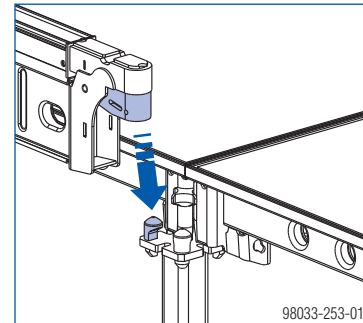
Max. infill width 'a' with multi-ply sheets 3/4" (18 mm)

Slab thickness	Infill width 'a'
up to 1'-1" (32 cm)	1'-10" (55 cm)
up to 1'-8" (50 cm)	1'-8" (52 cm)

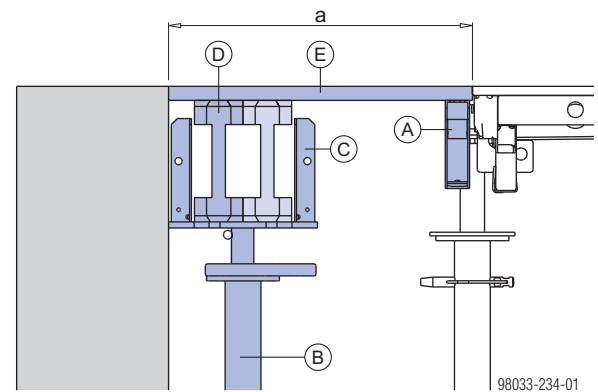
- max. spacing of infill props (Eurex 30): 244 cm

Installation:

- Hook the infill beams into the support heads (cheek plate at top).



- Install the infill.



- A** Dokadek infill beam
- B** Doka floor prop Eurex 30 top + Removable folding tripod
- C** Lowering head H20
- D** Doka beam H20 (telescoped)
- E** Plywood infill

Variant 3: Infill with 'a' = 1'-10" - 8'-10" (55 - 270 cm)

Infill width 'a' for slab thicknesses of up to 1'-1" (32 cm)

Primary beams	Infill width 'a'	Recommended secondary beam
3'-7" (1.10 m)	1'-10" - 3'-3" (55 - 100 cm)	9'-6" (2.90 m)
5'-11" (1.80 m)	2'-11" - 5'-7" (90 - 170 cm)	
9'-6" (2.90 m)	4'-9" - 8'-10" (145 - 270 cm)	

Eurex 30:

- max. prop spacing 'b': 2'-6" (75 cm)
- max. primary-beam spacing: 8'-0" (244 cm)
- max. secondary-beam spacing: 1'-8" (50 cm)
(Do not exceed the max. support centers of the formwork sheets!)
- For infill widths 'a' $\geq$ 3'-3" (100 cm):
intermediate prop (with Supporting head H20) is required

Infill width 'a' for slab thicknesses of up to 1'-8" (50 cm)

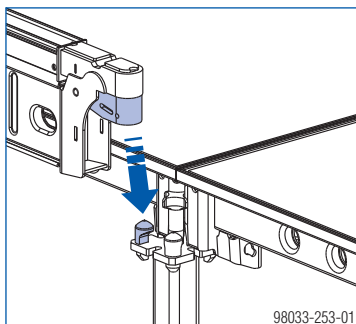
Primary beams	Infill width 'a'	Recommended secondary beam
3'-7" (1.10 m)	1'-10" - 3'-3" (55 - 100 cm)	9'-6" (2.90 m)
5'-11" (1.80 m)	2'-11" - 5'-7" (90 - 170 cm)	
9'-6" (2.90 m)	4'-9" - 8'-10" (145 - 270 cm)	

Eurex 30:

- max. prop spacing 'b': 1'-8" (50 cm)
- max. primary-beam spacing: 8'-0" (244 cm)
- max. secondary-beam spacing: 1'-5" (42 cm)
(Do not exceed the max. support centers of the formwork sheets!)
- For infill widths 'a' $\geq$ 2'-6" (75 cm):
intermediate prop (with Supporting head H20) is required

Installation:

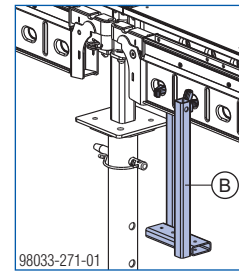
- Hook the infill beams into the support heads (cheek plate at top).



- Hook the suspension clamps into the infill beams **as close to the floor props as possible**.

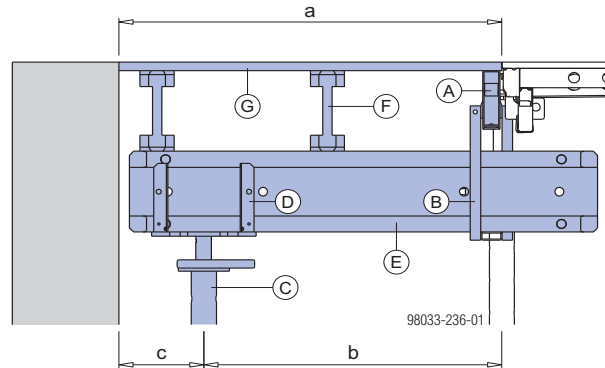
Number of suspension clamps needed:

- next to every floor prop in the longitudinal direction
- next to every other floor prop in the transverse direction Floor prop



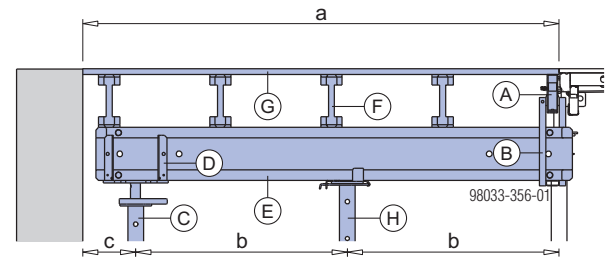
- Install the infill.

Practical example: Infill width 'a' $\leq$ 3'-3" (100 cm)



c ... 1'-4" (40 cm) (up to slab thickness of 1'-1" (32 cm)),
10" (25 cm) (slab thickness > 1'-1" (32 cm) and up to 1'-8" (50 cm))

Practical example: Infill width 'a' > 3'-3" (100 cm) (with intermediate prop)

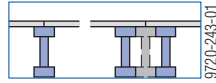


c ... 1'-4" (40 cm) (up to slab thickness of 1'-1" (32 cm)),
10" (25 cm) (slab thickness > 1'-1" (32 cm) and up to 1'-8" (50 cm))

- A Dokadek infill beam
- B Dokadek suspension clamp H20
- C Doka floor prop Eurex 30 top + Removable folding tripod
- D Lowering head H20
- E Doka beam H20 used as primary beam
- F Doka beam H20 used as secondary beam
- G Plywood infill
- H Intermediate prop with Supporting head H20



Place a beam (or double beam) wherever there is to be a joint between the panels.



Infilling between 2 Dokadek forming-sections

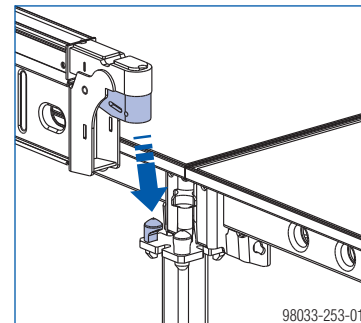
Variant 1: Infill width 'a' = 6 1/2" - 1'-10" (17 - 55 cm)

Max. infill width 'a' with multi-ply sheets 3/4" (18 mm)

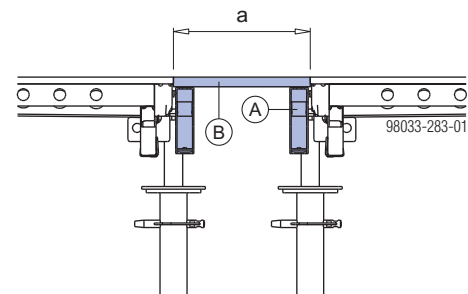
Slab thickness	Infill width 'a'
up to 1'-1" (32 cm)	1'-10" (55 cm)
up to 1'-8" (50 cm)	1'-8" (52 cm)
■ max. spacing of infill props (Eurex 30): 244 cm	

Installation:

- Hook the infill beams into the support heads (cheek plate at top).



- Install the infill.



A Dokadek infill beam

B Plywood infill

Variant 2: Infill with 'a' = 1'-10" - 8'-10" (55 - 270 cm)

Infill width 'a' for slab thicknesses of up to 1'-1" (32 cm)

Primary beams	Infill width 'a'	Recommended secondary beam
3'-7" (1.10 m)	1'-10" - 3'-3" (55 - 100 cm)	9'-6" (2.90 m)
5'-11" (1.80 m)	2'-11" - 5'-7" (90 - 170 cm)	
9'-6" (2.90 m)	4'-9" - 8'-10" (145 - 270 cm)	

Eurex 30:

- max. prop spacing 'b': 2'-4" (72 cm)
- max. primary-beam spacing: 8'-0" (244 cm)
- max. secondary-beam spacing: 1'-6" (45 cm)
(Do not exceed the max. support centers of the formwork sheets!)
- For infill widths 'a' $\geq$ 2'-8" (81 cm):
intermediate prop (with Supporting head H20) is required

Infill width 'a' for slab thicknesses of up to 1'-8" (50 cm)

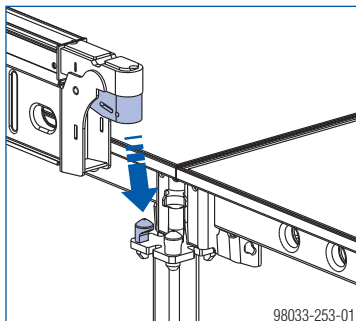
Primary beams	Infill width 'a'	Recommended secondary beam
3'-7" (1.10 m)	1'-10" - 3'-3" (55 - 100 cm)	9'-6" (2.90 m)
5'-11" (1.80 m)	2'-11" - 5'-7" (90 - 170 cm)	
9'-6" (2.90 m)	4'-9" - 8'-10" (145 - 270 cm)	

Eurex 30:

- max. prop spacing 'b': 1'-8" (50 cm)
- max. primary-beam spacing: 8'-0" (244 cm)
- max. secondary-beam spacing: 1'-5" (42 cm)
(Do not exceed the max. support centers of the formwork sheets!)
- For infill widths 'a' $\geq$ 2'-6" (75 cm):
intermediate prop (with Supporting head H20) is required

Installation:

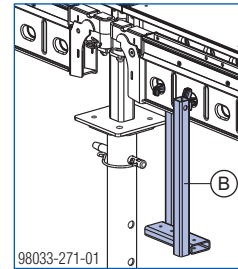
- Hook the infill beams into the support heads (cheek plate at top).



- Hook the suspension clamps into the infill beams **as close to the floor props as possible**.

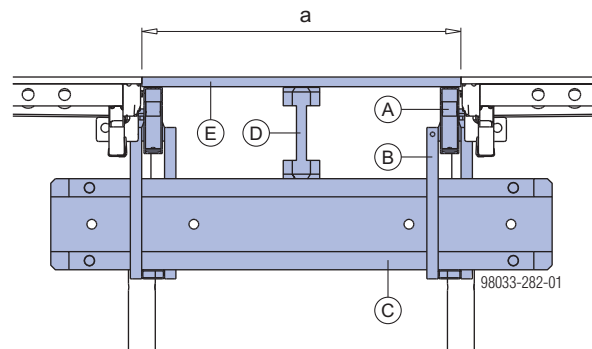
Number of suspension clamps needed:

- next to every floor prop in the longitudinal direction
- next to every other floor prop in the transverse direction Floor prop

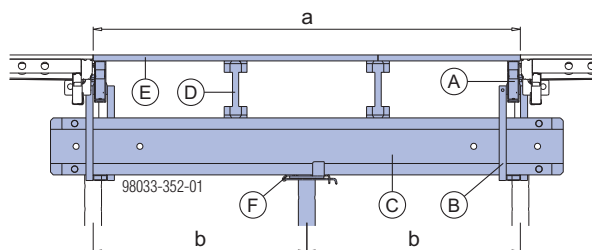


- Install the infill.

Practical example: Infill width 'a' $\leq$ 2'-8" (81 cm)



Practical example: Infill width 'a' > 2'-8" (81 cm) (with intermediate prop)



A Dokadek infill beam

B Dokadek suspension clamp H20

C Doka beam H20 used as primary beam

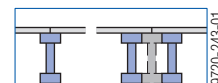
D Doka beam H20 used as secondary beam

E Plywood infill

F Intermediate prop with Supporting head H20

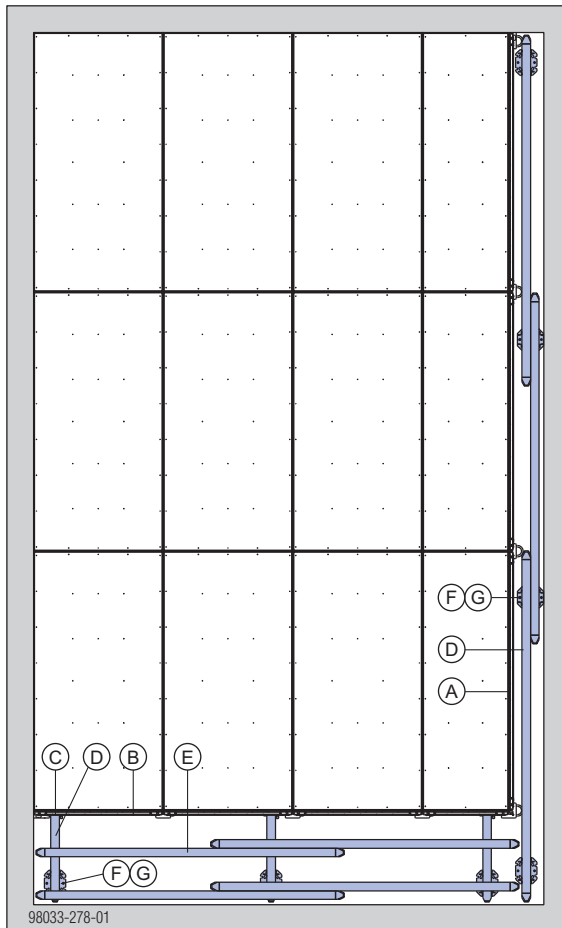


Place a beam (or double beam) wherever there is to be a joint between the panels.



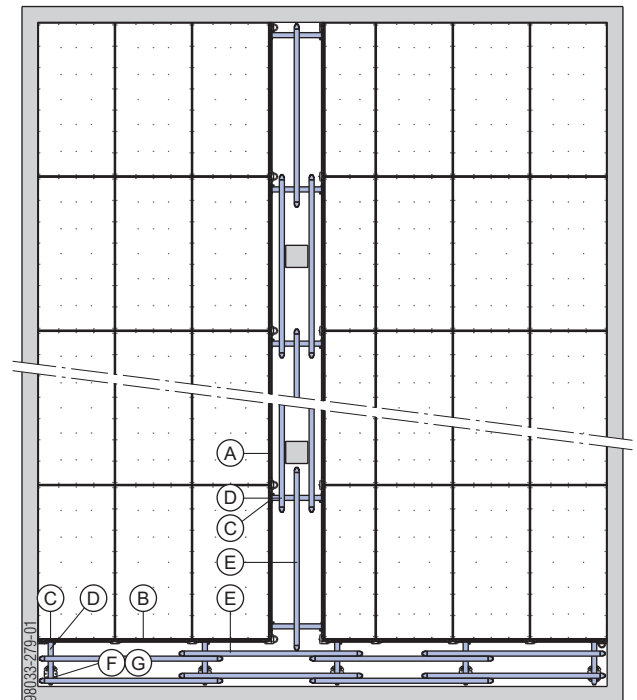
Practical examples

L-shaped infill zone

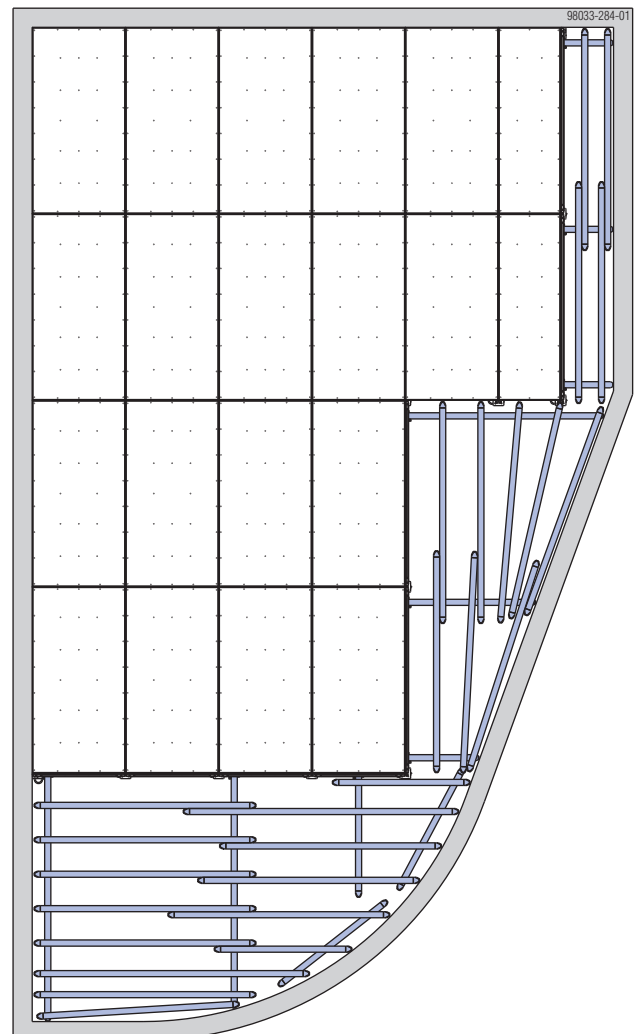


- A** Dokadek infill beam 8'-0" (2.44m)
- B** Dokadek infill beam 4'-0" (1.22m) or 2'-8" (0.81m)
- C** Dokadek suspension clamp H20
- D** Doka beam H20 used as primary beam
- E** Doka beam H20 used as secondary beam
- F** Doka floor prop Eurex 30 top + Removable folding tripod
- G** Lowering head H20

T-shaped infill zone



Adapting to difficult layout shapes

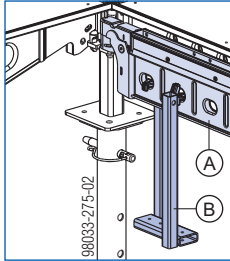


Symbolic representation

Infill zones around columns

using Dokadek infill beams and Doka beams H20

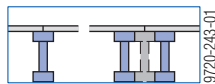
- Hook two infill beams 4'-0" (1.22m) or 2'-8" (0.81m) into the support heads in the transverse direction (cheek plate at top).
- Hook 4 suspension clamps into the infill beams as close to the floor props as possible.



- Work 2 Doka beams H20 into the suspension clamps, to serve as primary beams.
- e.g. with 4'-0" (1.22 m) wide panels: place Doka beams H20 (e.g. Dokadek system beams H20 eco P 1.10m for a panel width of 4'-0" (1.22 m)) onto the primary beams, at right-angles to these.

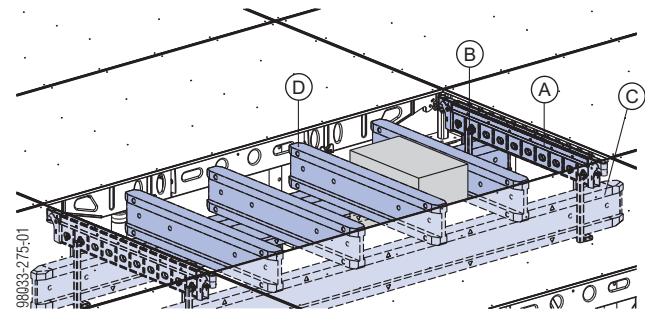


Place a beam (or double beam) wherever there is to be a joint between the panels.

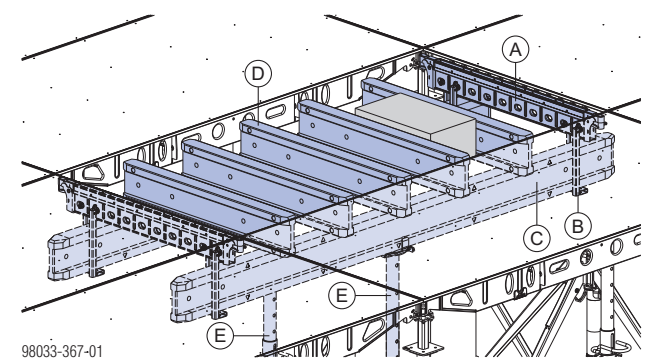


Practical examples - Column located inside panel-field (variant 1)

Slab thickness $\leq 1'-1"$ (32 cm)



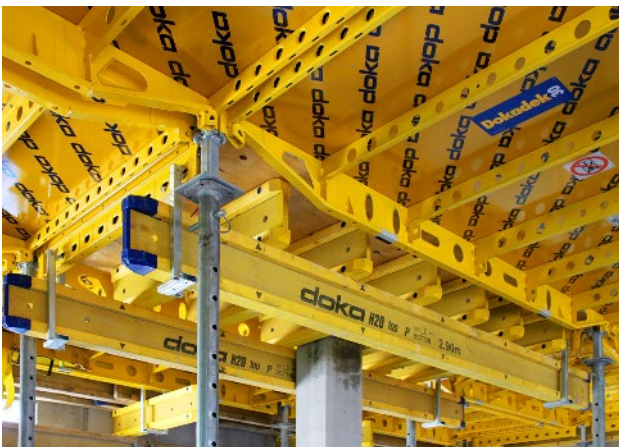
Slab thickness $> 1'-1"$ (32 cm)



Slab thickness	Max. spacing of secondary beams	Number of extra shores per primary beam
$\leq 1'-1"$ (32 cm)	1'-8" (50 cm) ¹⁾	—
$> 1'-1"$ (32 cm)	1'-5" (42 cm) ¹⁾	1 (in mid-span)

¹⁾ Do not exceed the max. support centers of the formwork sheets!

- A** Dokadek infill beam 4'-0" (1.22m) or 2'-8" (0.81m)
- B** Dokadek suspension clamp H20
- C** Doka beam H20 2.90m used as primary beam
- D** Doka beam H20 used as secondary beam (e.g. Dokadek system beam H20 eco P 1.10m for a panel width of 1.22 m)
- E** Extra shore in mid-span:
 - Doka floor prop Eurex 30 top
 - Supporting head H20 DF

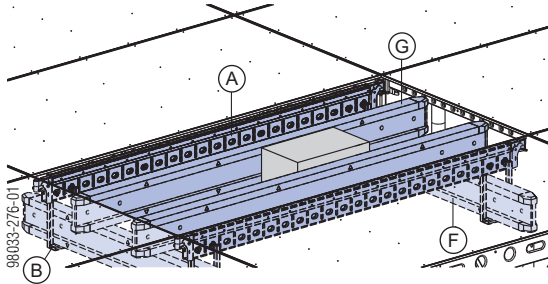


Practical examples - Column located inside panel-field (variant 2)

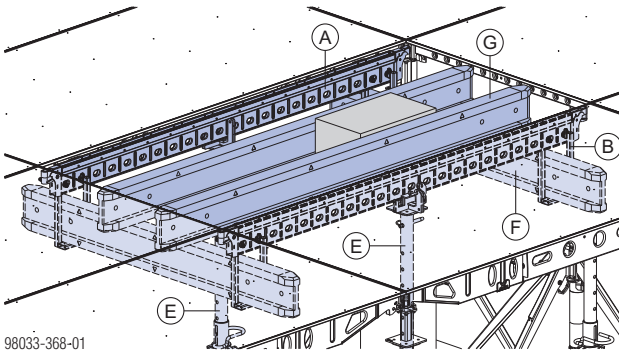


If necessary, the infill beams and Doka beams H20 can also be arranged the other way round, i.e. the Infill beams 8'-0" (2.44m) on which the suspension clamps are installed are secured in the longitudinal direction.

Slab thickness $\leq 1'-1"$ (32 cm)



Slab thickness $> 1'-1"$ (32 cm)



Slab thickness	Max. spacing of secondary beams	Number of extra shores per infill beam
$\leq 1'-1"$ (32 cm)	1'-8" (50 cm) ¹⁾	—
$> 1'-1"$ (32 cm)	1'-5" (42 cm) ¹⁾	1 (in mid-span)

¹⁾ Do not exceed the max. support centers of the formwork sheets!

A Dokadek infill beam 2.44m

B Dokadek suspension clamp H20

E Extra shore in mid-span)

- Doka floor prop Eurex 30 top

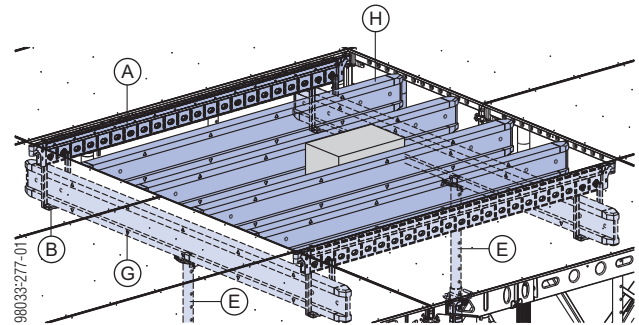
- Dokadek edge head + Spring locked connecting pin 16mm

F Doka beam H20 used as primary beam (e.g. Doka beam H20 1.80m for a panel width of 4'-0" (1.22 m))

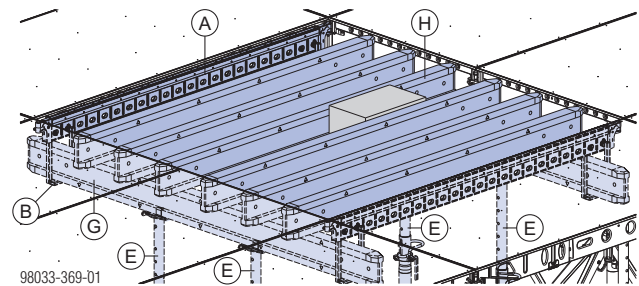
G Doka beam H20 2.45m used as secondary beam

Practical examples - Column is exactly beneath the panel joint

Slab thickness $\leq 1'-1"$ (32 cm)



Slab thickness $> 1'-1"$ (32 cm)



Slab thickness	Max. spacing of secondary beams	Number of extra shores per primary beam
$\leq 1'-1"$ (32 cm)	1'-8" (50 cm) ¹⁾	1 (in mid-span)
$> 1'-1"$ (32 cm)	1'-5" (42 cm) ¹⁾	2 (at the one-third points)

¹⁾ Do not exceed the max. support centers of the formwork sheets!

A Dokadek infill beam 8'-0" (2.44m)

B Dokadek suspension clamp H20

E Extra shore:

- Doka floor prop Eurex 30 top

- Supporting head H20 DF

G Doka beam H20 used as primary beam (e.g. Doka beam H20 2.90m for a panel width of 4'-0" (1.22 m))

H Doka beam H20 2.45m used as secondary beam

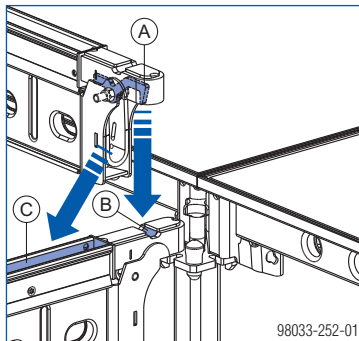
using Dokadek infill beams

- Hook two Infill beams 8'-0" (2.44m) into the support heads in the longitudinal direction (cheek plate and locking mechanism at bottom).
- Place Infill beams 4'-0" (1.22m) or 2'-8" (0.81m, as appropriate) on the underlying Infill beams 8'-0" (2.44m) in the transverse direction (cheek plate at bottom, locking mechanism at top).

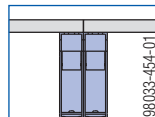


Position **(A)** of the locking mechanism of the transverse Infill beam 4'-0" (1.22m) or 2'-8" (0.81m), as applicable:

- at all 4 corners, in the recesses **(B)** on the Infill beams 8'-0" (2.44m)
- between these, in the profile slots **(C)** on the Infill beams 8'-0" (2.44m)

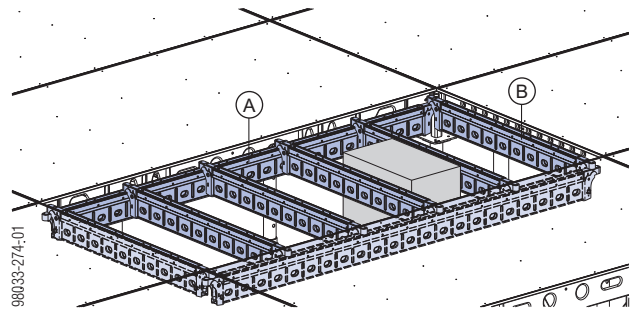


Make sure that there are 2 infill beams under every point where 2 sheets abut.

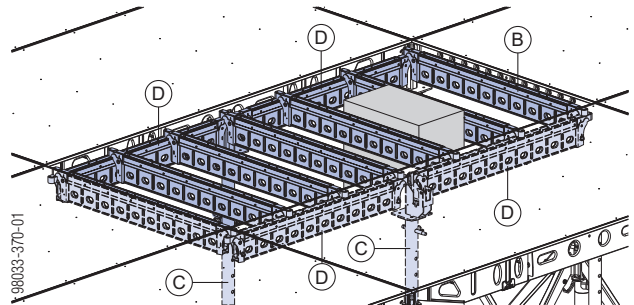


Practical examples - Column located inside panel-field (variant 1)

Slab thickness $\leq 1'-1"$ (32 cm)



Slab thickness $> 1'-1"$ (32 cm)



Slab thickness	Max. spacing of secondary beams	Number of extra shores
$\leq 1'-1"$ (32 cm)	1'-8" (50 cm) ¹⁾	—
$> 1'-1"$ (32 cm)	1'-5" (42 cm) ¹⁾	1

¹⁾ Do not exceed the max. support centers of the formwork sheets!

A Dokadek infill beam 8'-0" (2.44m)

B Dokadek infill beam 4'-0" (1.22m) or 2'-8" (0.81m)

C Extra shore:

- Doka floor prop Eurex 30 top
- Dokadek cross head + Spring locked connecting pin 16mm

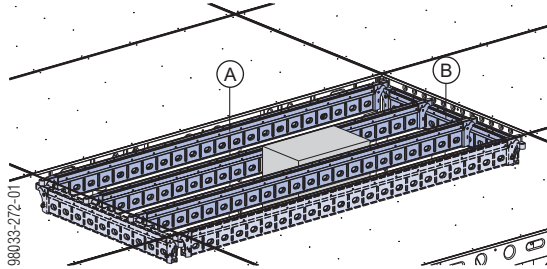
D Dokadek infill beams 4'-0" (1.22m) (4 in all)

Practical examples - Column located inside panel-field (variant 2)

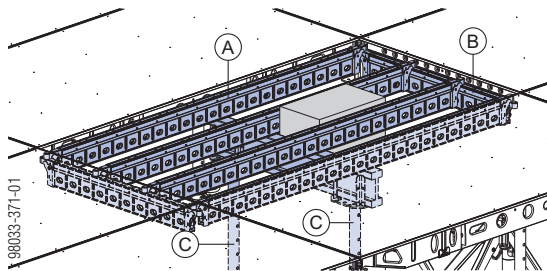


If necessary, the infill beams can also be arranged the other way round, i.e. the Infill beams 8'-0" (2.44m) are laid onto the underlying Infill beams 4'-0" (1.22m) or 2'-8" (0.81m).

Slab thickness $\leq 1'-1"$ (32 cm)



Slab thickness $> 1'-1"$ (32 cm)



Slab thickness	Max. spacing of secondary beams	Number of extra shores on infill beams
$\leq 1'-1"$ (32 cm)	1'-8" (50 cm) ¹⁾	—
$> 1'-1"$ (32 cm)	1'-5" (42 cm) ¹⁾	1 (in mid-span)

¹⁾ Do not exceed the max. support centers of the formwork sheets!

A Dokadek infill beam 8'-0" (2.44m)

B Dokadek infill beam 4'-0" (1.22m) or 2'-8" (0.81m)

C Extra shore for Dokadek infill beam 8'-0" (2.44m) (Pos. A):

- Doka floor prop Eurex 30 top
- Removable folding tripod top
- Lowering head / 4-way head H20
- Doka beam H20 1.25m when using Dokadek panels 4'-0"x8'-0" (1.22x2.44m)

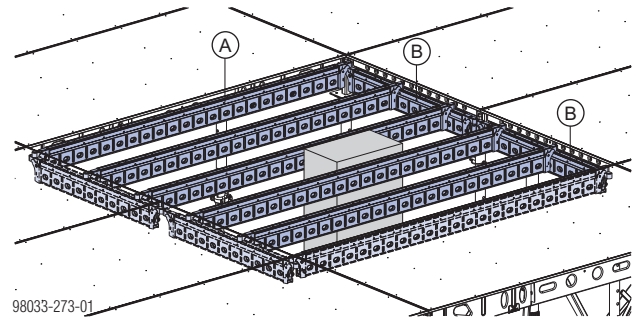


NOTICE

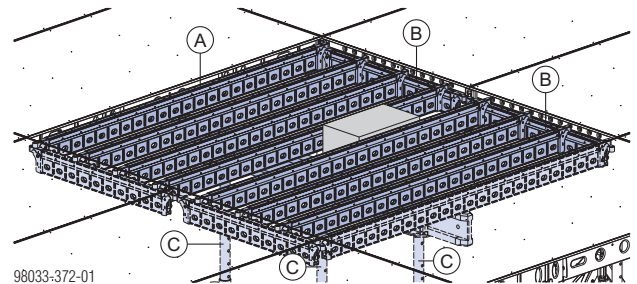
The extra prop must only be used for Dokadek infill beams 8'-0" (2.44m), and not for Dokadek panels.

Practical examples - Column is exactly beneath the panel joint

Slab thickness $\leq 1'-1"$ (32 cm)



Slab thickness $> 1'-1"$ (32 cm)



Slab thickness	Max. spacing of secondary beams	Number of extra shores on infill beams
$\leq 1'-1"$ (32 cm)	1'-8" (50 cm) ¹⁾	—
$> 1'-1"$ (32 cm)	1'-5" (42 cm) ¹⁾	1

¹⁾ Do not exceed the max. support centers of the formwork sheets!

A Dokadek infill beam 8'-0" (2.44m)

B Dokadek infill beam 4'-0" (1.22m) or 2'-8" (0.81m)

C Extra shore for Dokadek infill beam 8'-0" (2.44m) (Pos. A):

- Doka floor prop Eurex 30 top
- Removable folding tripod top
- Lowering head / 4-way head H20
- Intermediate prop with Supporting head H20 DF
- Doka beam H20 2.45m when using Dokadek panels 4'-0"x8'-0" (1.22x2.44m)

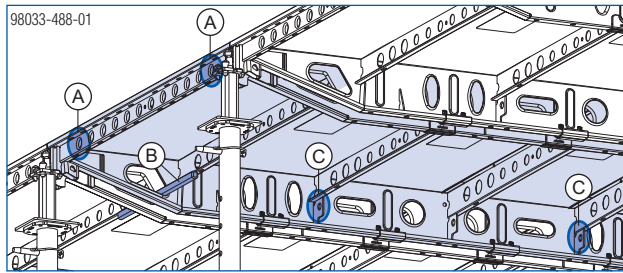


NOTICE

The extra prop must only be used for Dokadek infill beams 8'-0" (2.44m), and not for Dokadek panels.

Floor formwork around edges

with Lashing strap 5.00m and Doka express anchor 16x125mm



Permissible bracing force:

A	Anchorage point in frame profile for longitudinal and transverse tie-backs	1.12 kip (5 kN)
B	Tie rod 20.0 (or equivalent) in panel joint for longitudinal tie-back	1.12 kip (5 kN)
C	Anchorage point at the one-third point for longitudinal and transverse tie-backs	0.56 kip (2.5 kN)



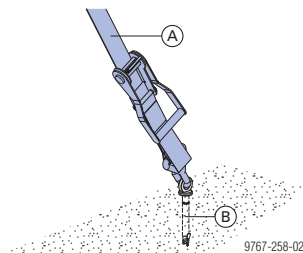
WARNING

- Do NOT exceed the permitted bracing angle and bracing force, so as to prevent damage to the Dokadek panel and to ensure that all forces from horizontal loads in concreting operations can be transferred.
- Use tie-backs to transfer horizontal forces. These forces can also be transferred into existing structural members such as concrete columns or walls.



NOTICE

- Only attach the Lashing strap 5.00m to the points shown above and tension it in the required direction of the profile.
- It is forbidden to attach tie-backs to the inside cross-profiles!
- Prepare an anchorage point in the ground with the Doka express anchor.
- Attach the lashing strap and tighten it.



A Lashing strap 5.00m

B Doka express anchor 16x125mm

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

Permitted load in "green" (new) concrete and in cured C20/25 concrete with a characteristic cube compressive strength of $f_{ck, cube} \geq 1500$ psi (14 N/mm²):
 $F_{perm} = 1.13$ kip (5.0 kN)



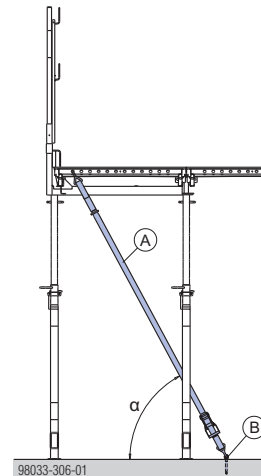
Follow the Fitting Instructions!

Always perform a static check if other-make heavy-duty dowels are used to fabricate anchorages in the floor slab.

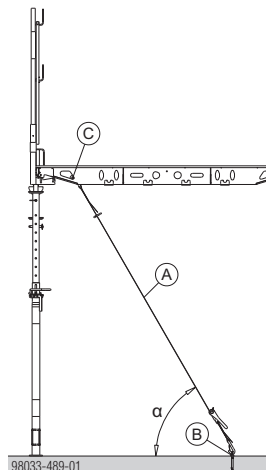
Follow the manufacturers' applicable fitting instructions.

Practical examples

Tie-back in transverse direction



Tie-back in longitudinal direction



α ... tie-back angle approx. 60°

A Lashing strap 5.00m

B Doka express anchor 16x125mm

C Tie rod 20.0

Fall protection on the formwork

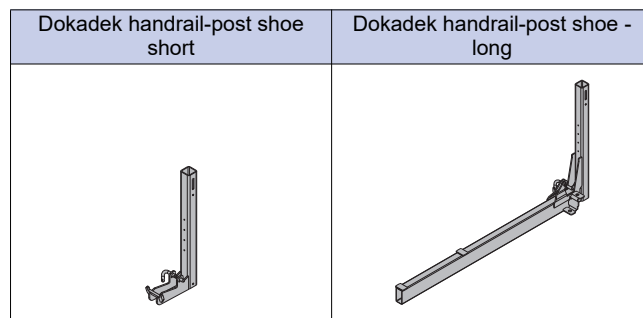


NOTICE

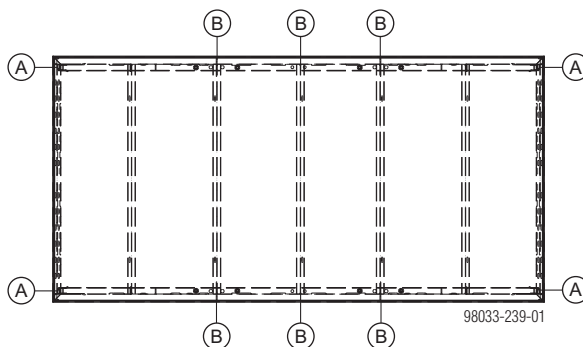
- Ideally, install guardrail systems etc. from below (e.g. using a Wheel-around scaffold DF).
- When installing/removing edge protection from above, the crew must use a personal fall-arrest system to protect against falls (e.g. the Doka personal fall-arrest set).
- Suitable anchorage points must be defined by a skilled person appointed by the contractor.

Guardrail system with transfer of concreting loads

The Dokadek handrail-post shoes are secured to defined positions on the previously-installed Dokadek panel. They are used for holding Handrail posts XP 1.20m.



Possible securing points for the handrail-post shoes



A Dokadek handrail-post shoe short

B Dokadek handrail-post shoe - long



Follow the directions in the 'Edge protection system XP' User Information booklet.



CAUTION

- Use the Edge protection system XP only in combination with the Handrail post XP 1.20m.

Permitted influence width of the handrail-post shoes for slab thicknesses of up to 1'-1" (32 cm) (without additional precautions)

Dynamic pressure q	Type of railing			
	Guard-rail plank 6" (15 cm) ¹⁾	Guard-rail plank 8" (20 cm) ¹⁾	Scaffold tube 48.3mm	Protective grating XP 2.70x1.20m
With concrete load				
4.2 psf (0.2 kN/m ²)	4'-6" (137 cm)	4'-6" (137 cm)	4'-6" (137 cm)	4'-6" (137 cm)
without concrete load				
4.2 psf (0.2 kN/m ²)	8'-6" (259 cm)	8'-6" (259 cm)	8'-6" (259 cm)	8'-6" (259 cm)
12.5 psf (0.6 kN/m ²)	8'-6" (259 cm)	4'-6" (137 cm)	8'-6" (259 cm)	8'-6" (259 cm)
23.0 psf (1.1 kN/m ²)	4'-6" (137 cm)	—	8'-6" (259 cm)	8'-6" (259 cm)
27.1 psf (1.3 kN/m ²)	—	—	8'-6" (259 cm)	8'-0" (244 cm)

¹⁾ Minimum thickness 1 1/8" (3 cm) for influence width greater than 4'-6" (137 cm).

Permitted influence width of the handrail-post shoes for slab thicknesses of up to 1'-8" (50 cm) (with additional precautions)

Dynamic pressure q	Type of railing		
	Guard-rail plank 6" (15 cm) ^{1) 2)}	Guard-rail plank 8" (20 cm) ^{1) 2)}	Protective grating XP 2.70x1.20m
With concrete load			
4.2 psf (0.2 kN/m ²)	4'-6" (137 cm)	4'-6" (137 cm)	4'-6" (137 cm)
without concrete load			
4.2 psf (0.2 kN/m ²)	8'-6" (259 cm)	8'-6" (259 cm)	8'-6" (259 cm)
12.5 psf (0.6 kN/m ²)	8'-6" (259 cm)	4'-6" (137 cm)	8'-6" (259 cm)
23.0 psf (1.1 kN/m ²)	4'-6" (137 cm)	—	8'-6" (259 cm)
27.1 psf (1.3 kN/m ²)	—	—	8'-0" (244 cm)

¹⁾ Minimum thickness 1 1/8" (3 cm) for influence width greater than 4'-6" (137 cm).

²⁾ Guard-rail boards 6" (15 cm) are permitted only up to a slab thickness of 1'-6" (45 cm).

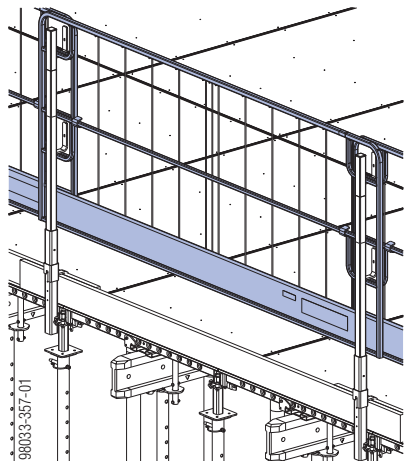


- The span of the handrail posts is roughly equal to the influence width if
 - they are evenly spaced
 - the guard-rail boards are either continuous or are jointed at the handrail posts, and
 - there are no cantilevering projections



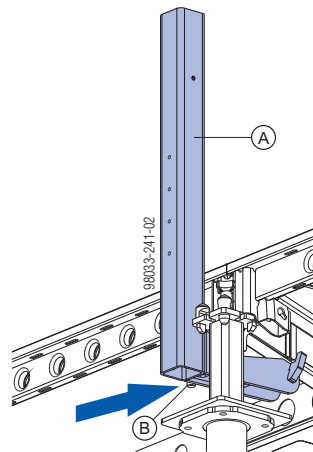
NOTICE

For slab thicknesses > 1' (30 cm), raise the Protective grating XP into the position shown here, so as to obtain the required railing-height after pouring.

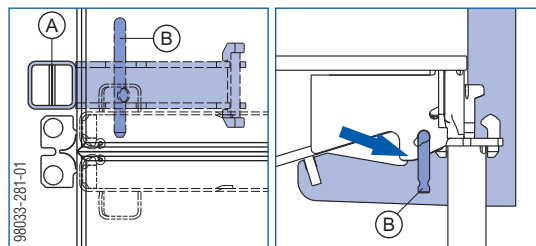


Attaching the handrail-post shoe short

- Working from below, push the handrail-post shoe short onto the longitudinal profile of the Dokadek panel and secure it with pins (these are included in the scope of supply of the handrail-post shoe short).

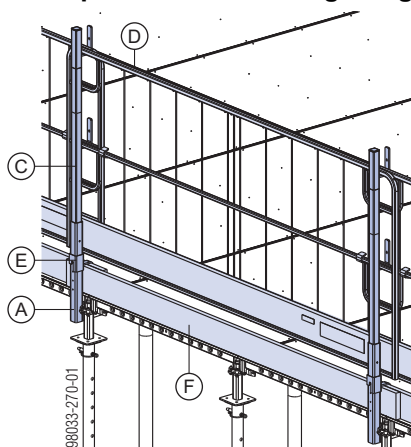


Make sure that the Handrail-post shoe - narrow side (A) and the pin (vertical!) (B) are in the correct position!



- Push on the Handrail post XP 1.20m until it locks ('Easy-Click' function).
- Install the sideguards.

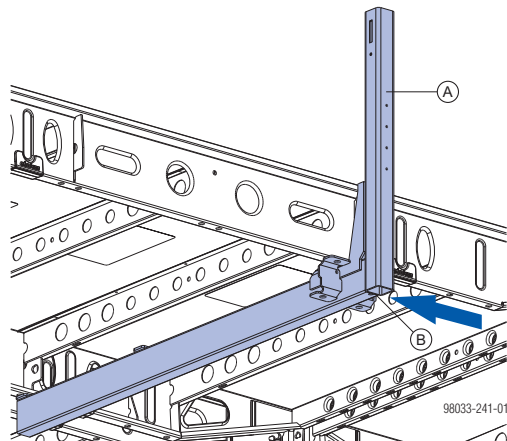
Practical example with Protective grating XP



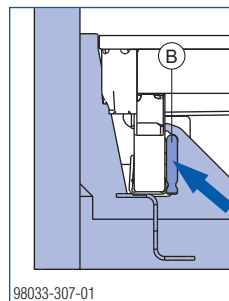
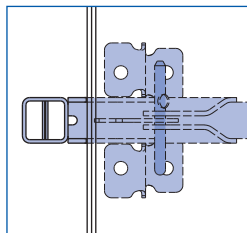
- A Dokadek handrail-post shoe short
- B Pin
- C Handrail post XP 1.20m
or Dokadek handrail post (US Art. n° 741001314)
- D Protective grating XP 2.70x1.20m
- E Toeboard holder XP 0.60m
- F Toeboard

Attaching the handrail-post shoe long

- ▶ Working from below, push the handrail-post shoe long onto the longitudinal profile of the Dokadek panel, in the transverse direction, and secure it to the cross profile with pins (these are included in the scope of supply of the handrail-post shoe long).

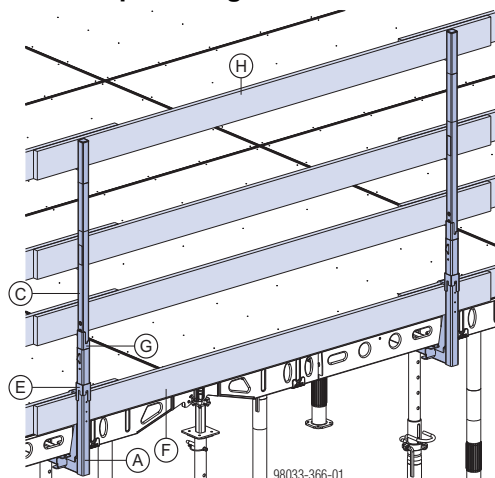


Make sure that the pin **(B)** is in the vertical position!



- ▶ Push on the Handrail post XP 1.20m until it locks ('Easy-Click' function).
- ▶ Install the sideguards.

Practical example with guard-rail boards



- A** Dokadek handrail-post shoe - long
- B** Pin
- C** Handrail post XP 1.20m
or Dokadek handrail post (US Art. n° 741001314)

E Toeboard holder XP 0.60m

F Toeboard

G Toeboard holder XP 1.20m

H Guard-rail boards

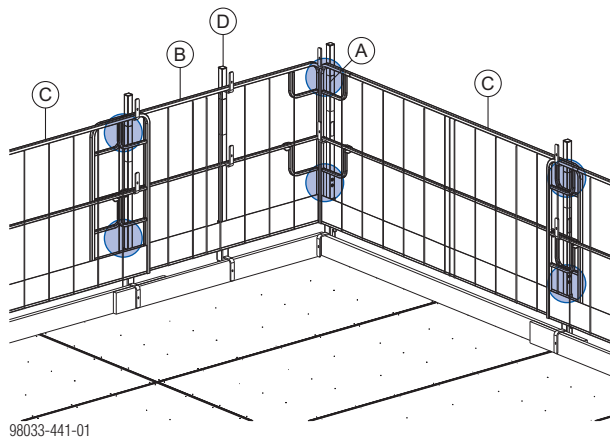
Guardrail systems at corners



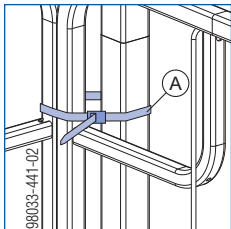
NOTICE

- In corner zones, the Protective gratings XP must be attached to the Handrail posts XP with cable ties or binding wire (see the blue markings in the examples illustrated here). It is not permitted to use the Velcro® fastener 30x380mm.
- On the broadside of the panel, the first grating to be placed (starting from the corner) must always be a Protective grating XP 2.00m. After this, Protective gratings XP 2.70m can be used.
- For slab thicknesses > 1'-1" (32 cm), an extra Toeboard holder XP must be installed on the corner Handrail post XP.

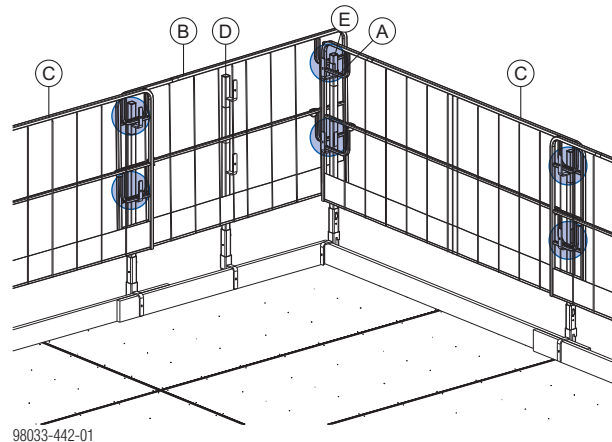
Practical example for slab thickness ≤ 1'-1" (32 cm)



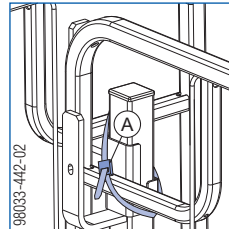
Close-up: Fastener



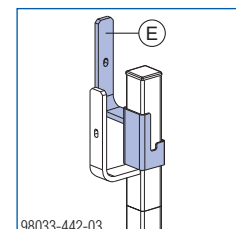
Practical example for slab thickness > 1'-1" (32 cm)



Close-up: Fastener



Close-up: extra Toeboard holder XP 1.20m



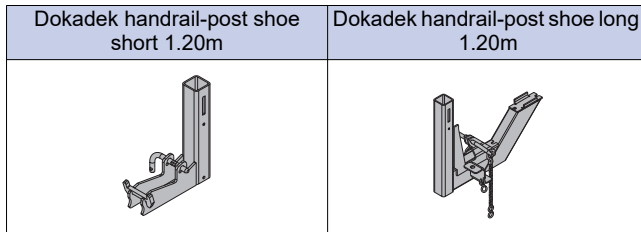
- A** Attached with cable tie or binding wire
- B** Protective grating XP 2.00x1.20m
- C** Protective grating XP 2.70x1.20m
- D** Handrail post XP 1.20m
or Dokadek handrail post (US Art. n° 741001314)
- E** Toeboard holder XP 1.20m

Guardrail system without transfer of concreting loads

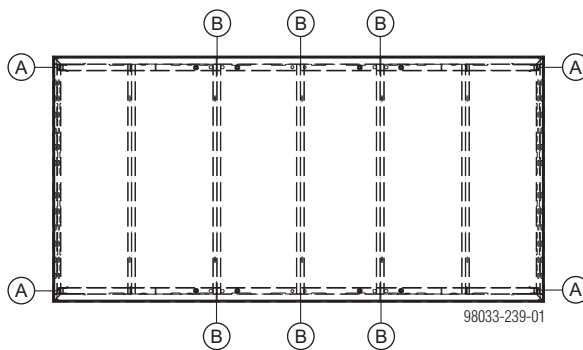
The Dokadek handrail-post shoes 1,20m are secured to defined positions on the previously-installed Dokadek panel. They are used for holding Handrail posts XP 1.20m.



- The span of the handrail posts is roughly equal to the influence width if
 - they are evenly spaced
 - the guard-rail boards are either continuous or are jointed at the handrail posts, and
 - there are no cantilevering projections



Possible securing points for the handrail-post shoes



A Dokadek handrail-post shoe short 1.20m

B Dokadek handrail-post shoe long 1.20m



Follow the directions in the 'Edge protection system XP' User Information booklet.

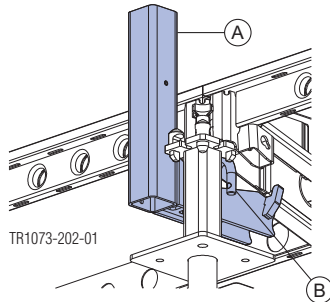
Permitted influence widths of the handrail-post shoes

Dynamic pressure q	Type of railing			
	Guard-rail plank 6" (15 cm) ¹⁾	Guard-rail plank 8" (20 cm) ¹⁾	Scaffold tube 48.3mm	Protective grating XP 2.70x1.20m
4.2 psf (0.2 kN/m ²)	8'-6" (259 cm)	8'-6" (259 cm)	8'-6" (259 cm)	8'-6" (259 cm)
12.5 psf (0.6 kN/m ²)	8'-6" (259 cm)	4'-6" (137 cm)	8'-6" (259 cm)	8'-6" (259 cm)
23.0 psf (1.1 kN/m ²)	4'-6" (137 cm)	—	8'-6" (259 cm)	8'-6" (259 cm)
27.1 psf (1.3 kN/m ²)	—	—	8'-6" (259 cm)	8'-0" (244 cm)

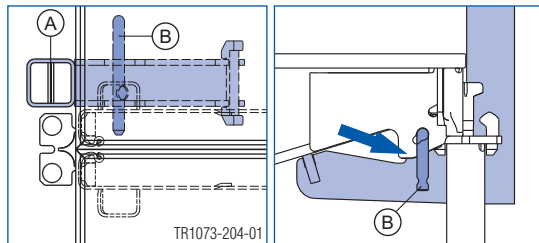
¹⁾ Minimum thickness 1 1/8" (3 cm) for influence width greater than 4'-6" (137 cm).

Secure the Dokadek handrail-post shoe short 1.20m

- ▶ Working from below, push the handrail-post shoe short 1.20m onto the longitudinal profile of the Dokadek panel and secure it with pins (these are included in the scope of supply of the handrail-post shoe short).

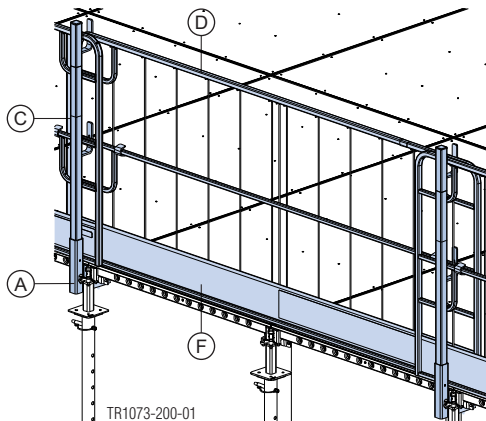


Make sure that the Handrail-post shoe - narrow side (**A**) and the pin (vertical!) (**B**) are in the correct position!



- ▶ Push on the Handrail post XP 1.20m until it locks ('Easy-Click' function).
- ▶ Install the sideguards.

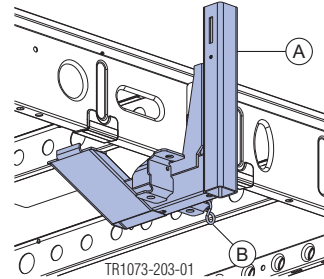
Practical example with Protective grating XP



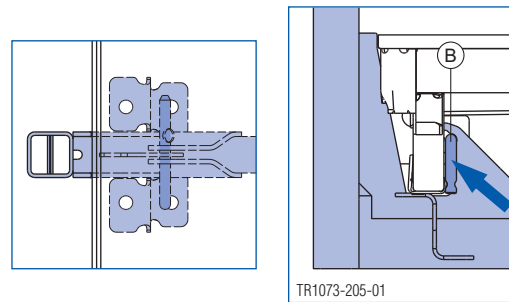
- A** Dokadek handrail-post shoe short 1.20m
- B** Pin
- C** Handrail post XP 1.20m or Dokadek handrail post (US Art. n° 741001314)
- D** Protective grating XP 2.70x1.20m
- F** Toeboard

Secure the Dokadek handrail-post shoe long 1.20m

- ▶ Working from below, push the handrail-post shoe long 1.20m onto the longitudinal profile of the Dokadek panel, in the transverse direction, and secure it to the cross profile with pins (these are included in the scope of supply of the handrail-post shoe long).

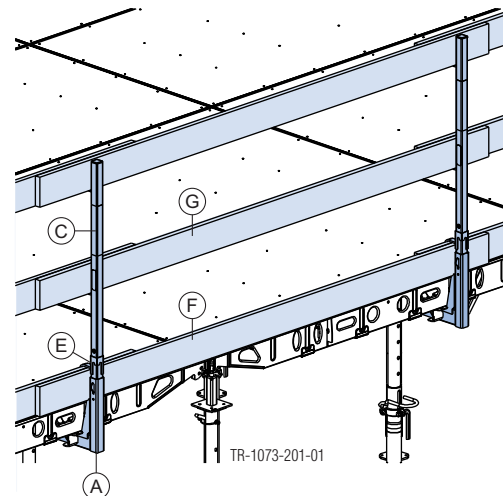


Make sure that the pin (**B**) is in the vertical position!



- ▶ Push on the Handrail post XP 1.20m until it locks ('Easy-Click' function).
- ▶ Install the sideguards.

Practical example with guard-rail boards



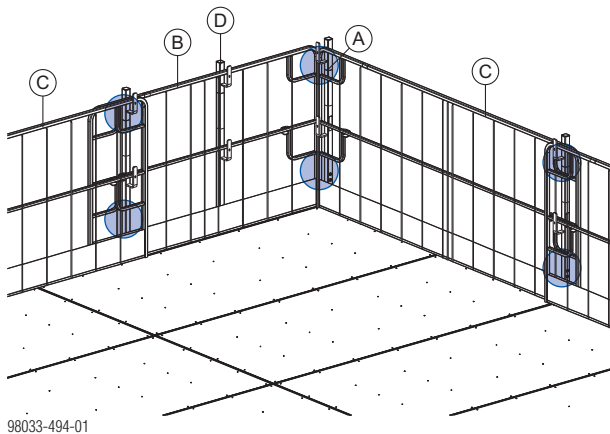
- A** Dokadek handrail-post shoe long 1.20m
- B** Pin
- C** Handrail post XP 1.20m or Dokadek handrail post (US Art. n° 741001314)
- E** Toeboard holder XP 1.20m
- F** Toeboard
- G** Guard-rail boards

Guardrail systems at corners

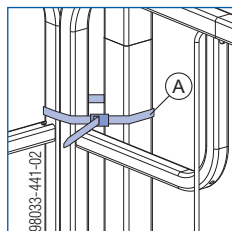


NOTICE

- In corner zones, the Protective gratings XP must be attached to the Handrail posts XP with cable ties or binding wire (see the blue markings in the examples illustrated here). It is not permitted to use the Velcro® fastener 30x380mm.
- On the broadside of the panel, the first grating to be placed (starting from the corner) must always be a Protective grating XP 2.00m. After this, Protective gratings XP 2.70m can be used.



Close-up showing how fastened:

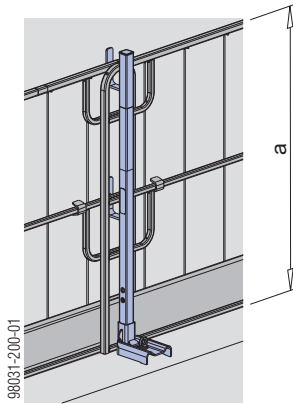


- A** Attached with cable tie or binding wire
- B** Protective grating XP 2.00x1.20m
- C** Protective grating XP 2.70x1.20m
- D** Handrail post XP 1.20m
or Dokadek handrail post (US art. n° 741001314)

Fall protection on the structure

Handrail post XP 1.20m

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



a ... > 3'-3" (1.00 m)



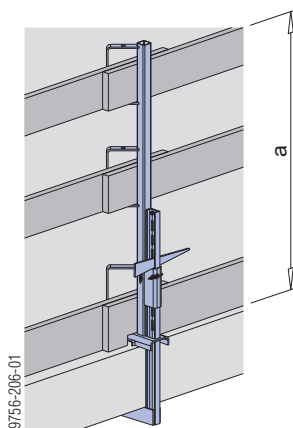
Follow the directions in the 'Edge protection system XP' User Information booklet.

Note:

The Dokadek handrail post (US art. n° 741001314) can be used instead of the Handrail post XP. For more information, please contact your Doka technician.

Handrail clamp S

- Attached with integral clamp
- Guardrail planks or scaffold tubes can be used as safety barrier



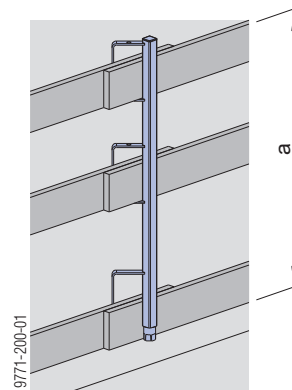
a ... > 3'-3" (1.00 m)



Follow the directions in the User Information booklet "Handrail clamp S"!

Handrail post 1.10m

- Fixed in a Screw sleeve 20.0 or Attachable sleeve 24mm
- Guardrail planks or scaffold tubes can be used as safety barrier



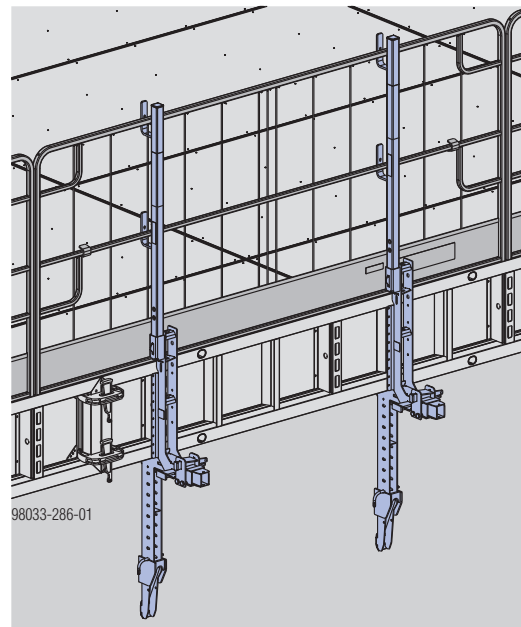
a ... > 3'-3" (1.00 m)



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

Doka slab edge clamp

- Slab bulkheads and safety barriers in one system



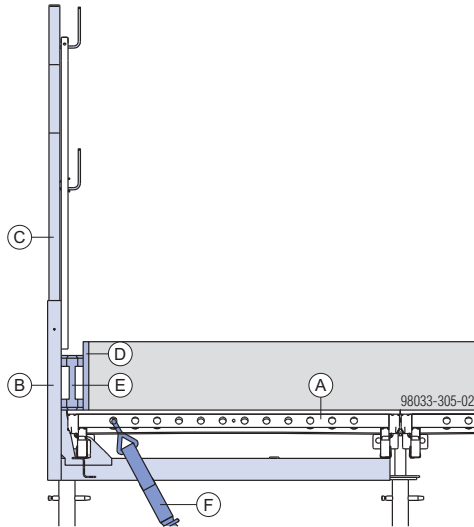
Follow the directions in the User Information booklet "Doka floor end-shutter clamp".

Slab bulkheads

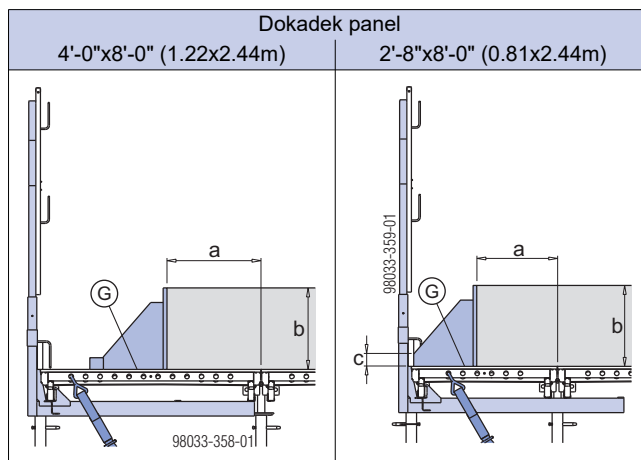
Permissible influence width of the Dokadek handrail-post shoes with slab bulkhead: 4'-6" (137 cm)

in the longitudinal direction

Practical example for slab thickness $\leq 1'-1"$ (32 cm)



Practical example for slab thicknesses $> 1'-1"$ (32 cm)

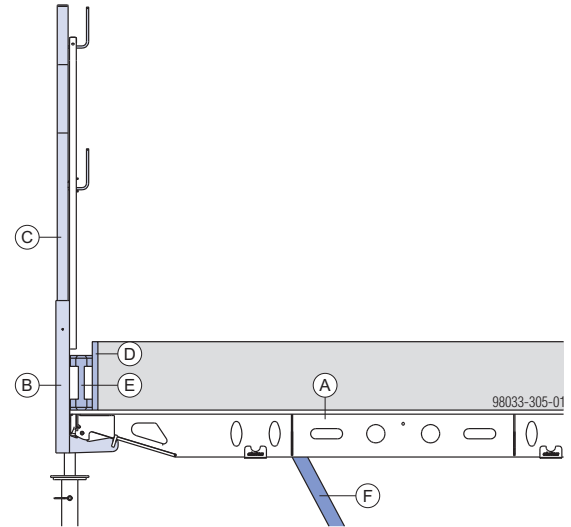


b ... max. 1'-8" (50 cm)
c ... max. 2" (5 cm)

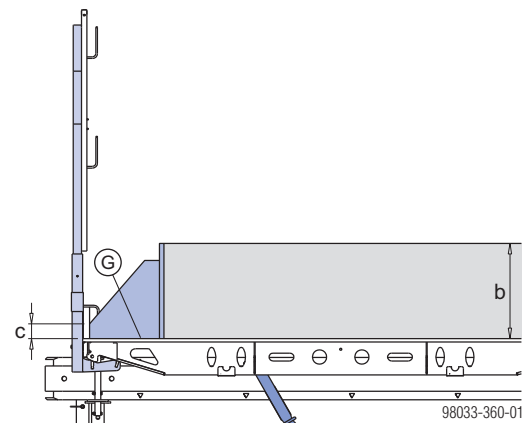
Dokadek panel	max. projecting concrete cover a on the Dokadek panel	max. slab thickness b
4'-0"x8'-0" (1.22x2.44m)	1'-8" (52 cm)	1'-8" (50 cm)
2'-8"x8'-0" (0.81x2.44m)	acting on whole area	1'-6" (45 cm)

in the transverse direction

Practical example for slab thickness $\leq 1'-1"$ (32 cm)



Practical example for slab thicknesses $> 1'-1"$ (32 cm)



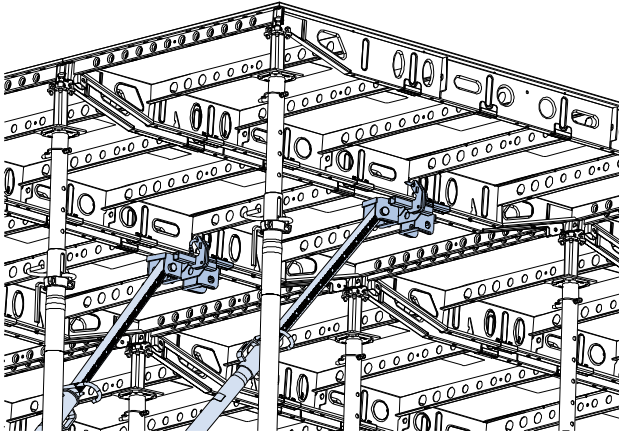
b ... max. 1'-8" (50 cm)
c ... max. 2" (5 cm)

- A** Dokadek panel
- B** Dokadek 'handrail-post shoe long' or 'handrail-post shoe short'
- C** Handrail post XP 1.20m
or Dokadek handrail post (US Art. n° 741001314)
- D** Plywood
- E** Doka beam H20
- F** Lashing strap 5.00m
- G** Screws for attaching the stop-end to the Dokadek panel

Additional areas of use

Sloping slabs

The Dokadek plumbing-strut connector is used for transferring horizontal loads via plumbing struts in situations where Panel floor formwork Dokadek 30 is being used to form e.g. sloping slabs, or sections of slab along exposed (= no side wall) structure-edges.



98033-463-02

Permitted compressive force: 3.03 kip (13.5 kN)

Permitted tensile force: 1.12 kip (5 kN)

Features:

- For connecting Plumbing struts 340 IB and Plumbing struts 540 IB.
- For use at slab-edges instead of tie-backs (e.g. Lashing strap 5.00m).



CAUTION

► If the slab is inclined a separate structural-design appraisal is needed, and the necessary additional precautions (e.g. plumbing struts) must be defined.



NOTICE

Transfer of horizontal loads from the following points must be ensured by the plumbing strut connector:

- imperfection
- inclinations
- work operations
- props not vertical
- concrete pressure
- wind



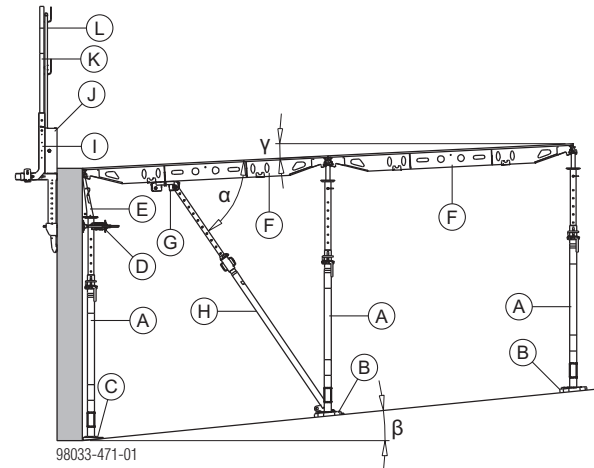
Compensating plates can be used to compensate for floor-slab angles of inclination up to 16 % in all directions.



Follow the directions in the 'Doka express anchor 16x125mm' Fitting Instructions!

Forming inclined floor-slabs

Usage situation A: Doka floor props are in the vertical



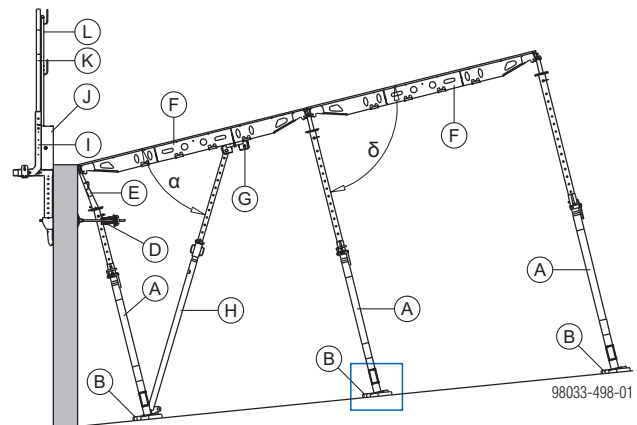
98033-471-01

α ... approx. 60°

β ... max. 16%

γ ... max. 5% without drop head and max. 3% with drop-head (in both the longitudinal and transverse directions)

Usage situation B: Doka floor props are at 90° to the formwork plane

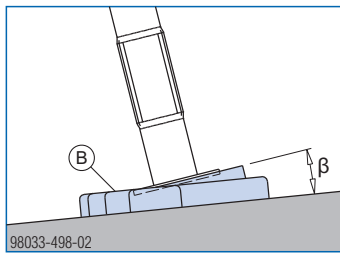


98033-498-01

α ... approx. 60°

δ ... 90°

Close-up of compensating plate



β ... max. 16%

- A** Doka floor prop Eurex
- B** Compensating plate
- C** Wooden wedge
- D** Dokadek wall clamp
- E** Dokadek wall head
- F** Dokadek panel
- G** Dokadek plumbing-strut connector
- H** Plumbing strut 340 IB or Plumbing strut 540 IB
- I** Doka floor end-shutter clamp
- J** Framax Xlife panel
- K** Handrail post XP 1.20m
- L** Protective grating XP 2.70x1.20m

**NOTICE**

Because the floor props are out-of-vertical, additional horizontal forces occur!

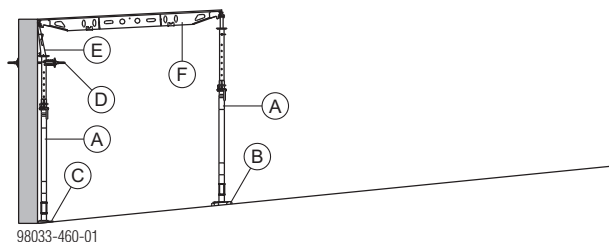
Erecting the formwork

**NOTICE**

Ensure the stability of all components and units during all phases of the construction work!

e.g. Usage situation A:

- Set up the Doka floor props and use compensating plates to plumb the props. Use wooden wedges close to the edge of the slab where space is restricted.
- Use Dokadek wall clamps to secure the floor props against tip-over.
- Fit a Dokadek wall head.
- Engage the panel, raise the free end and secure it.

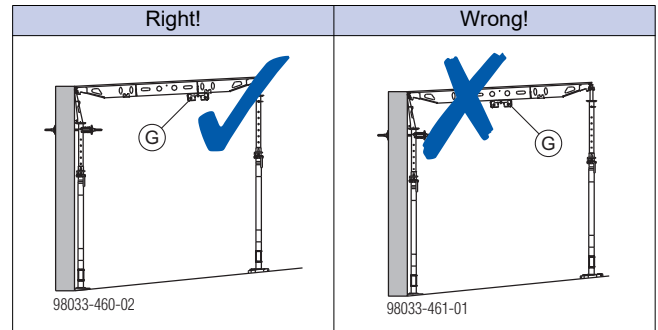


- A** Doka floor prop Eurex
- B** Compensating plate
- C** Wooden wedge
- D** Dokadek wall clamp
- E** Dokadek wall head
- F** Dokadek panel

How to install the Dokadek plumbing-strut connector

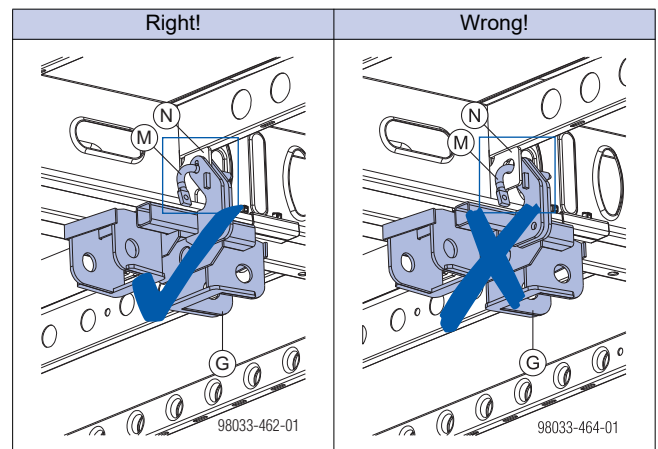
**NOTICE**

The plumbing-strut connector is only allowed to be fitted 1/3 of the way along the Dokadek panel.



G Dokadek plumbing-strut connector

- Pull both fastening bolts out of the stand-by position.
- Fit the plumbing-strut connector onto the longitudinal girder of the panel.
- Pin the connector to the transverse stiffening plates of the panel with the fastening bolts.



F Dokadek panel

G Dokadek plumbing-strut connector

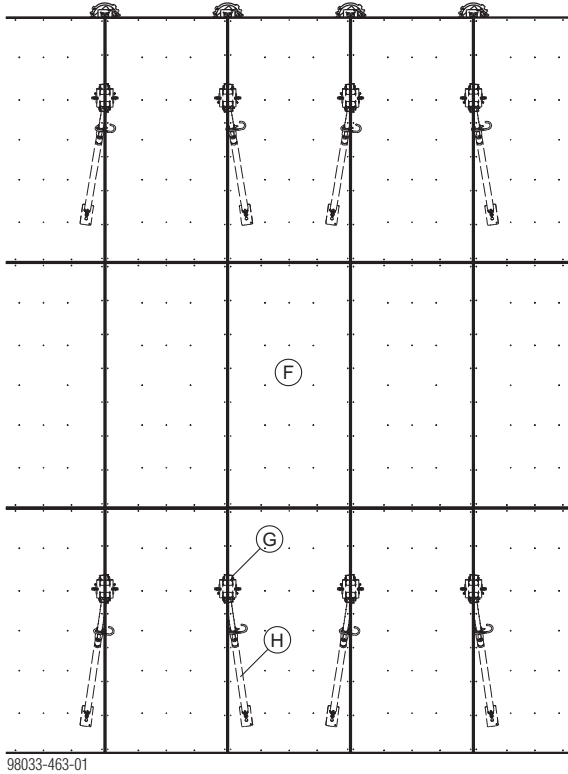
H Plumbing strut 340 IB or Plumbing strut 540 IB

Correct arrangement of plumbing-strut connectors in free-standing systems



NOTICE

- Fit additional plumbing-strut connectors as statically required.
- On free-standing systems, make sure that the plumbing-strut connectors are fitted facing in alternate directions.



F Dokadek panel

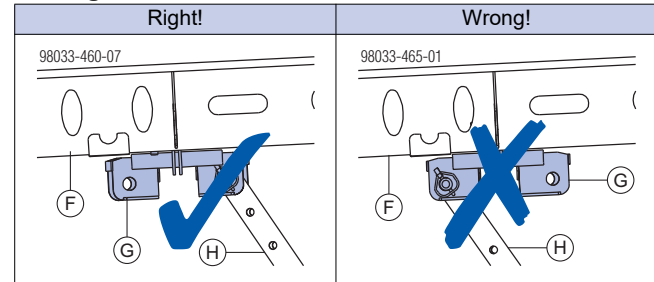
G Dokadek plumbing-strut connector

H Plumbing strut 340 IB or Plumbing strut 540 IB

Attaching the plumbing strut

- Take the fastening bolt out of the plumbing strut.
- Attach the plumbing strut in either the longitudinal or transverse direction, depending on the inclination of the slab.

In longitudinal direction:

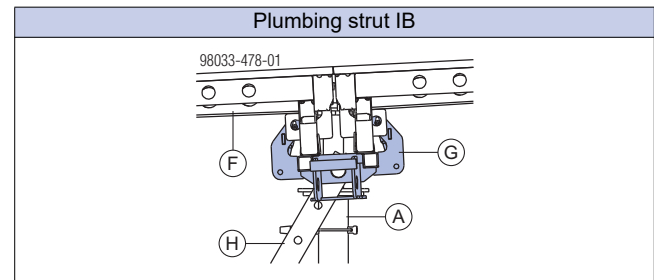


F Dokadek panel

G Dokadek plumbing-strut connector

H Plumbing strut 340 IB or Plumbing strut 540 IB

In transverse direction:



A Doka floor prop Eurex

F Dokadek panel

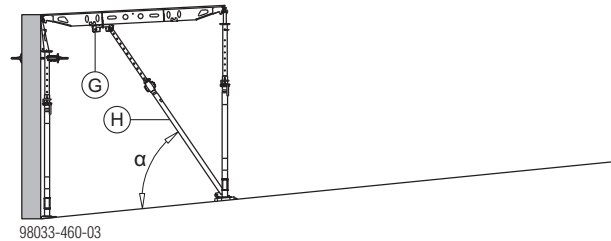
G Dokadek plumbing-strut connector

H Plumbing strut 340 IB or Plumbing strut 540 IB

- Pin the plumbing strut onto the plumbing-strut connector with the fastening bolt.

Animation: <https://player.vimeo.com/video/258967173>

- Extend the plumbing strut to the desired length.
- Secure the plumbing strut to the floor with a Doka express anchor.



α ... approx. 60°

G Dokadek plumbing-strut connector

H Plumbing strut 340 IB or Plumbing strut 540 IB



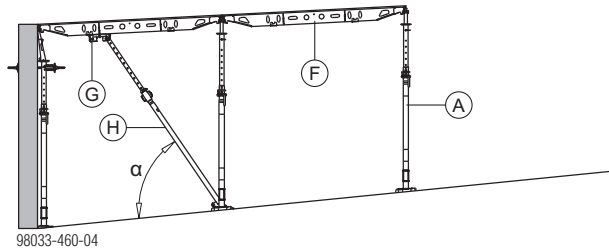
NOTICE

When extending the Plumbing strut IB, only turn the adjusting nut until the strut encounters resistance from above. The panel must not be raised.



Follow the directions in the 'Doka express anchor 16x125mm' Fitting Instructions!

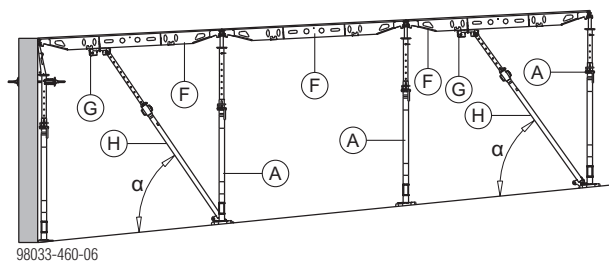
► Install further panels.



α ... approx. 60°

- A** Doka floor prop Eurex
- F** Dokadek panel
- G** Dokadek plumbing-strut connector
- H** Plumbing strut 340 IB or Plumbing strut 540 IB

- Then fit plumbing-strut connectors as needed.
- Pin a plumbing strut to each connector and secure each strut to the floor with a Doka express anchor.



α ... approx. 60°

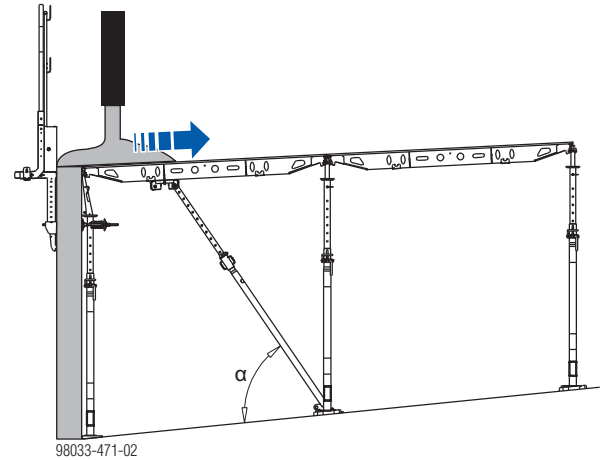
- A** Doka floor prop Eurex
- F** Dokadek panel
- G** Dokadek plumbing-strut connector
- H** Plumbing strut 340 IB or Plumbing strut 540 IB

Pouring



WARNING

- Only start pouring on a supported panel-field.
- Make sure that pouring is carried out in the correct direction (from 'bottom to top')!



Stripping the formwork

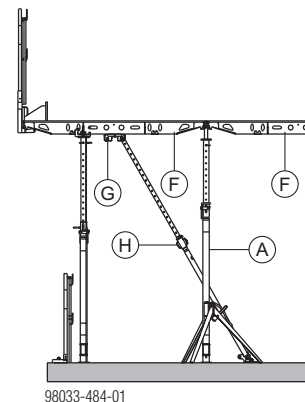


NOTICE

- Comply with the stipulated stripping times.
- Always strip out the formwork in reverse order.
- As well as the instructions given here, the section headed 'Reshoring props, concrete technology and stripping out' must also be observed.

Forming at slab-edges

Usage situation C:



- A** Doka floor prop Eurex
- F** Dokadek panel
- G** Dokadek plumbing-strut connector
- H** Plumbing strut 340 IB or Plumbing strut 540 IB

Note:

A Dokadek plumbing-strut connector can be installed 1/2-way along the Dokadek panel and used – together with a plumbing strut – as a tie-back.



Follow the directions in the 'Structure edge (Panel floor formwork Dokadek 30)' User Information booklet.

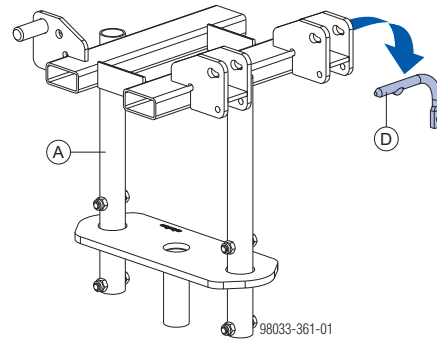
Additional precautions for slab thicknesses of up to 1'-8" (50 cm)

Installing additional propping (not including slab edge)

Installing the Timber beam seat H20 (not including slab edge)

at a panel joint

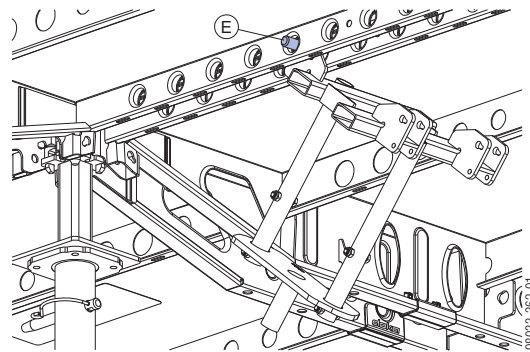
- Remove the safety pin of the Timber beam seat H20, from its stand-by position.



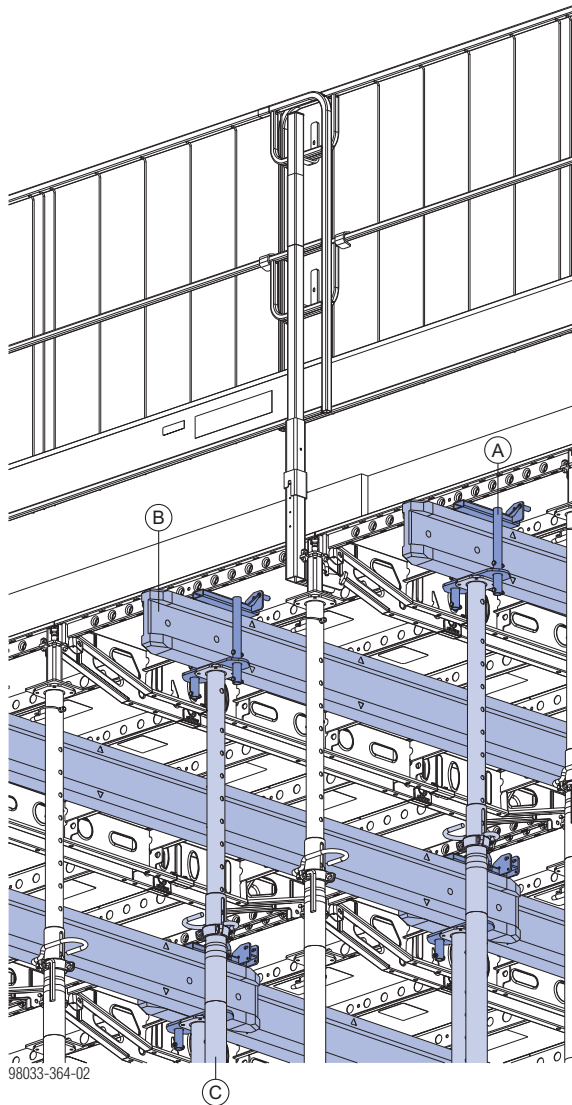
A Timber beam seat H20

D Safety pin

- Install the Timber beam seat H20 midway along the panel. To do this, insert a d16mm bolt into the 2nd hole of the cross profile (from the middle) of one of the two panels.



E Bolt d16mm



A Timber beam seat H20

B Doka Beam H20 (recommended length: 9'-6" (2.90m))

C Doka floor prop Eurex 30 top

Permitted slab thickness with additional precautions

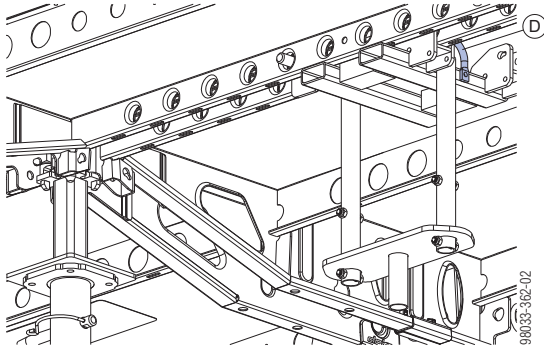
Panel size	Floor prop Eurex 30
4'-0"x8'-0" (1.22x2.44m)	> 1' - 1'-8" (> 30 - 50 cm)
2'-8"x8'-0" (0.81x2.44m)	> 1'-6" - 1'-8" (> 45 - 50 cm)



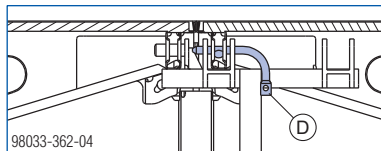
NOTICE

Install the additional propping AFTER the formwork has been secured against tip-over.

- Tilt up the Timber beam seat H20 and secure it in the cross profile of the other panel, with the safety pin.



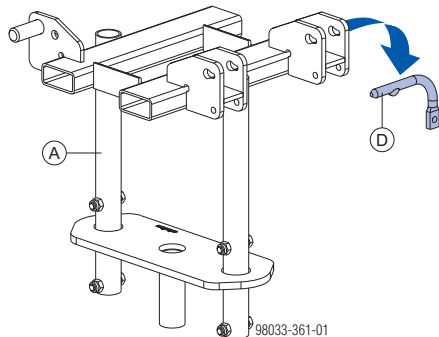
Close-up of safety pin



D Safety pin

on an edge panel

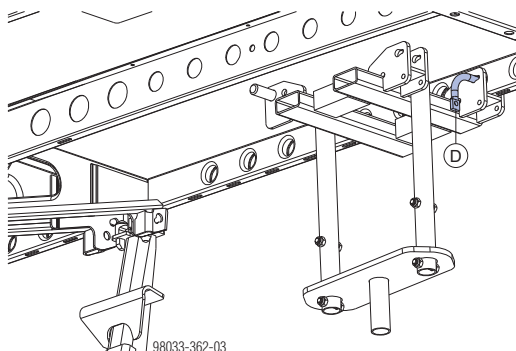
- Remove the safety pin of the Timber beam seat H20, from its stand-by position.



A Timber beam seat H20

D Safety pin

- Install the Timber beam seat H20 midway along the panel. To do this, insert the safety pin into the 2nd hole of the cross profile (from the middle).



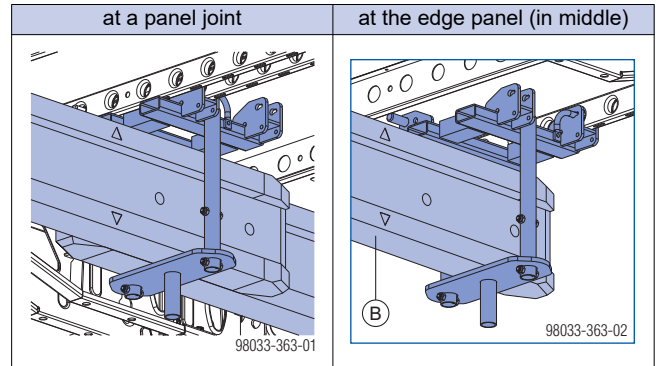
D Safety pin

Inserting Doka beams H20



NOTICE

- When beams need to be telescoped past each other, always do this in the same Timber beam seat H20.
- At the edge of the formwork, the single beam must be resting in the middle of the Timber beam seat H20, and touching the wall.
- Use the Alu beam fork H20 to insert the Doka beams H20 into the Timber beam seats.



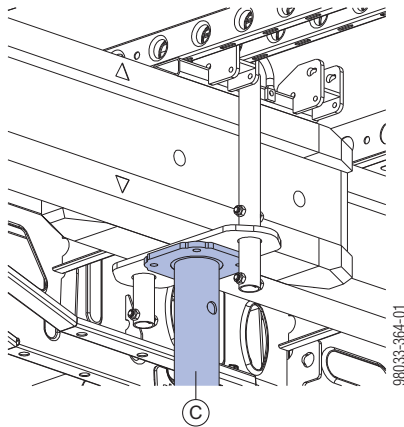
B Doka beam H20 (recommended length: 9'-6" (2.90m))

Installing the floor props



NOTICE

- ▶ The Doka beams H20, the Timber beam seat H20 and the Dokadek panel must be form-locked.
- ▶ The ends of the beams must be resting solidly on the Timber beam seats H20.
- ▶ Secure – with tripods – the standard-system floor props that have only 1 panel resting on the heads.
- ▶ Only extend the floor props until they encounter resistance from above. The panel must not be raised.
- ▶ Roughly adjust the height of the floor prop, using the fastening clamp.
- ▶ Fit the floor prop into the Timber beam seat H20, and adjust it.



C Doka floor prop Eurex 30 top

- ▶ After installing all the floor props, raise the Doka beams H20 by turning the adjusting nut on each prop.
- ▶ Do not install and extend the floor props until the reinforcement has been placed. This lessens the risk of panels being lifted out of the Dokadek heads.



Installing additional propping (at the slab edge)



For more information, see the 'Structure edge (Panel floor formwork Dokadek30)' User Information booklet.

Stripping the formwork



NOTICE

- Comply with the stipulated stripping times.
- Always strip out the formwork in reverse order.
- It is essential to follow the instructions given here and the instructions in the section headed 'Reshoring props, concrete technology and stripping out'.

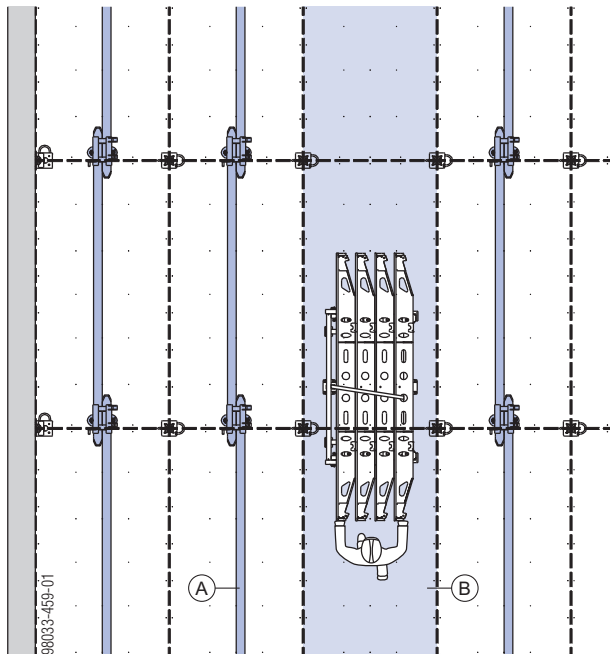
On slabs with thicknesses of between 1'-0" and 1'-7" (30 and 48 cm), early removal of all the extra shores from the typical zone is permitted even in cases where service loads and live loads are present. The resulting prop loads are of max. 8.5 kip 38 kN per prop, which is permissible for temporary reshores.

Minimum concrete strength required before the extra shores are removed: 1200 psi

Creating an access alley

To make it easier to transport the panels to their next usage location (e.g. with the DekDrive), it is permitted to remove 1 row of extra shores.

Minimum concrete strength required before the extra shores are removed: 1200 psi

Practical example**A** Extra shore**B** Access alley

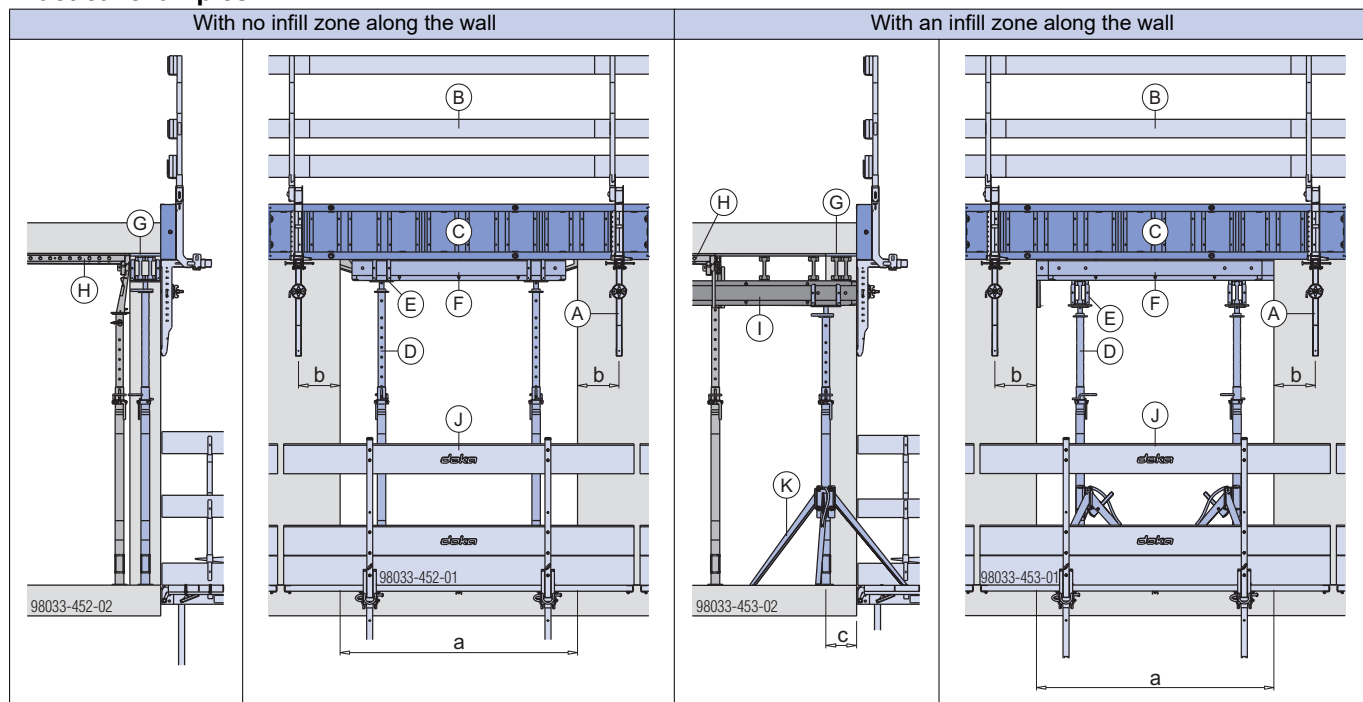
Forming past room-high openings in walls

Where necessary, the slab-forming operations can also incorporate room-high wall openings.



Follow the directions in the User Information booklet "Doka floor end-shutter clamp".

Practical examples



a ... see the 'Doka floor end-shutter clamp' User Information booklet

b ... min. 6" (15 cm)

c ... 10" (25 cm)

- A** Doka slab edge clamp
- B** Guardrail system
- C** Slab stop-end
- D** Doka floor prop Eurex 30 top
- E** Lowering head H20
- F** Doka beam H20 top
- G** Formwork sheet (nailed-on)
- H** Dokadek panel
- I** Infill zone
- J** Folding platform K or protection platform
- K** Removable folding tripod



- The Doka slab edge clamp can be secured to the wall by the Bridge edge beam anchor 15.0.
- Larger box-outs can be formed as described under the heading 'Floor-slab formwork at the structure edge'.

Using Doka floor props Eurex 20 550



WARNING

- In the typical and infill zones, and/or when mixing Dokadek and Dokaflex S, use only props that are all of the same type.

Note:

The table takes account of the props' higher load-bearing capacity when their extension-length is reduced; for this reason, it is only valid for the room heights and types of props specified.

Permissible slab thickness of the Doka floor prop Eurex 20 550 for room heights 11'-9" to 15'-0" (3.58 to 4.58 m):

- With Dokadek panels 4'-0"x8'-0" (1.22x2.44m): 1'-1" (32 cm)
- With Dokadek panels 2'-8"x8'-0" (0.81x2.44m): 1'-8" (50 cm)



WARNING

- It is forbidden to use the Doka floor prop Eco 20!



WARNING

- Additional measures, such as those described in the section headed 'Additional precautions for slab thicknesses of up to 1'-8" (50 cm)', are forbidden!

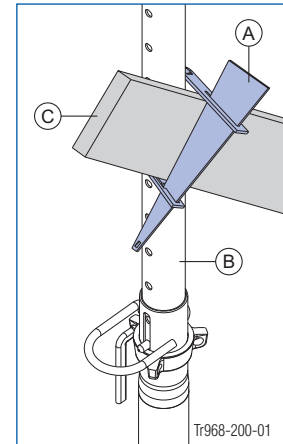
Bracing clamp B

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



NOTICE

- Only allowed to be used as a set-up aid.
- Not suitable for sustaining horizontal loads during pouring.
- Always hammer in the wedge from top to bottom!



A Bracing clamp B

B Doka floor prop Eurex 20

C Plank

Possible plank/floor-prop combinations with the Bracing clamp B

Eurex 20	Plank											
	1"x6" (2.4x15 cm)		1 1/8"x6" (3x15 cm)		1 5/8"x6" (4x15 cm)		2"x4" (5x10 cm)		2"x4 1/2" (5x12 cm)		2"x6" (5x15 cm)	
	IT	OT	IT	OT	IT	OT	IT	OT	IT	OT	IT	OT
550	✓	✓	✓	✓	✓	✓	✓	—	✓	—	✓	—

Legend:

IT	Inner tube
OT	Outer tube
✓	Possible to combine
—	Not possible to combine

General remarks

Combining with other Doka systems

Dokaflex S

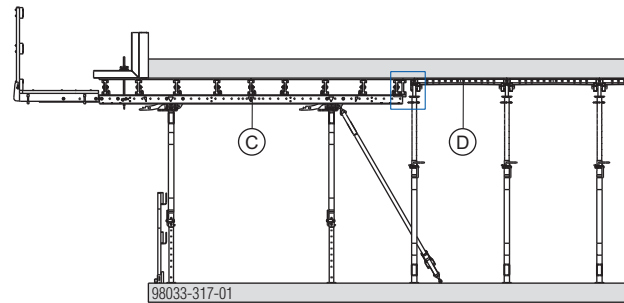
Dokaflex S is the fast and versatile floor-slab formwork for any layout - also for drop beams, stepped floors and filigree slabs. Because the quantities can easily be computed using a slide-rule, no detailed formwork planning work is needed. Any type of form-facing can be used, enabling all architectural wishes regarding the concrete surface to be met.



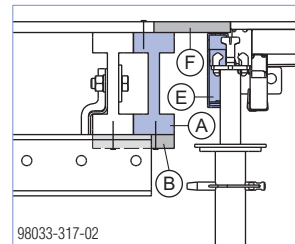
For more information, see the 'Dokaflex S' User Information booklet.

Dokamatic S table

The Doka tables are pre-assembled, and save on both labor and crane time. With the DoKart, the tables can easily be traveled to their next location by just one man working on his own. The system is optimized to give the very shortest forming times on large areas, and copes well with varying structural-design and geometrical requirements.



Close-up of extra beam:



- A Doka beam H20
- B Nailing plank (site-provided)
- C Dokamatic S table
- D Dokadek panel
- E Dokadek infill beam
- F Plywood infill



NOTICE

The beam (A) must be pre-installed!



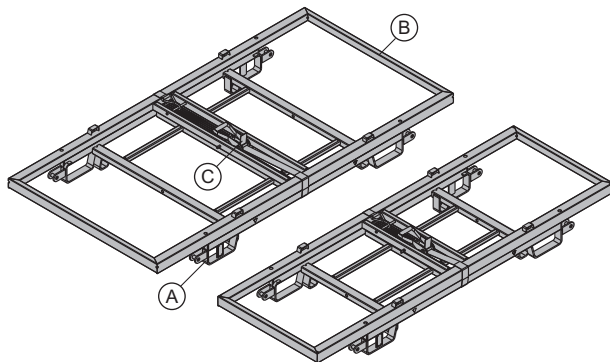
For more information, see the 'Dokamatic S table' User Information booklet.

Transporting, stacking and storing

Utilize the benefits of Doka multi-trip packaging on your worksite.

Our Multi-trip packaging such as transport boxes, stacking pallets, accessory boxes and skeleton transport boxes keep everything in place on the site.

Dokadek panel pallets



- A** Pallet
- B** Cover (captive)
- C** Lashing strap

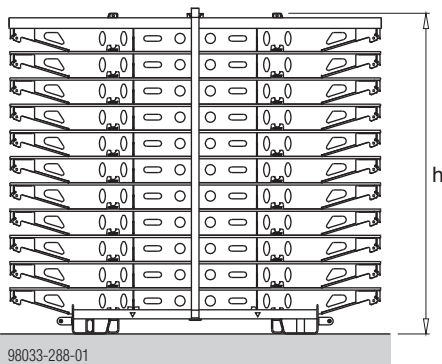
Storage and transport device for Dokadek panels:

- Dokadek panel pallet 4'-0"x8'-0" (1.22x2.44m) for Dokadek panels 4'-0"x8'-0" (1.22x2.44m)
- Dokadek panel pallet 2'-8"x8'-0" (0.81x2.44m) for Dokadek panels 2'-8"x8'-0" (0.81x2.44m)
- durable
- stackable



CAUTION

- Max. number of Dokadek panels: 11
Corresponds to a stack height 'h' (incl. panel pallet) of approx. 7'-1" (215 cm).
- It is forbidden to stack panels of different widths on the same pallet.

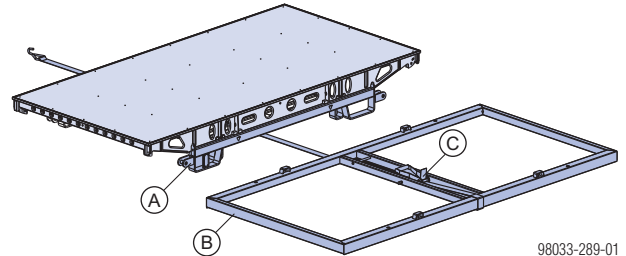


NOTICE

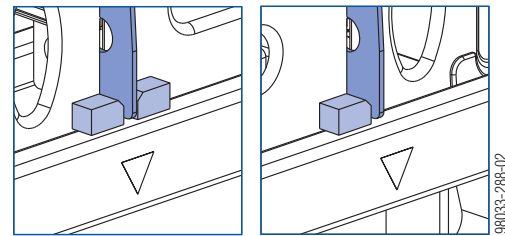
- The rating plate must be in place and clearly legible.
- Load the items centrally.

Stacking the panels

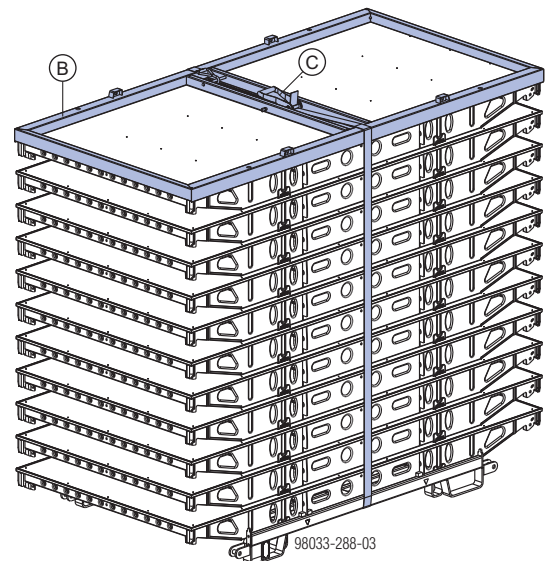
- Undo the lashing strap and remove the cover.
- Set down the 1st panel centered on the pallet.



Make sure it is in the correct position!



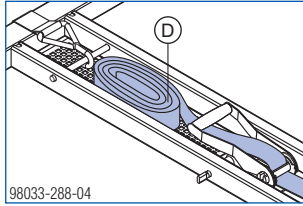
- Set down further panels, exactly over one another.
- Place the cover over the top panel and tighten the stack with the lashing strap.



Working off a commercially available platform ladder makes the lashing strap easier to operate.



Coil up the end of the lashing strap and put it in the storage tray (D) .



Dokadek panel pallet as a storage unit

Max. n° of boxes on top of one another

	Outdoors (on the site)	Indoors
N° of Dokadek panels in the pallet	Floor gradient up to 3%	Floor gradient up to 1%
≤ 6	1	3
> 6	1	2

Dokadek panel pallet as a transport device

Suitable transport appliances:

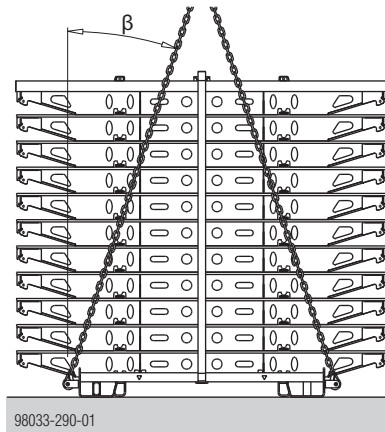
- crane
- forklift truck
- pallet stacking truck
- Attachable wheelset

Lifting by crane

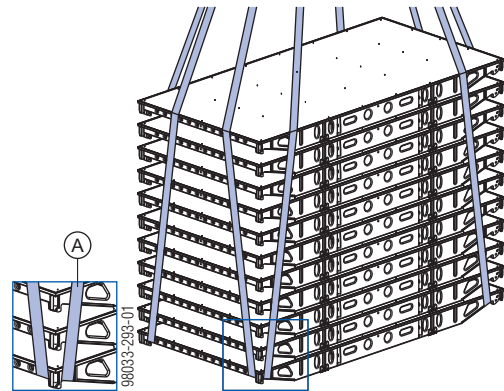


NOTICE

- Multi-trip packaging items may only be lifted one at a time.
- Secure the stack of panels with the cover and the lashing strap.
- Use a suitable lifting chain (do not exceed permitted load capacity).
- Spread-angle β max. 30°!



- Lifting the panels without a panel pallet is only allowed using 4 separate lifting slings, with a protective sleeve (A) over every corner.



Shifting with forklift or pallet stacking truck

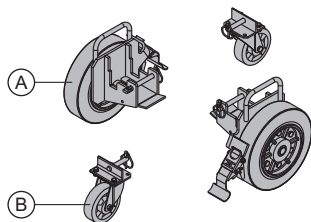


NOTICE

- Multi-trip packaging items may only be lifted one at a time.
- Load the items centrally.
- Secure the stack of panels with the cover and the lashing strap.

Shifting with Attachable wheelset

The 'Attachable wheelset' turns the panel pallet into a fast and maneuverable transport device.

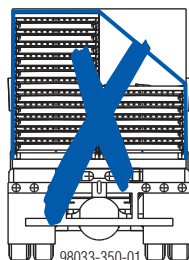


Correct loading of trucks

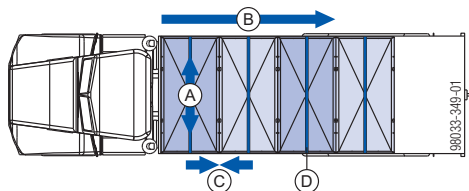


NOTICE

- Ideally, arrange the Dokadek panel pallets **at right-angles to the cargo floor. (A)**
If the stacks are not of the same height, then the panels **must always be arranged at right angles to the cargo floor.**



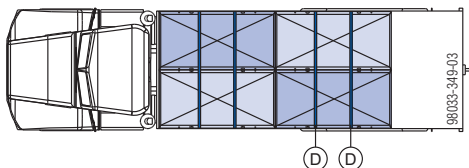
- Load the truck from front to back with Dokadek panel pallets. **(B)**
- Arrange the Dokadek panel pallets so that they are positively locked. **(C)**
- Secure every Dokadek panel pallet with a lashing strap. **(D)**



Animation:

<https://player.vimeo.com/video/256036570>

- If the pallets have to be loaded lengthways to the cargo floor, secure each pair of Dokadek panel pallets with 2 lashing straps. **(D)**



Animation:

<https://player.vimeo.com/video/256029891>

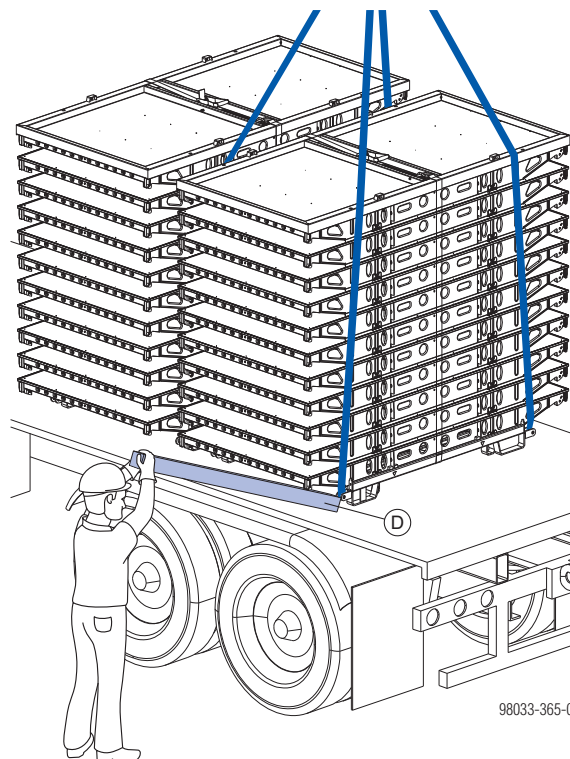


With closely stacked bundles of panels:

- ▶ lever-up the bundle of panels (e.g. with a squared timber **(D)**), to make a space for threading in the slings.

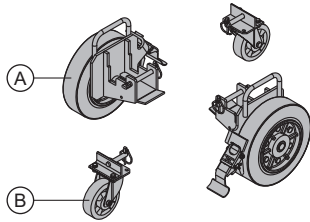
Caution!

When doing this, always make sure that the bundle of panels remains stable!



Attachable wheelset

Product description



A 2 heavy-duty wheels

B 2 swivel casters

The Attachable wheelset turns the panel pallet into a fast and maneuverable transport device.

Suitable for drive-through access openings > 4'-11" (150 cm).



NOTICE

- When the panel pallet is parked or is being shifted by crane or forklift, always apply the fixing brake.
- When setting down a panel pallet with loosely stacked panels, secure these against wind liftout (e.g. by strapping them together).

Traveling



NOTICE

- Max. gradient of floor 3%.
- Max. travel speed: 2.5 mph (4 km/h) (walking pace)
- Either bridge any floor openings with sufficiently strong planking/boards secured so that they cannot slip away to either side, or close off these openings with sufficiently strong side railings!
- Keep the travel route clean and free of any obstacles.
- It is forbidden to use any other mechanical assistance for the traveling operation!
- It is forbidden to wheel panel pallets that have been stacked on top of one another!
- Where necessary, secure loosely stacked panels so that they cannot slip.

Lifting by crane

The Attachable wheelset can stay secured to the Dokadek panel pallet while it is being lifted.



NOTICE

- Secure the stack of panels with the cover and the lashing strap.

► Before attaching the lifting chain, check that:

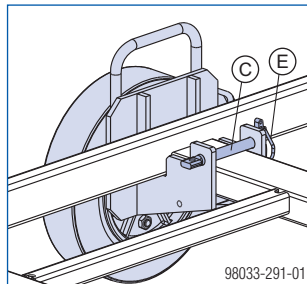


- the fixing brake is applied.
- lynch pins have been fitted to the fastening bolts of the heavy-duty wheels and the swivel casters.

Assembly

Heavy-duty wheel

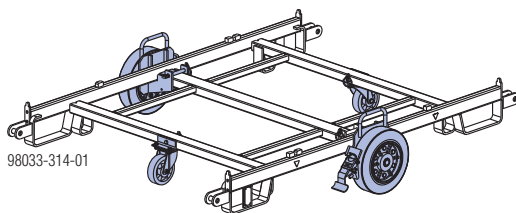
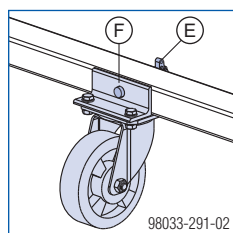
- Apply the fixing brake on the heavy-duty wheel.
- Working from below, push the heavy-duty wheel onto the longitudinal profile of the panel pallet and secure it in place with a fastening bolt and linch pin.



If necessary, the braking force can be adjusted with the setting screw (w/f 24).

Swivel caster

- Working from the outside, push the wheel-pin of the swivel caster into the hole in the cross profile, and secure it with a linch pin.



A Heavy-duty wheel

B Swivel caster

C Fastening bolt

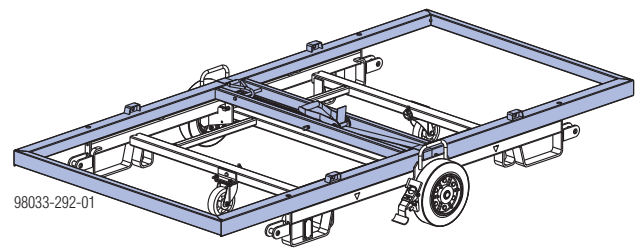
E Linch pin

F Wheel-pin

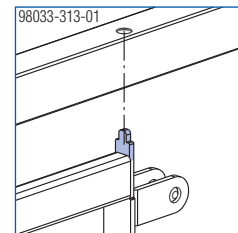
Animation: <https://player.vimeo.com/video/262156196>

Variant 1: Panels stacked loosely

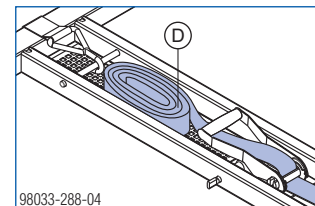
- Place the cover on the panel pallet and tighten it with the lashing strap.



Make sure it is in the correct position!



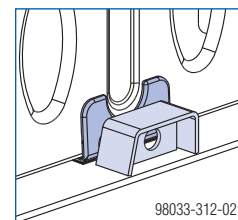
Coil up the end of the lashing strap and put it in the storage tray (**D**).



- Set down the 1st panel centered on the cover.



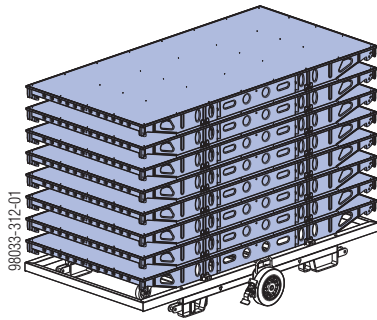
Make sure it is in the correct position!





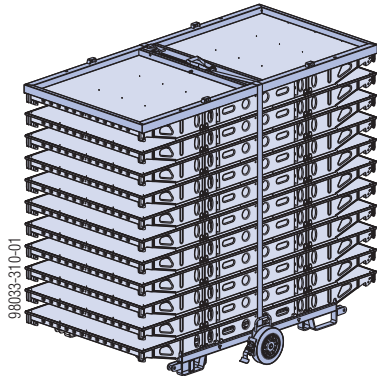
- ▶ Max. number of loose Dokadek panels:
8 pcs.

- ▶ Set down further panels, exactly over one another.

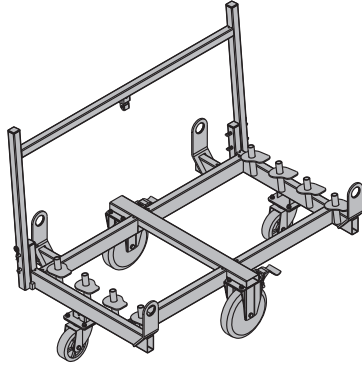


Variant 2: Panels secured and stacked with the cover and the lashing strap

- ▶ See the section headed 'Dokadek panel pallets'

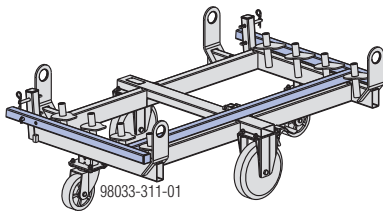


DekDrive



Transport device for Dokadek panels

- durable
- stackable
- Suitable for drive-through access openings > 2'-11" (90 cm).
- state in which delivered and transported: railing folded down



Max. number of Dokadek panels: 4 pcs.

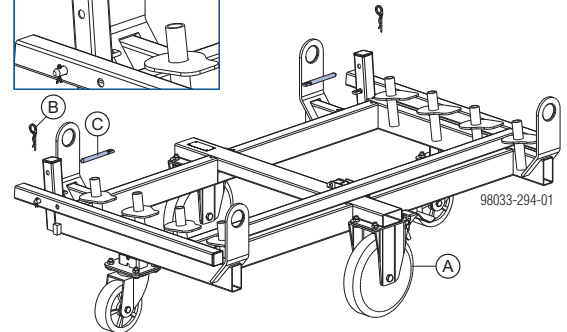
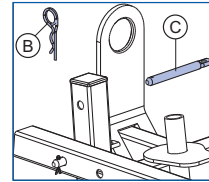


NOTICE

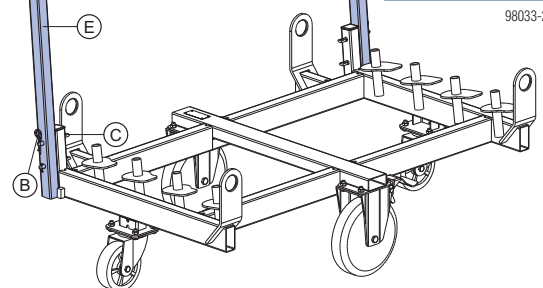
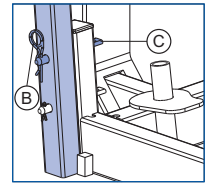
- The rating plate must be in place and clearly legible.
- Load the items centrally.
- It is allowed to stack panels of different widths.
- Not suitable for use as a storage unit.
- When the DekDrive is parked or is being crane-lifted, always apply the fixing brake.
- Always secure the panels with webbing.

Loading the DekDrive

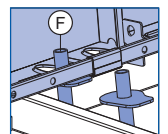
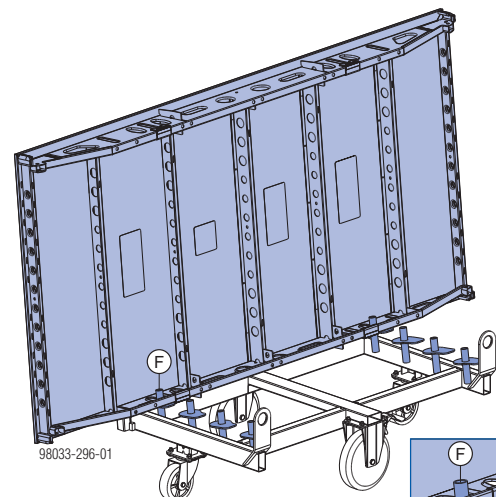
- Apply the fixing brake on the heavy-duty wheel.
- Remove the top spring cotters and self-locking pins, at both ends of the DekDrive.



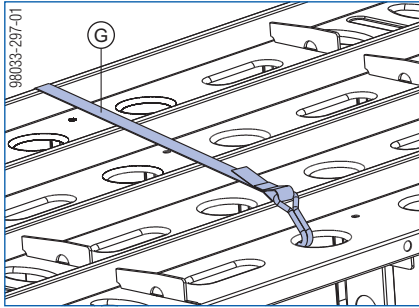
- Tilt up the railing and secure it at both ends with self-locking pins and spring cotters.



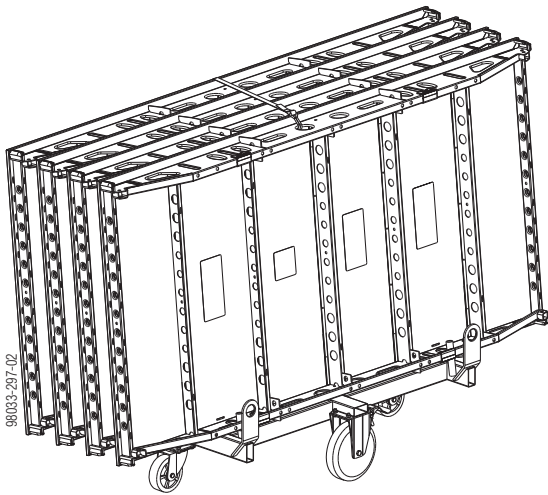
- Starting from the side nearest the railing, push the Dokadek panels centrally onto the holding pins (with the formwork sheeting facing towards the railing).



- Secure the panels with webbing. Engage the hook in one of the openings in the longitudinal profile of the front (i.e. outermost) panel, and tighten the webbing.



- A Heavy-duty wheel
- B Spring cotter
- C Self-locking pin
- E Guard rail
- F Holding pin
- G Webbing



Animation: <https://player.vimeo.com/video/262155511>

Traveling



NOTICE

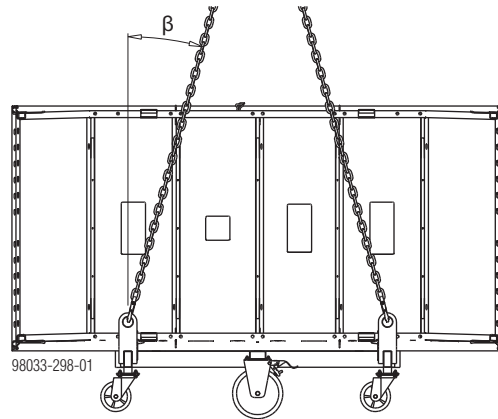
- Max. gradient of floor 3%.
- Max. travel speed: 2.5 mph (4 km/h) (walking pace)
- Either bridge any floor openings with sufficiently strong planking/boards secured so that they cannot slip away to either side, or close off these openings with sufficiently strong side railings!
- Keep the travel route clean and free of any obstacles.
- It is forbidden to use any other mechanical assistance for the traveling operation!

Lifting by crane



NOTICE

- Use a suitable lifting chain (do not exceed permitted load capacity), e.g. Doka 4-part chain 3.20m.
- Lift only one DekDrive at a time.
- Spread-angle β max. 30°!



- Before attaching the lifting chain, check that:



- the fixing brake is applied.

Alternative transport options

With timber trolley

A standard timber trolley provides a safe and easy way of moving Dokadek panels without any great physical effort.

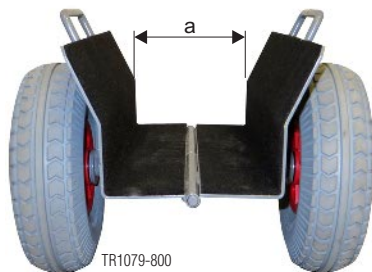
Features:

- Clamping jaws
- Clamping sides, felt-padded on inside
- The weight of the material being transported securely closes the clamping mechanism

Designation: M-Timber trolley 170mm-CT

Weight: 15.4 lbs (7.0 kg)

Dimensions (L x W (with wheels) x H):
1'-3" x 1' x 1'-2" (39 x 31 x 35 cm)



a ... 6 1/2" (17 cm)

Max. load: 661 lbs. (300 kg)

State during transport



A M-Timber trolley 170 mm-CT

Loading

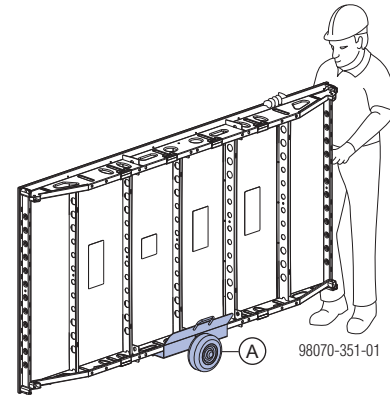
- Position the Timber trolley beside the Dokadek panel, midway along the panel.



A M-Timber trolley 170 mm-CT

B Dokadek panel

- Lift one end of the Dokadek panel, lower the panel centered on to the Timber trolley and wheel it to the desired location.

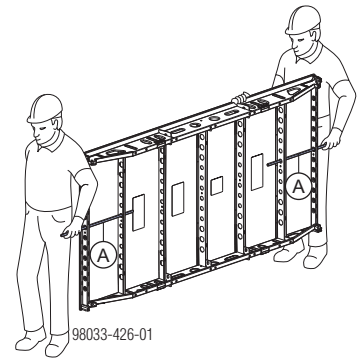


A M-Timber trolley 170 mm-CT

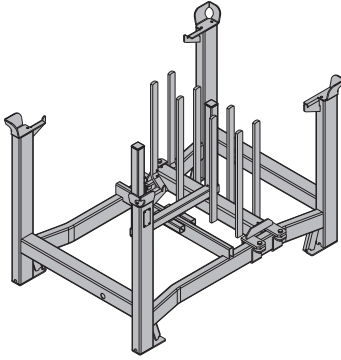
Manual transport



With the aid of 2 tie rods (each min. 3'-3" (1,00 m) long) **(A)**, Dokadek panels can also be transported easily by hand.



Dokadek infill beam pallet



Storage and transport device for Dokadek infill beams:

- durable
- stackable
- Infill beams 8'-0" (2.44m) and 4'-0" (1.22m) are supplied ex-works in the Dokadek infill-beam pallet, while Infill beams 2'-8" (0.81m) are supplied in the Doka multi-trip transport box 1.20x0.80m.

Max. number of Dokadek infill beams: 44

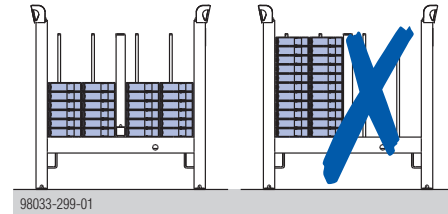
Max. load: 1764 lbs. (800 kg)

Permitted imposed load: 13009 lbs. (5900 kg)

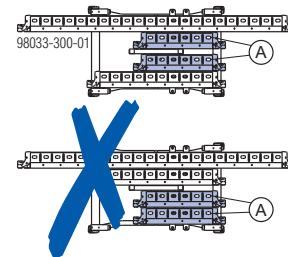


NOTICE

- Load Infill beams 8'-0" (2.44m) and 4'-0" (1.22m) centered on the pallet, so that they are braced against the uprights of the pallet.
- Multi-trip packaging items that each contain very different loads must be stacked with the heaviest ones at the bottom and the lightest ones at the top!
- Always stack in complete layers.



- It is permitted to stack infill beams of different lengths on the same pallet.
 - When the pallets are transported by truck, Infill beams 2'-8" (0.81m) **(A)** must be stacked on the inside.



- Before the infill beams are transported by lorry, they must be firmly connected to the pallet, e.g. by bundling with steel strapping.
- The rating plate must be in place and clearly legible.

Using the Dokadek infill-beam pallet as a storage unit

Max. n° of boxes on top of one another

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

Note:

Use with Bolt-on caster set B:

Always apply the parking brake when the container is 'parked'.

When Doka stacking pallets are stacked, the bottom pallet must NOT be one with a bolt-on caster set mounted to it.

Shifting boxes with the forklift or pallet stacking truck



NOTICE

- Load the items centrically.

Using the Dokadek infill-beam pallet as a transport device

Suitable transport appliances:

- crane
- forklift truck
- pallet stacking truck
- Bolt-on caster set B



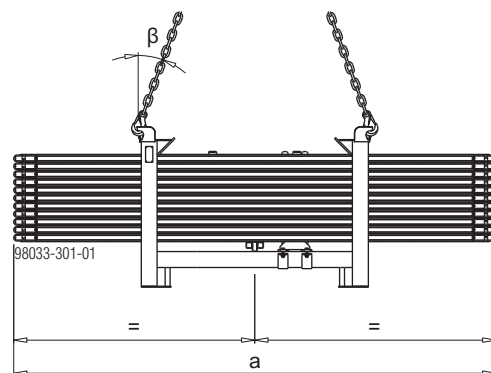
Follow the directions in the 'Bolt-on castor set B' Operating Instructions!

Lifting by crane



NOTICE

- Multi-trip packaging items may only be lifted one at a time.
- Use a suitable lifting chain (e.g. Doka 4-part chain 3.20m).
Do not exceed permitted load capacity.
- Load the items centrically.
- When lifting stacking pallets to which Bolt-on castor sets B have been attached, you must also follow the directions in the relevant Operating Instructions!
- Spread-angle β max. 30°!



a ... 8'-0" (244 cm) or 4'-0" (122 cm)

Transporting Bracing frames Eurex



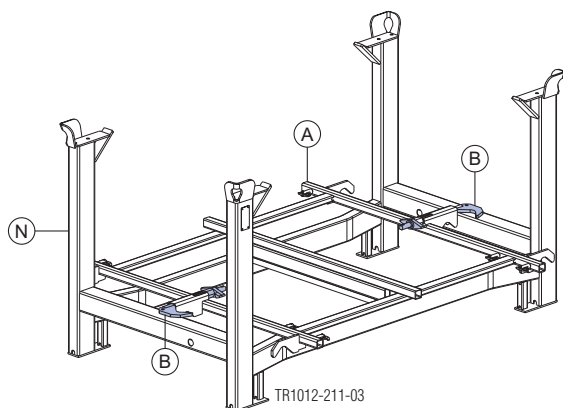
NOTICE

It is not allowed to mix different sizes of bracing frames!

Loading the pallet

e.g. Bracing frame Eurex 4'-0" (1.22m)

- Turn the prop-holders (= the quick-fixing mechanisms) by 90°, secure them and place the frame into the Doka stacking pallet (see Close-up C).

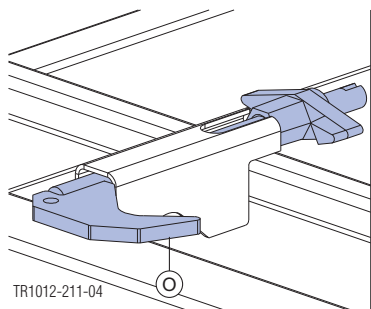


A Bracing frame Eurex

N Doka stacking pallet 1.55x0.85m

O Prop-holder (= quick-fixing mechanism)

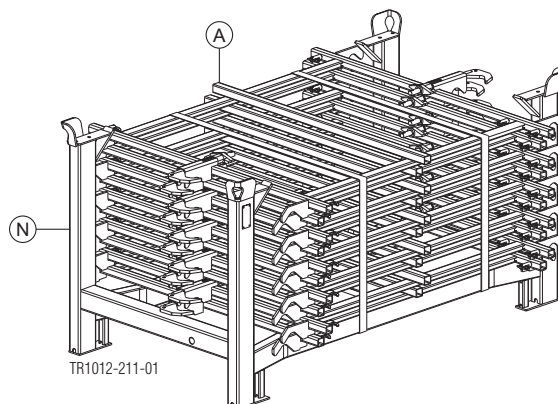
Close-up C



O Prop-holder (= quick-fixing mechanism)

- Stack the other bracing frames alternate way around (as shown in Close-up D).

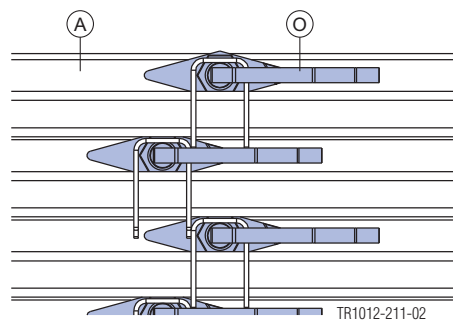
- Fasten the load to the stacking pallet so that it cannot slide or tip out.



A Bracing frame Eurex

N Doka stacking pallet 1.55x0.85m

Close-up D



O Prop-holder (= quick-fixing mechanism)

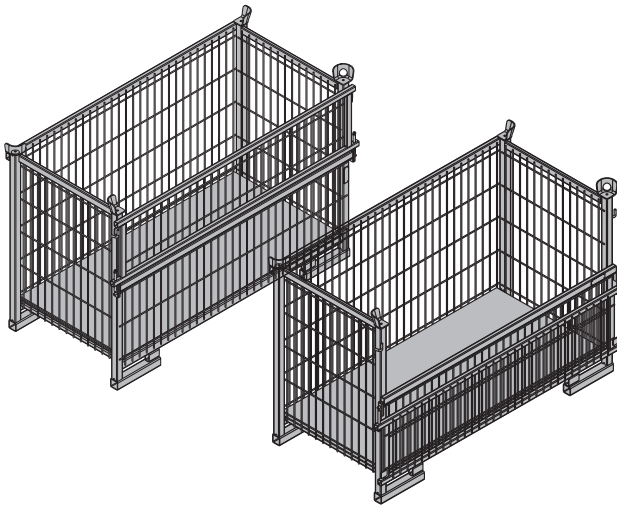
Load quantities

Bracing frame Eurex	Doka stacking pallet	Units
4'-0" (1.22m)	1.55x0.85m	10
2'-8" (0.81m)	1.20x0.80m	



Follow the directions in the 'Bolt-on castor set B' Operating Instructions!

Doka skeleton transport box 1.70x0.80m



Storage and transport devices for small items:

- durable
- stackable

Suitable transport appliances:

- crane
- pallet stacking truck
- forklift truck

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

Max. load: 700 kg (1540 lbs)
Permitted imposed load: 3150 kg (6950 lbs)



NOTICE

- Multi-trip packaging items that each contain very different loads must be stacked with the heaviest ones at the bottom and the lightest ones at the top!
- The rating plate must be in place and clearly legible.

Using Doka skeleton transport boxes 1.70x0.80m as storage units

Max. n° of boxes on top of one another

Outdoors (on the site) Floor gradient up to 3%	Indoors Floor gradient up to 1%
2	5
It is not allowed to stack empty pallets on top of one another!	

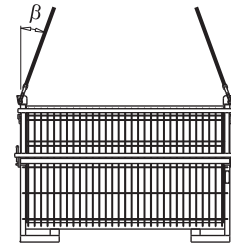
Using Doka skeleton transport boxes 1.70x0.80m as transport devices

Lifting by crane



NOTICE

- Multi-trip packaging items may only be lifted one at a time.
- Only lift the boxes when their sidewalls are closed!
- Use a suitable lifting chain (e.g. Doka 4-part chain 3.20m). Do not exceed permitted load capacity.
- Spread-angle β max. 30°!

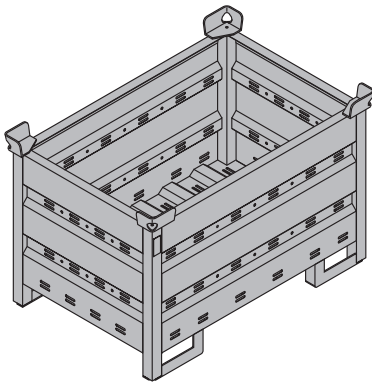


9234-203-01

Shifting boxes with the forklift or pallet stacking truck

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

Doka multi-trip transport box 1.20x0.80m



Storage and transport devices for small items:

- durable
- stackable

Suitable transport appliances:

- crane
- pallet stacking truck
- forklift truck

Max. load: 1500 kg (3300 lbs)

Permitted imposed load: 7850 kg (17305 lbs)

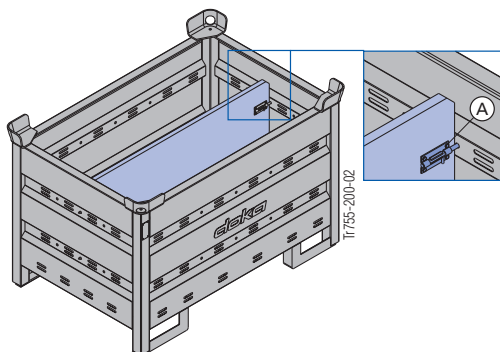


NOTICE

- Multi-trip packaging items that each contain very different loads must be stacked with the heaviest ones at the bottom and the lightest ones at the top!
- The rating plate must be in place and clearly legible.

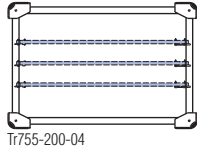
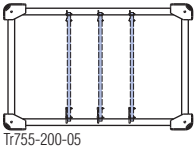
Multi-trip transport box partition

Different items in the 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	Lengthways	Crossways
1.20m	max. 3 partitions	-
0.80m	-	max. 3 partitions
		

Using Doka multi-trip transport boxes as storage units

Max. n° of boxes on top of one another

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

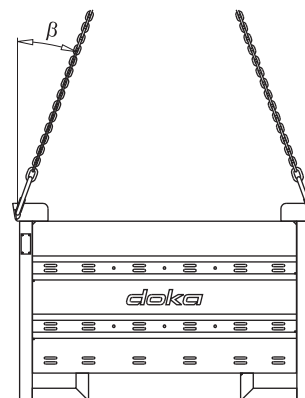
Using Doka multi-trip transport boxes as transport devices

Lifting by crane



NOTICE

- Multi-trip packaging items may only be lifted one at a time.
- Use a suitable lifting chain (e.g. Doka 4-part chain 3.20m). Do not exceed permitted load capacity.
- Spread-angle β max. 30°!

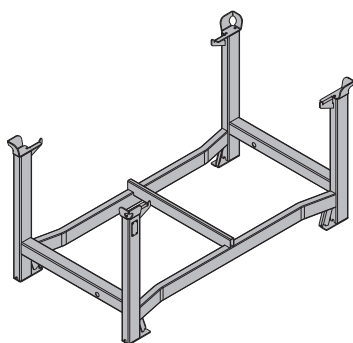


9206-202-01

Shifting boxes with the forklift 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 devices for long items:

- durable
- stackable

Suitable transport appliances:

- crane
- pallet stacking truck
- forklift truck

Max. load: 1100 kg (2420 lbs)

Permitted imposed load: 5900 kg (12980 lbs)



NOTICE

- Multi-trip packaging items that each contain very different loads must be stacked with the heaviest ones at the bottom and the lightest ones at the top!
- The rating plate must be in place and clearly legible.

Using Doka stacking pallets as storage units

Max. n° of boxes on top of one another

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

Note:

Use with Bolt-on caster set B:

Always apply the parking brake when the container is 'parked'.

When Doka stacking pallets are stacked, the bottom pallet must NOT be one with a bolt-on caster set mounted to it.

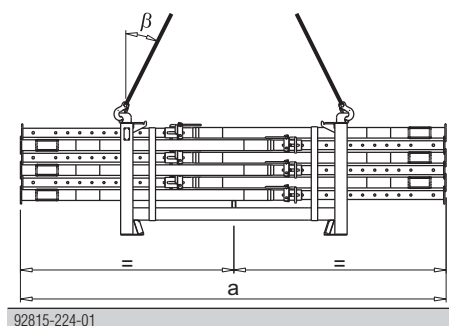
Using Doka stacking pallets as transport devices

Lifting by crane



NOTICE

- Multi-trip packaging items may only be lifted one at a time.
- Use a suitable lifting chain (e.g. Doka 4-part chain 3.20m). Do not exceed permitted load capacity.
- Load the items centrically.
- Fasten the load to the stacking pallet so that it cannot slide or tip out.
- When lifting stacking pallets to which Bolt-on caster sets B have been attached, you must also follow the directions in these Operating Instructions!
- Spread-angle β max. 30°!



	a
Doka stacking pallet 1.55x0.85m	max. 14'-9" (4.5 m)
Doka stacking pallet 1.20x0.80m	max. 9'-10" (3.0 m)

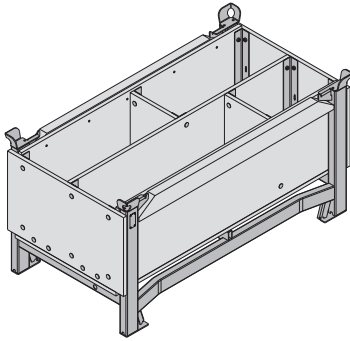
Shifting boxes with the forklift or pallet stacking truck



NOTICE

- Load the items centrically.
- Fasten the load to the stacking pallet so that it cannot slide or tip out.

Doka accessory box



Storage and transport devices for small items:

- durable
- stackable

Suitable transport appliances:

- crane
- pallet stacking truck
- forklift truck

All connectors and anchoring components can be stored neatly in this box and the boxes can be stacked.

Max. load-bearing capacity: 1000 kg (2200 lbs)

Permitted imposed load: 5530 kg (12191 lbs)



NOTICE

- Multi-trip packaging items that each contain very different loads must be stacked with the heaviest ones at the bottom and the lightest ones at the top!
- The rating plate must be in place and clearly legible.

Using Doka accessory boxes as storage units

Max. n° of boxes on top of one another

Outdoors (on the site) Floor gradient up to 3%	Indoors Floor gradient up to 1%
3	6
Do not stack empty pallets on top of one another!	

Note:

Use with Bolt-on caster set B:

Always apply the parking brake when the container is 'parked'.

When Doka stacking pallets are stacked, the bottom pallet must NOT be one with a bolt-on caster set mounted to it.

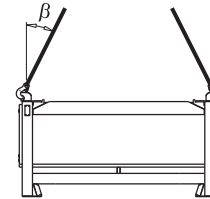
Using Doka accessory boxes as transport devices

Lifting by crane



NOTICE

- Multi-trip packaging items may only be lifted one at a time.
- Use a suitable lifting chain (e.g. Doka 4-part chain 3.20m). Do not exceed permitted load capacity.
- Spread-angle β max. 30°!



92816-206-01

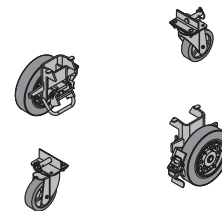
Shifting boxes with the forklift or pallet stacking truck

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

Bolt-on caster set B

The Bolt-on caster set B turns the stacking pallet into a fast and maneuverable transport trolley.

Suitable for drive-through access openings > 90 cm.



The Bolt-on caster set B can be installed on the following multi-trip packaging items:

- Dokadek infill beam pallet
- Doka accessory box
- Doka stacking pallets



Follow the directions in the Operating Instructions!

Cleaning and care of your equipment

The **special coating on the Xlife sheet** greatly reduces the amount of cleaning that is needed.



WARNING

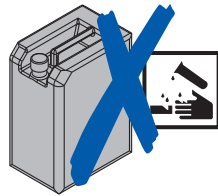
► Risk of slipping when surface is wet!

Cleaning



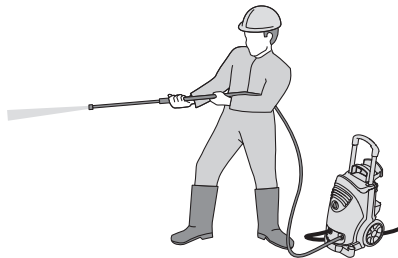
NOTICE

- Immediately after pouring:
 - Remove any blobs of concrete from the back-face of the formwork, using water (without any added sand).
- Immediately after stripping the formwork
 - Clean the formwork with a high-pressure washer and a concrete scraper.
- Do not use any chemical cleaning agents!



Cleaning equipment

High-pressure washer

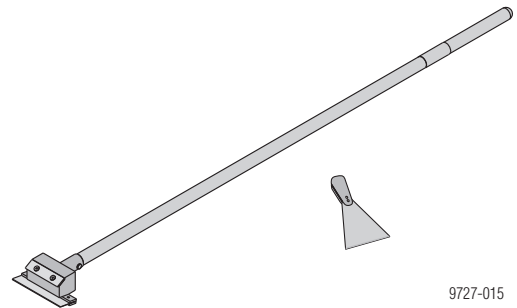


NOTICE

- Appliance pressure rating: 2900 - 4300 psi (200 - 300 bar)
- Keep the water-jet the correct distance from the formwork, and move it at the right speed:
 - The higher the pressure, the further away from the formwork you must keep the jet and the faster you must move it across the surface.
- Do not aim the jet at one place for too long.
- Make only moderate use of the jet around the silicone sealing strip:
 - If the pressure is too high, this will damage the silicone sealing strip.
 - Do not aim the jet at one place for too long.

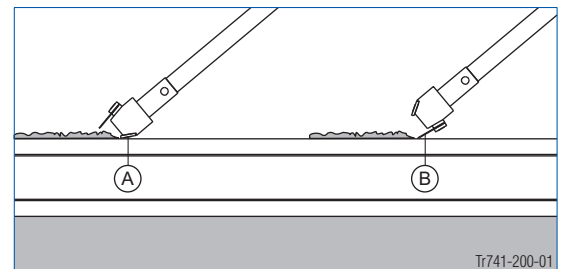
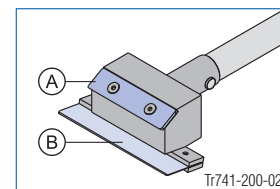
Concrete scraper

For removing concrete remnants, we recommend using a **Double scraper Xlife** and a paint scraper.



9727-015

Functional description:

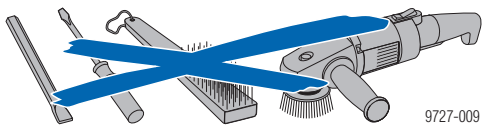


A Blade for dealing with heavy soiling

B Blade for dealing with slight soiling

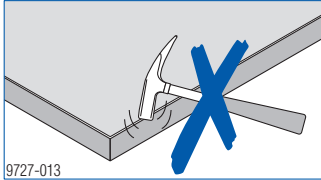
**NOTICE**

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

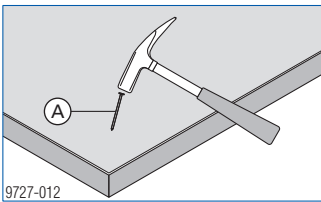


Care

- Never strike the frame profiles with a hammer



- Do not use nails longer than 2 1/4" (60 mm) on the formwork.



A max. l=2 1/4" (60 mm)

- Do not throw panels down or allow them to drop.
- Do not use the panels as a climbing aid.



Shoring system, reshoring, concrete technology and stripping

What is a shoring system?

In multilevel cast-in-place building construction, freshly cast floors are supported by a system of formwork, shoring and reshores that distribute the weight of the concrete floor, reinforcement, formwork, shoring, reshores and construction live loads into the previously cast floors.

Once the newly cast floor has attained sufficient strength to support itself, the forming system, shores and reshores are cycled in such a manner as to avoid overstressing of the previously cast slabs.

The method of shoring and reshoring of slabs is critical to prevent the possibility of partial or total failure of the structure due to construction overloads. Improper reshoring or premature removal of the supports and inadequate lateral bracing causes most horizontal formwork systems failures.

It is imperative that a proper engineering analysis that considers both the construction load distribution and early age load carrying capacity of the floor-slab is performed before the shoring and reshoring operation begins.

Why put up reshoring props after stripping the formwork?

Depending on the construction sequence, reshoring props may be needed to carry **live loads** on the new floor-slab, and/or **concreting-loads** from the next floor to be poured.

Reshoring props have the job of spreading loads between the freshly cast slab and the floor beneath it. This load distribution will depend on the stiffness of the shoring/reshoring system, flexural stiffness of the slab and the rate of construction.

A compressible shore/reshoring system tends to shift more slab loads to the uppermost floors as compared to more rigid shore/reshores. An example is a comparison between wood and steel shoring and reshoring props with the wood being more compressible than steel.

The increase in slab stiffness, as a result of concrete strength gain during construction does not significantly affect the load distribution between slabs. An increase in the slab stiffness due to beams, drop panels and changes in slab thickness in a slab will result in a higher resistance to construction loads because of stiffer members within the slab.

Early age concrete strength gain does have a significant effect on the slab's resistance to cracking and deflection.

What guidelines can be used for shoring and reshoring?

The American Concrete Institute, Committee 347 has issued two references that provide basic guidelines for general formwork operations.

The first is ACI 347R-14 'Guide to Formwork for Concrete' and the second is ACI 347.2R-17 'Guide for Shoring/Reshoring of Concrete Multistory Buildings'.

Both of these guides describe methods to evaluate the effects of the shoring and reshoring operation that can be used by the engineer/architect to determine the structural behavior of the building during construction.

The contractor, formwork designer and engineer/architect should collaborate to develop a rational shoring/reshoring design that is economical, functional and safe.

Positioning the reshoring props correctly

Reshoring props have the job of spreading loads between the new floor-slab and the floor beneath it. This load distribution will depend on the relationship between the rigidity of these two floor-slabs.

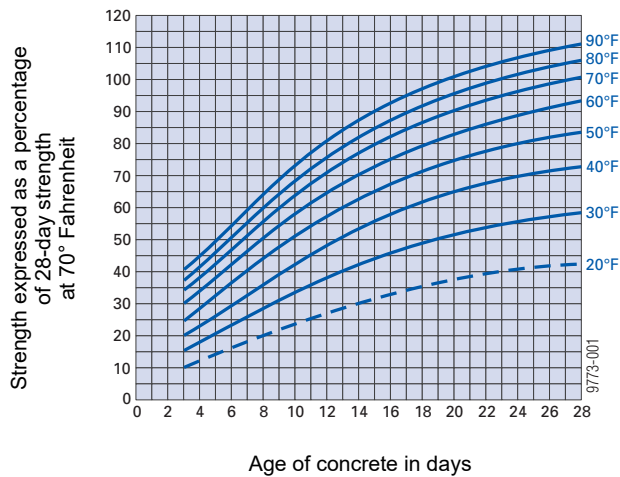


NOTICE

Ask the expert

As a rule, the question of using reshoring props should be referred to the responsible experts, regardless of the information given above.

Strength development in the new concrete



Effect of temperature of curing upon compressive strength of Type I, II and IV concrete. (The temperatures given are the mean temperatures encountered during the period of curing).

Deflection of the new concrete

The modulus of elasticity of the concrete develops more quickly than its compressive strength. At a compressive strength f_{ck} of about 60 %, the concrete's modulus of elasticity $E_{c(28)}$ has reached approximately 90 %.

The increase in the elastic deformation taking place in the new concrete is thus only negligible.

The creep deformation, which only finally ceases after several years, is several times more than the elastic deformation.

Early stripping – e.g. after 3 days instead of 28 – thus only leads to an increase in the total deformation of less than 5 %.

The part of this deformation accounted for by creep deformation, however, may be anything between 50 % and 100 % of the standard value, due to such variable influences as the strength of the aggregates, and the atmospheric humidity. This means that the total deflection of the floor-slab is practically independent of the time at which the formwork was struck.

Cracks in new concrete

The bonding strength between the reinforcement steel and the concrete develops more rapidly in the new concrete than does its compressive strength. This means that early stripping does not have any negative influence upon the size and distribution of cracks on the tension side of reinforced concrete constructions.

Other cracking phenomena can be countered effectively by appropriate curing methods.

Curing of new concrete

New site-placed concrete is exposed to influences which may cause cracking and slow down its strength development:

- premature drying
- over-rapid cooling in the first few days
- excessively low temperatures or frost
- mechanical damage to the surface of the concrete
- etc.

The simplest precaution is to leave the formwork on the concrete surface for longer. As well as the familiar extra curing measures, this measure should be carried out in any case.

Taking load off formwork for wide-spanned floor-slabs with support centers over 24'-7" (7.5 m)

In the case of thin, wide-spanned concrete floor-slabs (e.g. in multistory car parks), the following points must be taken into consideration:

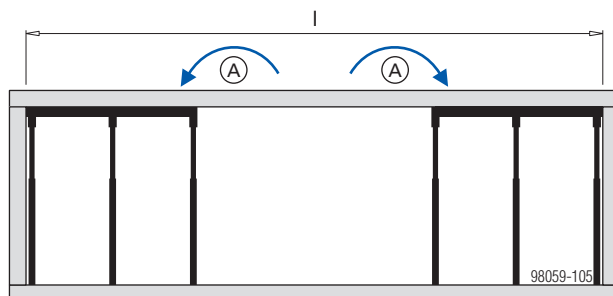
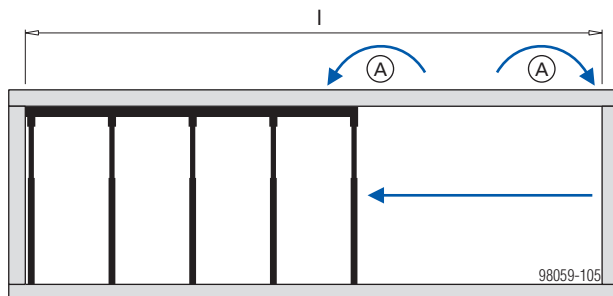
- When the load is taken off the floor props, the floor props that are still in place are briefly subjected to additional loads. This may lead to overloading, and to the floor props being damaged.
- Consult your Doka technician.



NOTICE

The basic rule is:

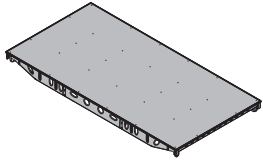
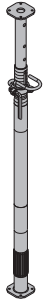
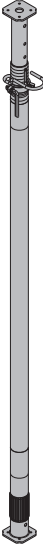
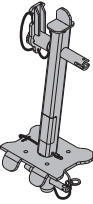
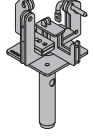
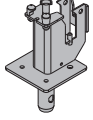
- Stress-release should **always be carried out working from one side towards the other, or from the middle of the floor-slab (mid-span) towards the slab edges**. It is imperative to adopt this procedure for wide spans!
- **Do not under any circumstances attempt stress release from both sides toward the middle!**

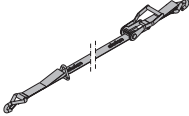
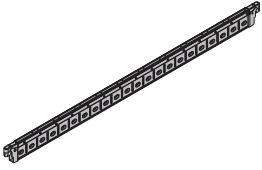
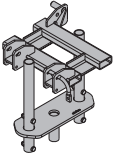
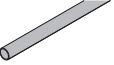
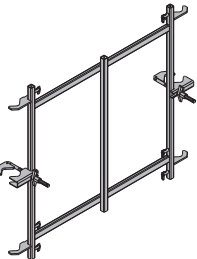
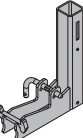
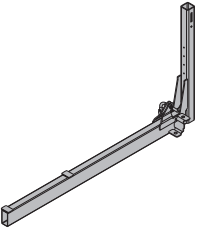
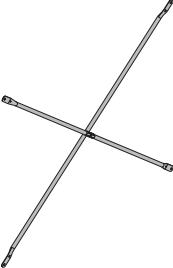
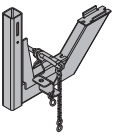


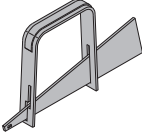
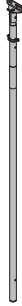
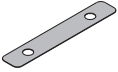
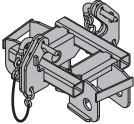
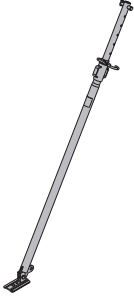
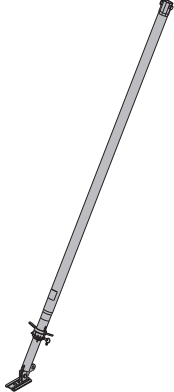
l ... Effective floor-slab spans of 24'-7" (7.50 m) and over

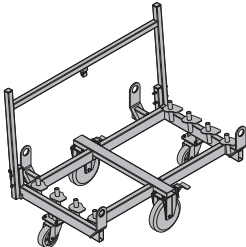
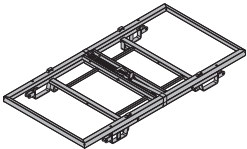
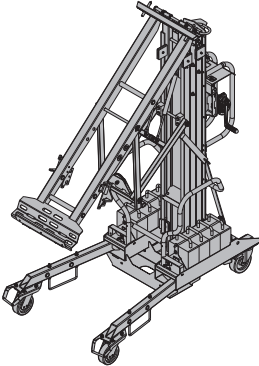
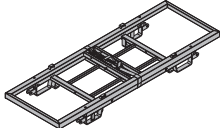
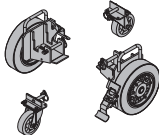
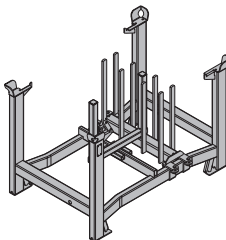
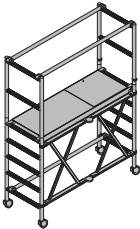
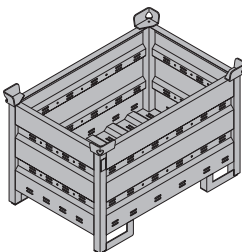
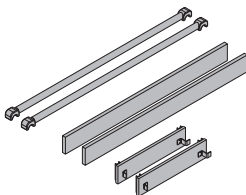
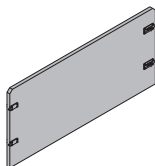
A Load redistribution

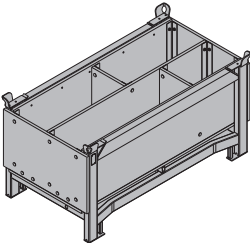
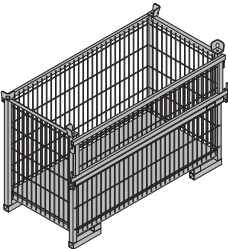
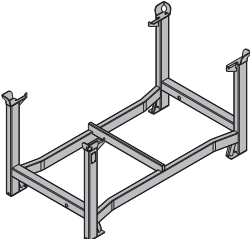
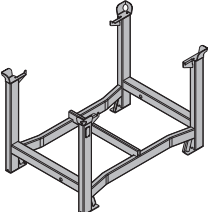
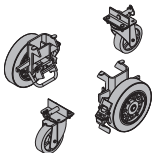
This image shows a full page of blank graph paper. The grid consists of small, uniform squares formed by thin, light blue lines. There are no margins, text, or other markings on the page.

	[lbs]	Article #		[lbs]	Article #
Dokadek panel 4'-0"x8'-0" Dokadek panel 2'-8"x8'-0" Dokadek-Element	110.0 88.4	586501000 586502000	 Galvanized Painted yellow	9.9	183063000
Doka floor prop Eurex 30 top 250 Length: 4'-10" - 8'-2" (148 - 250 cm)	28.2	586092400	 Galvanized	5.3	586506000
Doka floor prop Eurex 30 top 300 Length: 5'-8" - 9'-10" (173 - 300 cm)	36.2	586093400			
Doka floor prop Eurex 30 top 350 Length: 6'-6" - 11'-6" (198 - 350 cm)	45.6	586094400			
Doka floor prop Eurex 30 top 400 Length: 7'-4" - 13'-1" (223 - 400 cm)	54.2	586095400			
Doka floor prop Eurex 30 top 450 Length: 8'-2" - 14'-9" (248 - 450 cm)	64.2	586119400			
Doka floor prop Eurex 20 top 550 Doka-Deckenstütze Eurex 20 top 550	71.2	586090400	 Galvanized Length: 9'-9" - 18'-1" (298 - 550 cm)	12.3	586539000
			 Galvanized Height: 1'-9" (54 cm)	9.5	586536000
			 Galvanized Height: 1'-10" (56 cm)	8.8	586544000
			 Galvanized Height: 1'-2" (36 cm)	5.7	586543000
			 Galvanized Height: 1'-1" (32 cm)	0.55	582528000
Removable folding tripod top Stützbein top	26.5	586155500	 Galvanized Height: 2'-7" (80 cm) Delivery condition: folded closed		
			 Galvanized Length: 6" (15 cm)		

	[lbs]	Article #		[lbs]	Article #
Dokadek infill beam 8'-0" 3/4" Dokadek infill beam 4'-0" 3/4" Dokadek infill beam 2'-8" 3/4" Dokadek-Ausgleichsträger	37.3 19.2 13.2	586509000 586510000 586511000	Lashing strap 5.00m Zurrgurt 5,00m  Yellow	6.2	586018000
 Galvanized			Doka express anchor 16x125mm Doka-Expressanker 16x125mm  Galvanized Length: 7" (18 cm) Follow fitting instructions!	0.68	588631000
Dokadek suspension clamp H20 Dokadek-Einhängbügel H20  Galvanized Width: 6" (15 cm) Height: 1'-2" (35 cm)	3.5	586518000	Doka coil 16mm Doka-Coil 16mm  Galvanized Diameter: 5/8" (1,6 cm)	0.02	588633000
Dokadek timber beam seat H20 Dokadek-Trägeraufnahme H20  Galvanized Height: 1'-2" (35 cm)	12.8	586550000	Scaffold tube 48.3mm 0.50m Gerüstrohr 48,3mm 0,50m  Galvanized	3.7	682026000
Dokadek railing shoe short Dokadek-Stirngeländerschuh  Galvanized Length: 9" (23 cm) Height: 1'-10" (56 cm)	9.5	586519000	Bracing frame Eurex 4'-0" Bracing frame Eurex 2'-8" Aufstellrahmen  Galvanized Height: 3'-8" (111 cm)	35.3 32.0	586557000 586558000
Dokadek railing shoe short 1.20m Dokadek-Stirngeländerschuh 1,20m  Galvanized Length: 9" (23 cm) Height: 11" (27 cm)	6.6	586598000	Diagonal cross 9.175 Diagonalkreuz 9.175  Galvanized Delivery condition: folded closed	13.4	582334000
Dokadek railing shoe long Dokadek-Längsgeländerschuh  Galvanized Length: 4'-1" (125 cm) Height: 2'-2" (66 cm)	22.3	586520000	Diagonal cross 18.200 Diagonalkreuz 18.200  Galvanized Delivery condition: folded closed	17.2	582624000
Dokadek railing shoe long 1.20m Dokadek-Längsgeländerschuh 1,20m  Galvanized Length: 1'-7" (47 cm) Height: 1'-3" (37 cm)	12.6	586560000			

	[lbs]	Article #		[lbs]	Article #
Bracing clamp B Verschwertungsklammer B  Painted blue Length: 1'-2" (36 cm)	3.1	586195000	Dokadek assembling tool B Dokadek-Montagestange B  Aluminum Length: 7'-1" - 12'-8" (215 - 387 cm)	6.8	586540000
Brace stirrup 8 Spannbügel 8  Galvanized Width: 7 1/2" (19 cm) Height: 1'-6" (46 cm) Width-across: 30 mm	6.0	582751000			
Safety plate for brace stirrup 8 Sicherungsblech für Spannbügel 8  red Length: 9" (23 cm)	0.11	582753000	Dokadek assembling tool extension 2.00m Dokadek-Montagestangenverlängerung 2,00m  Aluminum	3.3	586538000
Dokadek plumbing strut connector Dokadek-Justierstützenanschluss  Galvanized Length: 11" (28,5 cm) Width: 10" (26 cm) Height: 6 1/2" (16,6 cm)	9.0	586537000			
Plumbing strut 340 IB Justierstütze 340 IB  Galvanized Length: 6'-3" - 11'-3" (190,8 - 341,8 cm)	36.8	588696000	Dokadek suspension tool Dokadek-Einhängestange  Aluminum Head part yellow Length: 7'-1" - 12'-8" (215 - 386 cm)	6.8	586562000
Plumbing strut 540 IB Justierstütze 540 IB  Galvanized Length: 10'-2" - 18' (310,5 - 549,2 cm)	67.7	588697000	Dokadek stripping tool Dokadek-Ausschalwerkzeug  Powder-coated yellow Length: 6'-11" (212 cm)	11.0	586541000
			Dokadek stripping tool extension 1.50m Dokadek-Ausschalwerkzeugverlängerung 1,50m  Powder-coated yellow	6.8	586559000

	[lbs]	Article #		[lbs]	Article #
DekDrive DekDrive  Galvanized Length: 4'-9" (145 cm) Width: 2'-11" (88 cm) Height: 3'-7" (108 cm) Delivery condition: folded closed	128.0	586526000	Multi-trip packaging		
			Dokadek panel pallet 4'-0"x8'-0" Dokadek-Elementpalette 1,22x2,44m  Galvanized Height: 10" (26 cm)	165.0	586523000
DekLift 4.50m DekLift 4,50m  Galvanized Follow the directions in the "Operating Instructions"!	811.0	586553000	Dokadek panel pallet 2'-8"x8'-0" Dokadek-Elementpalette 0,81x2,44m  Galvanized Height: 10" (26 cm)	146.0	586524000
			Attachable wheelset Aufsteck-Radsatz  Galvanized	60.2	586525000
Platform stairway 0.97m Podesttreppe 0,97m  Aluminum Width: 4' (121 cm) Pay attention to the national, technical safety regulations!	51.8	586555000	Dokadek infill beam pallet Dokadek-Ausgleichsträgerpalette  Galvanized Length: 3'-11" (119 cm) Width: 2'-7" (79 cm) Height: 2'-8" (81 cm)	137.0	586528000
Wheel-around scaffold DF Mobilgerüst DF  Aluminum Length: 6'-1" (185 cm) Width: 2'-7" (80 cm) Height: 8'-4" (255 cm) Delivery condition: folded closed	97.0	586157000	Doka multi-trip transport box 1.20x0.80m Doka-Mehrwegcontainer 1,20x0,80m  Galvanized Height: 2'-7" (78 cm)	154.0	583011000
Wheel-around scaffold DF accessory set Zubehörset Mobilgerüst DF  Aluminum Timber parts varnished yellow Length: 6'-2" (189 cm)	29.3	586164000	Multi-trip transport box partition 0.80m Multi-trip transport box partition 1.20m Mehrwegcontainer Unterteilung  Steel parts galvanized Timber parts varnished yellow	8.2 12.1	583018000 583017000

	[lbs]	Article #		[lbs]	Article #
Doka accessory box Doka-Kleinteilebox  Timber parts varnished yellow Steel parts galvanized Length: 5'-1" (154 cm) Width: 2'-9" (83 cm) Height: 2'-6" (77 cm) Special order only!	235.0	583010000			
Doka skeleton transport box 1.70x0.80m Doka-Gitterbox 1,70x0,80m  Galvanized Height: 3'-8" (113 cm)	192.0	583012000			
Doka stacking pallet 1.55x0.85m Doka-Stapelpalette 1,55x0,85m  Galvanized Height: 2'-6" (77 cm)	90.4	586151000			
Doka stacking pallet 1.20x0.80m Doka-Stapelpalette 1,20x0,80m  Galvanized Height: 2'-6" (77 cm)	83.8	583016000			
Bolt-on castor set B Anklemm-Radsatz B  Painted blue	74.1	586168000			

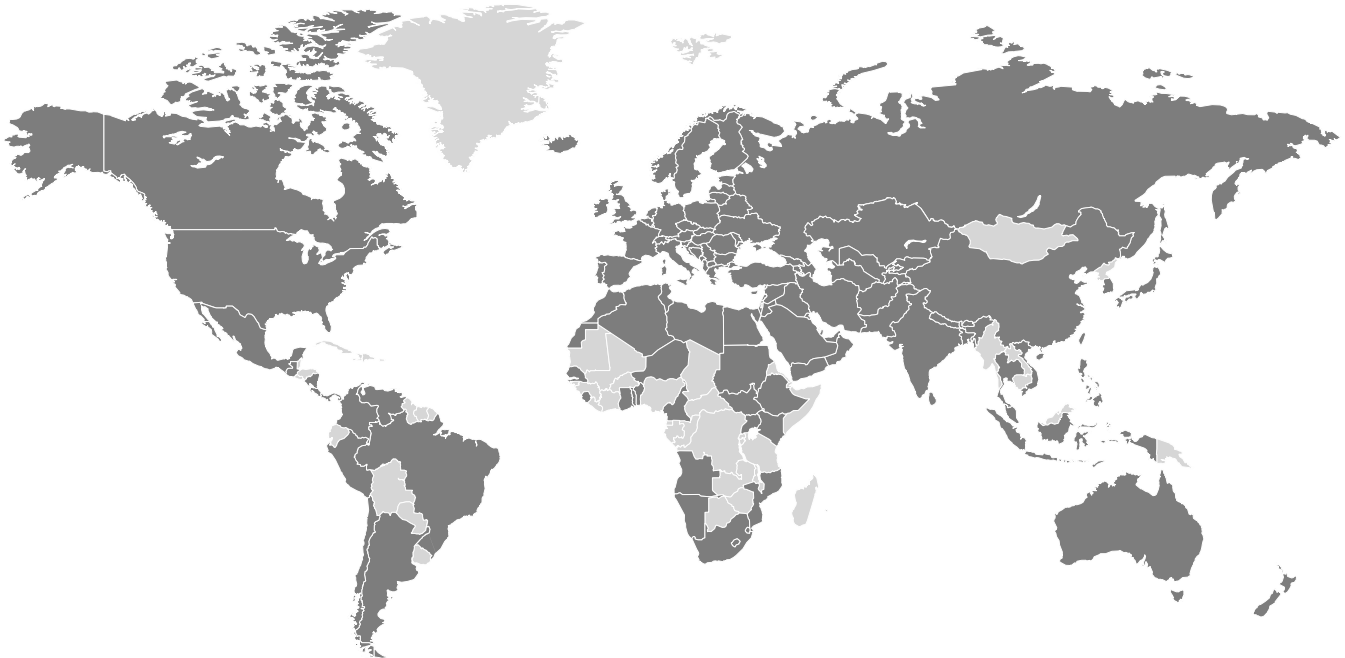
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