

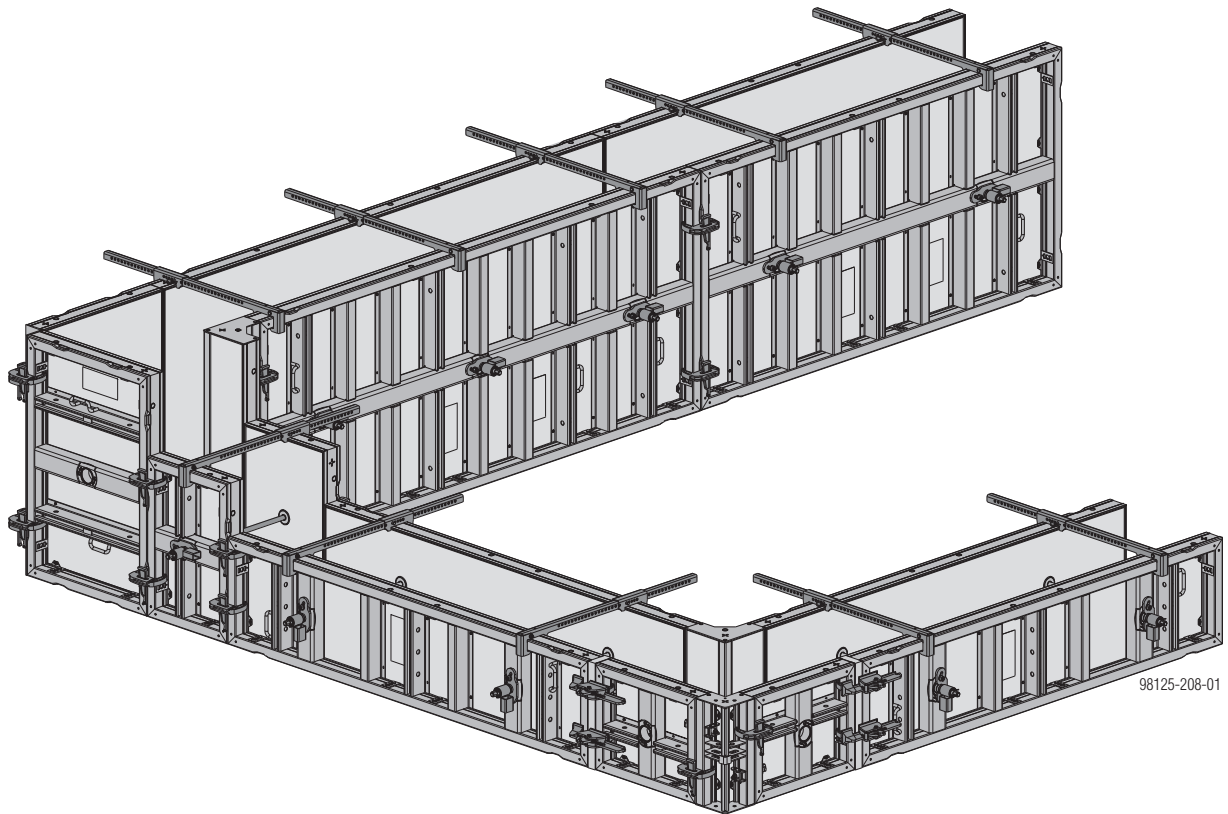
The Formwork Experts.

Foundation Formwork Framax Xlife plus

Framed formwork Framax Xlife plus

User Information

Instructions for assembly and use (Method statement)



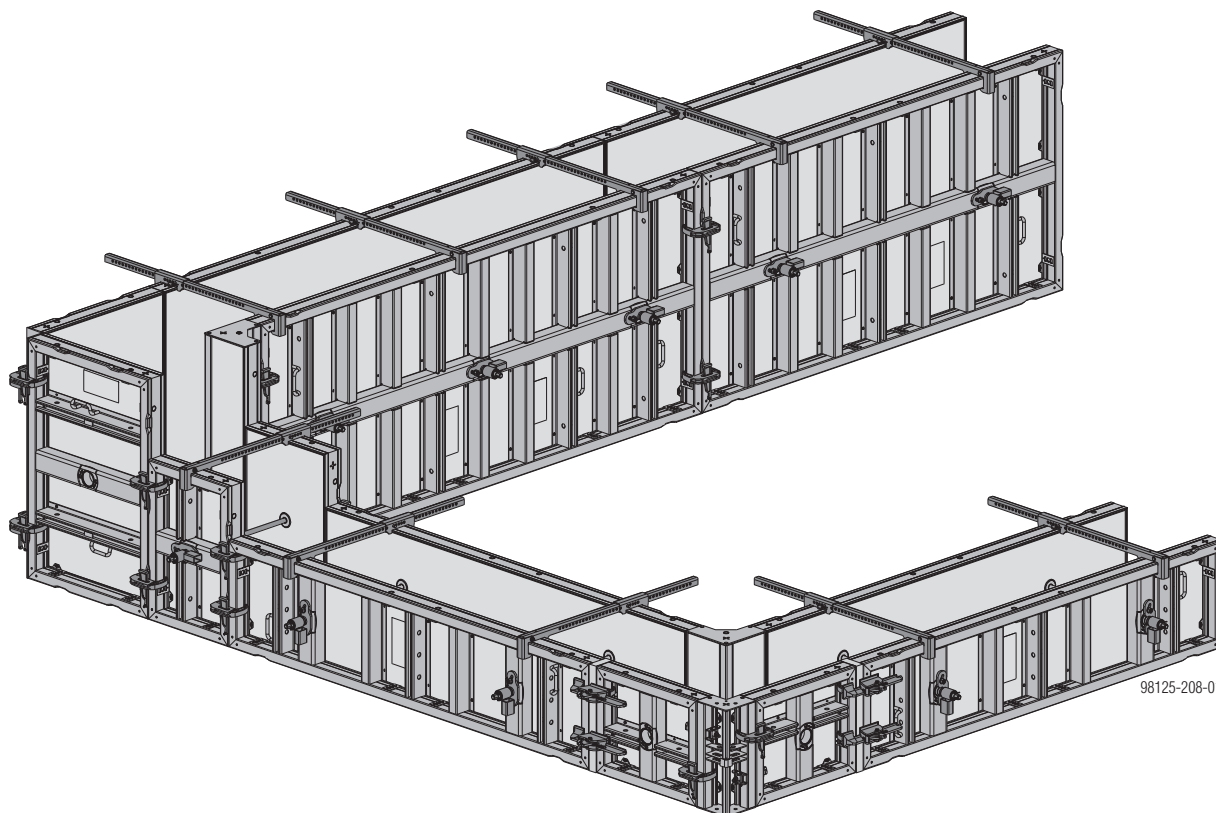
98125-208-01

System description

The Framax Xlife plus panels can also be used for foundations.

This is particularly advantageous where it is intended to continue forming (i.e. the walls) using the same panels. Foundations can quickly be formed with any of the panels, with the panels either upright or horizontal. Quick

acting clamps and a blow with the hammer are all it takes to join the panels. Length closures and corners are just as easy to solve here as they are on "normal" walls. A range of practical accessories makes the work very much easier.



98125-208-01



NOTICE

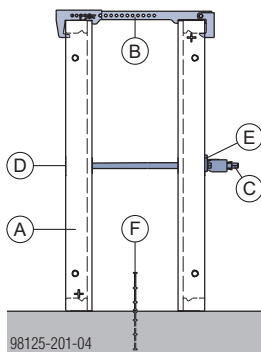
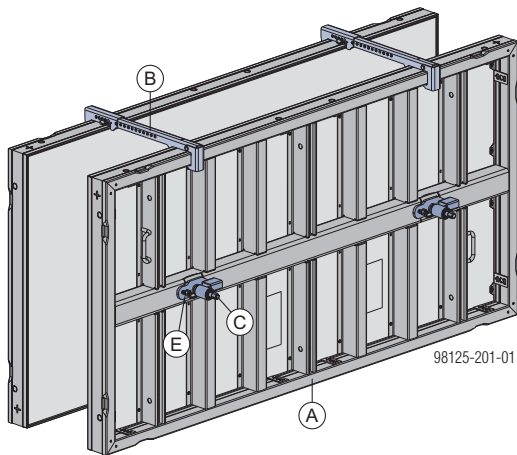
This document is only valid in conjunction with the following underlying document(s):
'Framed formwork Framax Xlife plus' User Information booklet.

Design of the foundation formwork

Pour heights of up to 1.35 m

Wall thicknesses of up to 60 cm

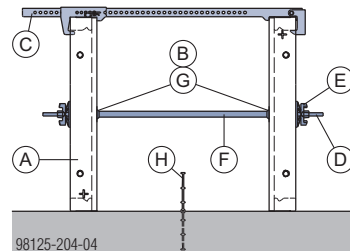
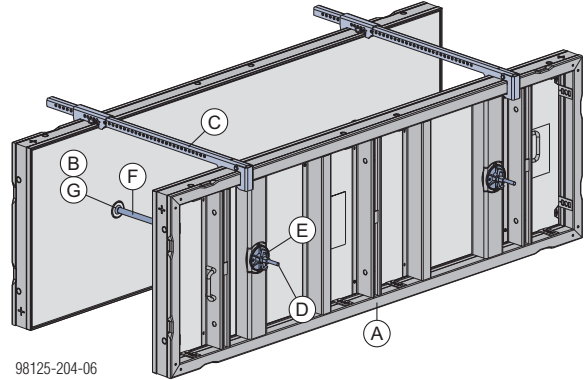
- Wall thicknesses in 5mm increments
- No site-provided distance protector
- Single-side tying
- no need for jacket tubes and cones
- Form tie above joint-sealing tape



- A Framax Xlife plus panel
- B Framax head anchor
- C Framax Xlife plus form tie
- D Framax Xlife plus form-tie nut I
- E Framax Xlife plus distance protector
- F Joint-sealing tape

Wall thicknesses > 60 up to 100 cm

- Wall thicknesses in 5mm increments
- No site-provided distance protector
- Tie rod system 15.0 or 20.0, with jacket tubes
- Form tie above joint-sealing tape



- A Framax Xlife plus panel
- B Framax Xlife plus reducer I 20.0
- C Framax head anchor 15-100cm
- D Tie rod
- E Super plate
- F Plastic tube
- G Universal cone
- H Joint-sealing tape

Note:

For wall thicknesses more than 60 cm up to 100 cm the **Framax Xlife plus reducer I 20.0** is inserted into the form-tie sleeve and the Doka tie rod system 15.0 or 20.0 is used.

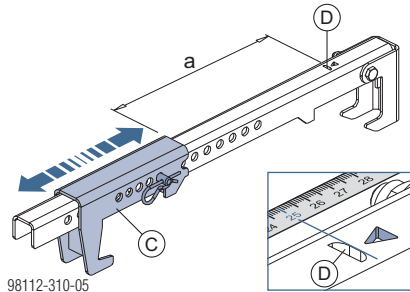


Follow the directions in the 'Framed formwork Framax Xlife-plus' User Information booklet when installing the reducer!

Framax head anchor

- Tie rod is held above panel (not in the concrete)
- Tension bracing and compression bracing using just one tool
- Wall thickness adjustable in 5-mm grid
- For foundation formwork of up to 1.35 m in height.

Adjusting wall thickness at the head anchor:



a ... required wall thickness

C Adjusting unit

D Notch = measuring point

Framax head anchor:

Permitted tensile force: 10 kN

Permitted compressive force: 10 kN

Framax Xlife plus panel (longside horizontal)	Number of Framax head anchors
1.35x3.30m	3
0.30 up to 0.90x3.30m	2
0.30 up to 1.35x2.70m	2

Framax Xlife plus panel (longside vertical)	Number of Framax head anchors
1.35x1.35m	1
0.30 up to 0.90x3.30m	1*

* ... only at every second panel



NOTICE

If more than two single form-tie panels are used next to each other, bracing with a universal waling will be required.



Follow the directions in the 'Framed formwork Framax Xlife plus' User Information booklet.

Pour heights of up to 0.90 m

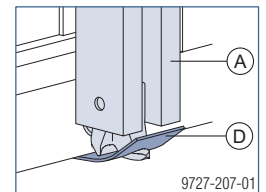
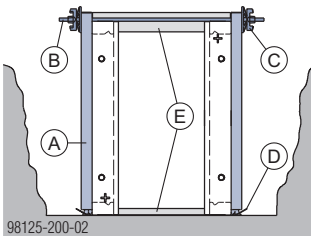
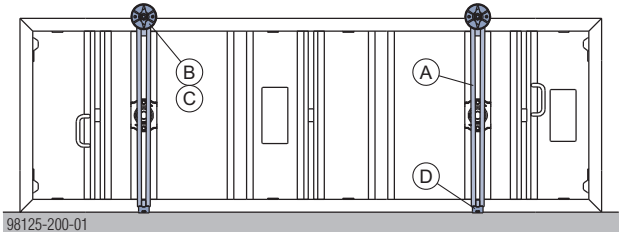
With formwork up to 0.90 m in height, the foundation clamp allows you to tie the panels above the concrete.

- Wall thicknesses in 5cm increments
- Narrow excavation
- No ties in the concrete

Foundation clamps

2 per panel

Panel 0.90x2.70m



A Framax universal waling 0.90m

B Tie rod 15.0mm

C Super plate 15.0

D Doka perforated tape 50x2.0mm 25m

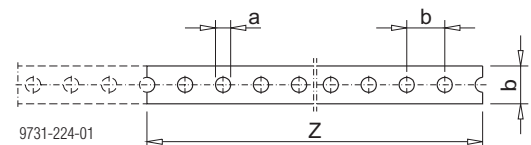
E Wooden spacer

Note:

Seal off any unneeded form-tie sleeves with the **Framax Xlife plus frame hole plug 32mm**.

Permissible load for a form-tie point with the Framax foundation clamp and Doka perforated tape is **12 kN**.

Doka perforated tape 50x2.0mm 25m



a ... 18 mm

b ... 50 mm

Z ... length of tape cut: wall thickness + 40 cm

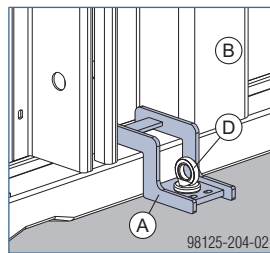
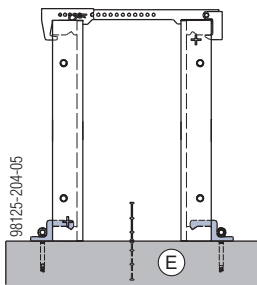
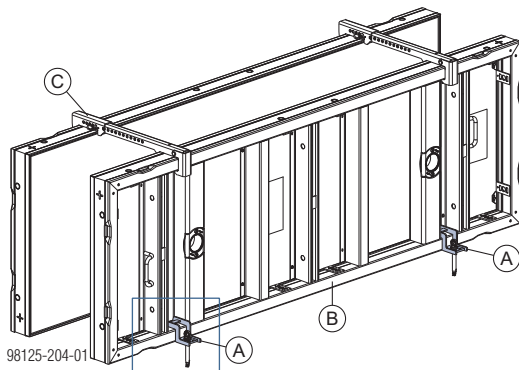
Variant with floor fixing plates and express anchors

- No site-provided distance protector
- no ties in the concrete
- No form ties in the area of the perforated tape
- Block foundations possible



NOTICE

Use Framax floor fixing plates only on foundation slabs and concrete floor-slabs.



- A** Framax floor fixing plate
- B** Framax Xlife plus panel
- C** Framax head anchor
- D** Doka express anchor 16x125mm
- E** Foundation slab / concrete floor-slab

- Engage the Framax floor fixing plate in the frame profile and fix with Doka express anchor 16x125mm.



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

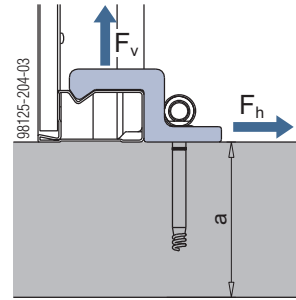


Before drilling the holes for the express anchors, temporarily secure the Framax floor fixing plates (8x12 mm slots integrated), for example with steel nails or bolts set with a compressed-air nailing gun or a bolt-setting tool.

Note:

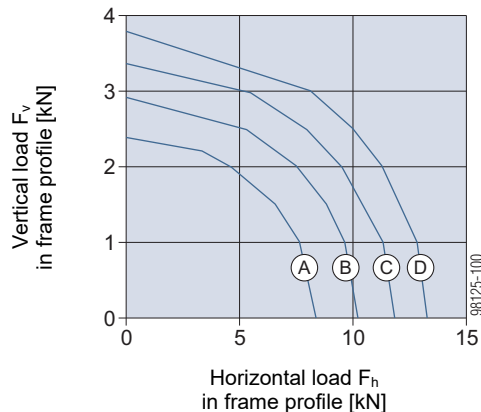
Seal off any unneeded form-tie sleeves with the **Framax Xlife plus frame hole plug 32mm**.

Structural design



a ... min. 18 cm

Distance from outside edge of panel: min. 15 cm



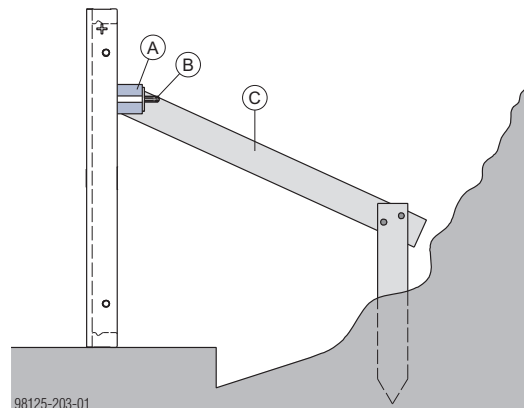
- A** Concrete strength B10 ($f_{ck \text{ cube}} 10 \text{ N/mm}^2$)
- B** Concrete strength B15 ($f_{ck \text{ cube}} 15 \text{ N/mm}^2$)
- C** Concrete strength B20 ($f_{ck \text{ cube}} 20 \text{ N/mm}^2$)
- D** Concrete strength B25 ($f_{ck \text{ cube}} 25 \text{ N/mm}^2$)

Anchorage loads, Doka express anchors or anchor-bolts:

Concrete strength	F_k	F_d
B10	8.4	12.6
B15	10.3	15.4
B20	11.8	17.8
B25	13.3	19.9

Shoring the panel

With the aid of a connecting timber and an in-place timber brace, brace the panels so that they stand firmly.



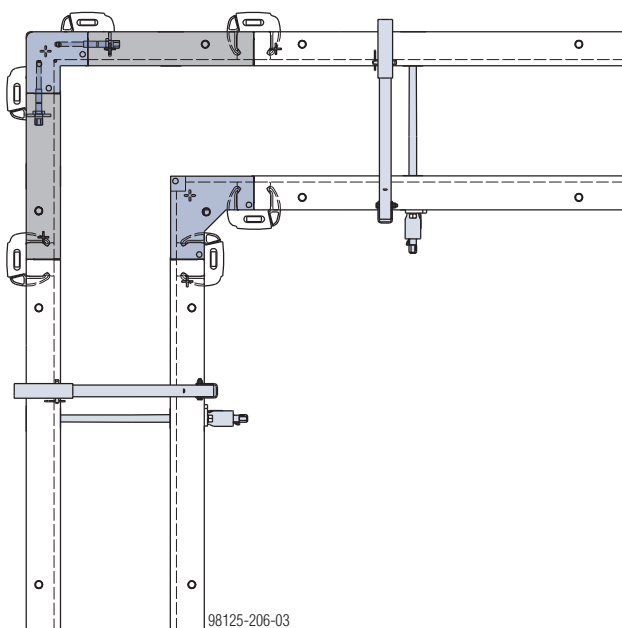
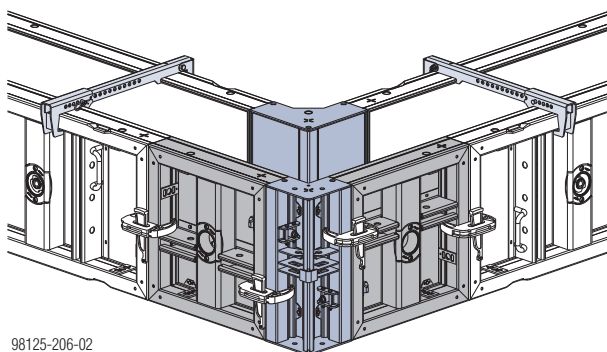
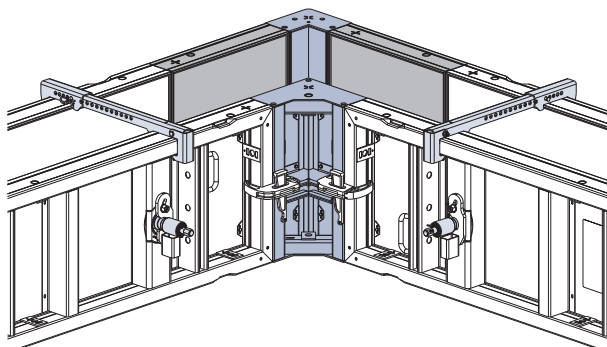
- A** Connecting timber
- B** Framax wedge clamp
- C** Timber brace

Corner solutions

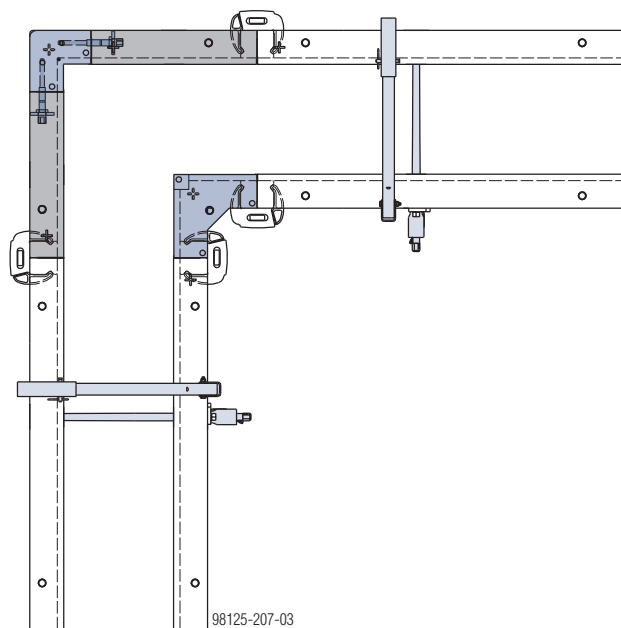
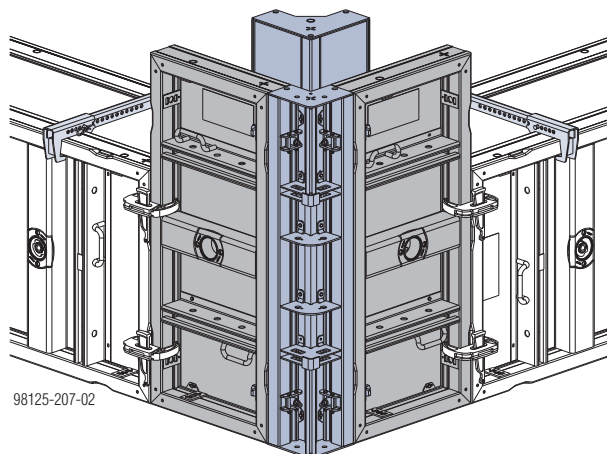
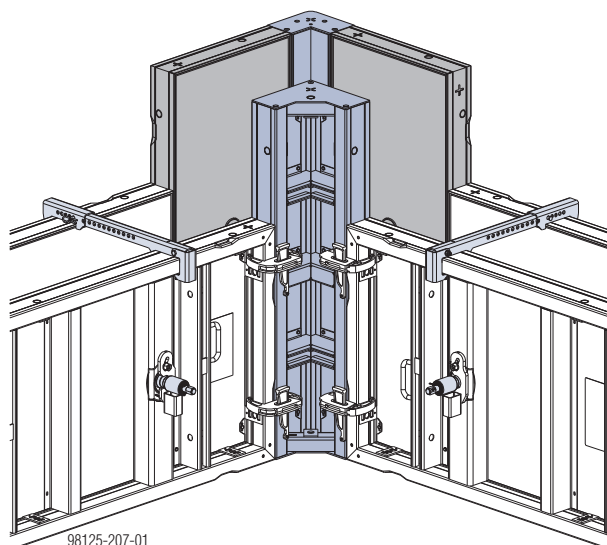
The top edge of the formwork is uniformly level for foundation formwork up to 0.60 m high. Inside and outside corners 1.35 m high are used for formwork heights of 0.90 m and higher.

with Framax Xlife plus outside corner 10/10cm

Example for formwork height of 0.60 m.

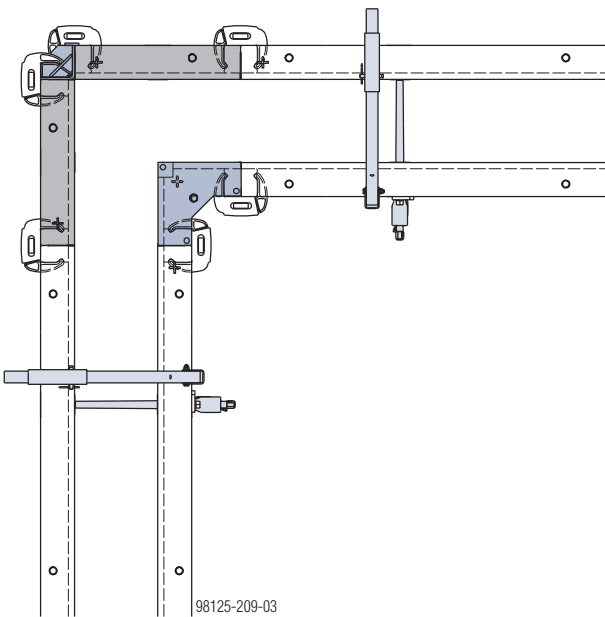
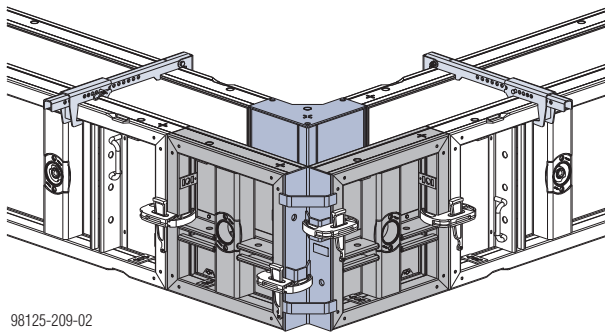
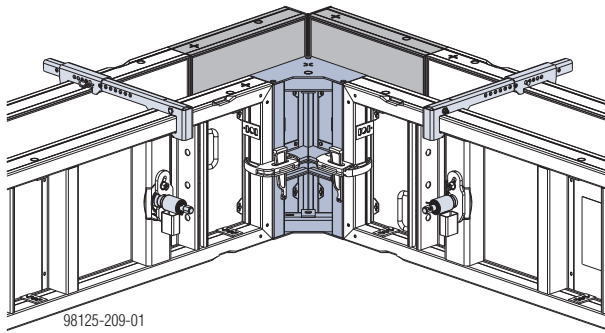


Example for formwork height of 0.90 m.

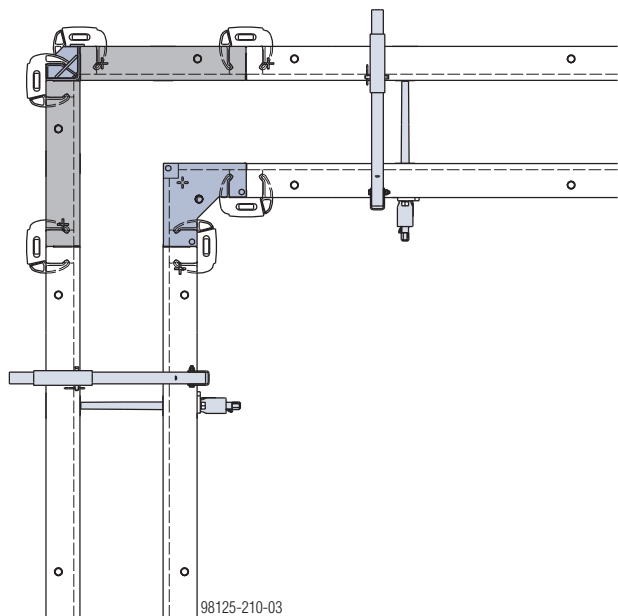
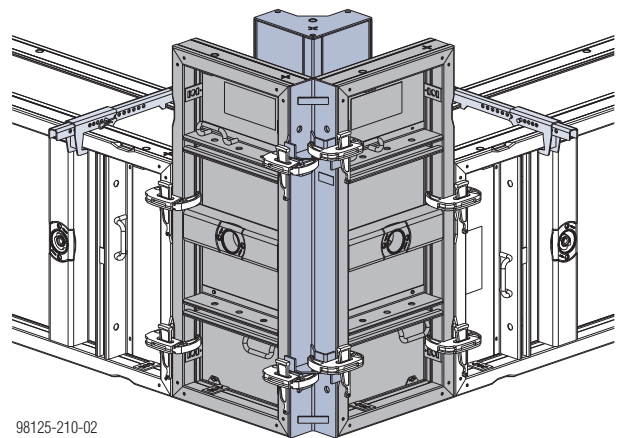
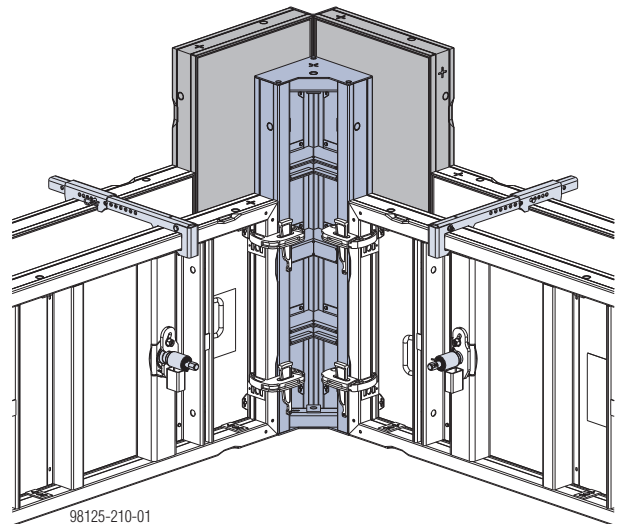


with Framax outside corner

Example for formwork height of 0.60 m.

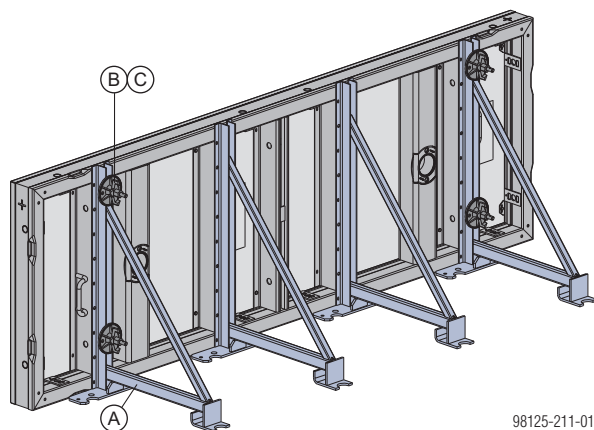


Example for formwork height of 0.90 m.



Slab stop-end with Supporting construction

The Supporting construction is used for erecting non-tied, single-sided formwork up to 1.20 m high (e.g. stop ends of floor slabs).



98125-211-01

A Supporting construction

B Framax clamping bolt 4-8cm

C Super plate 15.0

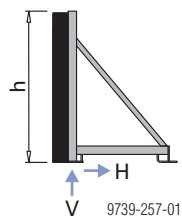


NOTICE

Transfer the vertical and horizontal forces by suitable means!

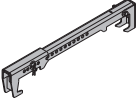
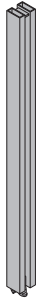
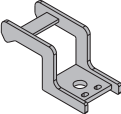
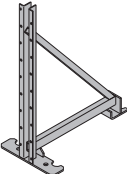
e.g.:

- 2 ground nails per Supporting construction.
- Anchoring with dowel in the blinding layer.



9739-257-01

Pour height h [m]	Influence width [m]	Vertical force V [kN]	Horizontal force H [kN]
0.30	3.00	0.00	3.40
0.45	3.00	0.20	7.60
0.60	1.80	1.00	8.10
0.75	1.15	1.80	8.10
0.90	0.80	2.60	8.10
1.05	0.60	3.40	8.10
1.20	0.45	4.10	8.10

	[kg]	Article n°
Framax head anchor 15-40cm Length: 72 - 81 cm	4.2	588969000
Framax head anchor 15-100cm Length: 131 - 141 cm Framax-Kopfanker	6.1	588970000
 Galvanised, powder-coated		
Framax foundation clamp 0.90m Framax-Fundamentspanner 0,90m	4.9	588141000
 Galvanised		
Doka perforated tape 50x2.0mm 25m Doka-Lochband 50x2,0mm 25m	17.0	588206000
		
Framax floor fixing plate Framax-Bodenhalter	0.87	588628000
 Galvanised Length: 17.6 cm Width: 7.7 cm Height: 8.5 cm		
Doka express anchor 16x125mm Doka-Expressanker 16x125mm	0.31	588631000
 Galvanised Length: 18 cm Follow the directions in the "Fitting instructions"!		
Doka coil 16mm Doka-Coil 16mm	0.009	588633000
 Galvanised Diameter: 1.6 cm		
Connecting timber Anklemmholz	0.70	176030000
 Varnished yellow Width: 10 cm		
Supporting construction Abstützwinkel	10.7	588477000
 Galvanised Length: 66 cm Width: 37 cm Height: 91 cm		

Tie rod system 15.0

	[kg]	Article n°
Tie rod 15.0mm galvanised 0.50m	0.72	581821000
Tie rod 15.0mm galvanised 0.75m	1.1	581822000
Tie rod 15.0mm galvanised 1.00m	1.4	581823000
Tie rod 15.0mm galvanised 1.25m	1.8	581826000
Tie rod 15.0mm galvanised 1.50m	2.2	581827000
Tie rod 15.0mm galvanised 1.75m	2.5	581828000
Tie rod 15.0mm galvanised 2.00m	2.9	581829000
Tie rod 15.0mm galvanised 2.50m	3.6	581852000
Tie rod 15.0mm galvanisedm	1.4	581824000
Tie rod 15.0mm non-treated 0.50m	0.73	581870000
Tie rod 15.0mm non-treated 0.75m	1.1	581871000
Tie rod 15.0mm non-treated 1.00m	1.4	581874000
Tie rod 15.0mm non-treated 1.25m	1.8	581886000
Tie rod 15.0mm non-treated 1.50m	2.1	581876000
Tie rod 15.0mm non-treated 1.75m	2.5	581887000
Tie rod 15.0mm non-treated 2.00m	2.9	581875000
Tie rod 15.0mm non-treated 2.50m	3.6	581877000
Tie rod 15.0mm non-treated 3.00m	4.3	581878000
Tie rod 15.0mm non-treated 3.50m	5.0	581888000
Tie rod 15.0mm non-treated 4.00m	5.7	581879000
Tie rod 15.0mm non-treated 5.00m	7.2	581880000
Tie rod 15.0mm non-treated 6.00m	8.6	581881000
Tie rod 15.0mm non-treated 7.50m	10.7	581882000
Tie rod 15.0mm non-treatedm	1.4	581873000
Ankerstab 15,0mm		



DIN
18216

Super plate 15.0
Superplatte 15,0

1.1 581966000



Galvanised
Height: 6 cm
Diameter: 12 cm
Width-across: 27 mm

DIN
18216

Wing nut 15.0
Flügelmutter 15,0

0.31 581961000



Galvanised
Length: 10 cm
Height: 5 cm
Width-across: 27 mm

DIN
18216

Hexagon nut 15.0
Sechskantmutter 15,0

0.23 581964000



Galvanised
Length: 5 cm
Width-across: 30 mm

DIN
18216

Framax pressure plate 6/15
Framax-Druckplatte 6/15

0.80 588183000



Galvanised

Star grip nut 15.0 G
Sternmutter 15,0 G

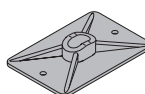
0.47 587544000



Galvanised
Width: 10 cm
Height: 5 cm
Width-across: 26 mm

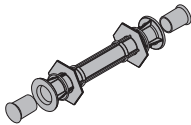
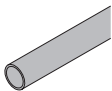
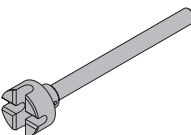
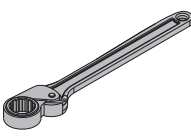
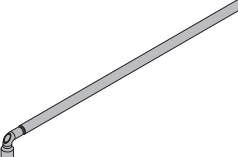
Angle anchor plate 12/18
Winkelplatte 12/18

1.5 581934000



Galvanised

DIN
18216

	[kg]	Article n°		[kg]	Article n°
Distance piece 20cm Distance piece 25cm Distance piece 30cm Distanzhalter	0.04 0.05 0.06	581907000 581908000 581909000			
 PE Grey Blue					
Plastic tube 22mm 2.50m Kunststoffrohr 22mm 2,50m	0.45	581951000			
 PVC Grey Diameter: 2.6 cm					
Universal cone 22mm Universal-Konus 22mm	0.005	581995000			
 Grey Diameter: 4 cm					
Plug 22mm Verschlussstopfen 22mm	0.003	581953000			
 PE Grey					
Protective cap 15.0/20.0 Schutzkappe 15,0/20,0	0.03	581858000			
 Yellow Length: 6 cm Diameter: 6.7 cm					
Tie-rod wrench 15.0/20.0 Ankerstabschlüssel 15,0/20,0	1.9	580594000			
 Galvanised Length: 37 cm Diameter: 8 cm					
Friction type ratchet SW27 Freilaufknarre SW27	0.49	581855000			
 Manganese-phosphated Length: 30 cm					
Box spanner 27 0.65m Steckschlüssel 27 0,65m	1.9	581854000			
 Galvanised					

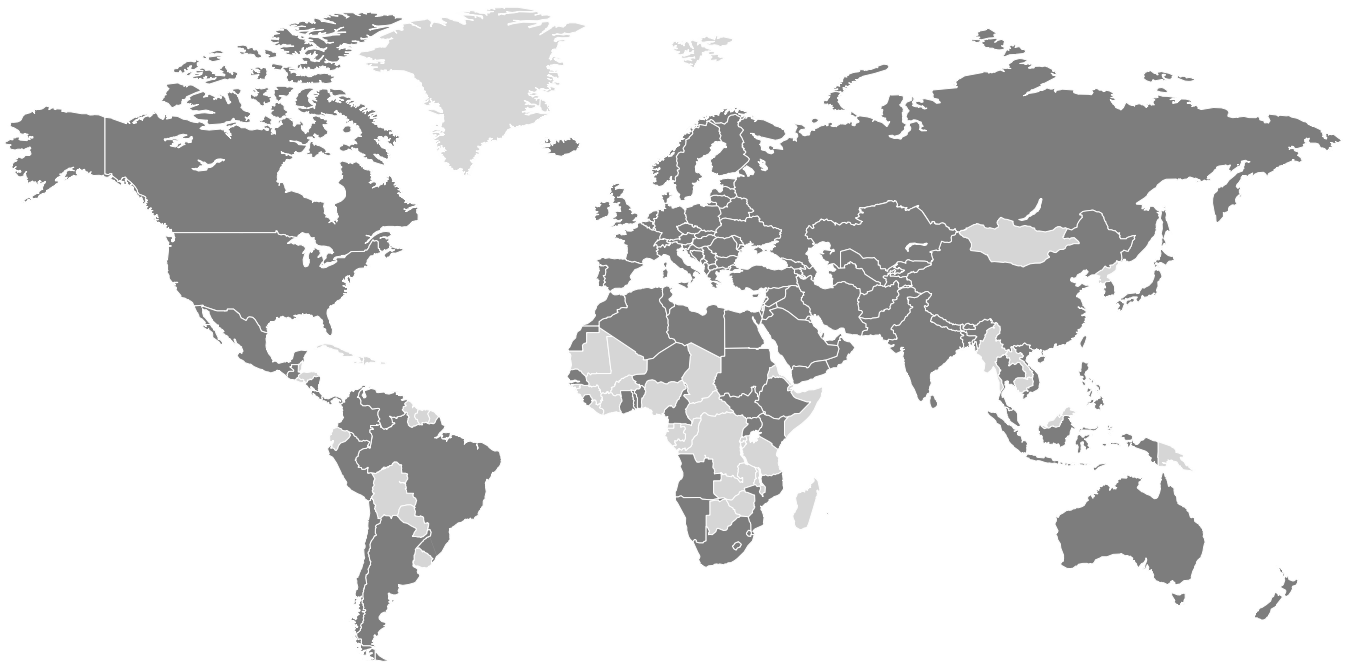
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www.doka.com/framax-xlife-plus