

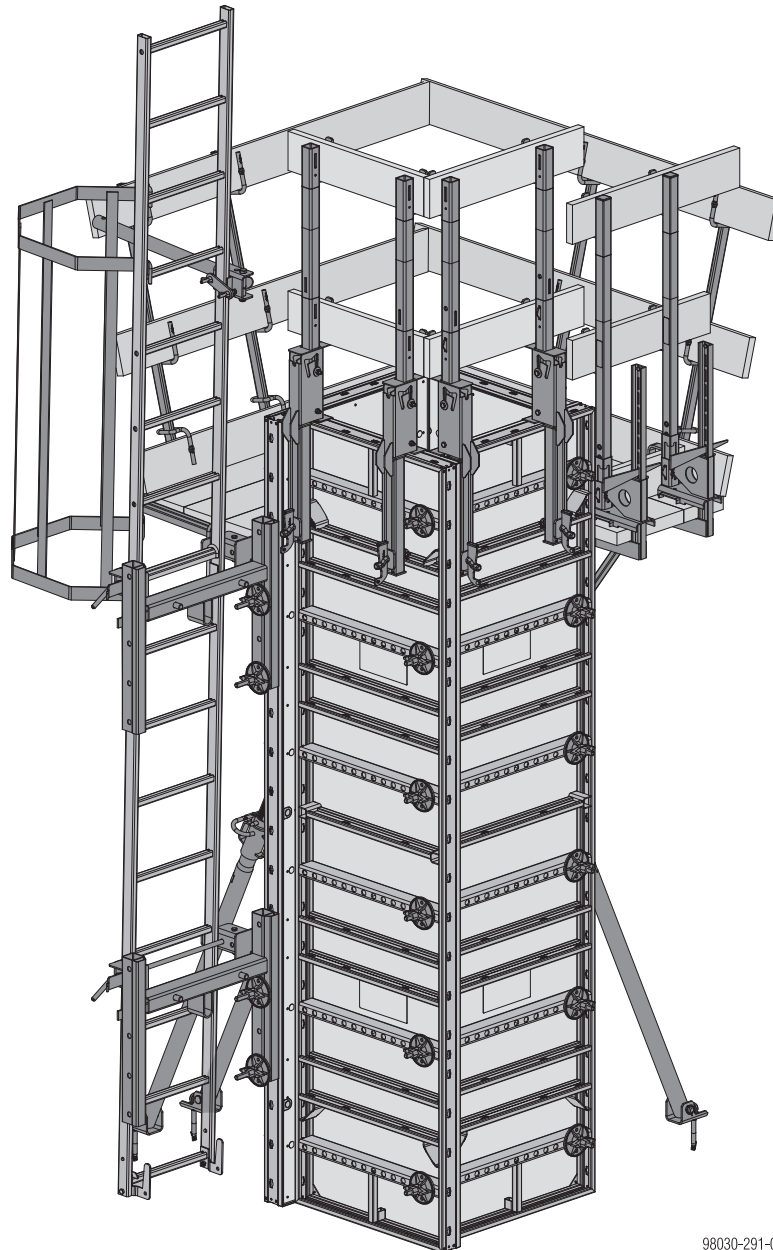
The Formwork Experts.

Column formwork Frami Xlife

Framed formwork Frami Xlife

User Information

Instructions for assembly and use (Method statement)



98030-291-01

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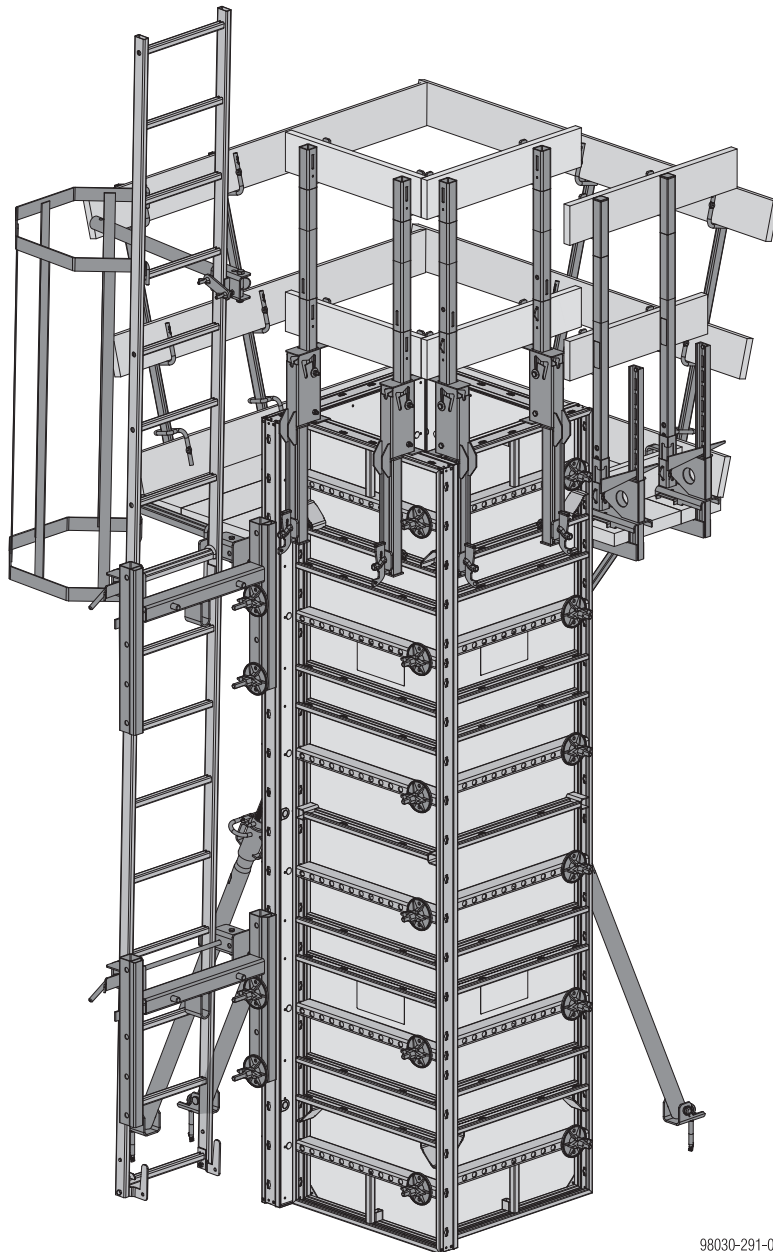
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System description

There are several different ways of using Frami Xlife framed formwork to make column formworks:

- with **Frami Xlife universal panels**
- combining **Frami Xlife universal panels** and **Frami Xlife standard panels**
- with **Frami Xlife panels** and **Frami outside corners**

Permitted fresh-concrete pressure $\sigma_{hk, max}$ **80 kN/m²**



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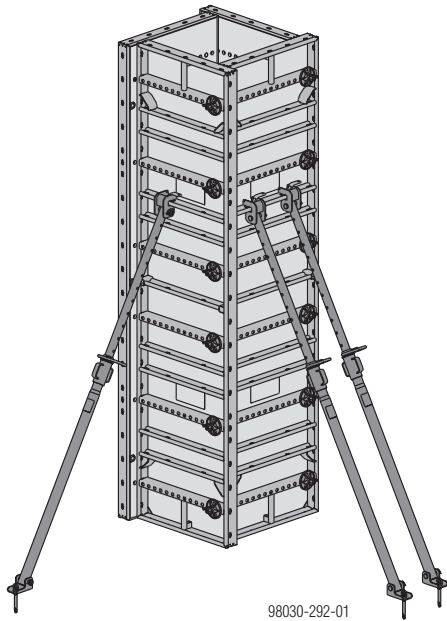
Shown here with Frami Xlife panel 3.00m.



NOTICE

This document is valid only in combination with the basic document(s):
'Framed formwork Frami Xlife' or 'Frami Xlife / Frami eco' User Information booklets.

Design of column formwork



NOTICE

- To achieve exact plumbing & aligning of the column formwork, the best arrangement of the plumbing struts is as illustrated here.
- Always attach plumbing struts to free-standing formwork halves to prevent them from falling over.

Note:

Close off unneeded grid holes in the form-facing of the Frami Xlife universal panels with **Frami plugs**.

Erecting and striking the formwork

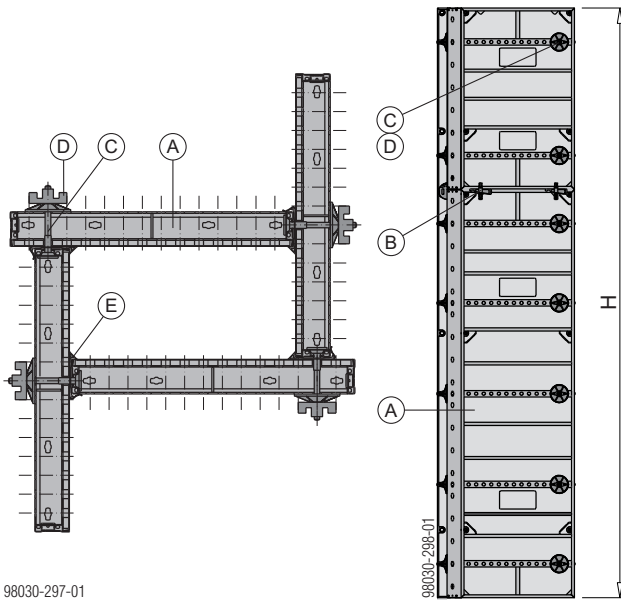
Erecting:

- Pre-assemble the formwork-halves flat on the ground.
- Secure the first formwork-half with panel struts before detaching it from the crane.
- Join the second formwork-half to the first half of the formwork, then detach it from the crane.

Striking:

- First attach the formwork-half that is without panel struts to the crane. Then undo the connection between the formwork-halves, hoist the second formwork-half out of the way and set it down flat for intermediate storage.
- Attach the formwork-half that is with panel struts to the crane. Take out the ground anchors of the panel struts and reposition this half of the formwork.

with Frami Xlife universal panels



98030-297-01

Example: Column, 30 x 60 cm

- A** Frami Xlife universal panel
- B** Frami clamp
- C** Super plate 15.0
- B** Frami universal fixing bolt 5-12cm or Frami corner connector
- E** Frami frontal triangular ledge

Frami universal fixing bolts / Frami corner connectors:

Permitted tensile load: 15.6 kN (when used in Frami Xlife universal panels)



NOTICE

A combination of Frami Xlife universal panels of widths 0.75m and 0.90m is not possible - different positions of the perforated profiles!

Frami Xlife universal panel 0.75m

for column cross-sections of up to 65 x 65 cm

Materials schedule

Formwork height (H)	Frami Xlife universal panel 0.75m (A)					Frami clamp (B)	Universal fixing bolt (C)	Super plate 15.0 (D)
	0.60m	1.20m	1.50m	2.70m	3.00m			
0.60 m	4						8	8
1.20 m		4					8	8
1.50 m			4				12	12
1.80 m	4	4				8	16	16
2.10 m	4		4			8	20	20
2.40 m		8				8	16	16
2.70 m		4	4			8	20	20
2.70 m				4			20	20
3.00 m	4	8				16	24	24
3.00 m			8			8	24	24
3.00 m					4		24	24
3.30 m	4	4	4			16	28	28
3.30 m	4			4		8	28	28
3.60 m		12				16	24	24
3.60 m	4				4	8	32	32
3.90 m		8	4			16	28	28
3.90 m		4		4		8	28	28
4.20 m			4	4		8	32	32
4.20 m		4			4	8	32	32
4.20 m	4	12				24	32	32
4.50 m	4	8	4			24	36	36
4.50 m	4	4		4		16	36	36
4.50 m			4		4	8	36	36
4.80 m		16				24	32	32
4.80 m	4	4			4	16	40	40
4.80 m	4		4	4		16	40	40
5.10 m		12	4			24	36	36
5.10 m	4		4		4	16	44	44
5.10 m		8		4		16	36	36
5.40 m	4	16				32	40	40
5.40 m		8			4	16	40	40
5.40 m				8		8	40	40
5.70 m	4	12	4			32	44	44
5.70 m				4	4	8	44	44
6.00 m		20				32	40	40
6.00 m					8	8	48	48

The figures in the table give the number of items needed.

Frami Xlife universal panel 0.90m

for column cross-sections of **up to 80 x 80 cm**

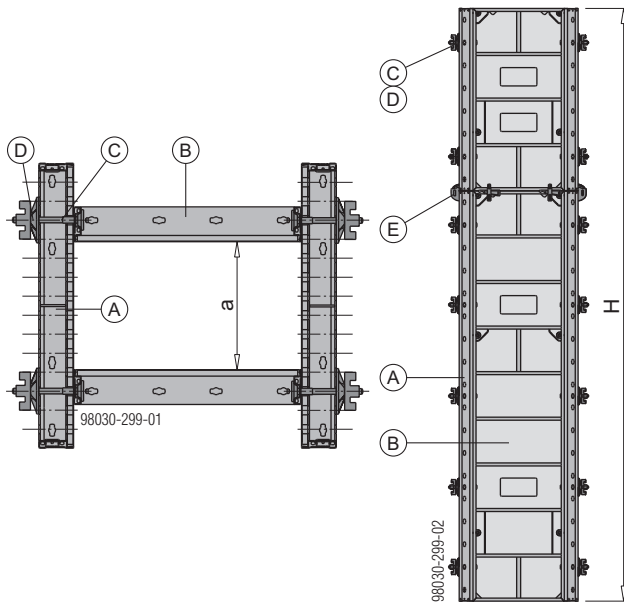
Materials schedule

Formwork height (H)	Frami Xlife universal panel 0.90m (A)					Frami clamp (B)	Universal fixing bolt (C)	Super plate 15.0 (D)
	0.60m	1.20m	1.50m	2.70m	3.00m			
0.60 m	4						8	8
1.20 m		4					12	12
1.50 m			4				16	16
1.80 m	4	4				8	20	20
2.10 m	4		4			8	24	24
2.40 m		8				8	24	24
2.70 m		4	4			8	28	28
2.70 m				4			24	24
3.00 m	4	8				16	32	32
3.00 m			8			16	32	32
3.00 m					4		28	28
3.30 m	4	4	4			16	36	36
3.30 m	4			4		8	32	32
3.60 m		12				16	36	36
3.60 m	4				4	8	36	36
3.90 m		8	4			16	40	40
3.90 m		4		4		8	36	36
4.20 m			4	4		8	40	40
4.20 m		4			4	8	40	40
4.20 m	4	12				24	44	44
4.50 m	4	8	4			24	48	48
4.50 m	4	4		4		16	44	44
4.50 m			4		4	8	40	40
4.80 m		16				24	48	48
4.80 m	4	4			4	16	48	48
4.80 m	4		4	4		16	48	48
5.10 m		12	4			24	52	52
5.10 m	4		4		4	16	52	52
5.10 m		8		4		16	48	48
5.40 m	4	16				32	56	56
5.40 m		8			4	16	52	52
5.40 m				8		8	48	48
5.70 m	4	12	4			32	60	60
5.70 m				4	4	8	52	52
6.00 m		20				32	60	60
6.00 m					8	8	56	56

The figures in the table give the number of items needed.

with Frami Xlife universal panels and Frami Xlife standard panels

Certain cross-sections of column can be formed highly economically by combining **Frami Xlife universal panels** and **standard Frami Xlife panels**.



Example: column, 35 x 60 cm

- A** Frami Xlife universal panel
- B** Frami Xlife panel
- C** Frami universal fixing bolt 5-12cm or Frami corner connector
- D** Super plate 15.0
- E** Frami clamp

	Dimension 'a'
Frami Xlife universal panel 0.75m	up to 55 cm, in 5 cm increments
Frami Xlife universal panel 0.90m	up to 70 cm, in 5 cm increments

(for constructional design reasons, a deviation of -1 cm is possible here)

max. width of the Frami Xlife panel	Permitted fresh-concrete pressure $\sigma_{hk, max}$
0.90m	40 kN/m ²
0.75m	50 kN/m ²
0.60m	60 kN/m ²
0.45m	70 kN/m ²
0.30m	

Frami Xlife universal panel 0.75m

for column cross-sections of up to 55 x 90 cm

Materials schedule

Formwork height (H)	Frami Xlife universal panel 0.75m (A) / Frami Xlife panel (B)				Frami clamp (E)	Universal fixing bolt (C)	Super plate 15.0 (D)
	1.20m	1.50m	2.70m	3.00m			
1.20 m	2 / 2					8	8
1.50 m		2 / 2				12	12
2.40 m	4 / 4				8	16	16
2.70 m	2 / 2	2 / 2			8	20	20
2.70 m			2 / 2			20	20
3.00 m				2 / 2		24	24
3.60 m	6 / 6				16	24	24
3.90 m	4 / 4	2 / 2			16	28	28
3.90 m	2 / 2		2 / 2		8	28	28
4.20 m		2 / 2	2 / 2		8	32	32
4.20 m	2 / 2			2 / 2	8	32	32
4.50 m		2 / 2		2 / 2	8	36	36
4.80 m	8 / 8				24	32	32
5.10 m	6 / 6	2 / 2			24	36	36
5.10 m	4 / 4		2 / 2		16	36	36
5.40 m	4 / 4			2 / 2	16	40	40
5.40 m			4 / 4		8	40	40
5.70 m			2 / 2	2 / 2	8	44	44
6.00 m	10 / 10				32	40	40
6.00 m				4 / 4	8	48	48

The figures in the table give the number of items needed.

Frami Xlife universal panel 0.90m

for column cross-sections of **up to 70 x 90 cm**

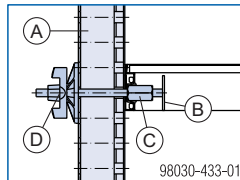
Materials schedule

Formwork height (H)	Frami Xlife universal panel 0.90m (A) / Frami Xlife panel (B)				Frami clamp (E)	Universal fixing bolt (C)	Hexagon nut + Tie rod 15,0 (C)	Super plate 15.0 (D)
	1.20m	1.50m	2.70m	3.00m				
1.20 m	2 / 2					12		12
1.50 m		2 / 2				12	4	16
2.40 m	4 / 4				8	24		24
2.70 m	2 / 2	2 / 2			8	24	4	28
2.70 m			2 / 2			24		24
3.00 m				2 / 2		28		28
3.60 m	6 / 6				16	36		36
3.90 m	4 / 4	2 / 2			16	36	4	40
3.90 m	2 / 2		2 / 2		8	36		36
4.20 m		2 / 2	2 / 2		8	36	4	40
4.20 m	2 / 2			2 / 2	8	40		40
4.50 m		2 / 2		2 / 2	8	36	4	40
4.80 m	8 / 8				24	48		48
5.10 m	6 / 6	2 / 2			24	48	4	52
5.10 m	4 / 4		2 / 2		16	48		48
5.40 m	4 / 4			2 / 2	16	52		52
5.40 m			4 / 4		8	48		48
5.70 m			2 / 2	2 / 2	8	52		52
6.00 m	10 / 10				32	60		60
6.00 m				4 / 4	8	56		56

The figures in the table give the number of items needed.

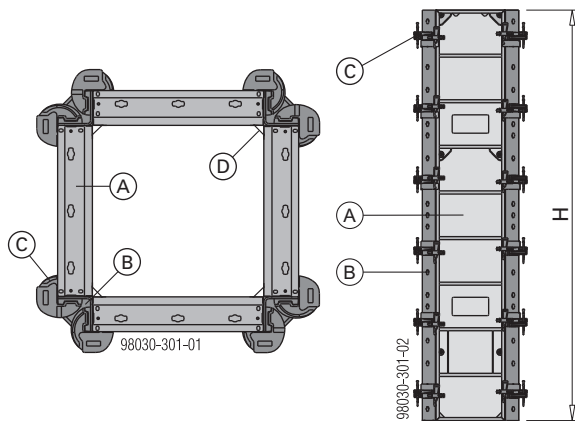
Note:

In the case of the universal panel 0.90x1.50m, installation of the Frami universal fixing bolt in one of the perforated profiles is not possible (collision with bracing at form-tie hole of the Frami Xlife panel). Use Hexagon nut 15.0 + Tie rod 15,0mm.



- A** Frami Xlife universal panel 0.90x1.50m
- B** Bracing at form-tie hole of the Frami Xlife panel
- C** Hexagon nut 15.0 + Tie rod 15,0mm (length: 250 mm)
- D** Super plate 15.0

with Frami Xlife panels and Frami outside corners



Example: Column, 45 x 45 cm

- A** Frami Xlife panel
- B** Frami outside corner
- C** Frami clamp
- D** Framax triangular ledge

Some dimensions can also be formed using **outside corners** and **Frami Xlife panels**.

max. width of the Frami Xlife panel	Permitted fresh-concrete pres- sure $\sigma_{fk, max}$
0.90m	40 kN/m ²
0.75m	50 kN/m ²
0.60m	60 kN/m ²
0.45m	70 kN/m ²
0.30m	

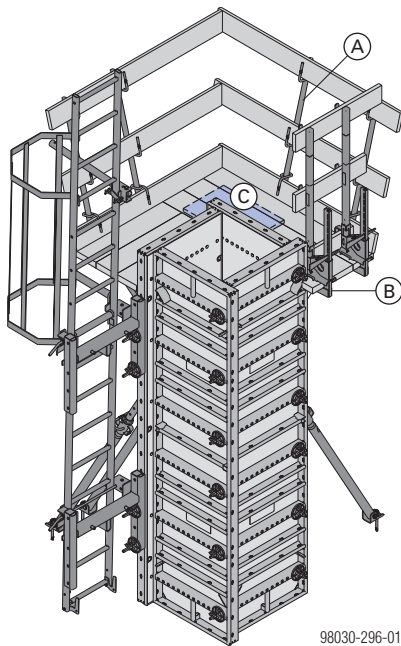
Materials schedule

Panel height (H)	Frami Xlife panel (A) / Frami outside corner (B)				Frami clamp (C)
	1.20m	1.50m	2.70m	3.00m	
1.20m	4 / 4				24
1.50m		4 / 4			24
2.70m			4 / 4		48
3.00m				4 / 4	48

The figures in the table give the number of items needed.

Pouring platform

Pouring platforms with Frami bracket 60



Shown here without counter railings.

- A** Frami bracket 60 (deck and guardrail boards provided at site)
- B** Edge protection system XP (guardrail boards provided at site)
- C** Board for screwing the platform decking onto

Note:

Where the two planks meet, a joining board must be screwed onto the underside.



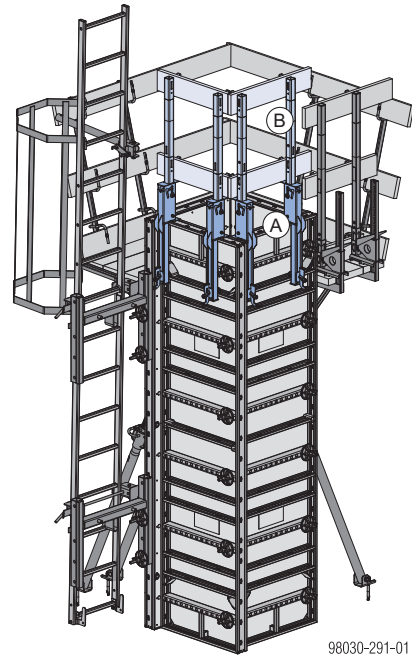
NOTICE

The brackets must be secured against accidental lift-out.



For more information, please refer to the 'Framed formwork Frami Xlife' or 'Frami Xlife / Frami eco' User Information booklets.

Opposing guardrail

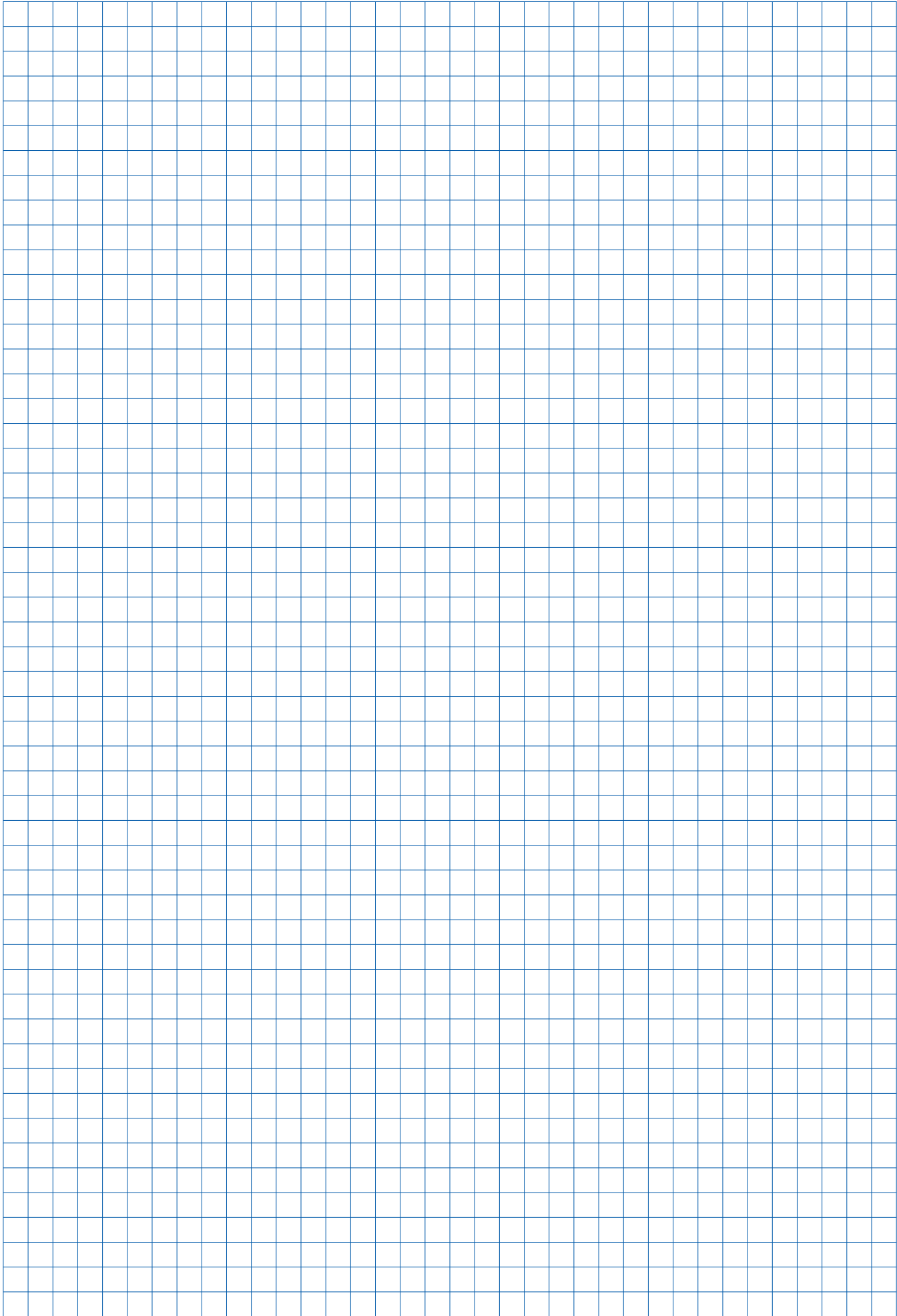


A Frami adapter XP

B Handrail posts XP 0.60m (guardrail boards provided at site)

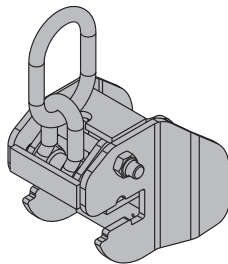


For more information, please refer to the 'Framed formwork Frami Xlife' or 'Frami Xlife / Frami eco' User Information booklets.



Lifting by crane

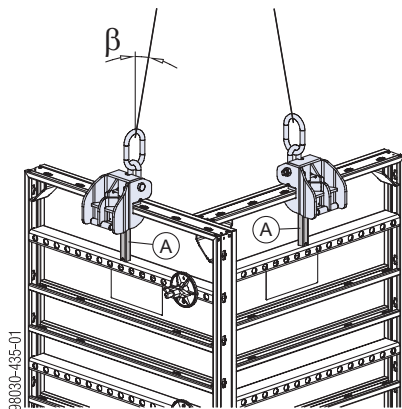
Frami lifting hook



Follow the Operating Instructions!

Securing the lifting hooks against sliding from side to side

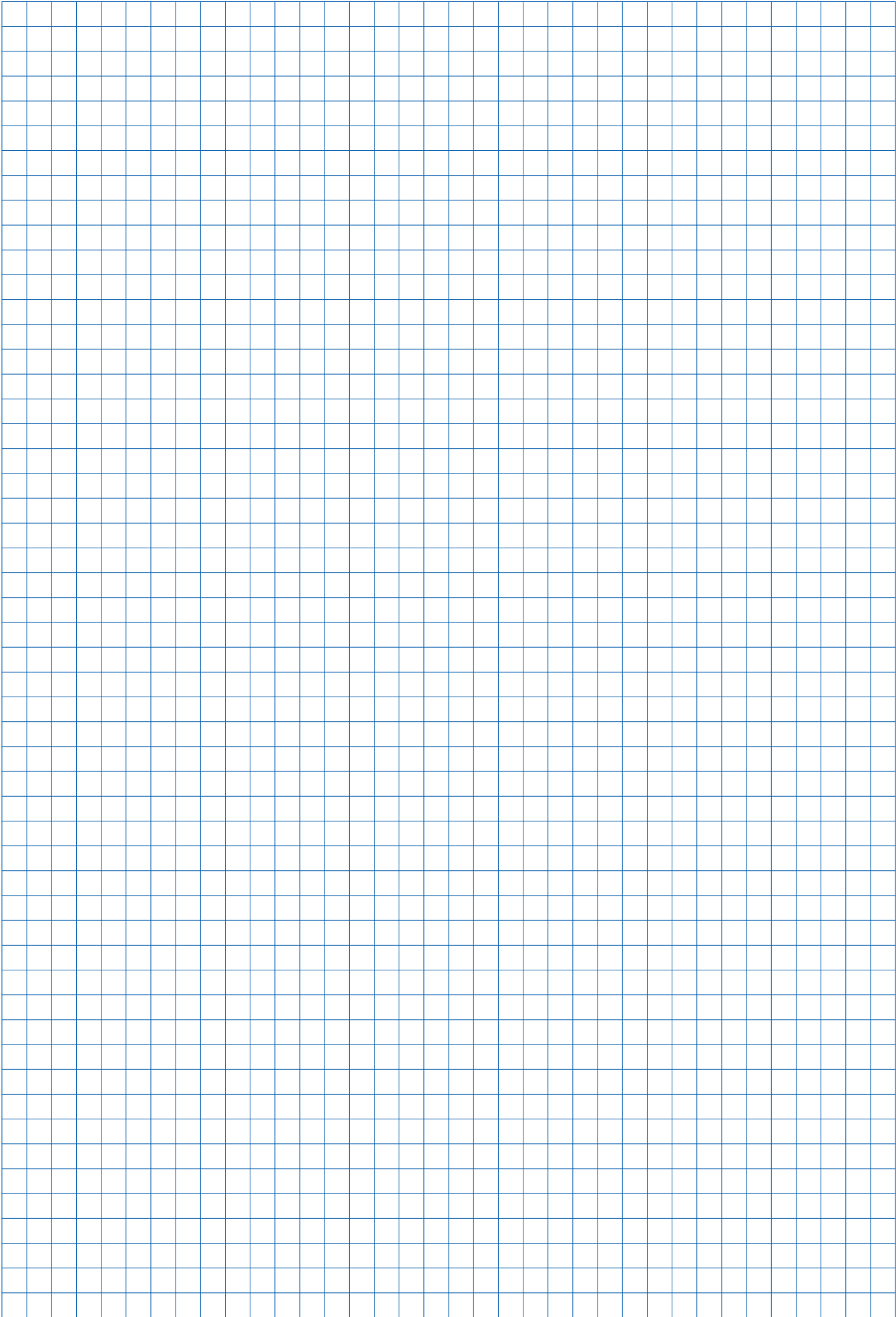
- 1) Position the lifting hooks directly above the handles so that the lifting hooks are secured against side-ways slippage.

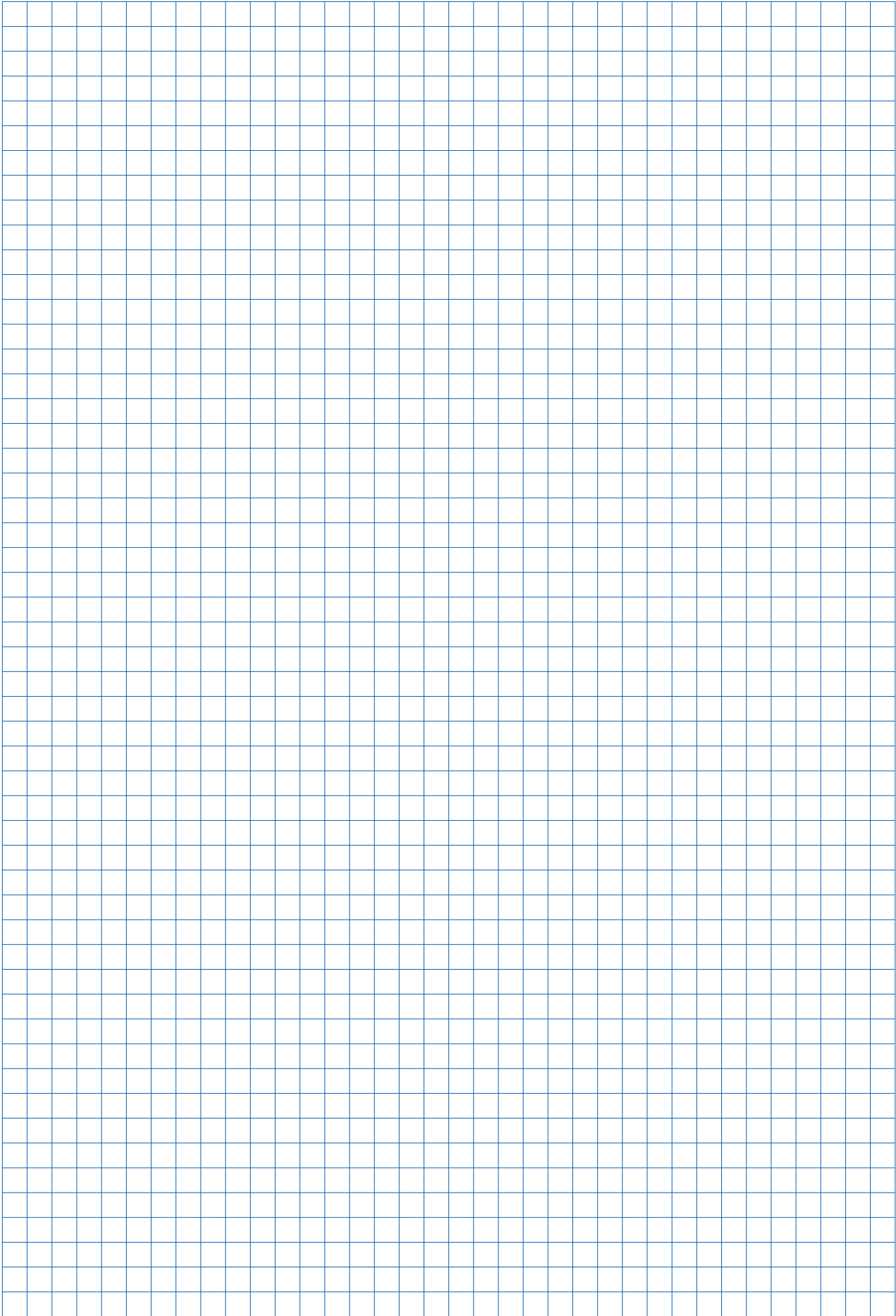


β ... max. 15°

A Handle

- 2) Before repositioning:
Match the lifting chain to the centre of gravity of the formwork-half by shortening one strand of the lifting chain.





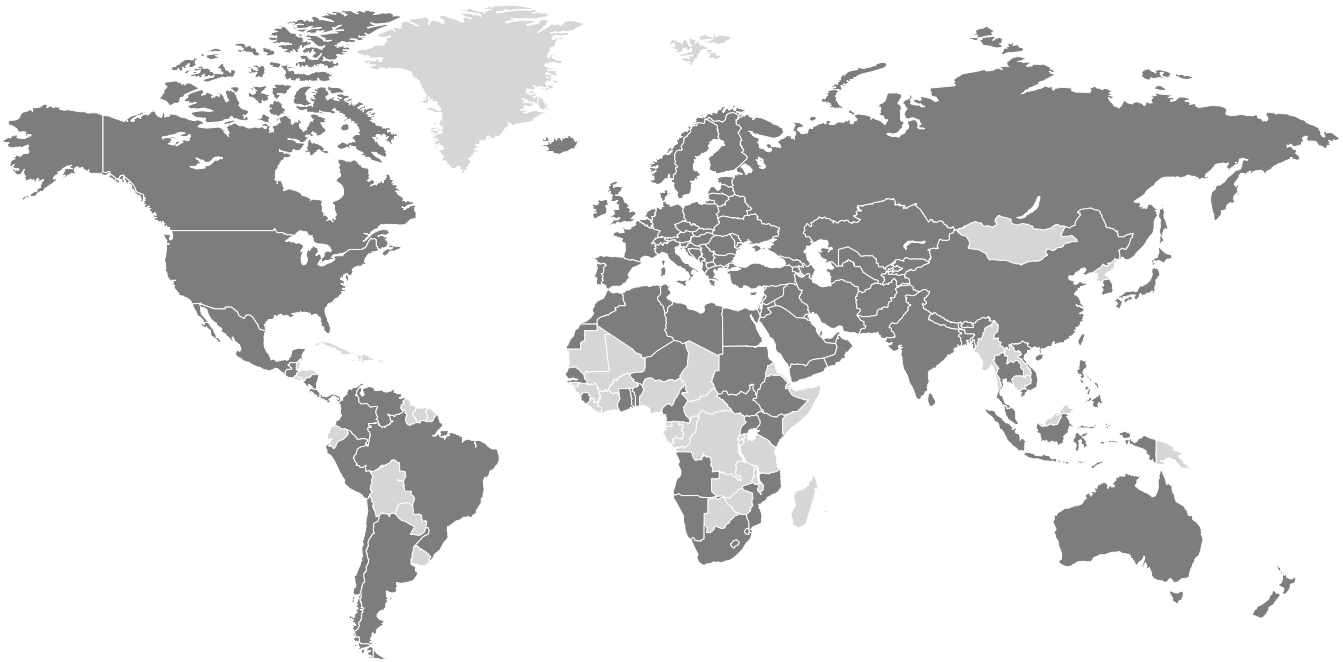
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