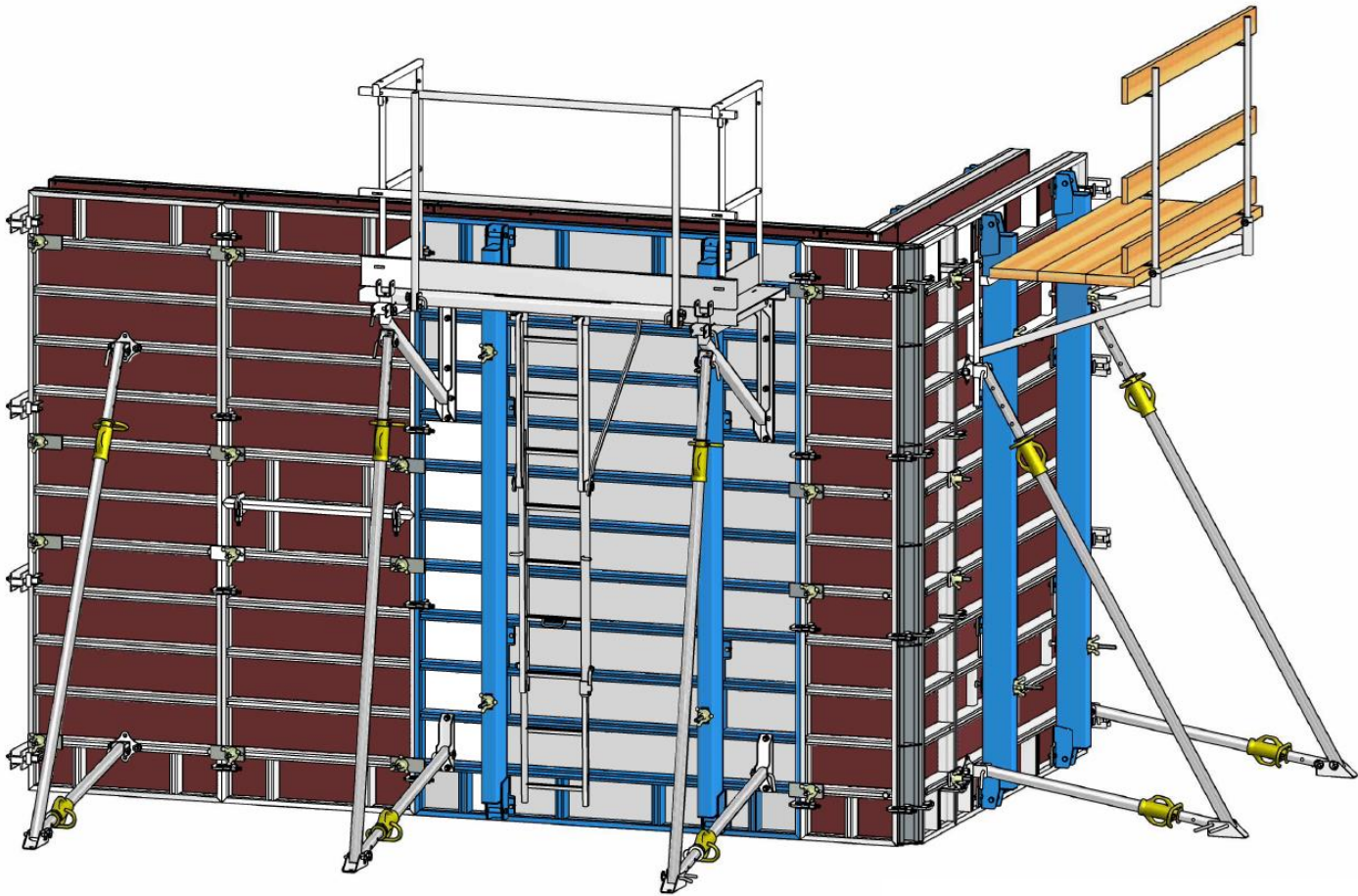




SafEchaf

LA SÉCURITÉ EN HAUTEUR



MODALU / MODACIER

Assembly and use instructions guide

Content

PAGE 3 :	APPLICATION
PAGE 5 :	LIST OF ACCESSORIES
PAGE 11 :	POSITION OF THE TIGHTENING RODS
PAGE 14 :	MOUNTING OF THE ASSEMBLY CLAMPS
PAGE 15 :	MOUNTING OF THE ALIGNMENT CLAMPS
PAGE 16 :	MOUNTING OF THE WALING
PAGE 17 :	DETAIL OF THE TIGHTENING
PAGE 19 :	MOUNTING OF THE PROP CLAMP
PAGE 20 :	MOUNTING OF THE LIFTING RING
PAGE 21:	LIFTING INSTRUCTIONS
PAGE 22 :	MOUNTING OF THE SAFETY BRACKET
PAGE 23 :	CONFIGURATION FOR STRINGER FORMING
PAGE 24:	MOUTING OF POLYGONS
PAGE 25 :	MOUTING OF ADJUSTABLE ANGLE
PAGE 26 :	MOUNTING OF EXTENSION SHEET
PAGE 27 :	USE OF THE ANGLE 90°
PAGE 28 :	USE OF THE ADJUSTABLE ANGLE
PAGE 29 :	EXAMPLE OF USE OF THE ACCESSORIES
PAGE 31 :	SPECIAL CONFIGURATION (trestles, staircase, pillar, pool)
PAGE 37 :	DELIVERY – STORAGE – FLAT LIFTING
PAGE 38 :	MOUNTING OF THE LARGE PANEL
PAGE 41 :	INSTALLATION INSTRUCTIONS AND SAFETY
PAGE 43 :	CONDITION OF USE AND MAINTENANCE

Fields of application

Implementation and use of modular formwork panels.

This is an assembly of subsets of different classes (formwork parts, bonding, security, shoring, etc.)

For what purpose

This form assembly is operable to perform straight walls or concrete veneers, stringers, etc ...

For who

The installation and use of this material will require the presence of qualified, competent and accustomed to this kind of work and having the right tools and individual protective equipment such as helmets with chin strap, safety shoes, gloves, etc

Where and How

The location of such assembly is defined in the ground and climatic conditions. Indeed, if the ground too soft, does not take the vertical forces, that is to say the weight of the panels, scaffolding, etc., or if the environment is not favorable (strong winds, heavy snow, too cold temperatures ...), installation of modular formwork panels can be realized.

*For further information, please contact the technical service **SAFECHAF SARL***

.

Fields of application

This guide aims to help you climb your modular formwork panels manuportables Modalu step by step with maximum ease.

Before starting the installation or use of this equipment, any person will see instructions outlined in this manual and specifically warnings marked with the logo :



The modular formwork panels must be mounted manuportables Modalu by qualified, competent and accustomed to this kind of work.

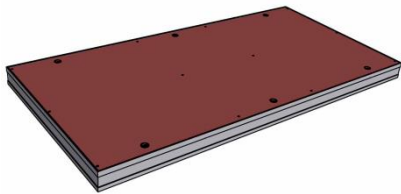
A minimum of two people are required to perform this installation.

People participating in the assembly of modular formwork panels manuportables Modalu must have read the pattern layout plans provided.

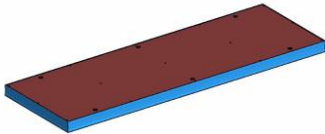
Tools required: level, hammer, wrench 30, etc ...

List of accessories

	[Kg]	Article n°
Element Modalu 200x1500	9,9	101065
Element Modalu 200x3000	19,5	104590
Element Modalu 250x1000	7,7	100296
Element Modalu 250x1500	11,2	100297
Element Modalu 250x2000	14,8	100298
Element Modalu 250x2700	19,1	104935
Element Modalu 250x3000	22,0	100299
Element Modalu 300x2700	20,1	104647
Element Modalu 450x2700	27,0	104694
Element Modalu 500x1000	12,8	100300
Element Modalu 500x1500	18,4	100301
Element Modalu 500x2000	24,0	100302
Element Modalu 500x2700	30,5	104644
Element Modalu 500x3000	35,2	100303
Element Modalu 600x2700	33,2	104641
Element Modalu 750x1000	17,3	100304
Element Modalu 750x1500	24,8	100305
Element Modalu 750x2000	32,5	100306
Element Modalu 750x2700	41,0	104726
Element Modalu 750x3000	47,7	100307
Element Modalu 900x2700	48,2	104611
Element Modalu 1000x1000	22,4	100308
Element Modalu 1000x1500	32,0	100309
Element Modalu 1000x2000	41,6	100310
Element Modalu 1000x3000	60,8	100311
Element Modalu GF 2000x3000	235,0	104647

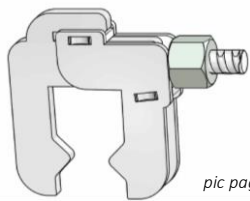
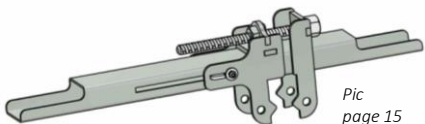

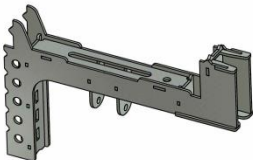

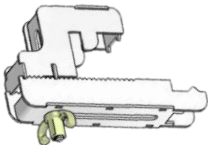



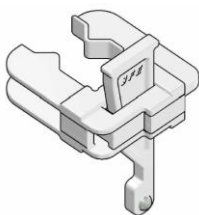
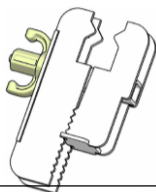
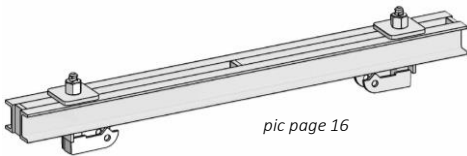

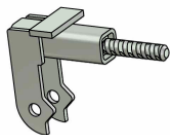
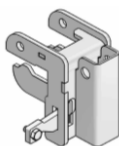

	[Kg]	Article n°
Element Modacier 250x3000	25,4	207157
Element Modacier 500x1500	32,5	206495
Element Modacier 500x3000	61,6	206491
Element Modacier 750x1500	38,4	207100
Element Modacier 750x3000	76,1	207162
Element Modacier 1000x1500	54,2	205201
Element Modacier 1000x3000	101,5	206487
Element Modacier GF 2000x3000	302	207688




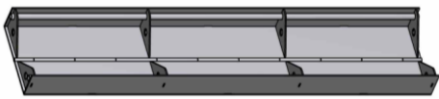

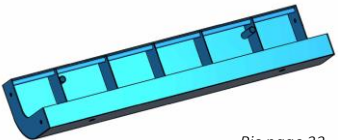
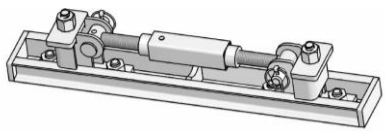
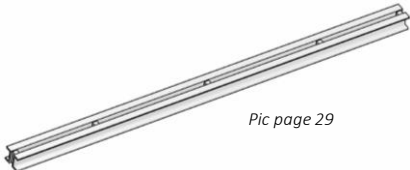

Other dimensions on request


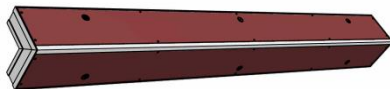
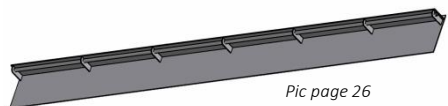
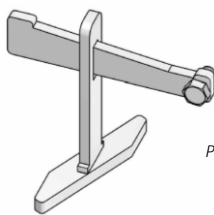

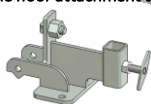

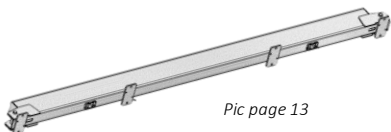
List of accessories

	[Kg]	Article n°
Assembly clamp (nut lock)	1,0	208236
 <i>pic page 14</i>		
Alignment clamp F 0-100 nut	4,9	104635
 <i>Pic page 15</i>		
Angle/sheet clamp. 0-100 nut	3,7	204518
 <i>pic page 27</i>		
S/E Pillar clamp from 200 to 400 Sp-	9,1	203931
S/E Pillar clamp from 200 to 650 Sp-	15,2	204154
Pillar clamp from 200 to 400 Sp-	11,5	203942
Pillar clamp from 200 to 650 Sp-	17,6	204155
S/E Rod for pillar clamp	1,4	104652
 <i>pic page 33</i>		
Adjustable spacer (16-18-20-22-24-25-30)	14,4	103851
 <i>pic page 29</i>		
Shift clamp for waling	6,0	205144
 <i>pic Page 29</i>		
Adaptation wedge Lg.110mm	0,2	209749
 <i>Pic page 30</i>		

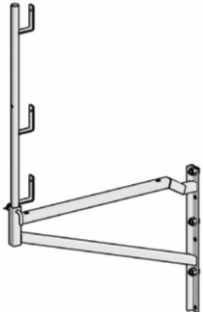
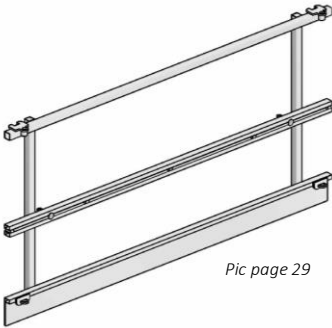
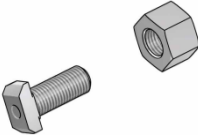
	[Kg]	Article n°
Assembly clamp to hit	1,2	207852
		
Shift clamp 0 to 6cm pitch of 1cm	2,6	205136
Shift clamp 0 to 20cm pitch of 1cm	3,0	205136
 <i>Pic page 29</i>		
Waling1000	13,2	104652
Waling 600	9,0	103999
 <i>pic page 16</i>		
Floor attachment clamp	0,8	102633
 <i>pic page 29</i>		
Body of waling clamp	0,8	103997
 <i>pic page 16</i>		
Safety post bracket	1,8	205181
 <i>pic page 29</i>		
Upper rod bracket	0,5	104721
 <i>pic page 29</i>		



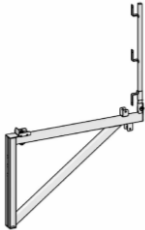
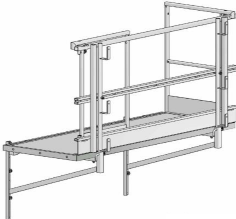
List of accessories

	[Kg]	Article n°
Internal polygon 0125x3000	21,6	100005
Internal polygon 0125x2700	19,4	104688
Internal polygon 0125x1500	10,7	100384
		
<i>Pic page 24</i>		
Adjustable angle 015-0150x3000	62,0	104589
Adjustable angle 015-0150x2700	55,2	104683
Adjustable angle 015-0150x1500	31,2	103730
		
<i>Pic page 25</i>		
External angle 0x0x3000	26,1	104287
External angle 0x0x2700	23,2	104679
External angle 0x0x1500	13,1	101090
		
<i>Pic page 27</i>		
Int. Round corner 300x300x1500 (radius 150)	39,6	209587
		
<i>Pic page 32</i>		
Set of extension sheet spacer	12,1	208897
		
<i>Pic page 32</i>		
Support 1750 Galvanized (Upn de 60)	18,6	103809
		
<i>Pic page 29</i>		
Trestles extension 1390 Form/1 side (Modul ht1500) V/1.50 (with bolts)	53,6	208792
Base Trestles 2450 Form/1 suide (GF ht2750) V/1.50	60,4	208792
		
<i>Pic page 30</i>		

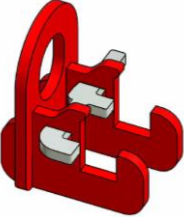

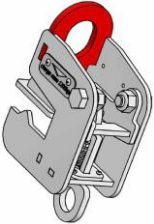
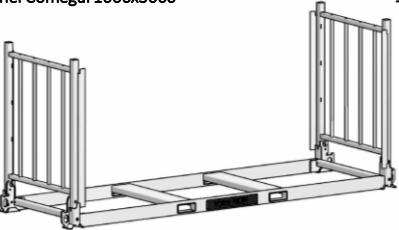

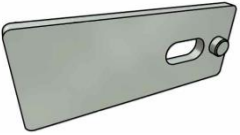

	[Kg]	Article n°
External polygon 0150x3000	22,9	100001
External polygon 0150x2700	20,6	104689
External polygon 0150x1500	11,3	100381
		
<i>Pic page 24</i>		
Internal angle 300x300x3000	36,8	104589
Internal angle 300x300x2700	31,3	104683
Internal angle 300x300x1500	18,8	103730
		
<i>Pic page 27</i>		
Extension sheet 200x3000	33,4	104363
Extension sheet 200x2700	30,0	104680
Extension sheet 200x1500	16,7	102118
		
<i>Pic page 26</i>		
Support bracket U 60 A-CL	0,3	205068
		
<i>Pic page 29</i>		
RAIL Ht3000 Sp-Support trestles (with bolts)	65,1	205068
RAIL Ht1500 Sp-Support Trestles (with bolts)	39,1	208769
		
<i>pic page 30</i>		
Double floor attachment clamp	2,8	209262
		
<i>pic page 30</i>		
Steel stake A60 Ø30 Lg 1m	5,3	205673
		
<i>Pic page 30</i>		
Reinforcement beam for large panel	59,5	207668
		
<i>Pic page 13</i>		

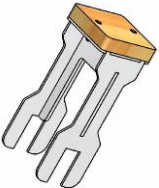
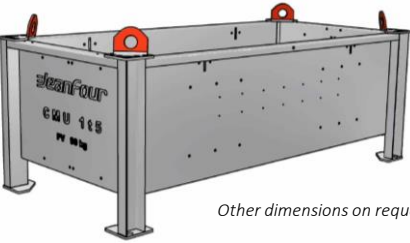



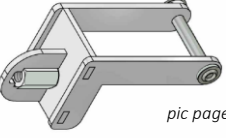
List of accessories

	[Kg]	Articlen°
Safety bracket V18 (with post)	10,5	209212
 <i>Pic page 22</i>		
Handrail 1250 V18 (with bolts)	9,6	209258
 <i>Pic page 29</i>		
Hammer head bolt Ø16x040	0,18	200712
Hammer head bolt Ø16x060	0,21	200713
		




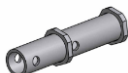






	[Kg]	Articlen°
Gate GF with bolts	7,9	102202
 <i>Pic page 29</i>		
Platform floor 1250 V18 (with bolts)	22,0	209254
 <i>Pic page 29</i>		
Panel break P119 reinforced – Adjustable end stop post	40,3	203324
 <i>Pic page 29</i>		
Platform large size panel	108,0	
Platform with hatch and ladder	139,5	
		







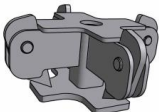


List of accessories

	[Kg]	Articlen°
Pallet ring A-CL  <i>Pic page 20</i>	1,2	204937
Foot jack Modacier (ht080) (with bolt) 	8,9	209145
Lifting ring A-CL-RES  <i>Pic page 20</i>	3,4	204790
Panel comegal 1000x1500 Panel Comegal 1000x2700 Panel Comegal 1000x3000  <i>Height of 2 container : 2680mm</i>	106,8 118,1 126,7	205767 206008 205766
Nut artéon 6P Ø17X25 zinc plated 	0,1	100828
Counter plate  <i>Pic page 17</i>	0,9	101107
Plastic cap 	0,004	105142

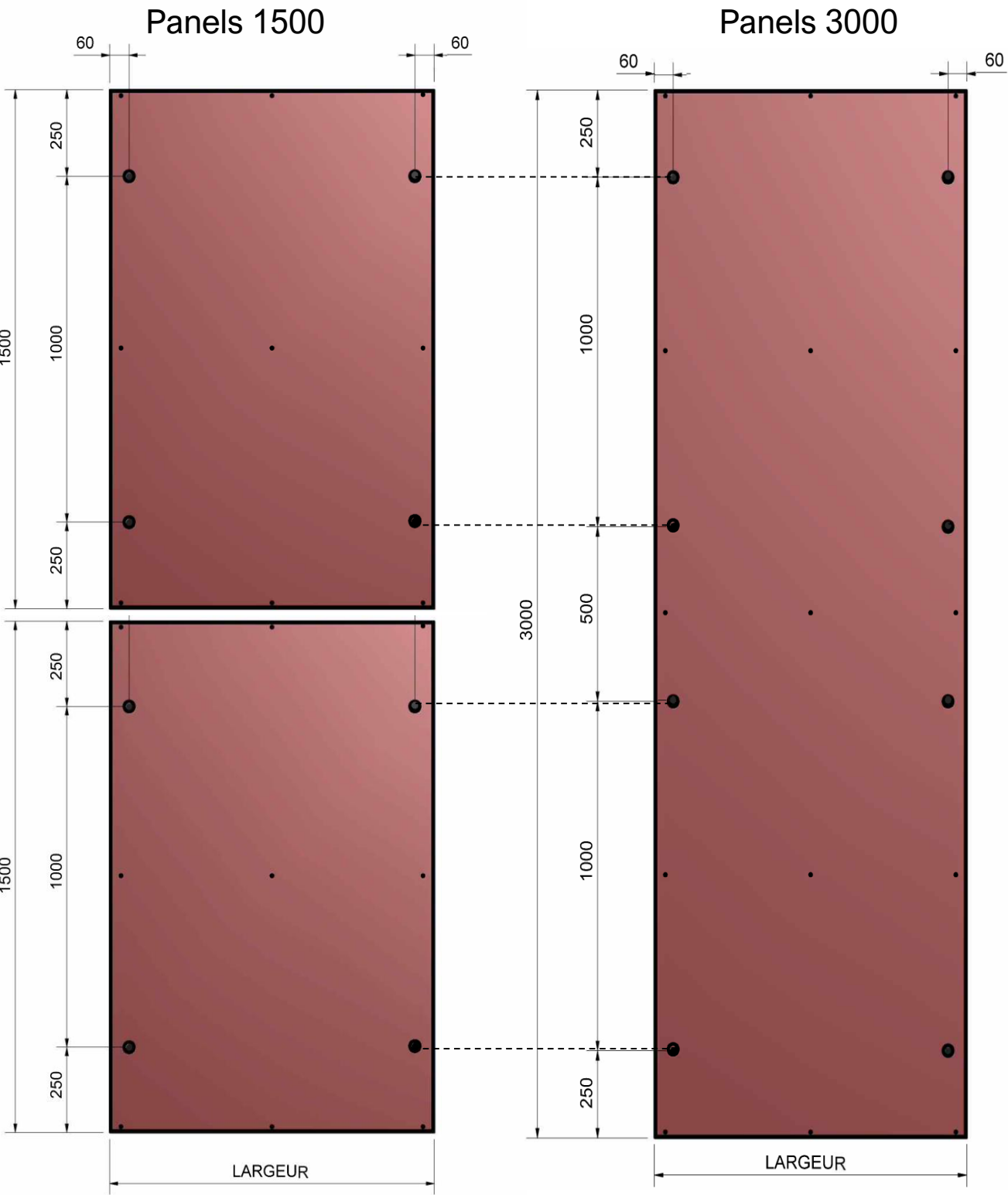
	[Kg]	Articlen°
Transport buffer (ht100) Gf-Modacier 	4,2	209007
Container Comegal 0700x1545x0475  <i>Other dimensions on request</i>	79	200680
Wing nut 3L VM3.65 Ø17 	0,6	100117
Wing nut arteon 2L Ø17 bichromaté 	0,3	104374
Wing nut arteon 3L Ø17 base 110 zinc plated 	0,9	105155
Counter plate for 1 side tightening  <i>pic page 38</i>	1,3	xxxx

List of accessories

	[Kg]	Article n°
Fixed prop (tube Ø40/49 Lg 0974)	3,2	104976
Fixed prop (tube Ø40/49 Lg 1195)	4,3	101605
		
Foot plate with axle included	3,8	102989
		
Axle Ø14 x 85 bent 100°	0,2	100029
Axle Ø14 x 70 PM (angle 90°)	0,2	100038
		
S/E prop reducer 400/700	1,5	101340
		
Prop reducer 400/700 PM	1,3	101342
		
Axle Ø24 Lg 0160	0,6	101751
Axle Ø16 Lg 0070	0,1	102779
Axle Ø24 Lg 0163 (prop 6-10m)	0,6	103045
		
Prop RAS-TP 400/705 Galva With reducer	48,0	102080
		
S/E Ext. Tube Ø57x1650 prop (1800-2840)	7,3	102783
S/E Ext. Tube .Ø101.6x4.0x5600 (prop 6 – 10m)	53,9	103038
		
S/E int. Tube Ø48.3x650 prop (1800-2840)	5,0	102784
S/E int. Tube Ø48.3x1050 (prop 1800-2840)	6,0	102785
S/E int. Tube Ø88.9x3.0x2900 prop 6-10m	18,8	102784
S/E int. Tube Ø88.9x3.0x2900 G prop 6-10m	18,8	103031
		
Mounting lever for prop 6-10m	2,3	103048
		

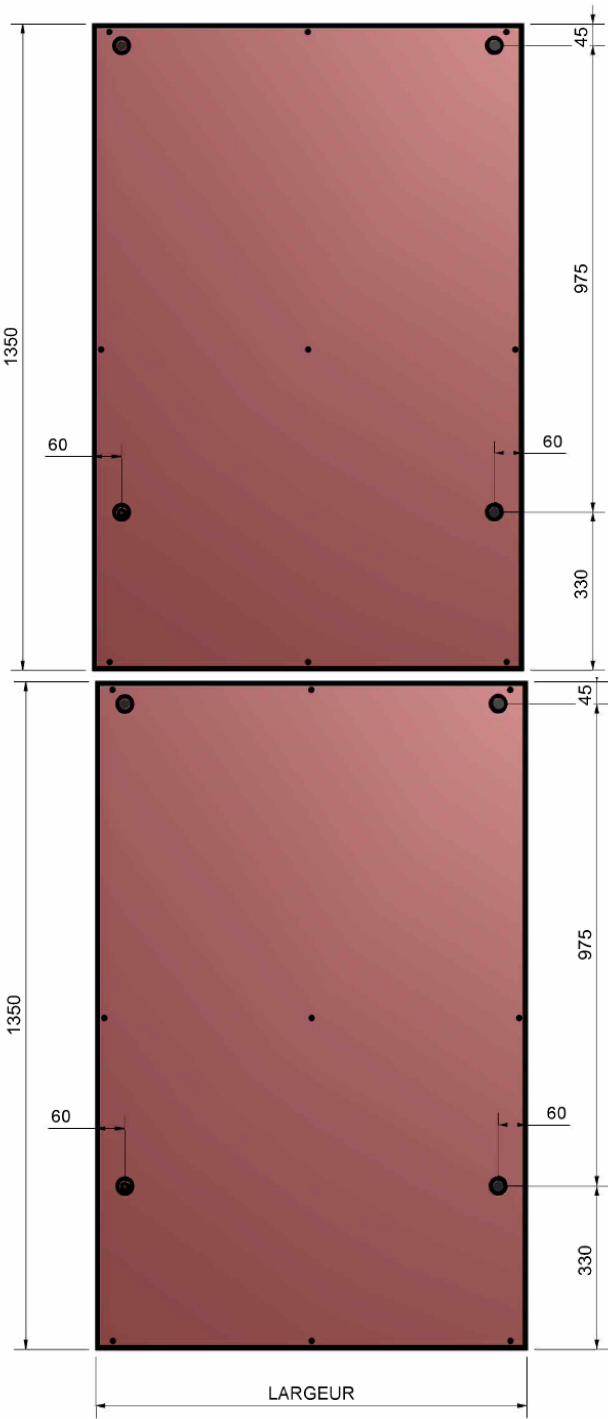
	[Kg]	Article n°
Prop TPE 290x500 Galva Buckle integrated	23,2	103852
Prop RASTPE 290x500 with reducer	25,4	
Prop TPE 220x400 Galva Buckle integrated	20,2	
Prop TPE 170x300 Galva Buckle integrated	16,1	
Prop TPE 100x175 Galva Buckle integrated	11,0	
		
Prop clamp	1,5	101111
S/E Articulated prop clamp (without axle)	1,8	103827
		
<i>Pic page 19</i>		
Prop attachment Lg.190 (with axle)	1,7	104907
		
S/E screw Ø45 right (prop 6-10m)	3,6	103032
S/E screw Ø45 left (prop 6-10m)	3,6	103033
		
Bracing prop180/300	15,1	101333
		
Prop reducer set 400/700	3,2	101341
		
Spider (4 heads) With drilled plate	3,9	101614
		
Extenser tube 5M for prop 6-10M	65,3	101749
		
Prop with screw 1800-2840 Euro	19,0	102780
Prop with screw (prop 6-10m Euro)	100,0	103034
		

POSITION OF THE TIGHTENING RODS

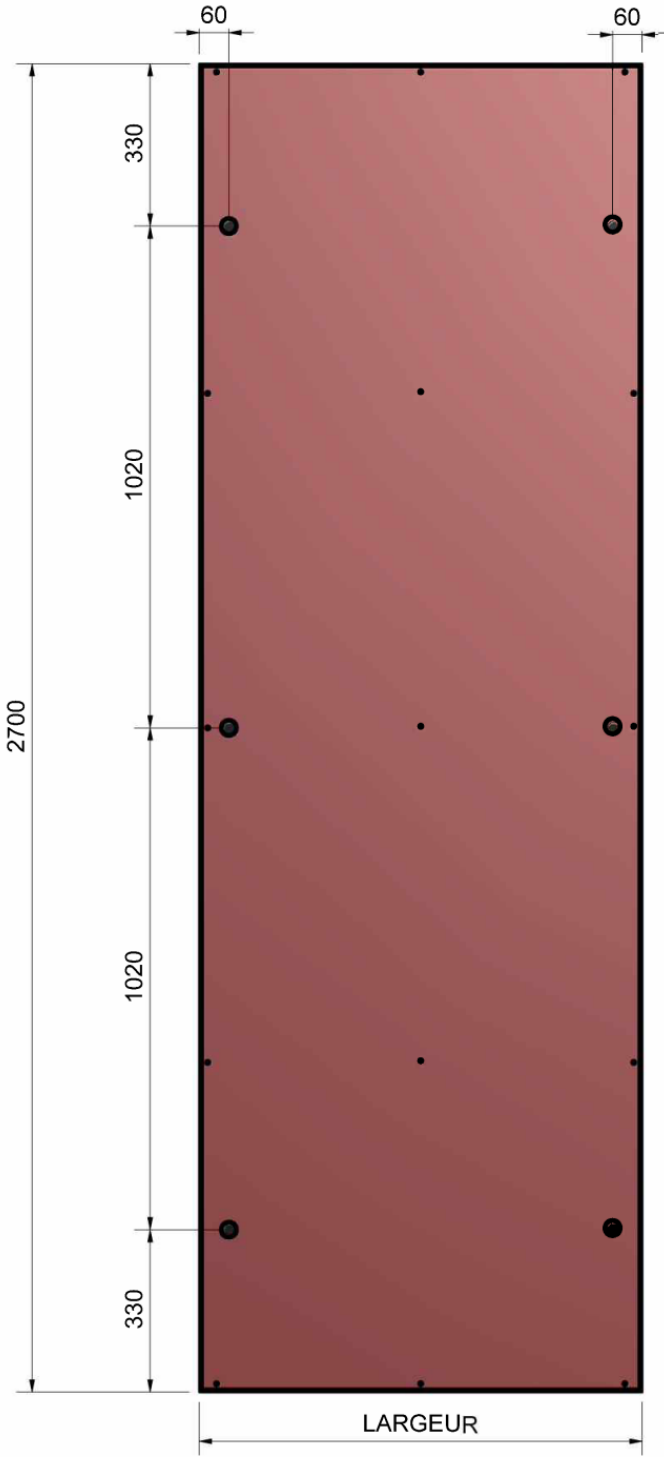


POSITION OF THE TIGHTENING RODS

Panels 1350



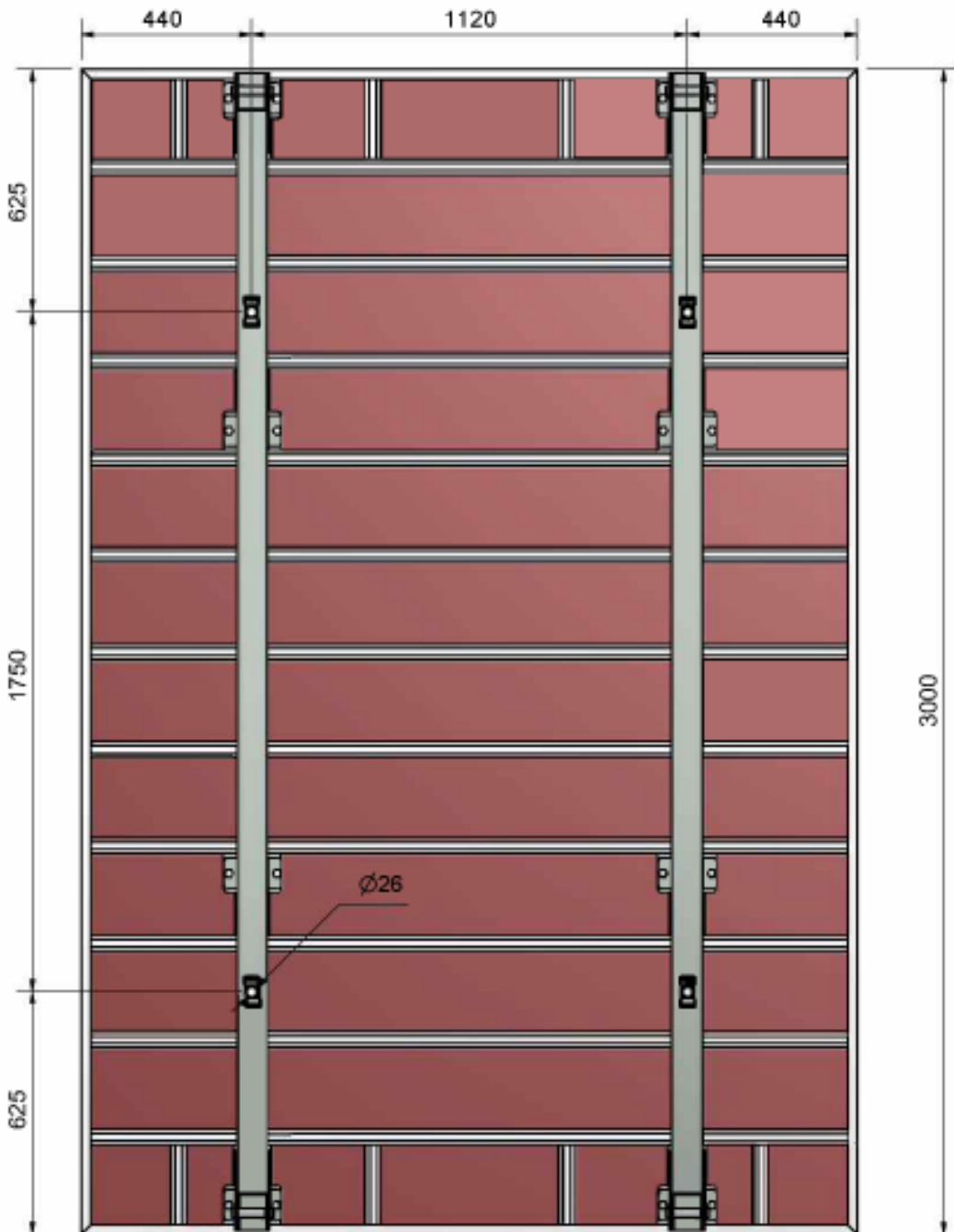
Panels 2700



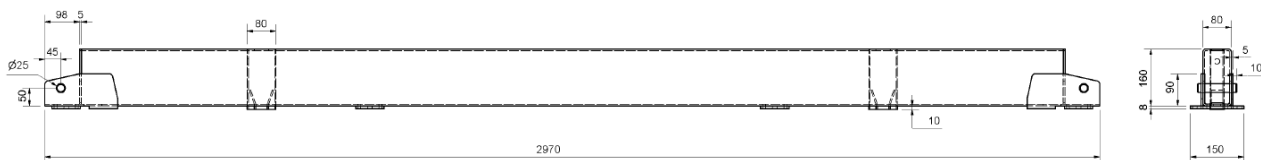
POSITION OF THE TIGHTENING RODS

Large panels 2000x3000

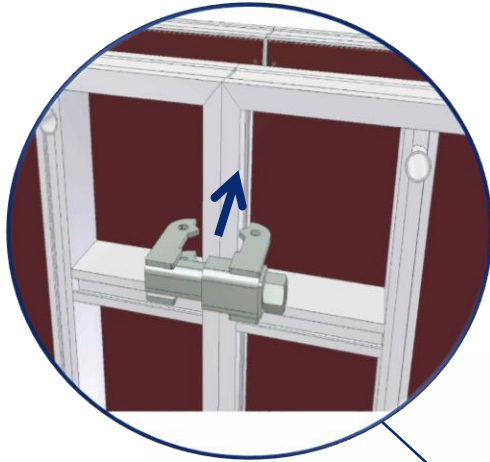
Possibility to work with rod Ø23mm for more resistance



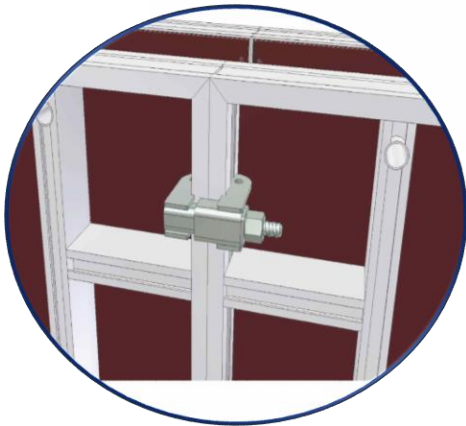
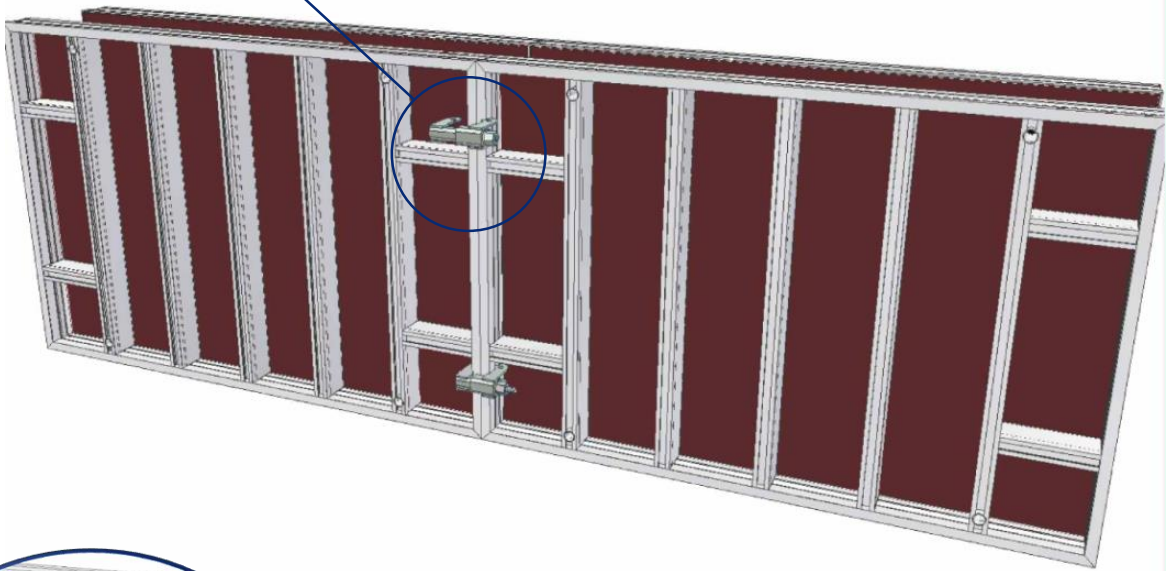
dimensions of the beam



Mounting of the assembly clamps

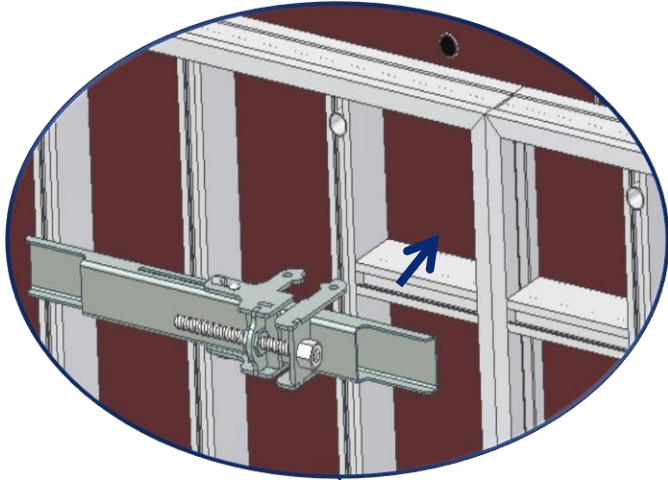


When the panels are in place and aligned, install the assembly pliers and tighten the nut with the key 30

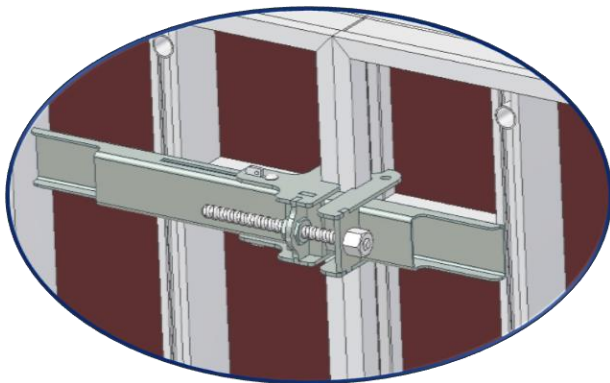
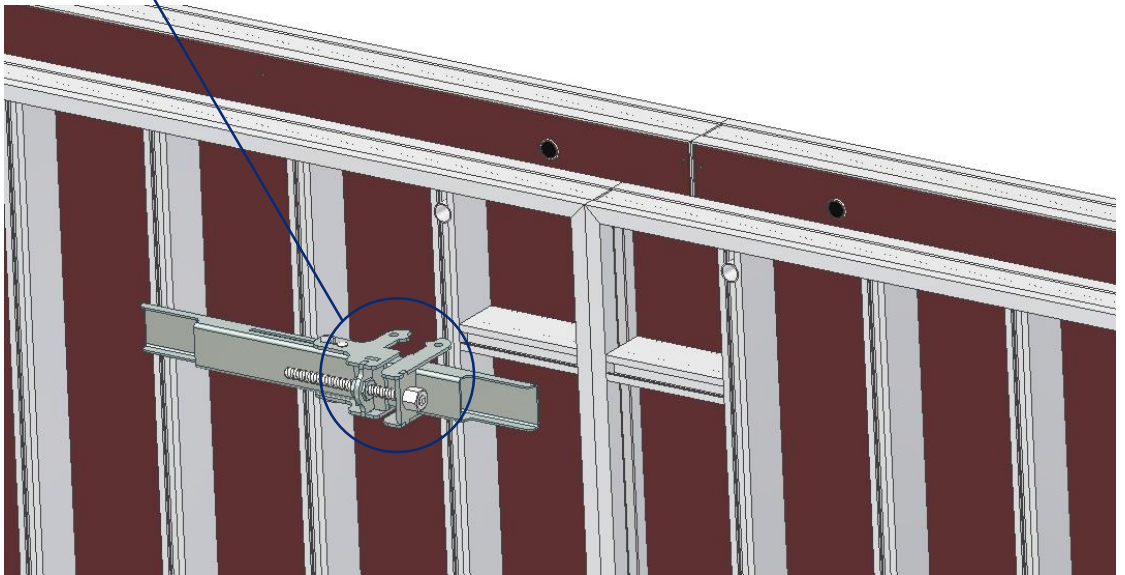


IMPORTANT : The assembly pliers can accept compensation of 3cm maximum thickness.

Mounting of the alignment clamp



In case you need a reinforcement or an extension install the alignment clamp.

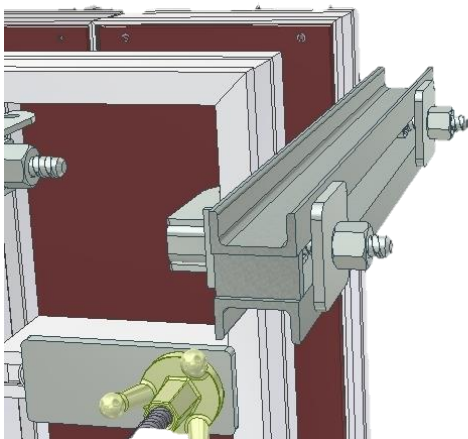
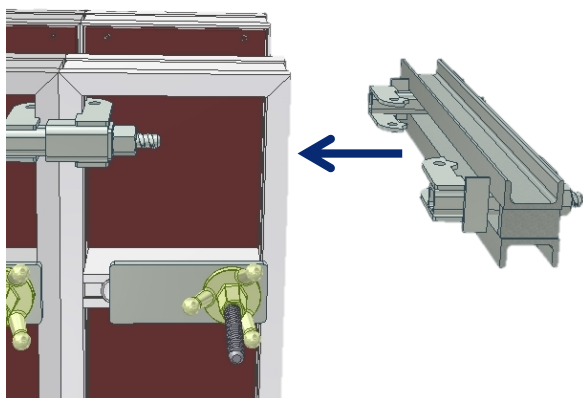


IMPORTANT :

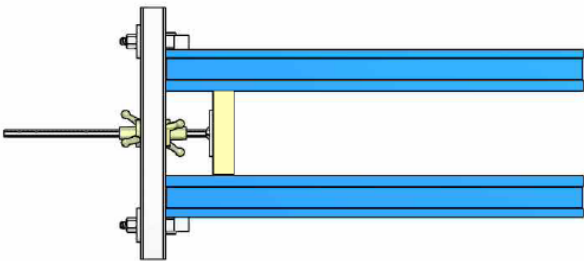
The alignment clamps can accept compensations maximum thickness of 10cm.

Mouting of the waling set

When the panels are in place and aligned, remove the 2 clamps outwards of all Spacer, set up by plating all the spacer on the profile of the panels and then put up a clamp and then the other and blocking at the desired height.



Height of the panel	Quantity of waling
250	1
500	2
750	2
1000	2
1500	2
2700	3
3000	4



Adjustable version

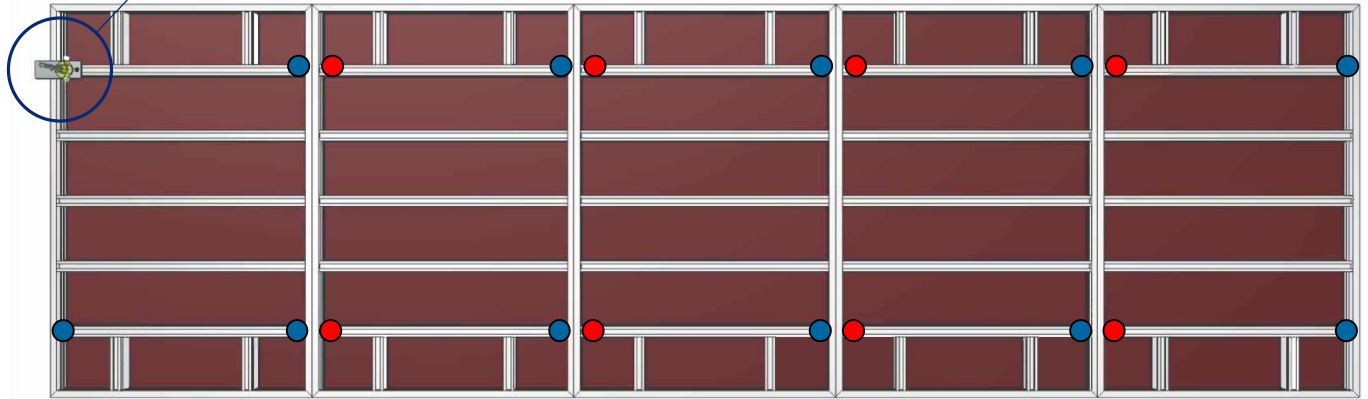
Tightening detail of the panels

1) Standing panels

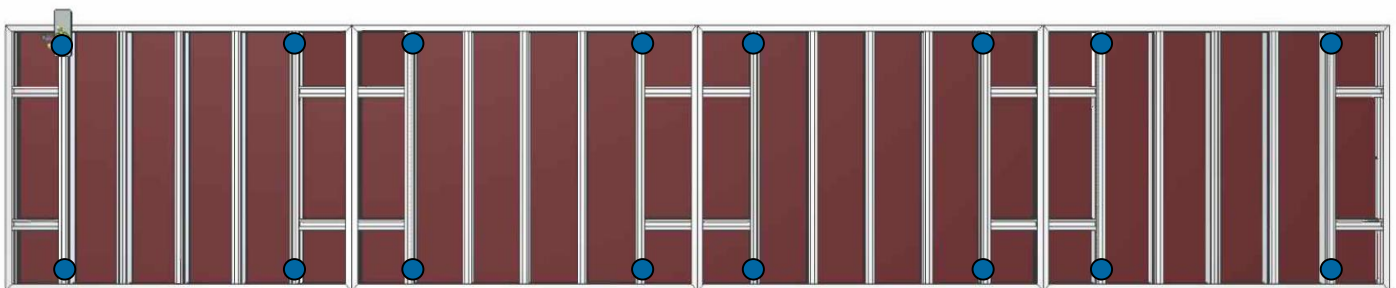
Example with panels 1500mm



Screw the two wing nuts. Carefully check the holes without rods include plugs on the forming face side.



2) Laying panels

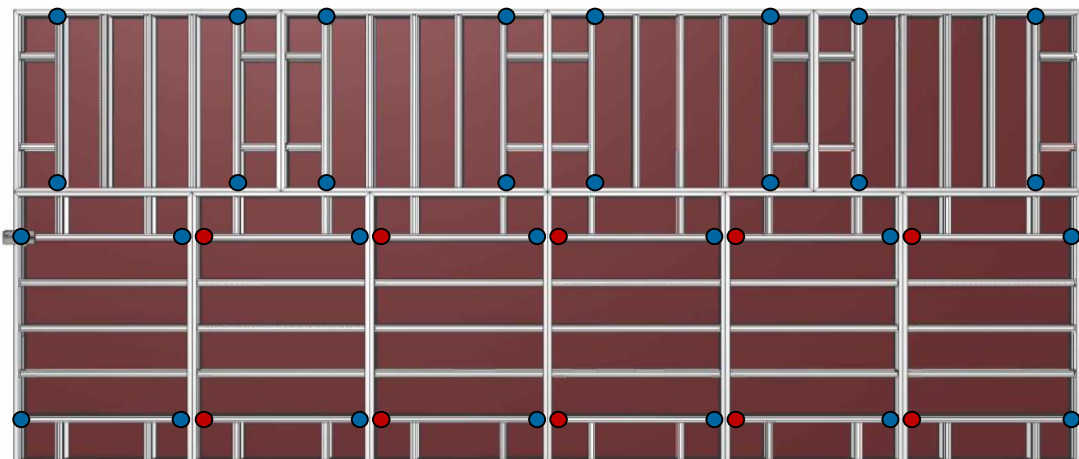
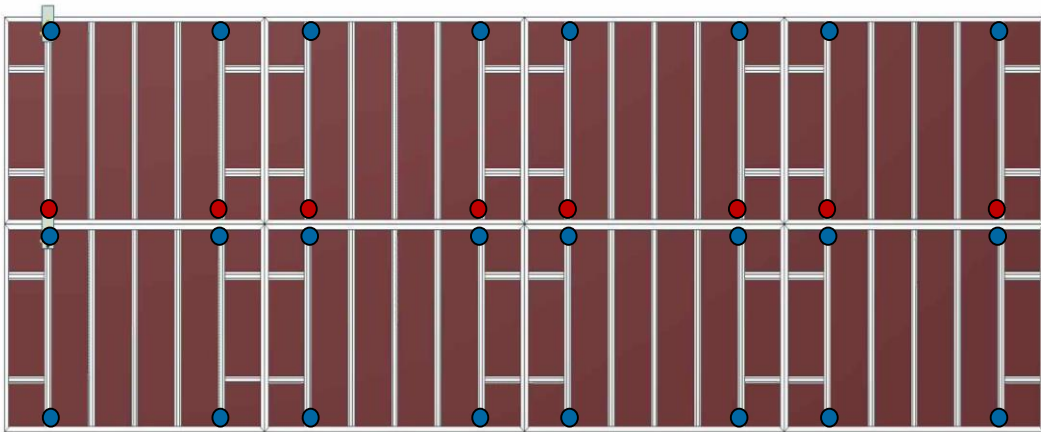
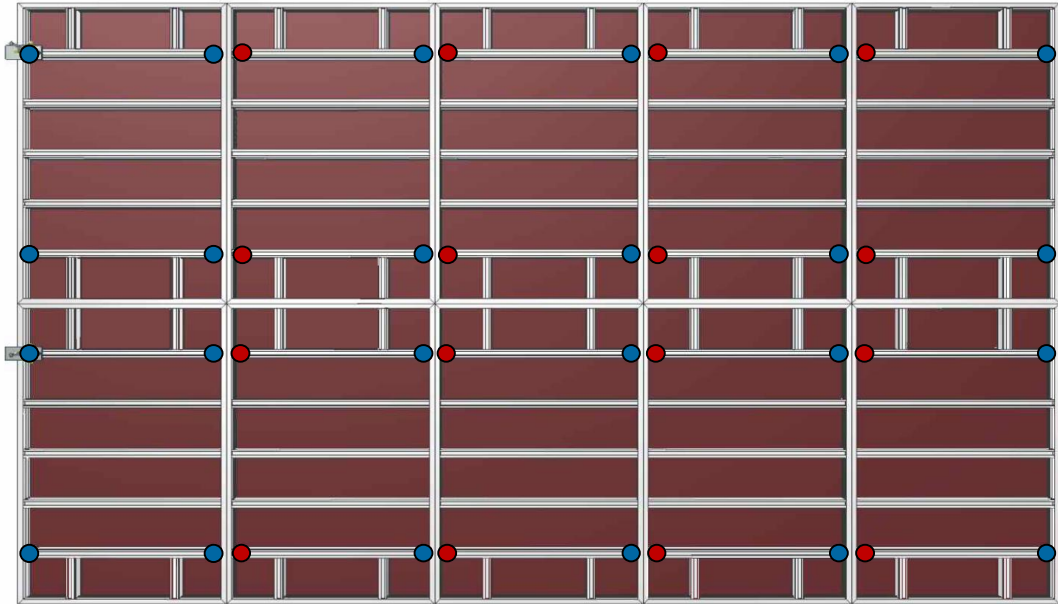


- Tightening rod
- No tightening rod

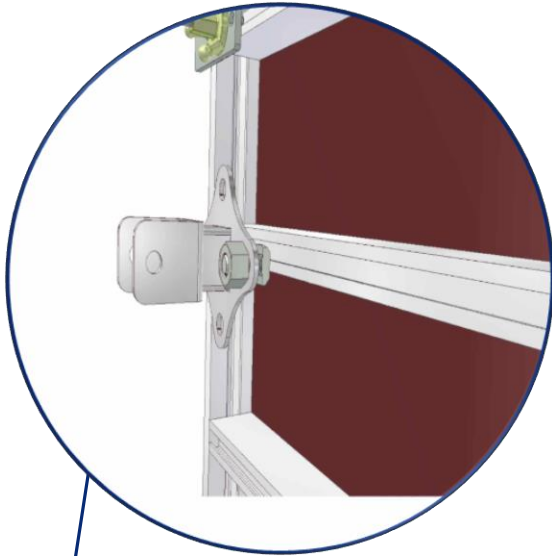
Tightening detail of the panels

3) Superposition

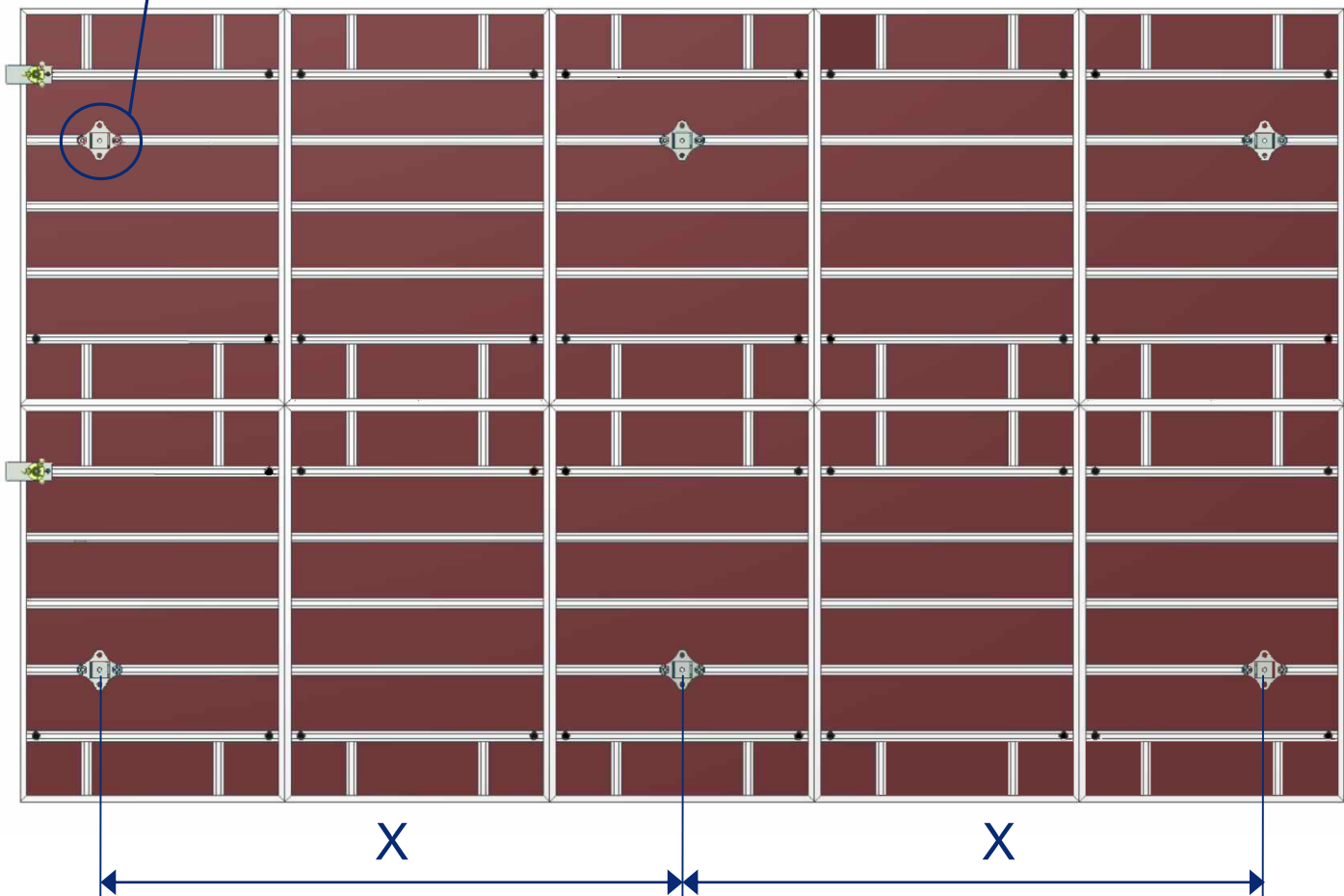
Example with panels 1500mm



Mouting of the prop clamp

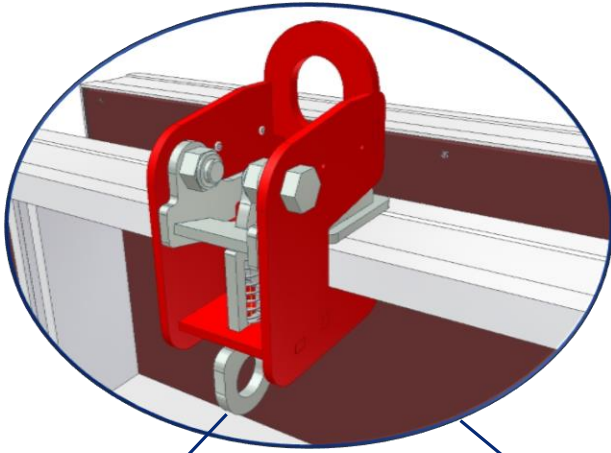


Slide the screws T in the groove of the panel, turn of $\frac{1}{4}$ turn to stop the screws and then screw the nuts using the wrench 30 to block the prop clamp.



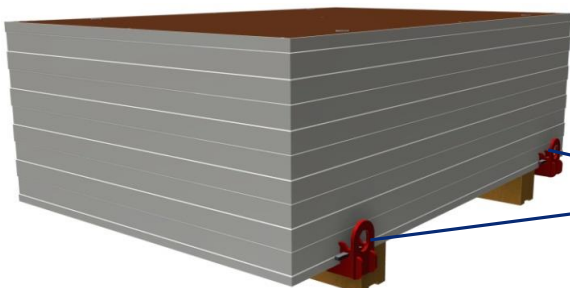
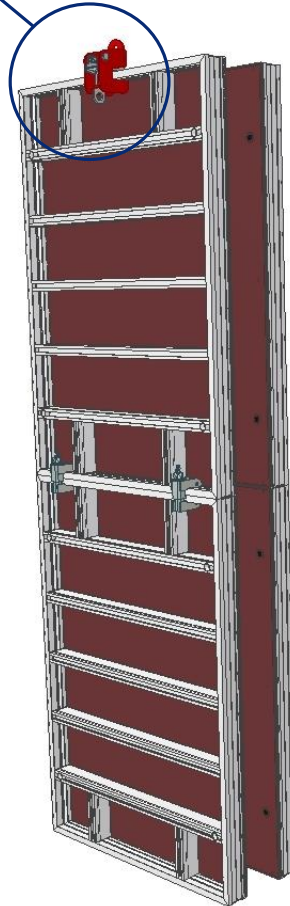
2 meters \leq X \leq 3 meters

Mouting of the lifting ring



To mount the lifting system, pull the tab to unlock it, install and release the tab.

Tab



Pallet rings

Lifting instructions

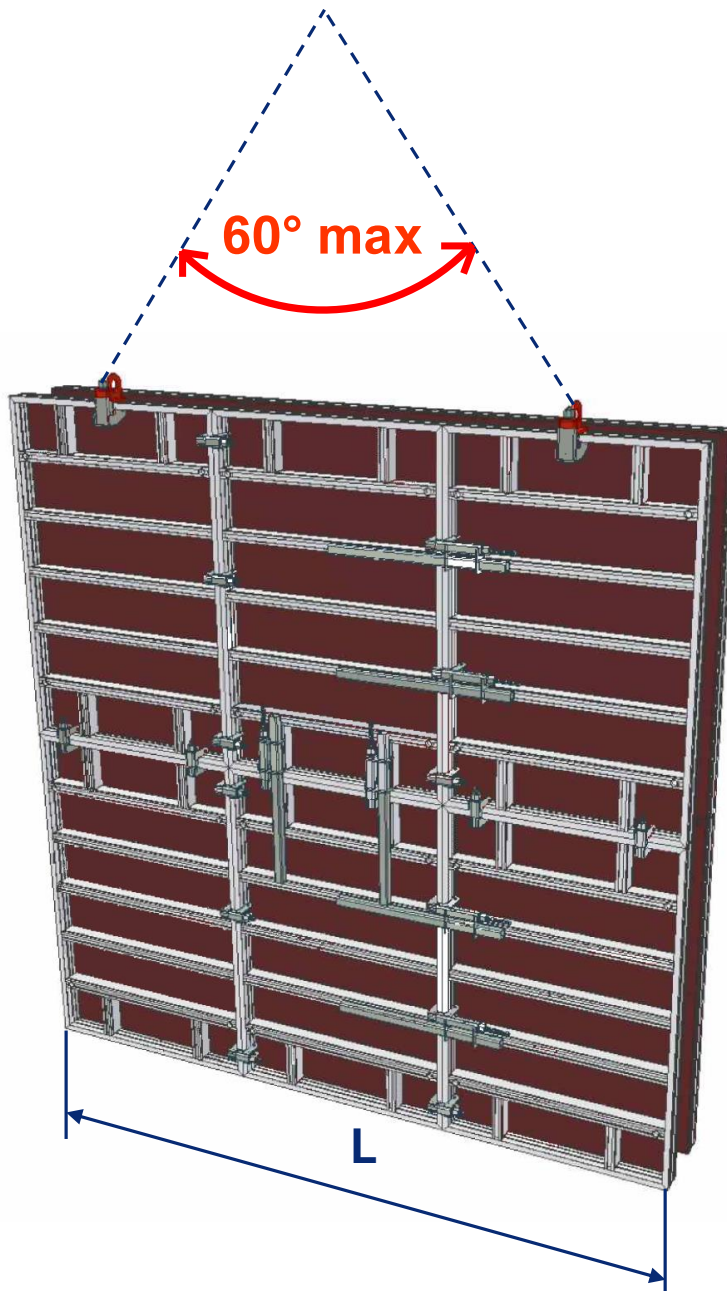


While complying with Modalu pliers assembly instructions.

Lifting of 2 strands balanced with 2 lifting rings.

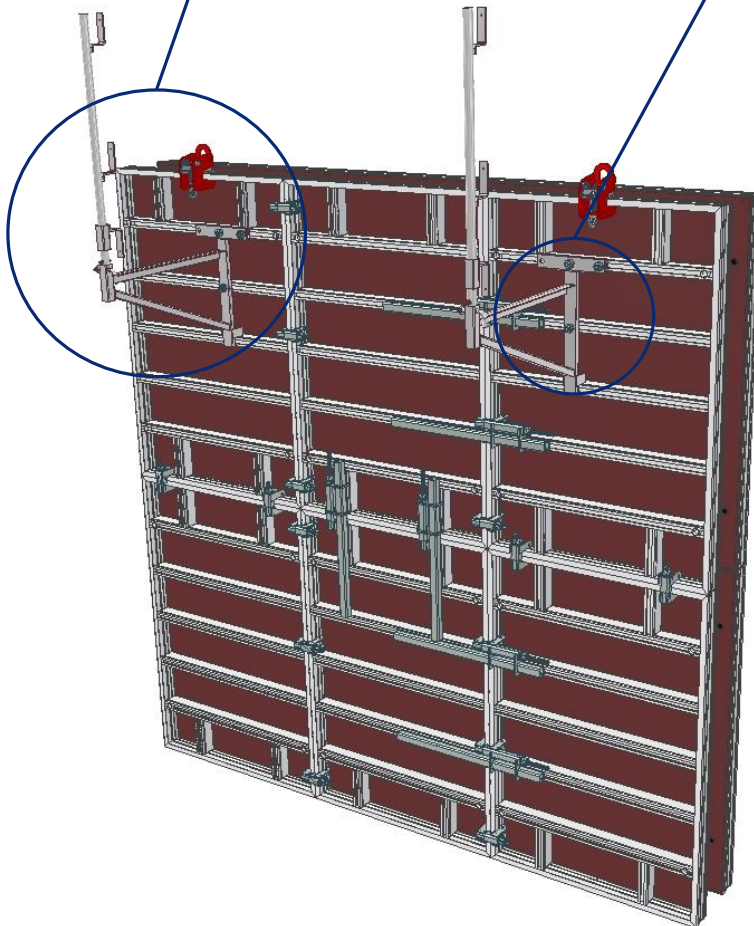
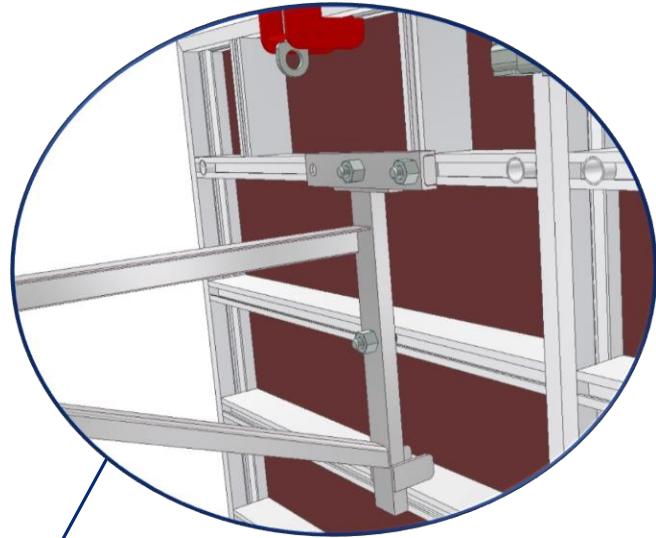
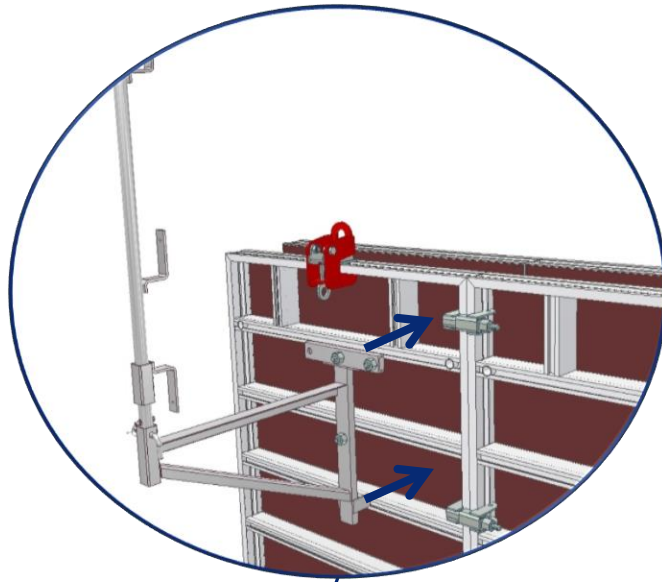
Liftable maximum area = 16m^2 with L max = 5 meters

Maximum weight = 400 kg.



Mounting of the safety bracket

Fixing details



Slide the T screws in the groove of the panel, turn to $\frac{1}{4}$ turn to the right and tighten the nuts using the wrench 30

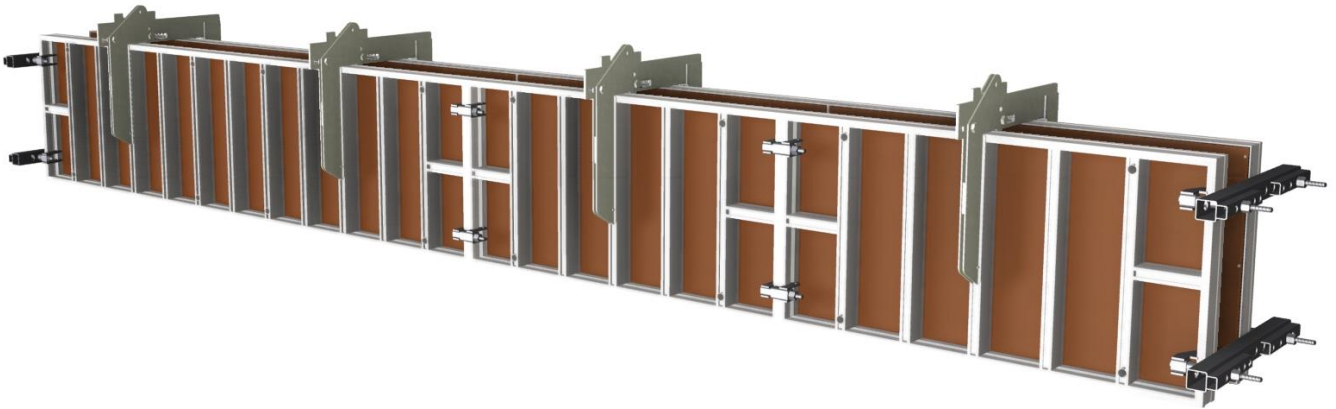
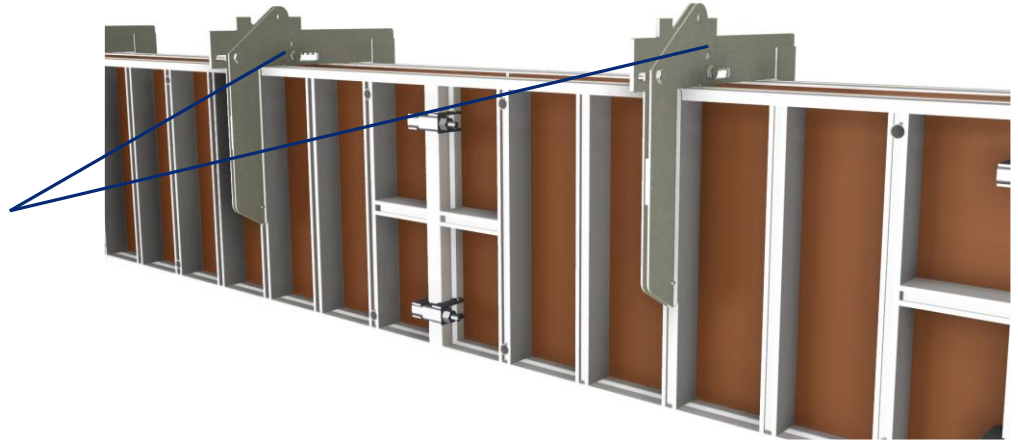


No more than 2 meters between 2 security



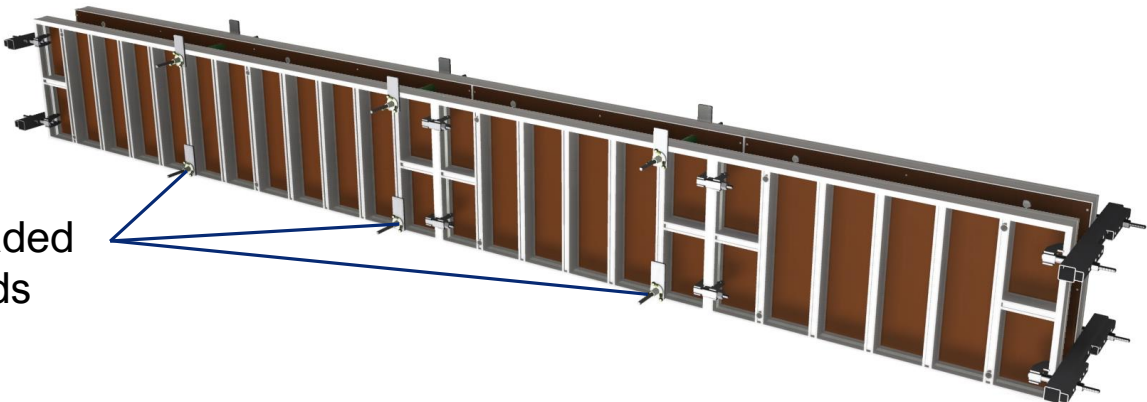
Formwork configuration stringers

Stringer
spacers



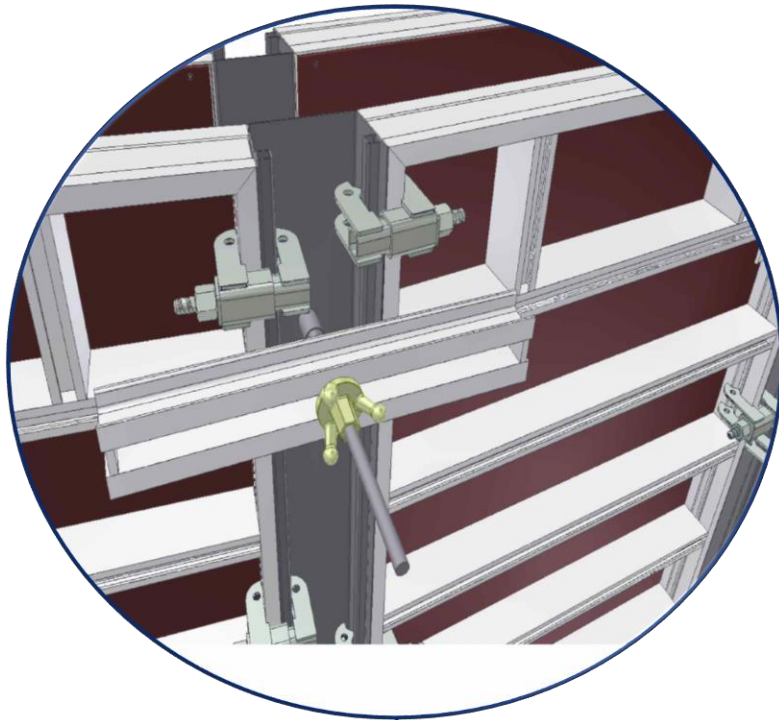
Install the spacers in the middle of the panels 1.5m long and evenly distribute 2 spacers on the panels 3m long. Available on panels from 0,5m to 1m.

Threaded
Rods

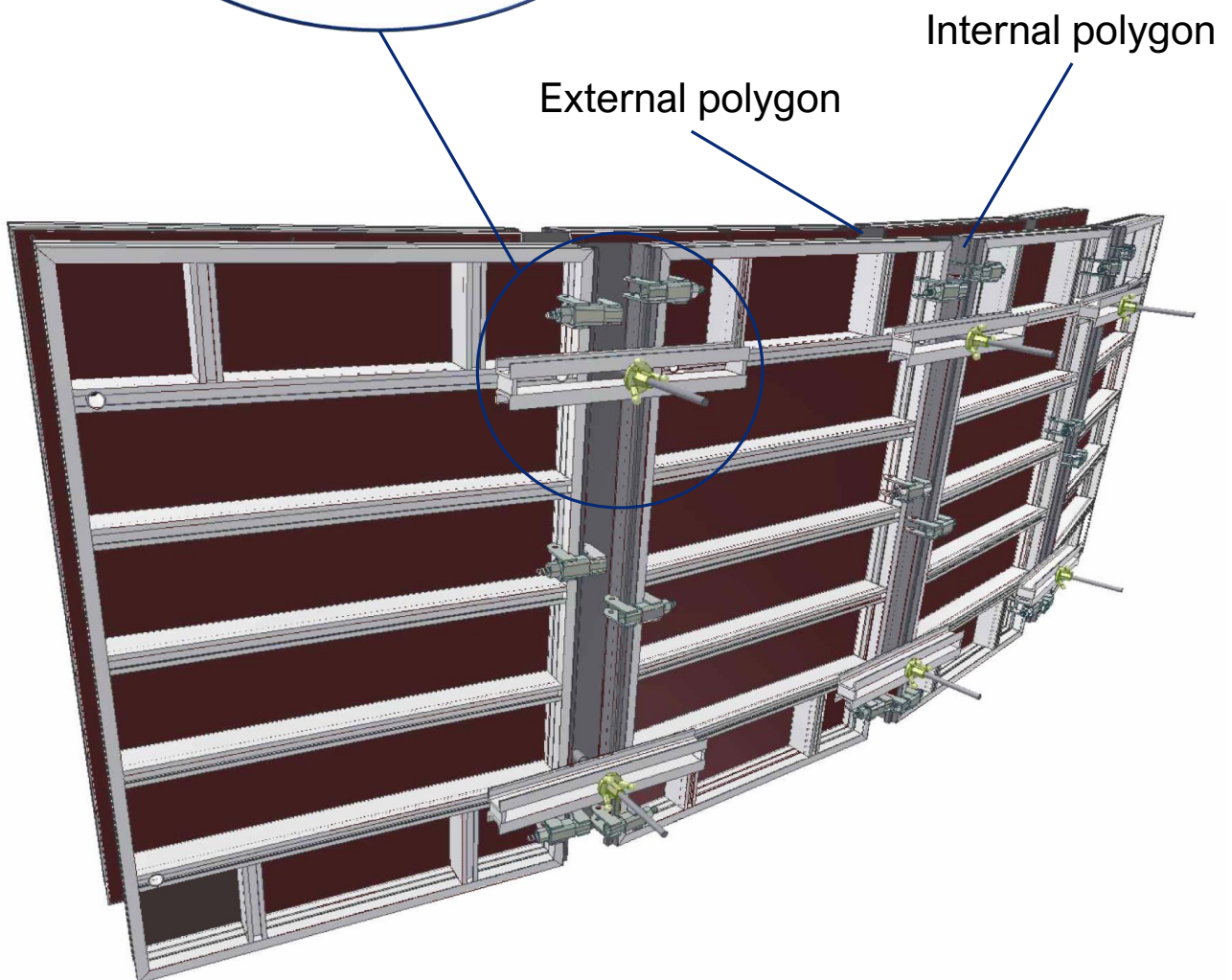


Sill configuration through pins positioned all around 1500mm.

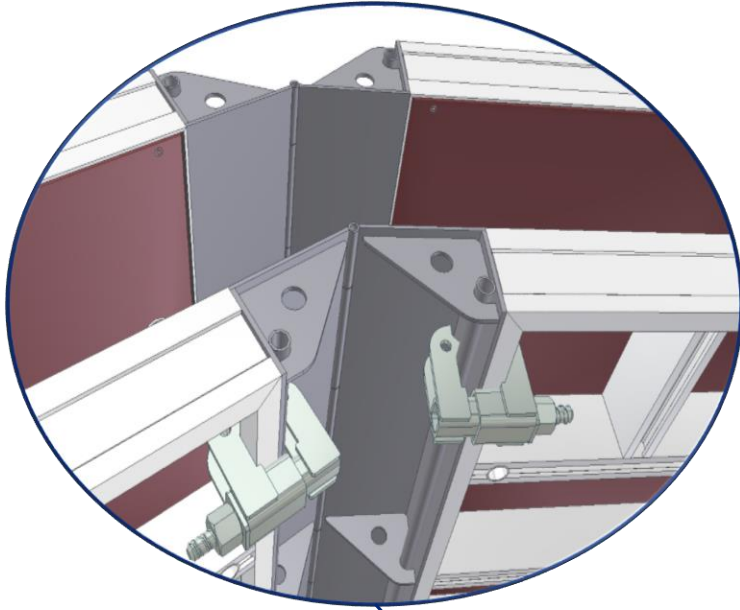
Mounting of polygons



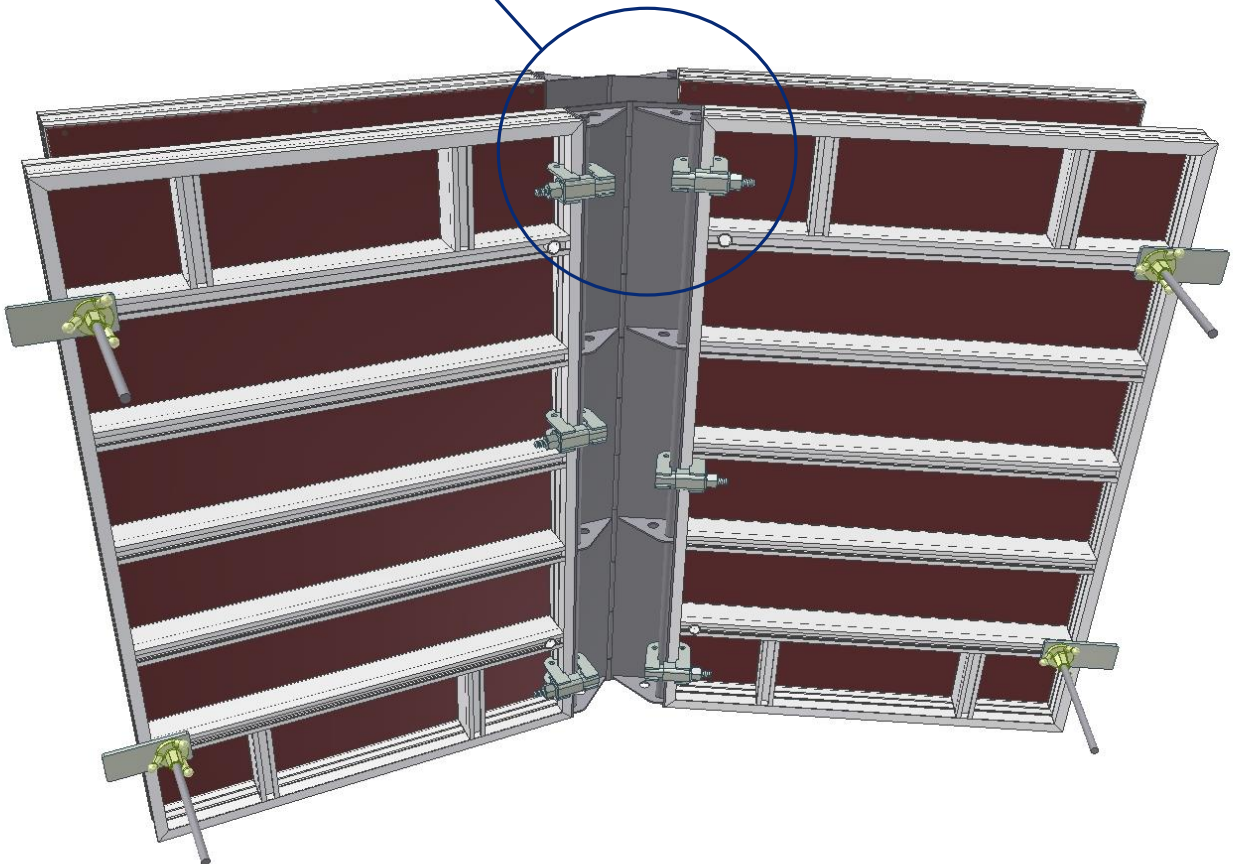
Detailed installation
of the polygons



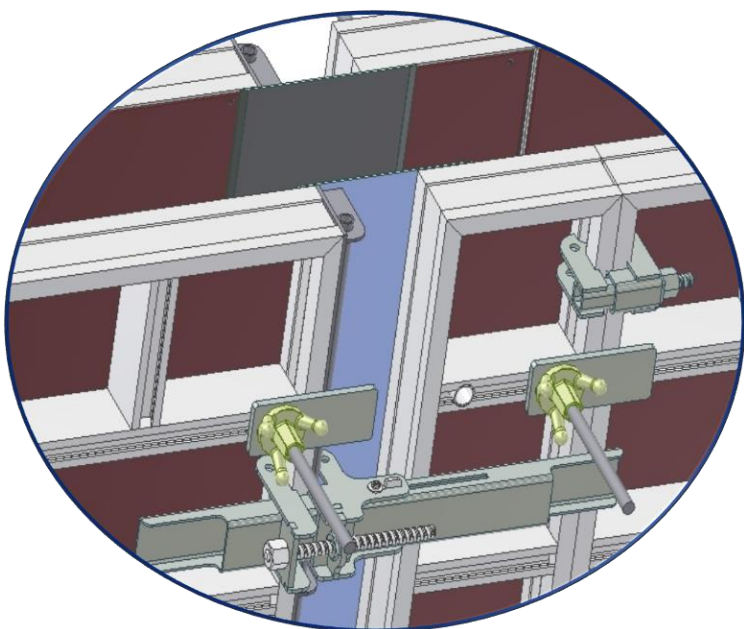
Mouting of the Adjustable angle



Detailed installation of the adjustable angle

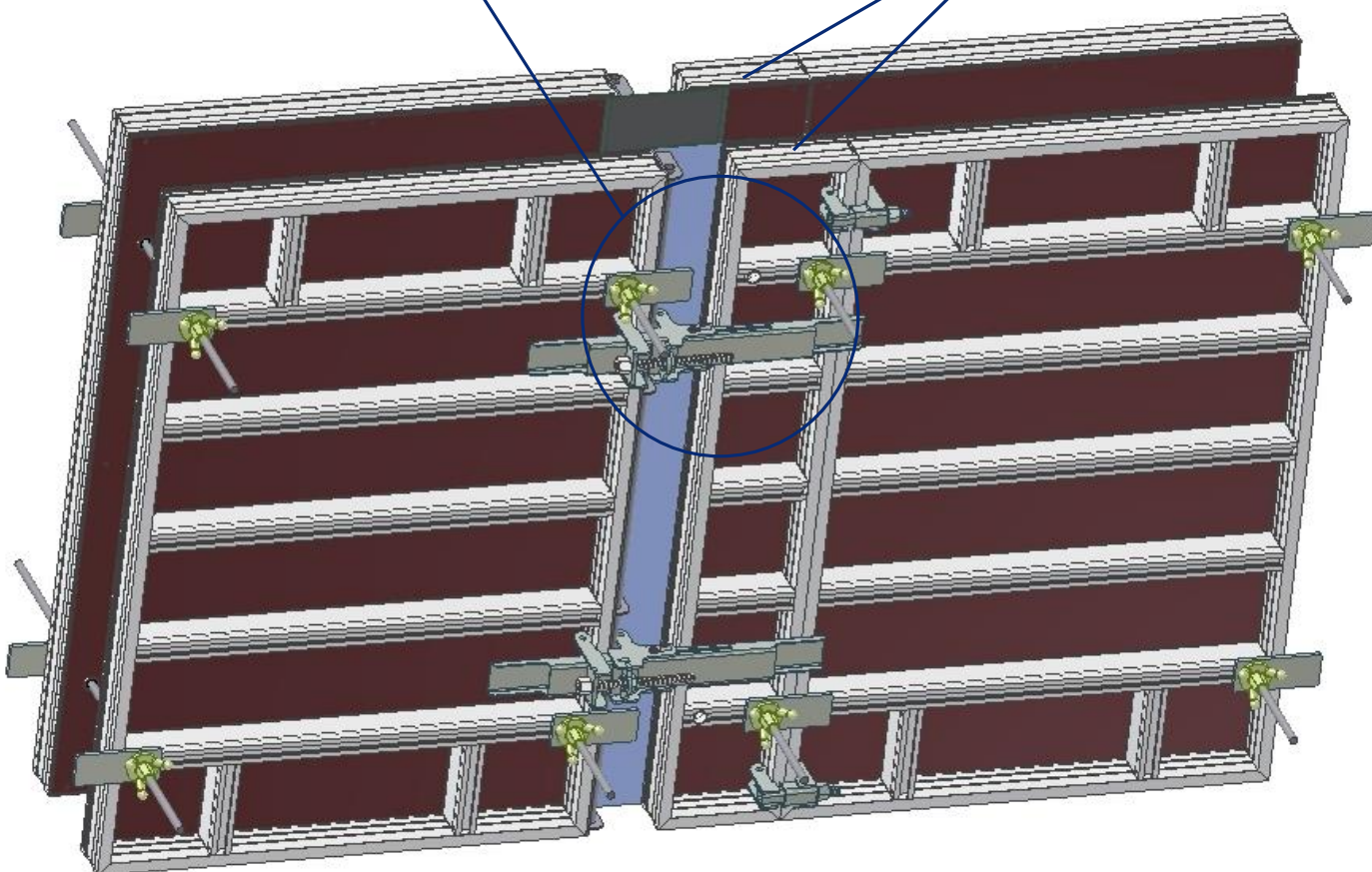


Mouting of the extension sheets

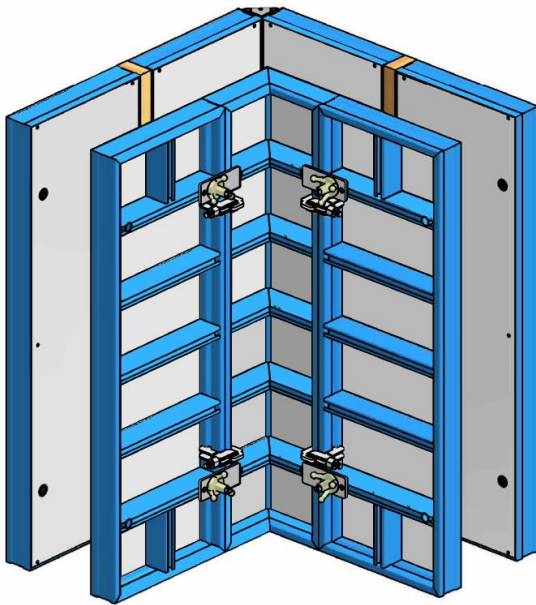


Detailed installation of extension sheet

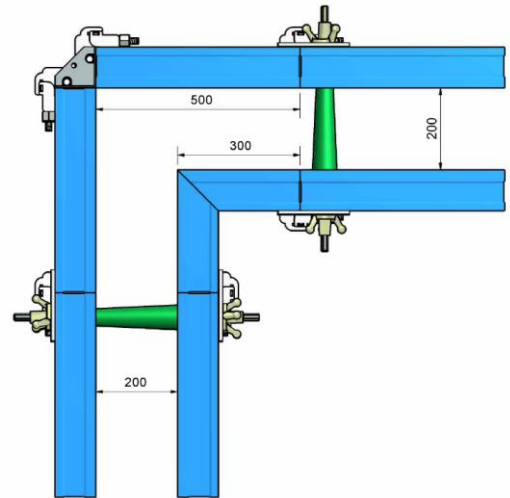
250 mm panels



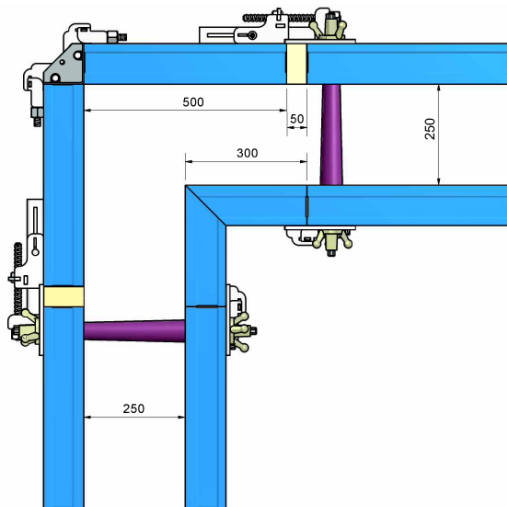
Use of the angle 90°



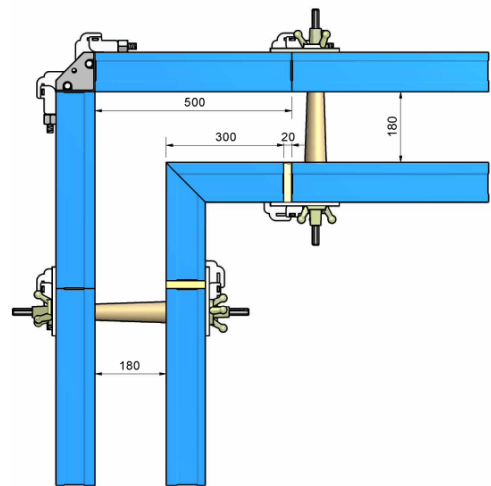
Voile épaisseur 200



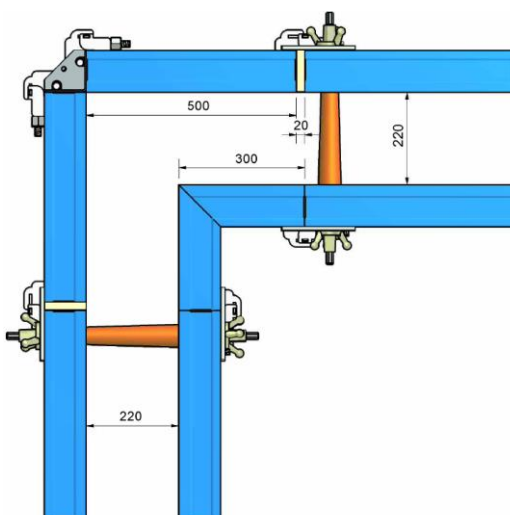
Voile épaisseur 250



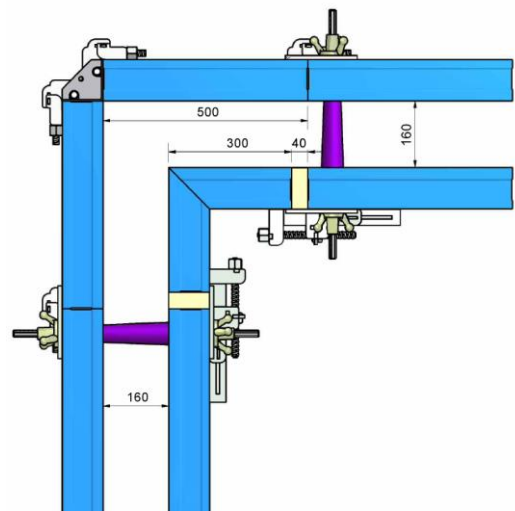
Voile épaisseur 180



Voile épaisseur 220

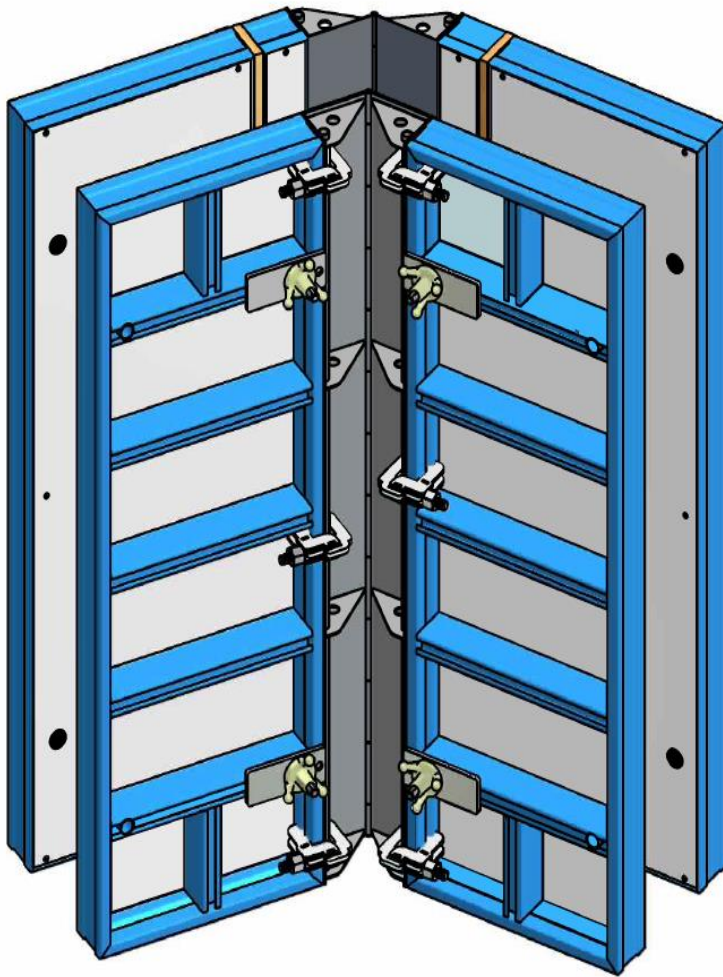


Voile épaisseur 160

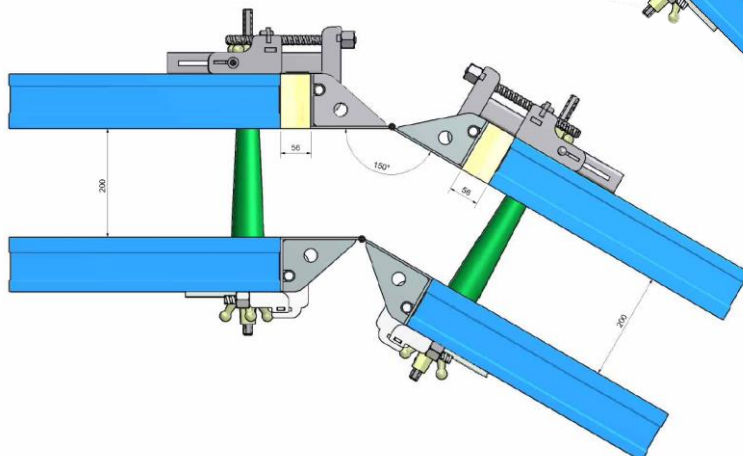
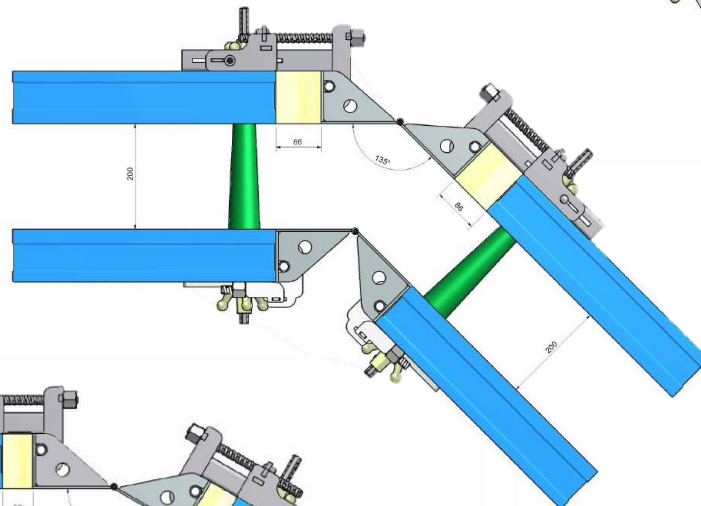
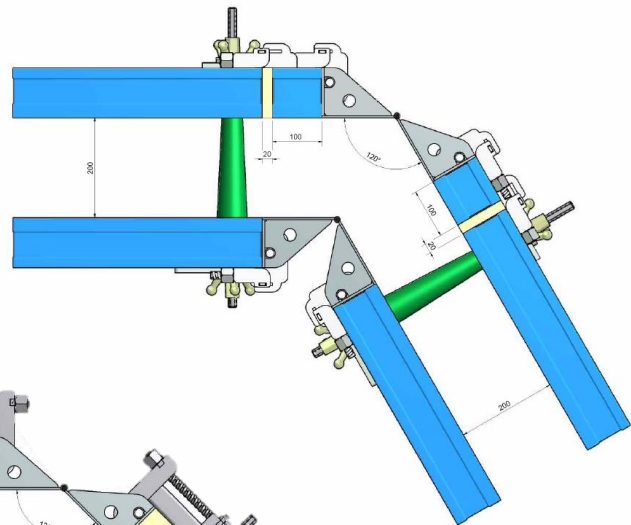


Autres épaisseurs possibles

Use of the adjustable angle

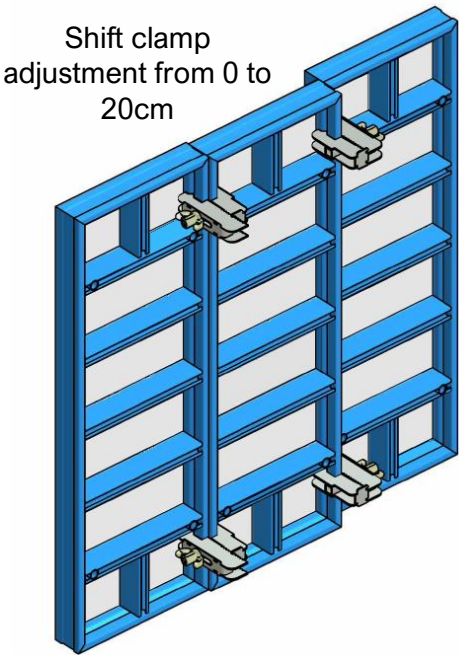


Wall thickness 200

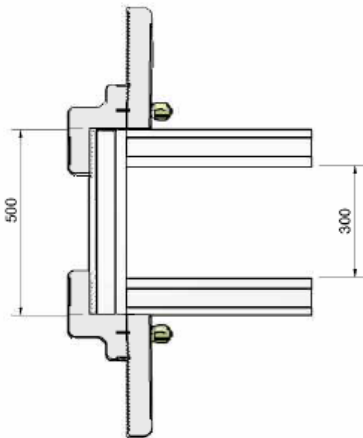
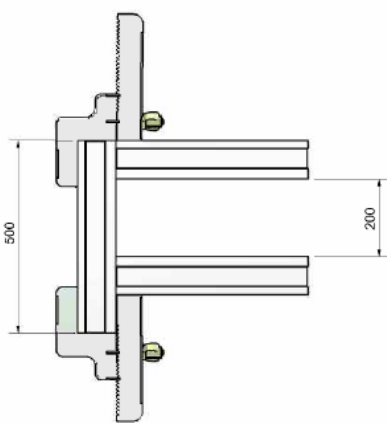
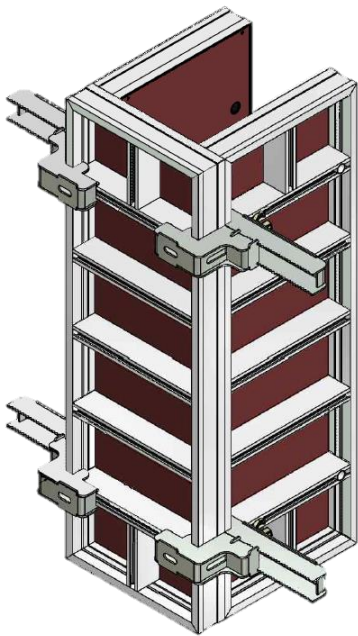
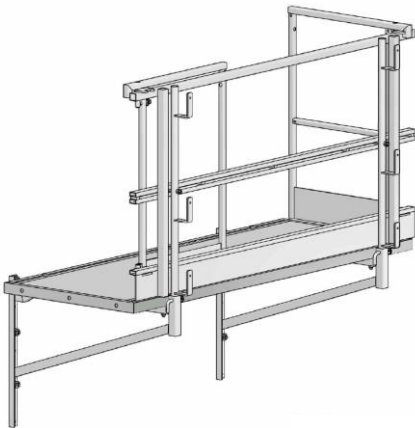


Autres épaisseurs possibles

Example of use of the accessories

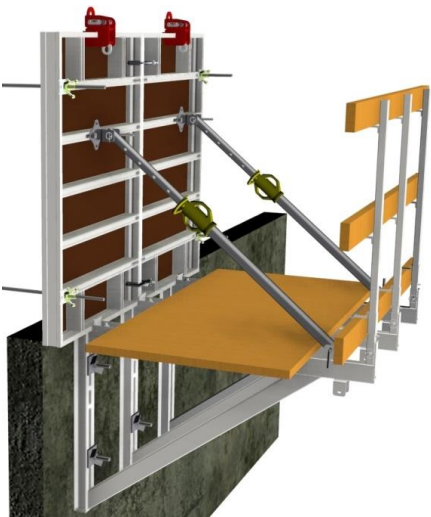
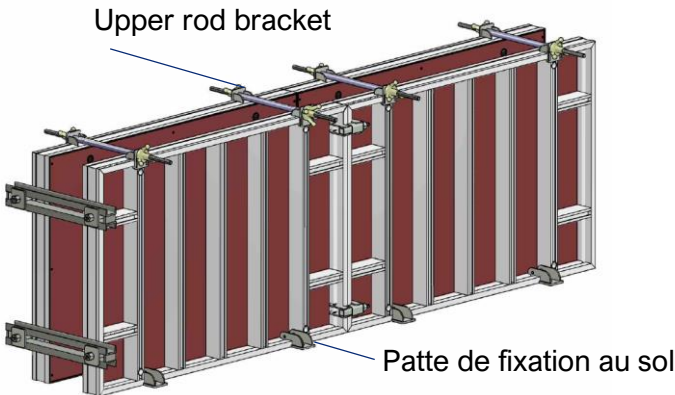


Complete platform including : gate,
floor and bracket.
Suitable with modular panels

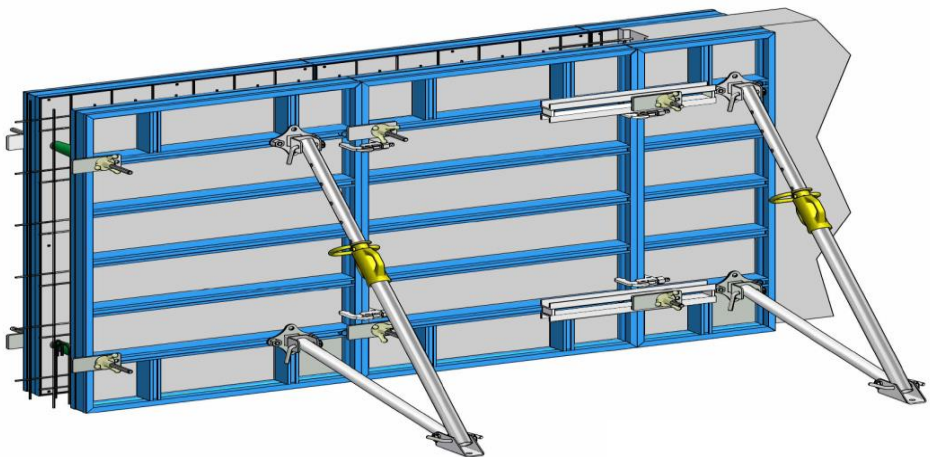
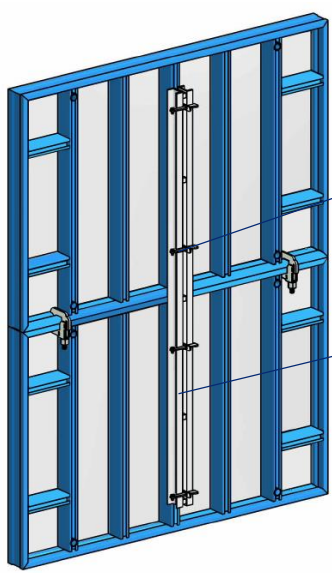
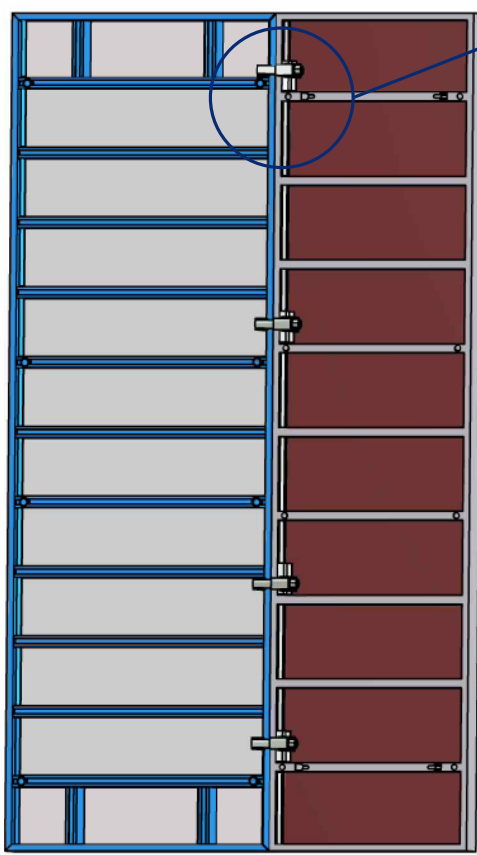
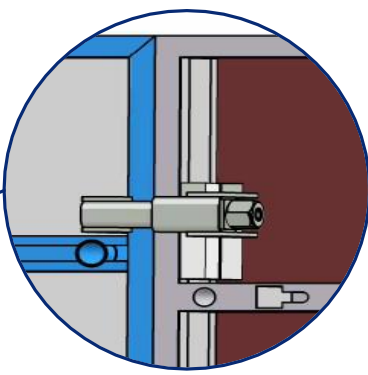
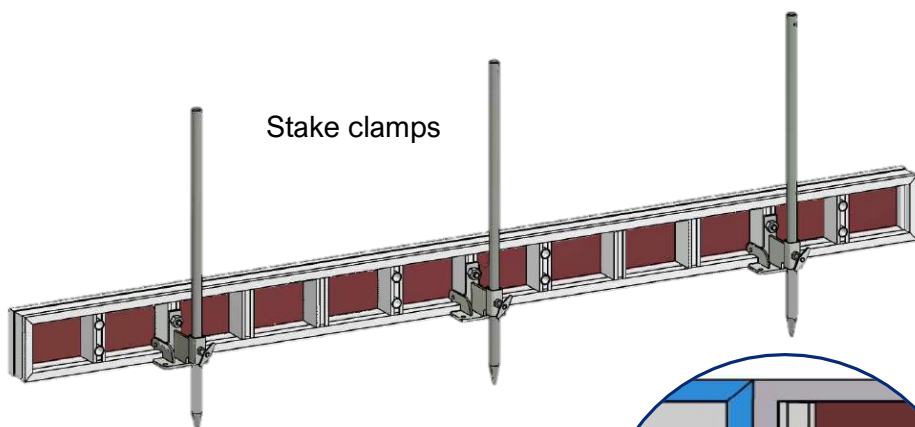


Shift clamp for waling

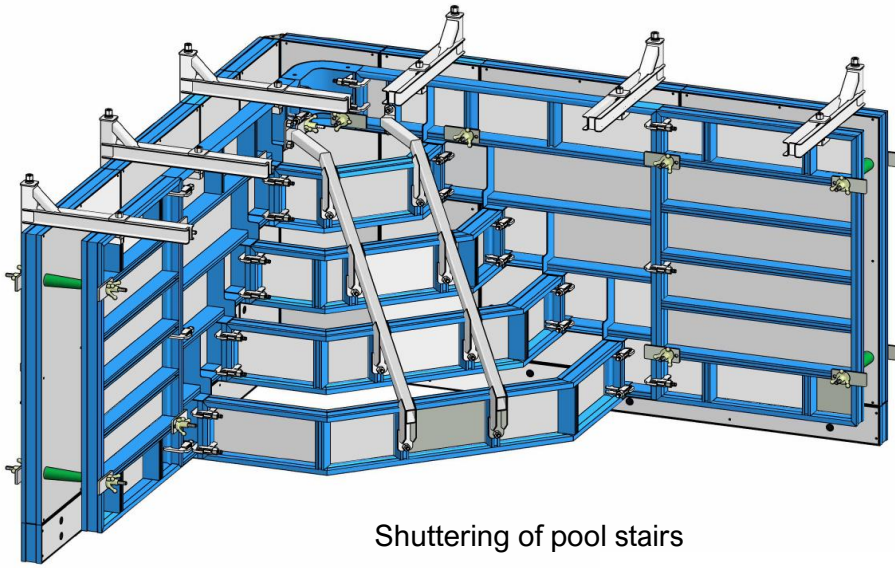
Panel support platform



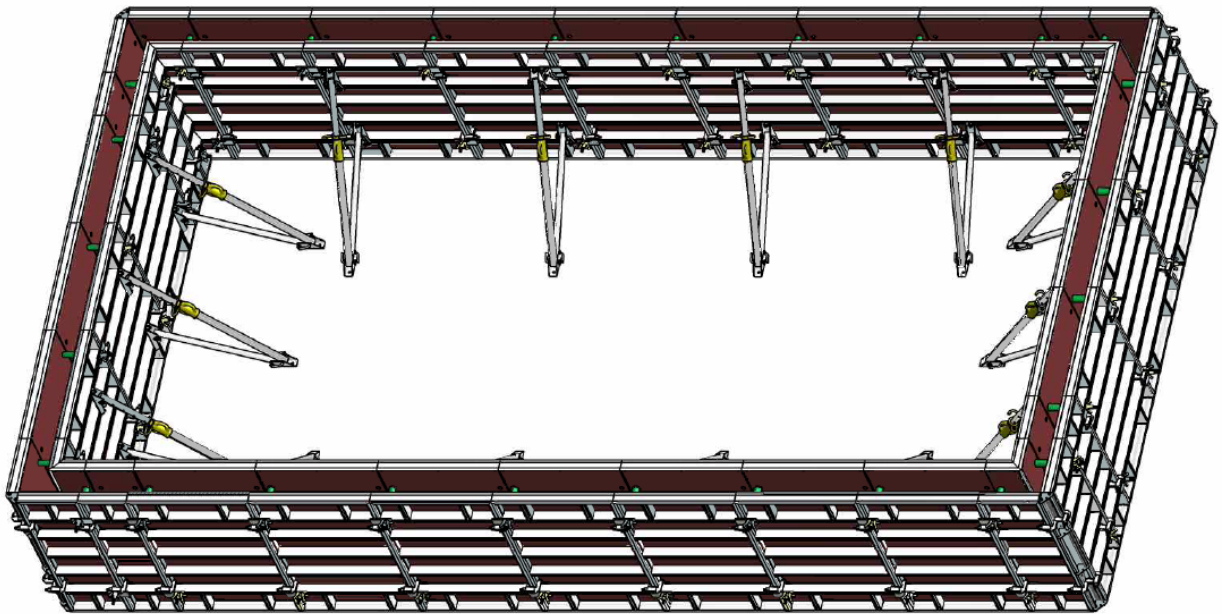
Exemples d'utilisation des accessoires



Special configuration for pools



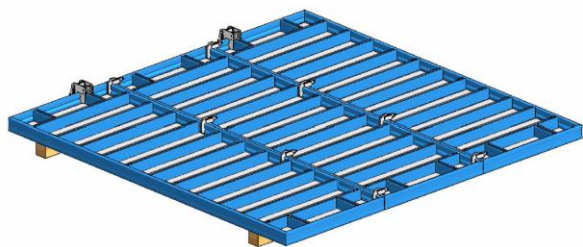
Shuttering of pool stairs



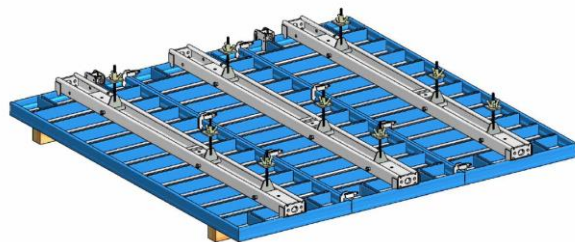
Pool 8m x 4m

Configuration with trestles

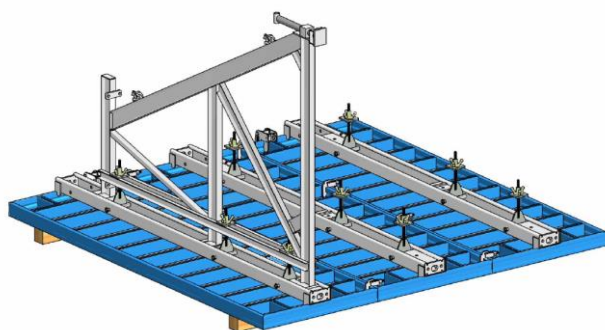
1



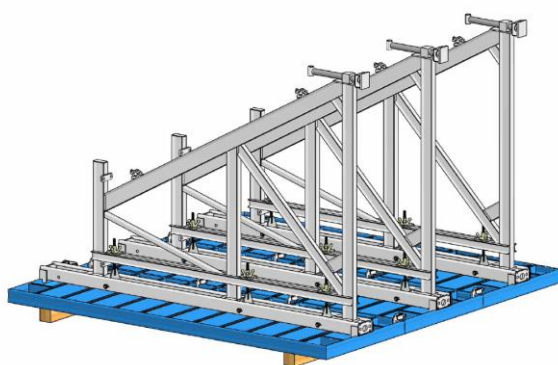
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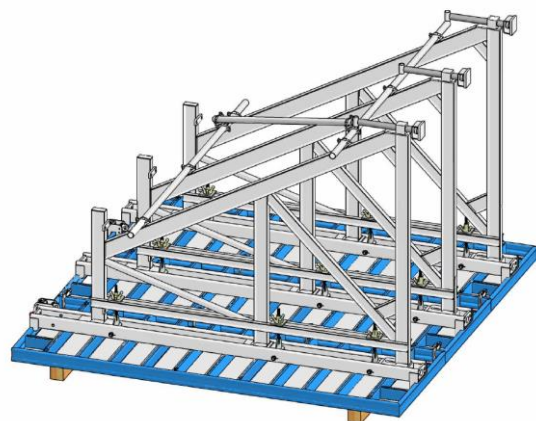
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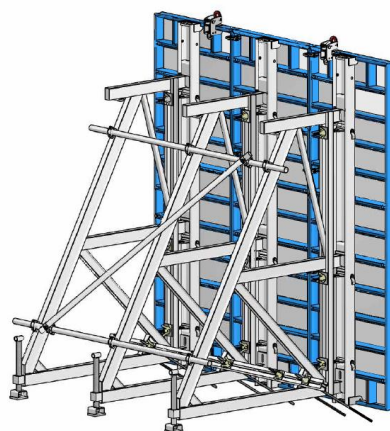
4



5



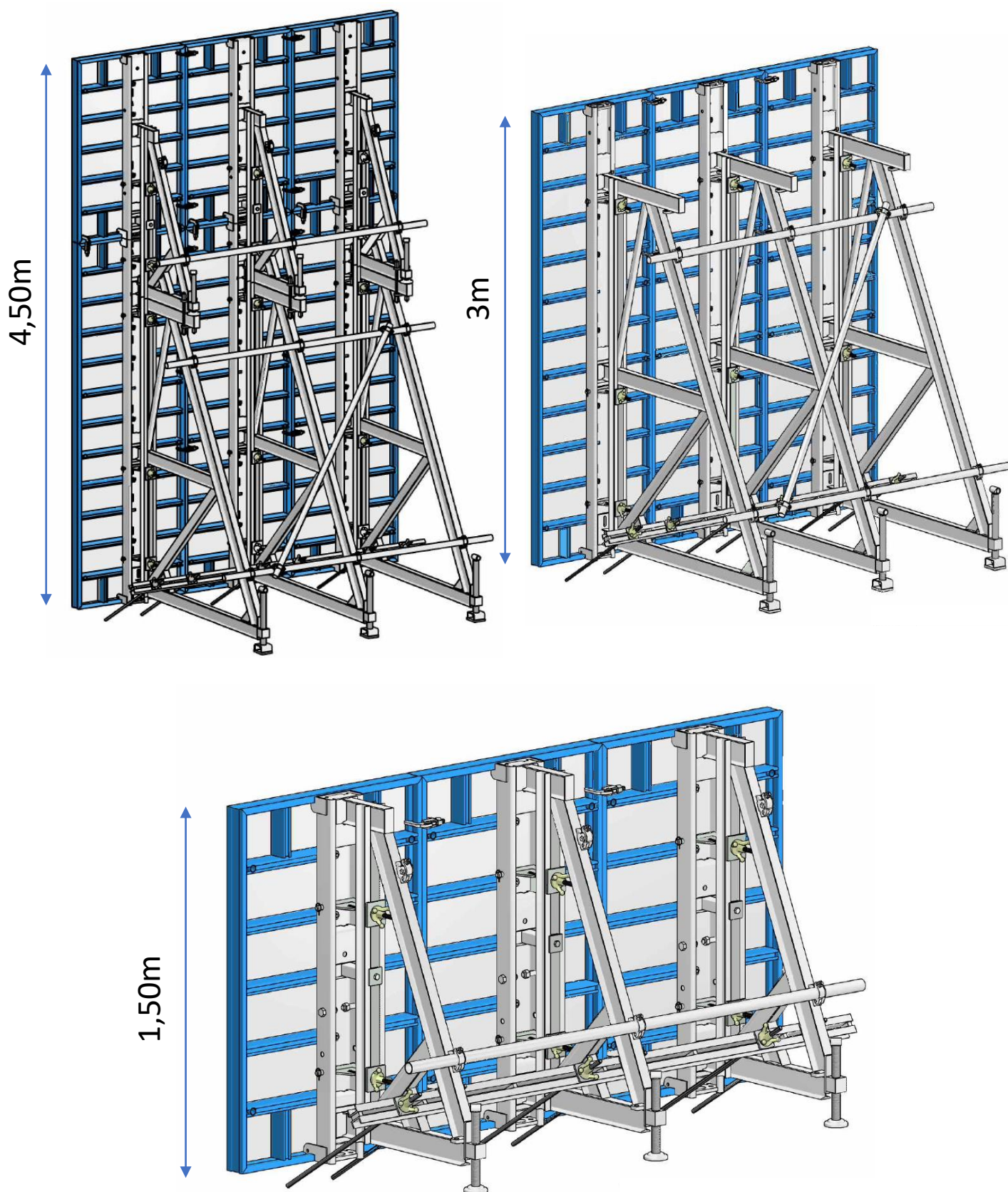
6



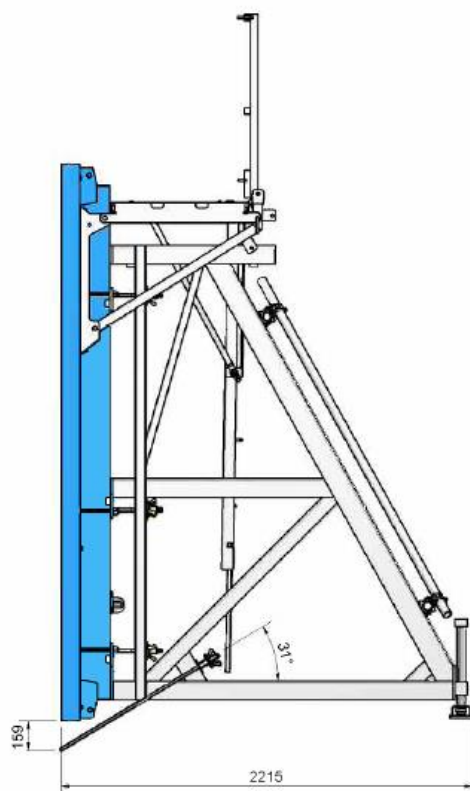
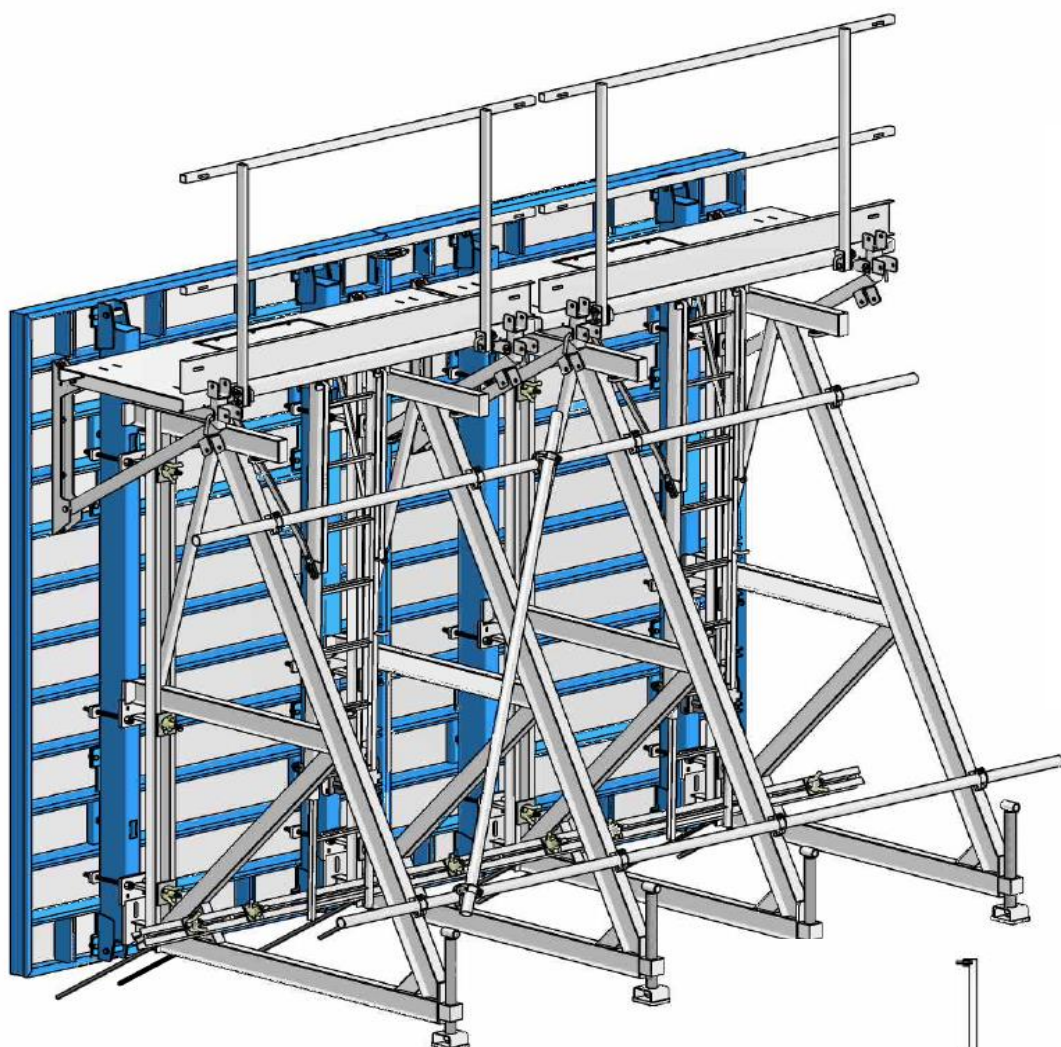
7



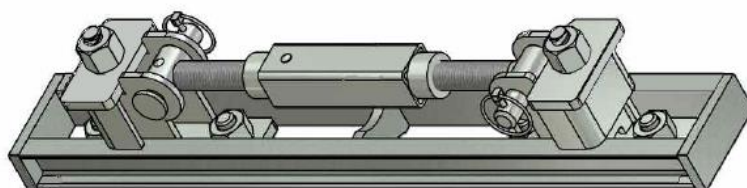
Configuration with trestles



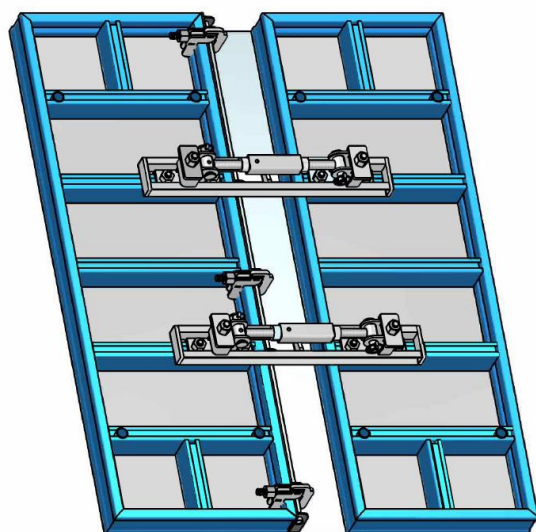
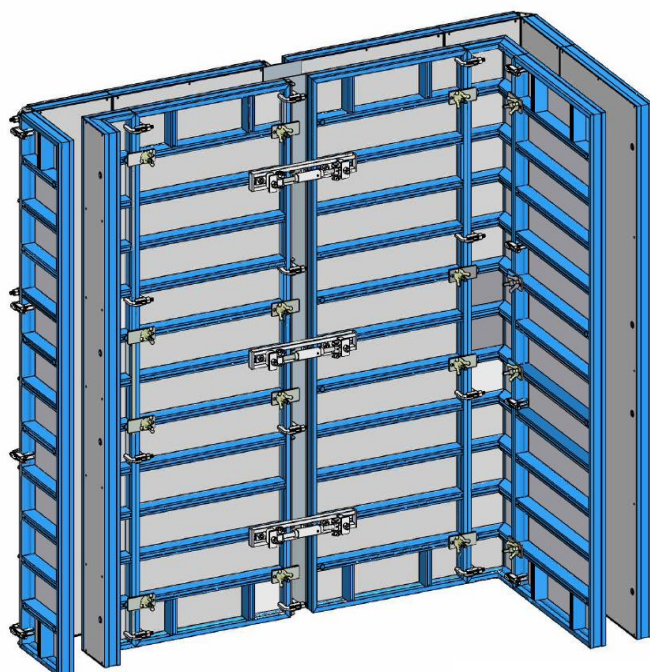
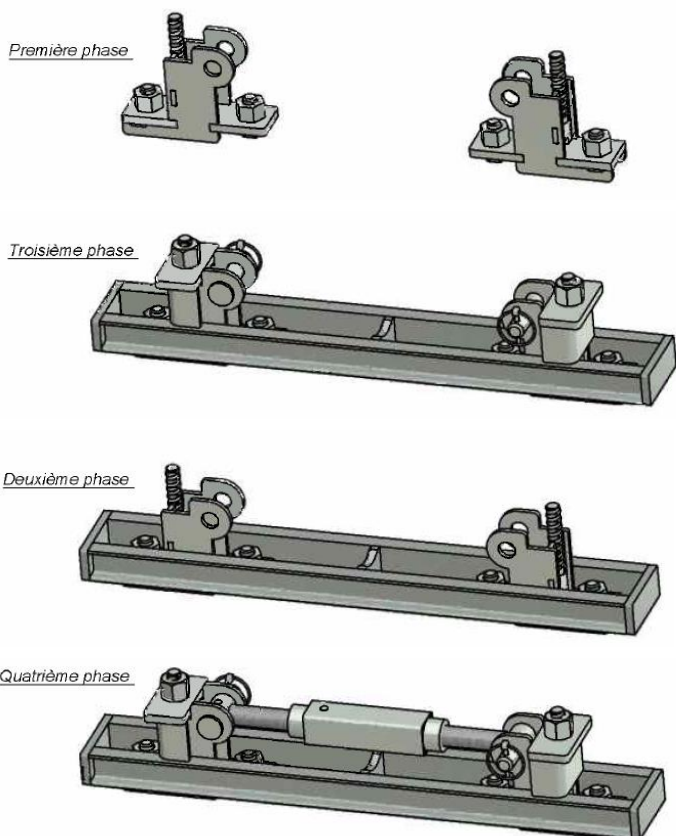
Configuration with trestles large size



Configuration cage d'escalier

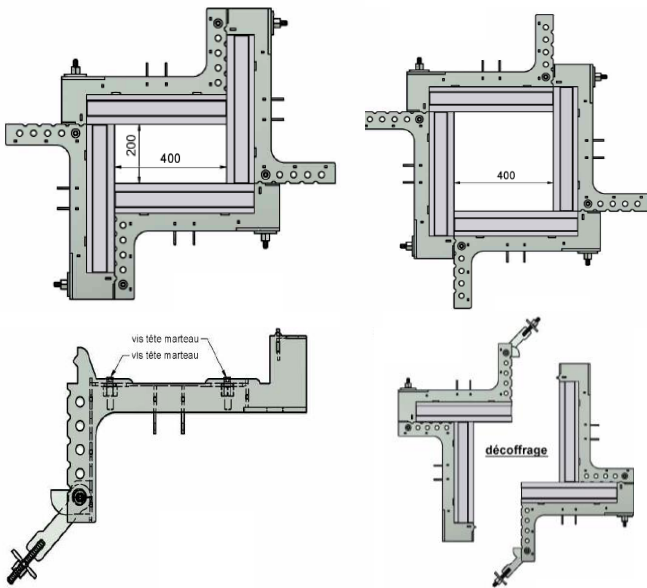


Phase de montage sur Modalu

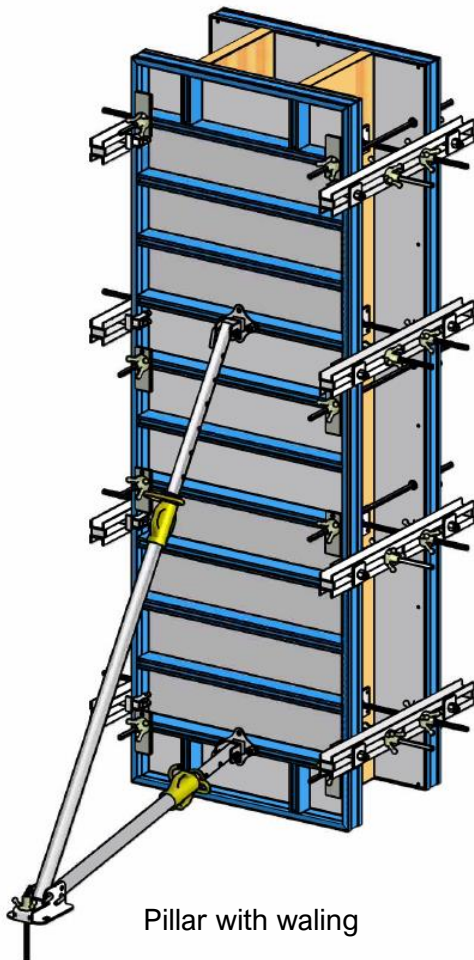
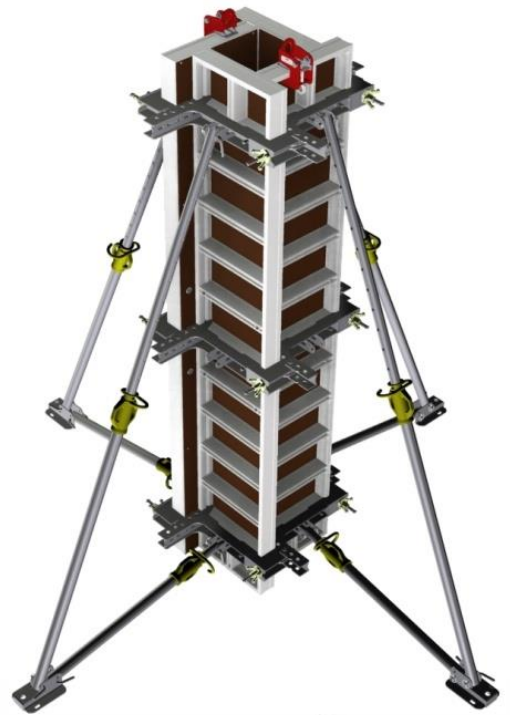


Extension sheet spacer :
Ideal for staircase configuration
Unforming without pressure thanks to the
jack (see page 37)

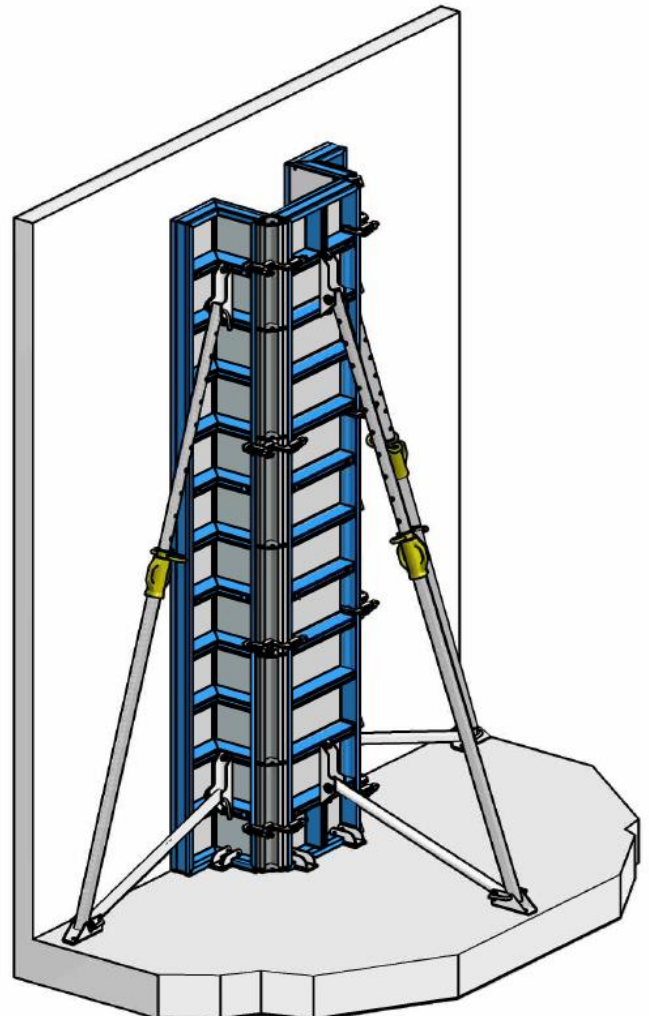
Pillar configuration



Pillar with special pillar clamps



Pillar with waling



Pillar for reinforcement of prewall

Delivery – Storage – Lifting

Instructions strictly made for the large size

1) Delivery



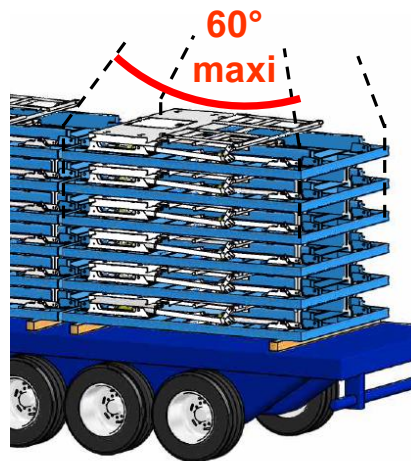
6 stacked panels maximum



2) Lifting during loading And unloading



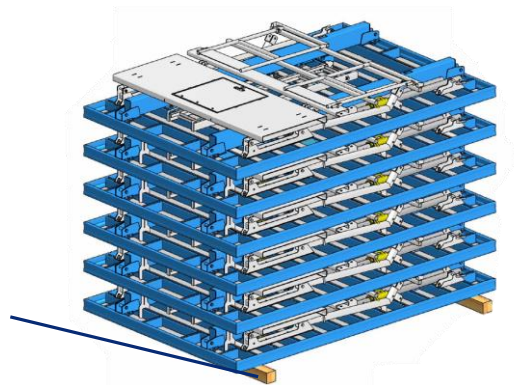
3 Panels on 4 points max



3) Storage

6 stacked panels maximum

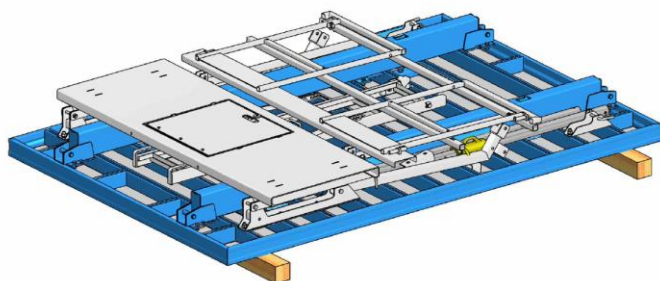
The panels must at 40 cm from the floor



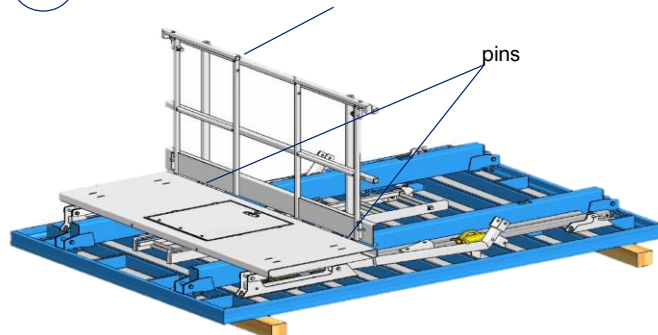
Mouting of the panel

Instructions strictly made for the large size

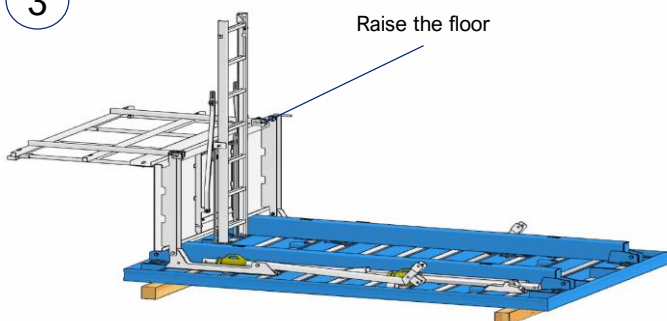
1 Put the panels on wooden beams



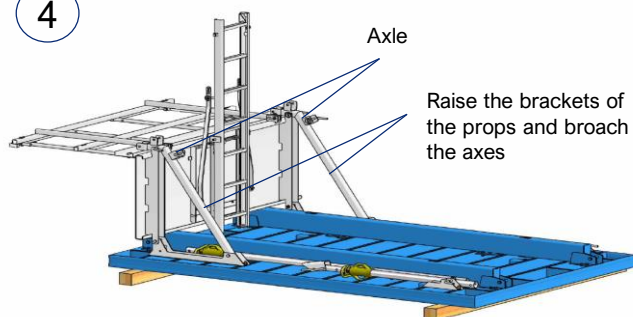
2 Raise the guard and broach the pins



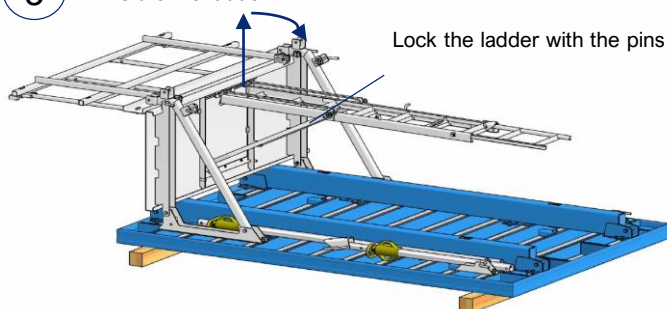
3 Raise the floor



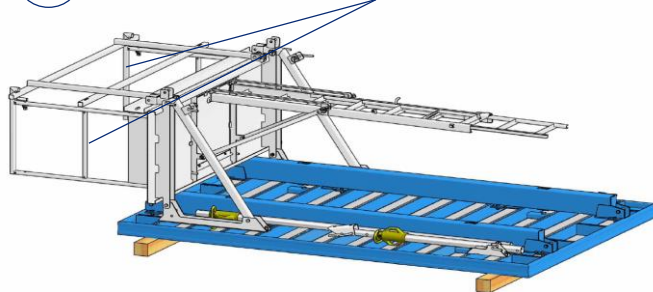
4 Axle
Raise the brackets of the props and broach the axes



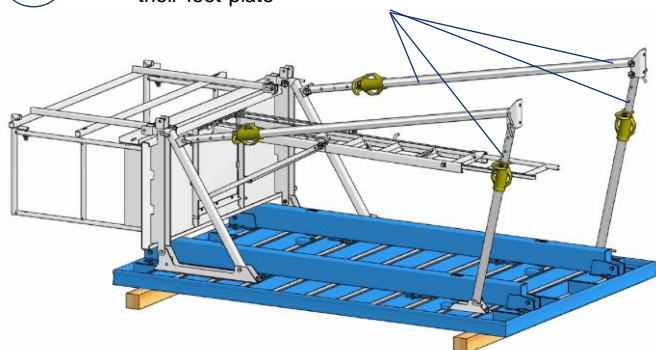
5 After removing the pins and connecting rods, wind up and rotate the ladder
Lock the ladder with the pins



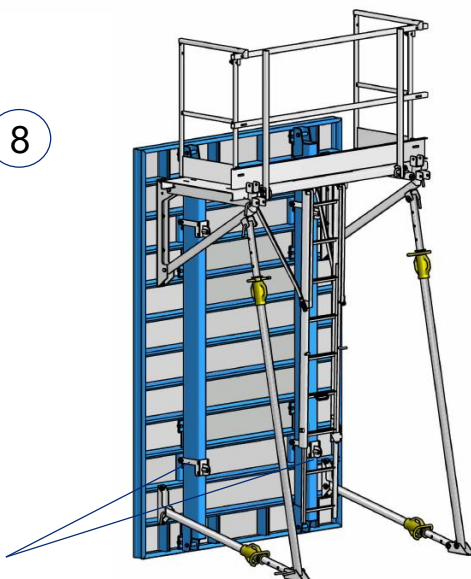
6 Deploy the gates



7 Install the stabilizing props with their foot plate



8



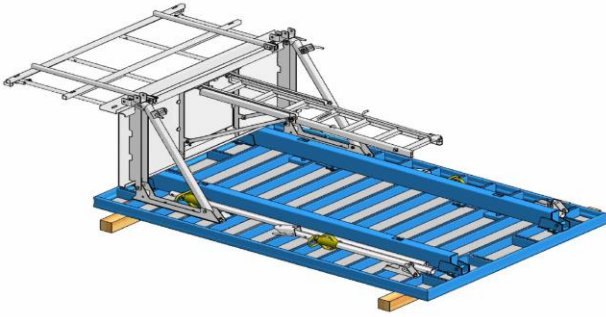
Counter plate for
1 side tightening
(option)

Mouting of the panel

Instructions strictly made for the large size

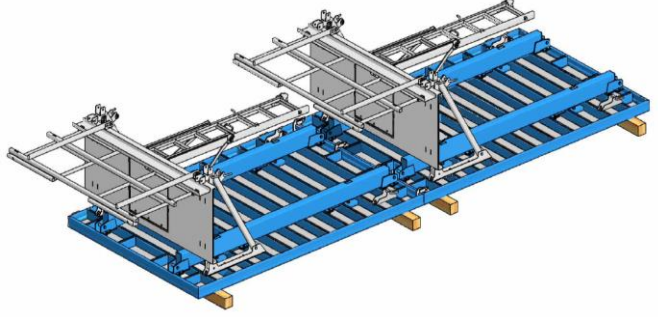
9

In the case of overlay, prepare the panel as follows:
safety deployed and remove the props of the panel

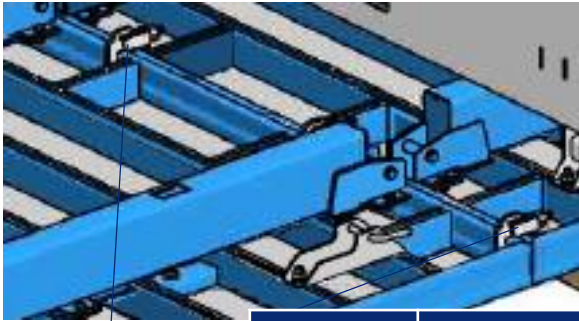


10

Approach the panels until they are in contact



11

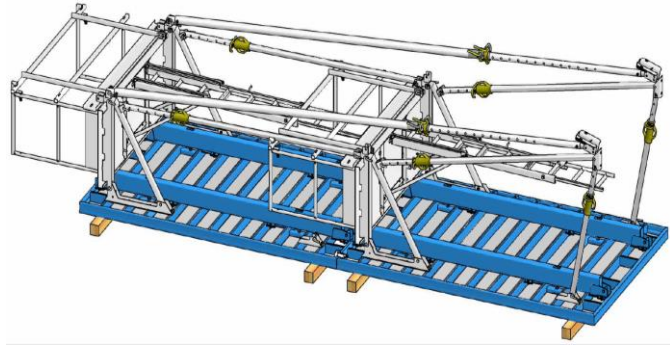


When the profiles are
aligned, block the
assembly clamps

Panel width (m)	Quantity of clamp / panel
2	3
1,5	2
1	2

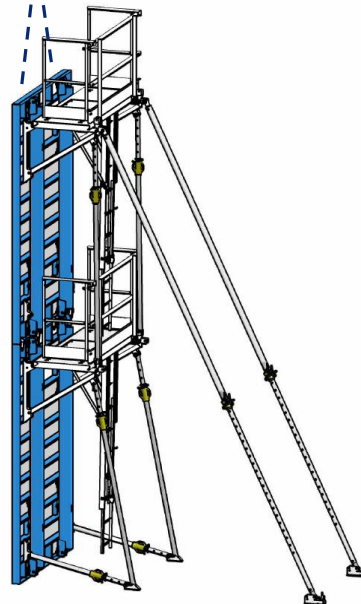
12

Mout the props and their foot plates



13

raise the panels by the
lifting ring

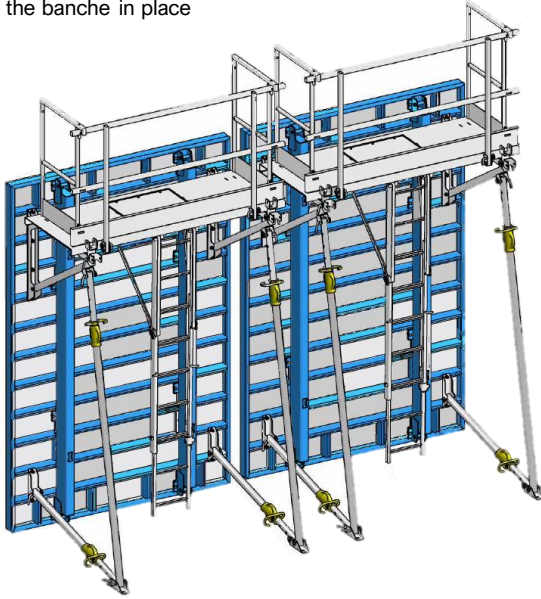


Mouting of the panel

Instructions strictly made for the large size

14

Approach the banche to juxtapose closer to the banche in place



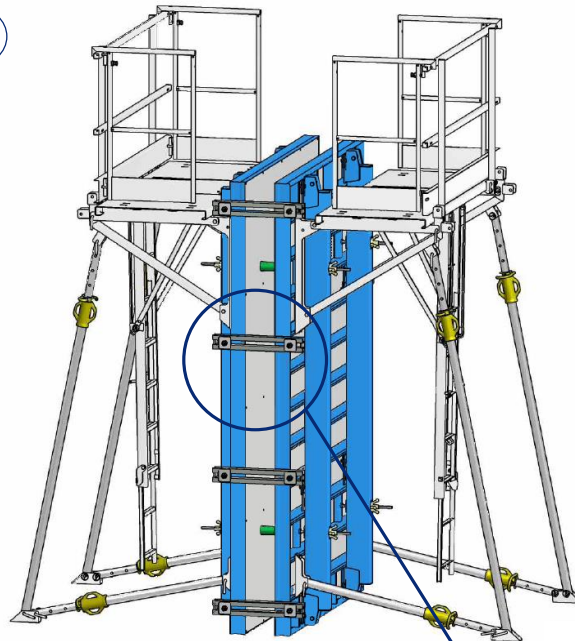
15

Put the assembly clamps in place from bottom to top and lock them



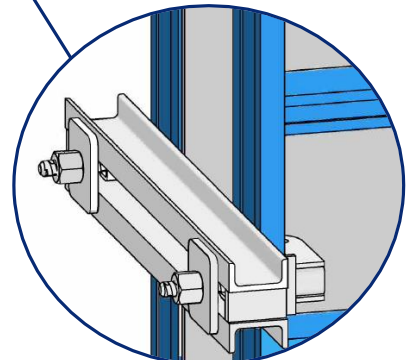
Panel height (m)	Quantity of clamp / panel
3	4
1,5	2
1	2
0,5	1

16



17

Detail of the assembly of the waling



Installation instructions and safety

Domain of use:

Modular formwork is intended for construction site personnel only.

Usage by the general public is prohibited.

Unloading and storage area:

Unloading operation are done under the supervision of an authorized person.

Prévoir une zone pour le déchargement et le stockage du matériel, proche de la zone de travail.

Provide an area for unloading and storage of materials near the working area.

Avoid any person under the load when using the crane.

Recommendations when using lifting equipment:

Any lifting operation performed using a crane is in the presence of an operating manager.

The use of forklifts is reserved to persons holding a driving license.

Checking and maintenance of equipment:

Documents shall be examined before each restart. If parts are damaged type: permanent deformation, holes, notches, oxidation, etc., they should be disposed and replaced.

Between each casting, the shuttering panels must be oiled on the molding face and the four sides to prevent the fouling by the concrete.

Before each casting to ensure the presence of plugs in unused drill holes. Insert the plugs in the panels with a mallet (no hammer, to avoid any breakage)

Mounting precaution and use:

The modular formwork can be delivered with stabilizing props, they must be fixed to the ground or concrete blocks, see the recommendations attached cuts.

Ensure that the casting pressure during use does not exceed the allowed pressure of 5 tons / m² of formwork.

Check that the clamping elements used (rods and nuts) resist efforts of 3.75 tonnes / rod.

Do not approach energized electrical cables.

Use reliable lifting elements, appropriate and fitted with safety hooks to ensure good fixation.

Support Capabilities:



The formwork panels platforms spaced by less than 2 m are able of receiving two men and their tools whether 200kg. The customer must ensure the resistance of decks being used.

Weather:



The assembly of the modular formwork becomes dangerous and can justify stopping the construction site in the case of atmospheric conditions such as :

Frost / abundant rain / snow / ice storm
Wind (beyond 85km / h)

Stabilization of the panels

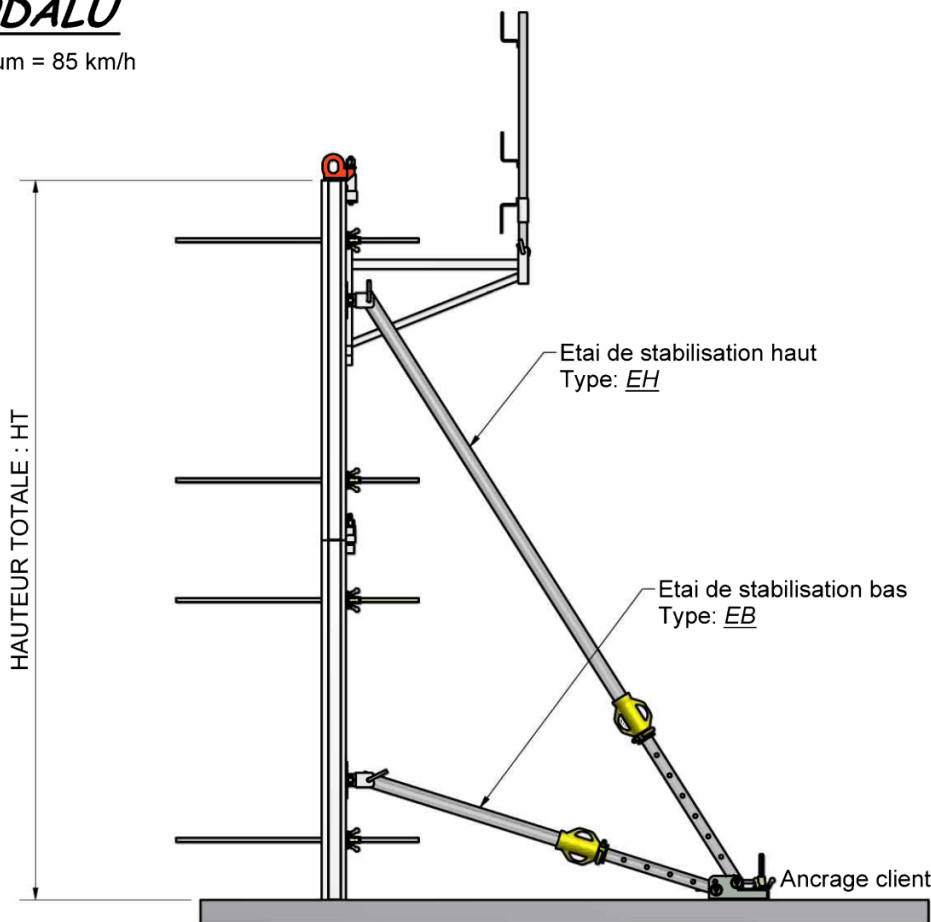


CONSULT THE LAYOUT PLAN



COUPE MODALU

Vitesse de vent maximum = 85 km/h



HT(m)	Panel detail	EH	EB
1.0	1 x 1m	TPE 100/175	Ø
1.5	1 x 1.5m	TPE 170/300	Ø
2.0	2 x 1m	TPE 170/300	TPE 100/175
2.0	1 x 0.5m + 1 x 1.5m	TPE 170/300	TPE 100/175
2.5	1 x 1m + 1 x 1.5m	TPE 220/400	TPE 100/175
2.5	1 x 0.5m + 2 x 1m	TPE 220/400	TPE 100/175
3.0	2 x 1.5m	TPE 220/400	TPE 100/175
3.0	3 x 1m	TPE 220/400	TPE 100/175
3.0	1 x 0.5m + 1 x 1m + 1 x 1.5m	TPE 220/400	TPE 100/175

Nous contacter pour d'autres configurations

Instructions for use and maintenance (for rental only):

It is for the user to keep the same state of conformity and unchanged since receiving the modular formwork panels it uses. He is the guardian of modular formwork panels, so the responsible for damages that the hardware can generate.

Like any hardware, modular formwork panel requires continuous maintenance. Periodic checks of this panel are necessary to ensure compliance and effectiveness.

Additional checks are required after any failure of the system, any abnormal pressure casting, or when the modular formwork panel sustained damage.

Therefore, it is important to regularly inspect the modular formwork panels with the aim to check:

The state of the shuttering skin

Maintaining the shuttering skin on the aluminum frame.

The presence of the silicone seal around the periphery of the shuttering skin.

- The absence of concrete on the frames of the panel

This audit is the responsibility of the user: After weathering after construction stopped, before the commissioning of modular formwork panels at least every month.

The results and dates of these audits, as well as the names and competent persons who have carried out, must be recorded on the site of the security register.

Condition of use and maintenance

Alkus repair :

Scratch repair

Frequent site use inevitably leads to damage to the facing. The alkus „long-life repair“ provides for a repair with identical material and without any loss of quality.

The damaged areas are prepared for repair by removing soilings and formwork oil residues with a paint scraper.

Protrusions of nail holes and minor soilings can also be removed quickly and easily with the paint scraper.

By use of the extruder (or alternatively hot air welder) the melted polypropylene is applied to the damaged area.

Protruding material is planed with a paint remover



Repair of holes

Holes with a diameter of up to 30 mm can be repaired with a plug.

Therefore the hole is drilled out with a step drill.

Important: Adjust drilling depth to 6 mm.

Insert repair plug and...

... drive it into the hole with a plastic hammer

The remaining protrusion is removed easily with a paint remover and paint scraper. The plugs are made of polypropylene, just like the panel itself.

Therefore future damage in the area of the plug can also be repaired easily using the extruder



Condition of use and maintenance

Repair patch D35

Drill hole at damaged area by using the drill stand and a cylinder head drill Ø 35. Check drilling depth (6 mm) with depth gauge.

Insert repair patch D 35 (thickness 6,5 mm) with chamfer faceup.
Important: Repair patch is protrudes slightly.

Weld by using extruder (alternatively hot air welder).
Plane surface at damaged area by using the paint remover.



Tie hole repair

As the core and surface of the panel are the same material, tie hole damage can be repaired successfully using identical welding material.

The aluminium repair cone is inserted into the tie hole as a shaper ...

...and afterwards the damaged area is filled by using the extruder (alternatively hot air welder).

After the repair cone is removed, the repaired area is smoothened with a paint remover and paint scraper.

The result: a fully operative tie hole!





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