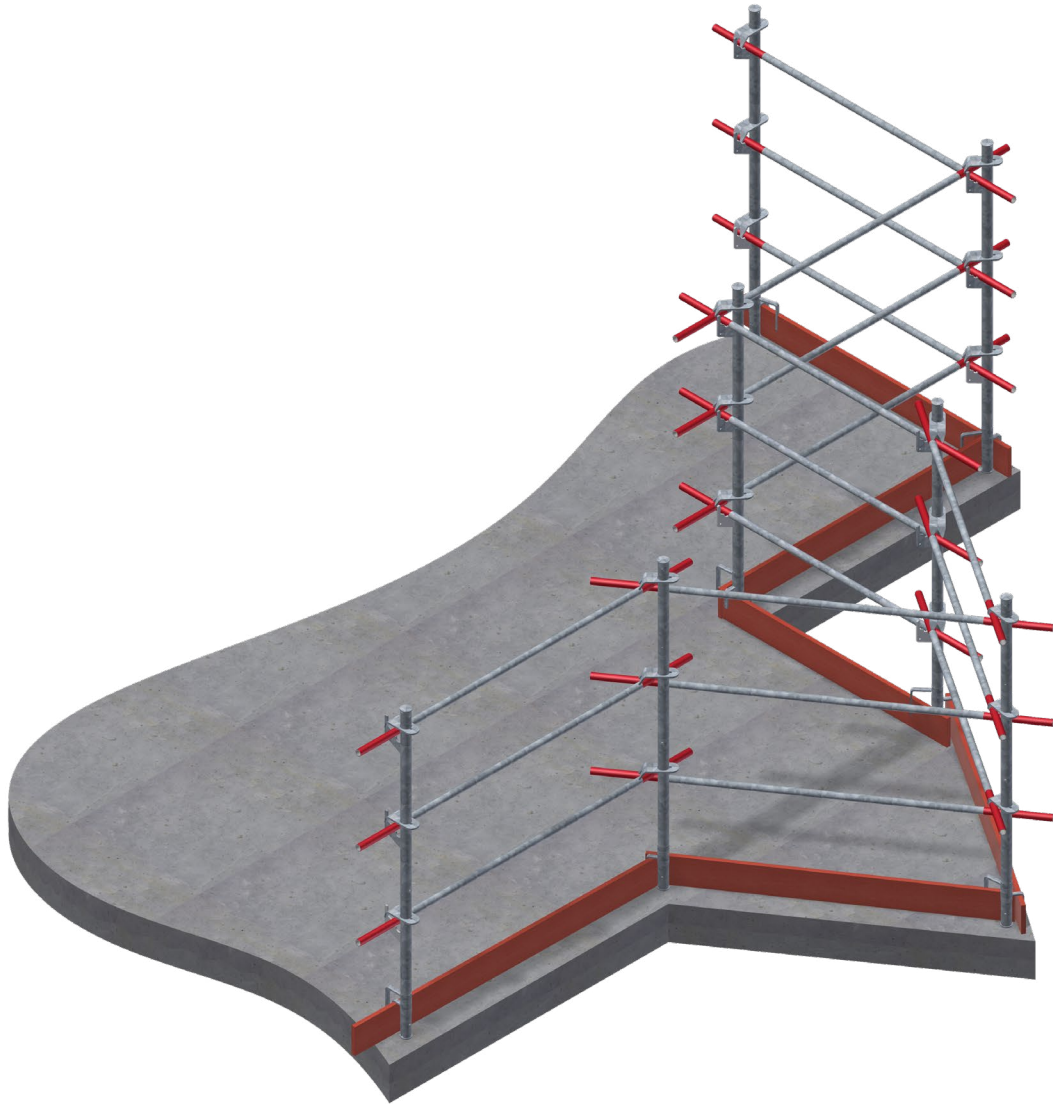




COFFRAGE  
& ÉTAIEMENT  
LOCATION  
VENTE  
MONTAGE



# POSTS, BARRIERS & GUARDRAILS SAFETY SYSTEMS

# INFORMATIONS

This document is intended for all persons working with the Altrad Formwork & Shoring product described and contains information on the installation and use of the system in accordance with the guidelines.

All persons who work with these various products must be fully familiar with the contents of these documents and their safety information. The use of our products is subject to compliance with the laws and regulations, in their current version, in France. The safety instructions and load specifications must be strictly adhered to. This document can also be used as generally applicable installation and operating instructions or as part of site-specific installation and operating instructions.

Altrad Coffrage & Etaisement reserves the right to make changes for the purpose of technical optimisation. Errors, typographical and printing errors excepted.







Edition : juin 2025  
**Altrad Coffrage & Etaisement**  
[ace.export@altrad.com](mailto:ace.export@altrad.com)  
[www.altrad-coffrage.com](http://www.altrad-coffrage.com)





# SUMMARY



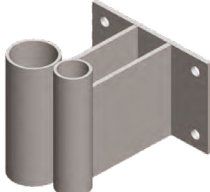
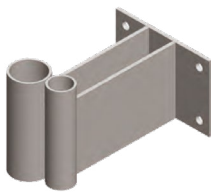

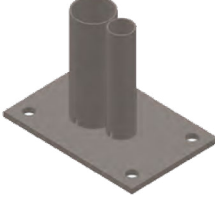

<b>RECOMMENDATIONS .....</b>	<b>8</b>
<b>POSTS .....</b>	<b>12</b>
Multidirectional post R25 2 lockers.....	12
Multidirectional post R25 3 lockers.....	14
Post reservation Ø25 lock tube.....	16
Post reservation Ø40 lock tube.....	18
Slab grip clamp 1 position lock .....	20
Post reversible clamp .....	22
Adjustable slid post C35 lock tube .....	24
<b>POSTS SUPPORTS .....</b>	<b>26</b>
Reversible slab clamp.....	26
Beam slid.....	28
Side-mounted support.....	30
Side-mounted support offset 100mm .....	31
Side-mounted support offset 150mm.....	32
Side-mounted support offset 100mm .....	33
Top-mounted support offset 100m.....	34
Side-mounted top fiwing support offset 100mm .....	35
<b>BARRIERS &amp; GUARDRAILS .....</b>	<b>38</b>
Safetyplast.....	38
Barriers .....	39
Steel pipe.....	40
Lift shaft guardrail.....	42

## POSTS RANGE




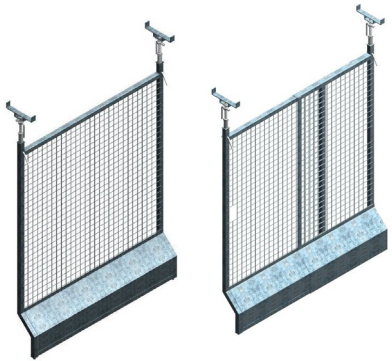
Prod. ref	Weight (Kg)	Characteristics	Element
411-0027B	6.50	MULTIDIRECTIONNAL POST R24 - 2 LOCKERS	
411-0027A	11.95	MULTIDIRECTIONNAL POST R24 - 3 LOCKERS	
411-0026	4.50	POST R Ø 25 lock tube	
411-0041	4.50	POST R Ø 40 lock tube	



Prod. ref	Weight (Kg)	Characteristics	Element
411-0102	7.70	SLAB GRIP POST 45CM WITH LOCK TUBE 1 position lock	
411-0222	3.20	POST Ø40 LOCK TUBE FOR CLAMP	
411-0077	7.60	ADJUSTABLE SLID POST C35 LOCK TUBE	
POSTS SUPPORTS			
411-0210	4.45	SLAB GRIP CLAMP R40 2 POSITIONS	

Prod. ref	Weight (Kg)	Characteristics	Element
411-0065	3.8	BEAM SLID	
411-0890A	1.31	SIDE-MOUNTED SUPPORT	
411-0900A	2.09	SIDE-MOUNTED SUPPORT OFFSET 100MM	
411-0910A	2.51	SIDE-MOUNTED SUPPORT OFFSET 150MM	
411-0915A	4.05	SIDE-MOUNTED SUP. OFFSET 100MM REV.	
411-0920A	1.31	TOP-MOUNTED SUPPORT	
411-0925A	2.40	SIDE-MOUNTED TOP FIXING SUP. OFFSET 100MM	

# BARRIERS & GUARDRAIL RANGE

Ref. prod.	Poids (Kg)	Caractéristiques	Élément
-	-	SAFETYPLAST Plastic mesh barrier	
412-0513 412-0526	19.4 10.5	STEEL MESH BARRIER 1.30X1.17 STEEL MESH BARRIER 2.60X1.15	
412-1530	5.60	GUARDRAIL Ø33.7 - 3.00M RED	
412-4155 412-4190	41 55	ADJUSTABLE LIFT SHAFT GUARDRAILS FIXED LIFT SHAFT GUARDRAILS	

### RECOMMENDATIONS

Collective safety allows to fight against the falls of height on the building site. It must be ensured by effective devices such as posts, guardrails, barriers, etc. For the protection and safety of personnel on your sites, Altrad Coffrage & Etaisement offers a whole range of peripheral protections: **posts, guardrails, barriers**, etc.

Guardrails are one of the collective safety means belonging to the hierarchy of prevention solutions. They are intended to prevent people and objects from falling to a lower level from roofs, floor edges, hoppers, stairs or other areas requiring the installation of such protection.

Collective security must be installed in compliance with the safety regulations in force, currently set by the French standard NF EN-13374 for its resistance and quality criteria.

The regulations indicate that the guardrails :

- are integrated or fixed in a safe manner,
- are rigid,
- have an appropriate resistance,
- are placed at a height between 1 m and 1.10 m, include at least a 10 to 15 cm baseboard, a handrail and an intermediate rail at mid-height.

#### CLASS A

**Class A protection is designed to withstand static loads only, considering the following requirements:**

- support a person leaning on the guardrail or form a handrail as they move along it; and collectively stop a person moving toward or falling on the guardrail.

#### THE POSTS

The posts, including the plug-in part, are made of steel or aluminum alloy. The attachment of the top and intermediate rails, as well as the baseboard, to the bollard is designed in such a way that these elements cannot come out of their housing, nor slide unexpectedly during their use. The accessories necessary to hold them are an integral part of the post.

#### LES LISSES

Par rapport aux potelets, les lisses doivent toujours être positionnées du côté du plan de travail afin que les efforts exercés sur elles puissent être repris par les montants des potelets, et pas uniquement par les supports de fixation des lisses. Leurs extrémités sont soit obturées par un bouchon PVC, soit revêtues d'un manchon PVC.

#### THE RAILS

In relation to the posts, the rails must always be positioned on the side of the work surface so that the forces exerted on them can be taken up by the posts of the posts, and not only by the supports for fixing the rails. Their ends are either sealed with a PVC plug or covered with a PVC sleeve.

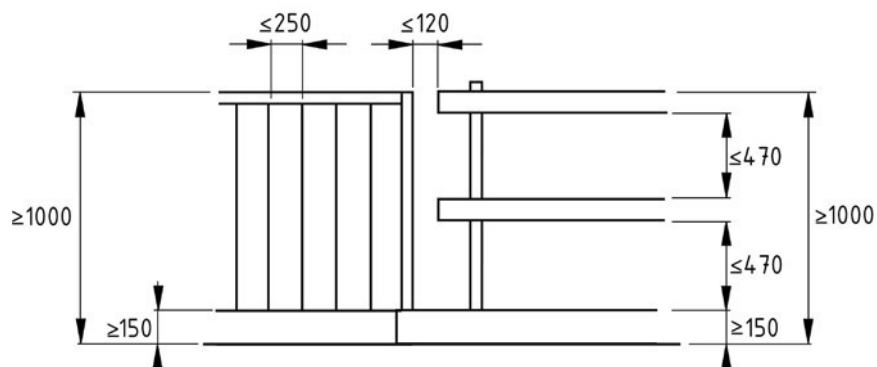


## WARNING

- Check the equipment periodically, especially after each use, but also regularly during the work.
- Check the condition of the supports and rails, as well as the threaded rods.
- Periodically grease the mechanical parts.
- The openings between the peripheral guardrails and the other structures must be as small as possible, but not exceeding 120 mm for the guardrails and 20 mm for the baseboard.
- The installation and removal of the uprights must be carried out in the absence of other protection. It is therefore necessary to ensure that the protection system used is compatible with the construction method.
- **RECEPTION STRUCTURE:** It is essential that the reception structure to which the temporary perimeter guardrail is attached can withstand the static forces for which the protection system is designed. The guardrail attachment device must be compatible with the host structure.

### HEIGHT AND SPACING OF PERIMETER GUARDRAIL COMPONENTS

The slope of the Class A perimeter guardrail shall not deviate from the perpendicular to the work surface by more than 15°, outward or inward. Where an intermediate rail is provided, a 470 mm diameter sphere shall not pass through the guard. If there is no intermediate rail or if the intermediate rail is not continuous, a sphere with a diameter of 250 mm must not pass through the perimeter guardrail.



### MAINTENANCE AND PERIODIC INSPECTION

As with all safety equipment, it is necessary that the components of the guardrail be examined regularly to ensure that they are in good general condition and fit for purpose. It is important to systematically check the equipment before it is installed:

- Components must be in good condition and no parts should be missing,
- The posts and rails must not be twisted,
- Never straighten the posts or rails. Never straighten the posts or the rails. Their metal, hardened by this maneuver, would not be able to absorb the energy necessary in case of accident.





# POSTS

ALTRAD COFFRAGE & ETAIEMENT HAS A WIDE RANGE OF COLLECTIVE SECURITY FOR ALL TYPES OF CONSTRUCTION SITES.



## POSTS

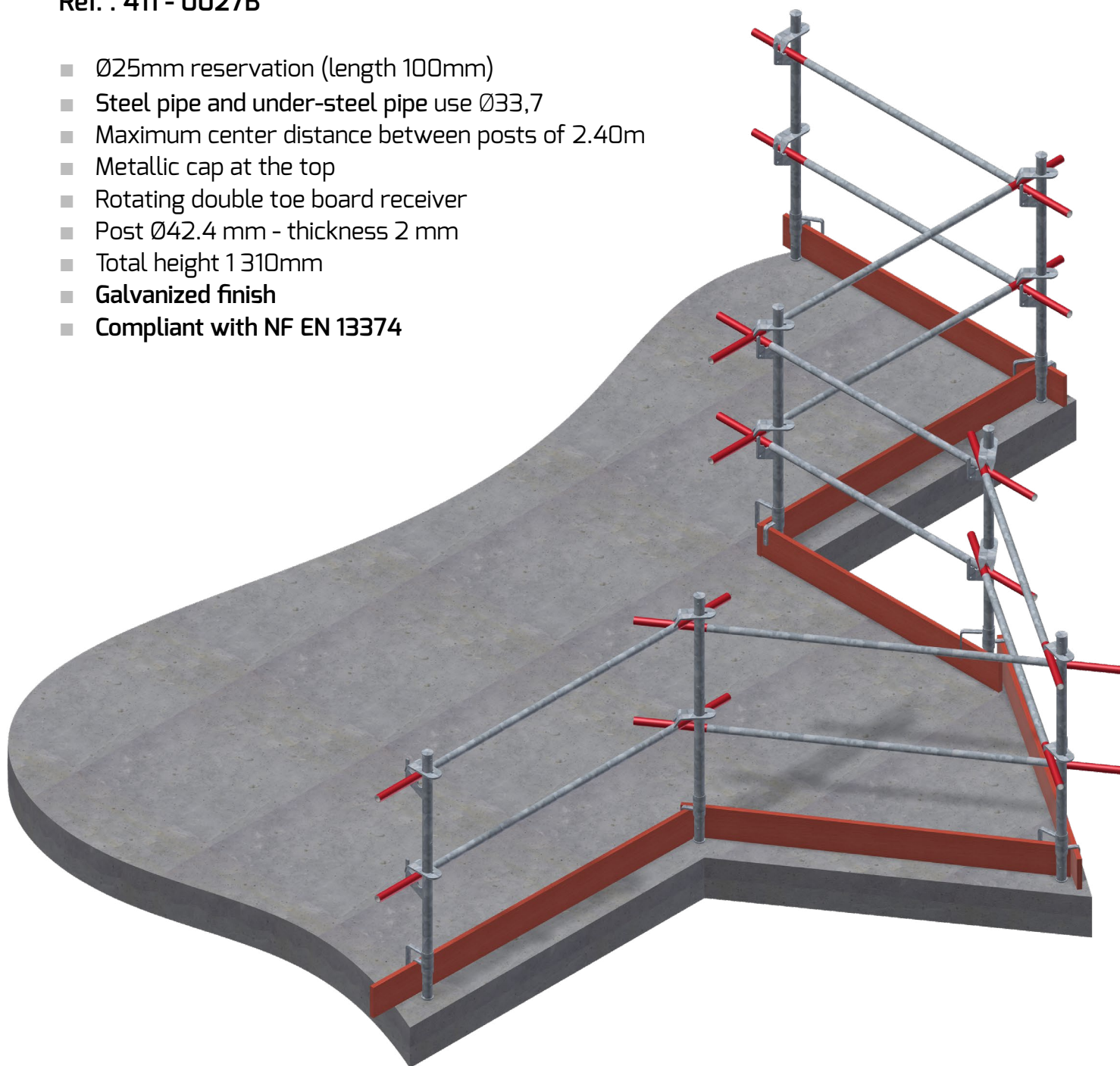
## Multidirectional post R25 2 lockers

The R25 multidirectional posts allow the use of Ø33.7mm safety tubes, the collective directional system allows the crossing of the tubes and the toeboard in the angles (right, obtuse or acute angles).

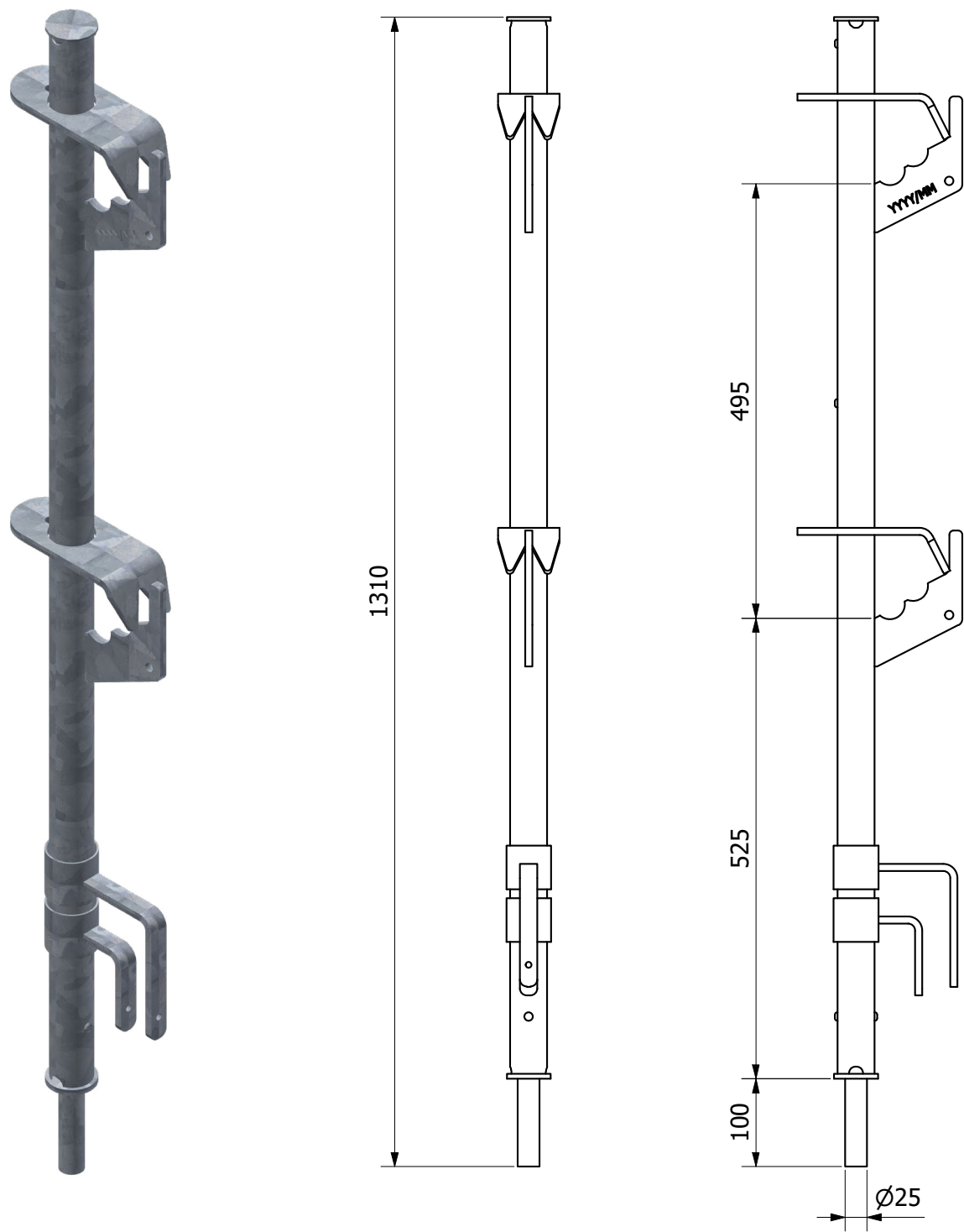
**Weight : 6.5 kg**

**Ref. : 411 - 0027B**

- Ø25mm reservation (length 100mm)
- Steel pipe and under-steel pipe use Ø33,7
- Maximum center distance between posts of 2.40m
- Metallic cap at the top
- Rotating double toe board receiver
- Post Ø42.4 mm - thickness 2 mm
- Total height 1 310mm
- **Galvanized finish**
- **Compliant with NF EN 13374**







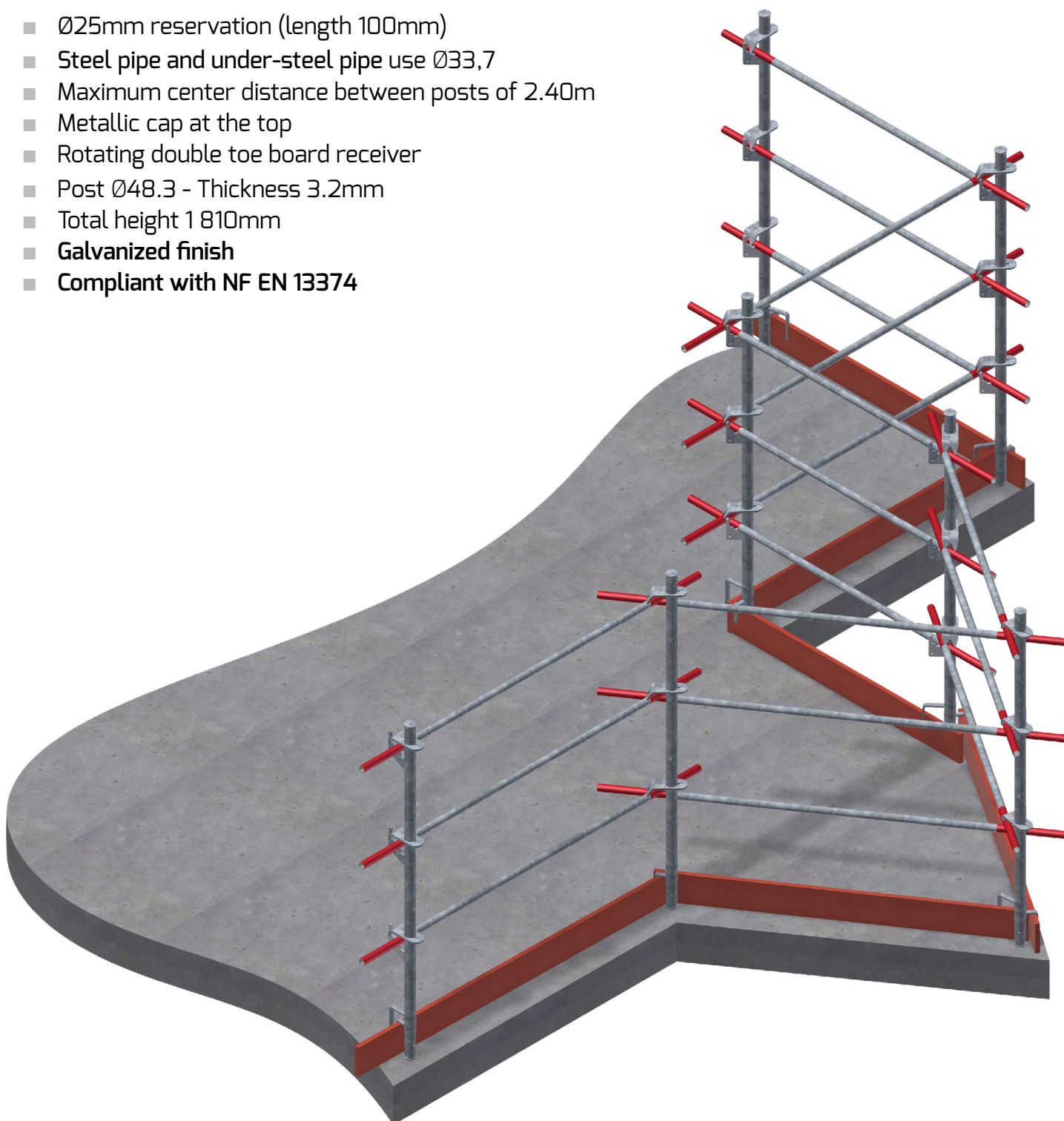
## Multidirectional post R25 3 lockers

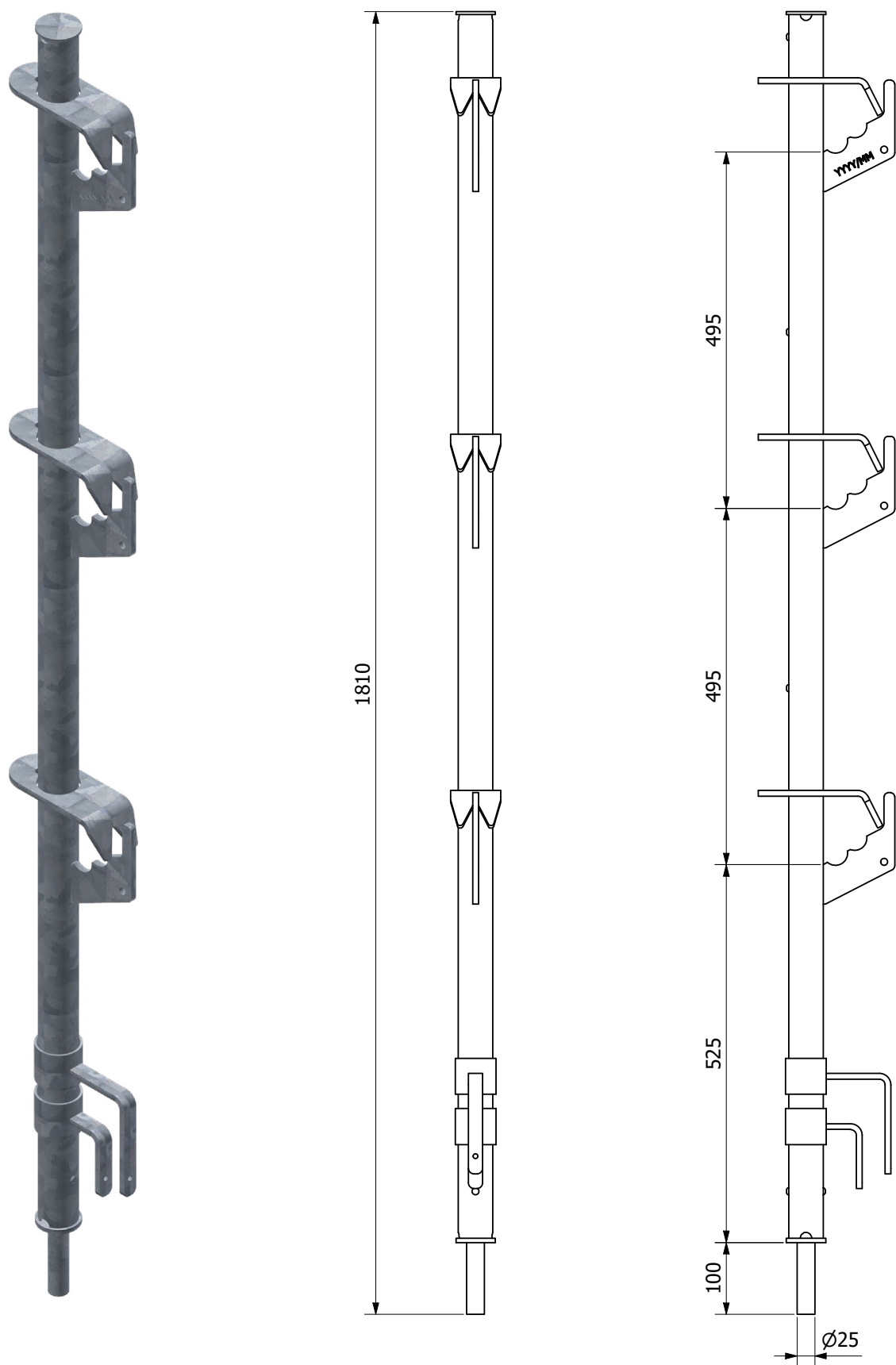
The R25 multidirectional post with 3 blockers makes it possible to raise the top rail by 50cm in order to take into account the risk of falls in the event of raising the slab after concrete pouring.

**Weight : 11.95 kg**

**Ref. : 411 - 0027A**

- Ø25mm reservation (length 100mm)
- Steel pipe and under-steel pipe use Ø33,7
- Maximum center distance between posts of 2.40m
- Metallic cap at the top
- Rotating double toe board receiver
- Post Ø48.3 - Thickness 3.2mm
- Total height 1 810mm
- **Galvanized finish**
- **Compliant with NF EN 13374**





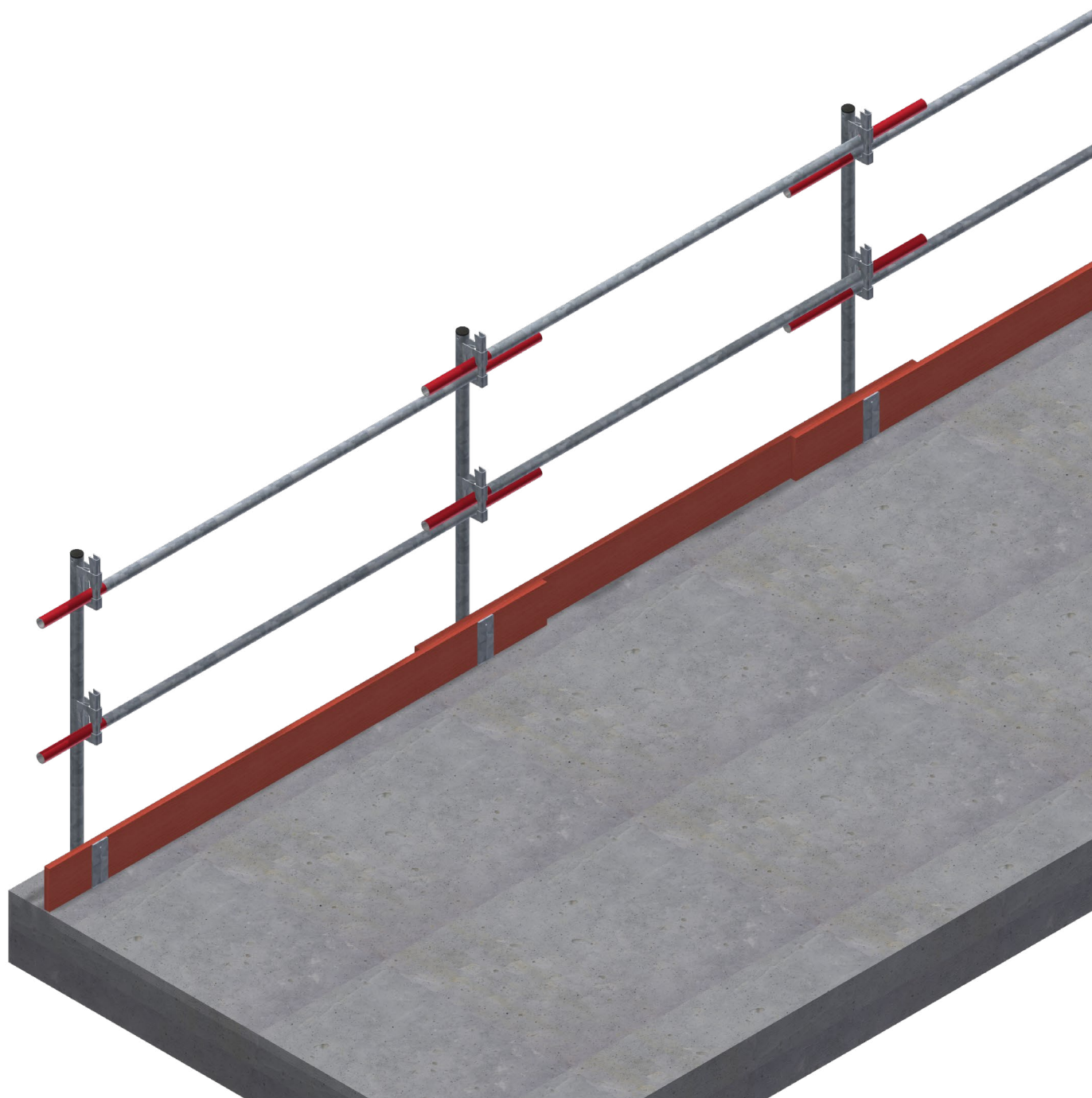
### Post reservation Ø25 lock tube

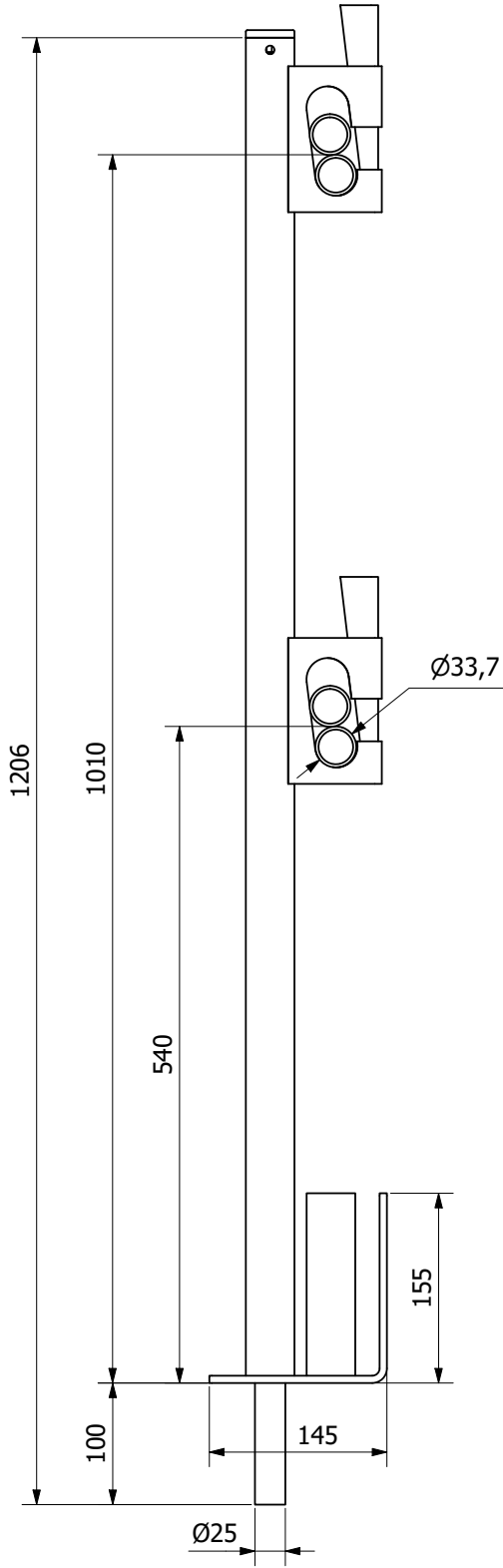
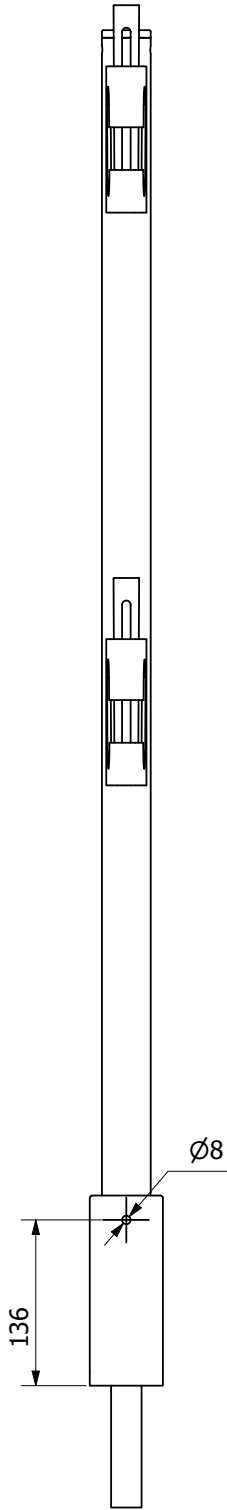
The galvanized lock post with Ø25 mm reservation is a peripheral safety element for concrete floors and is used with guardrails.

**Weight : 4.50 kg**

**Ref. : 411 - 0026**

- Compatible with salb grip clamp
- Steel pipe and under-steel pipe use Ø33,7
- Maximum center distance between posts of 2.40m
- **Galvanized finish**
- **Packing** : 100 piece / pallet
- **Compliant with NF EN 13374**





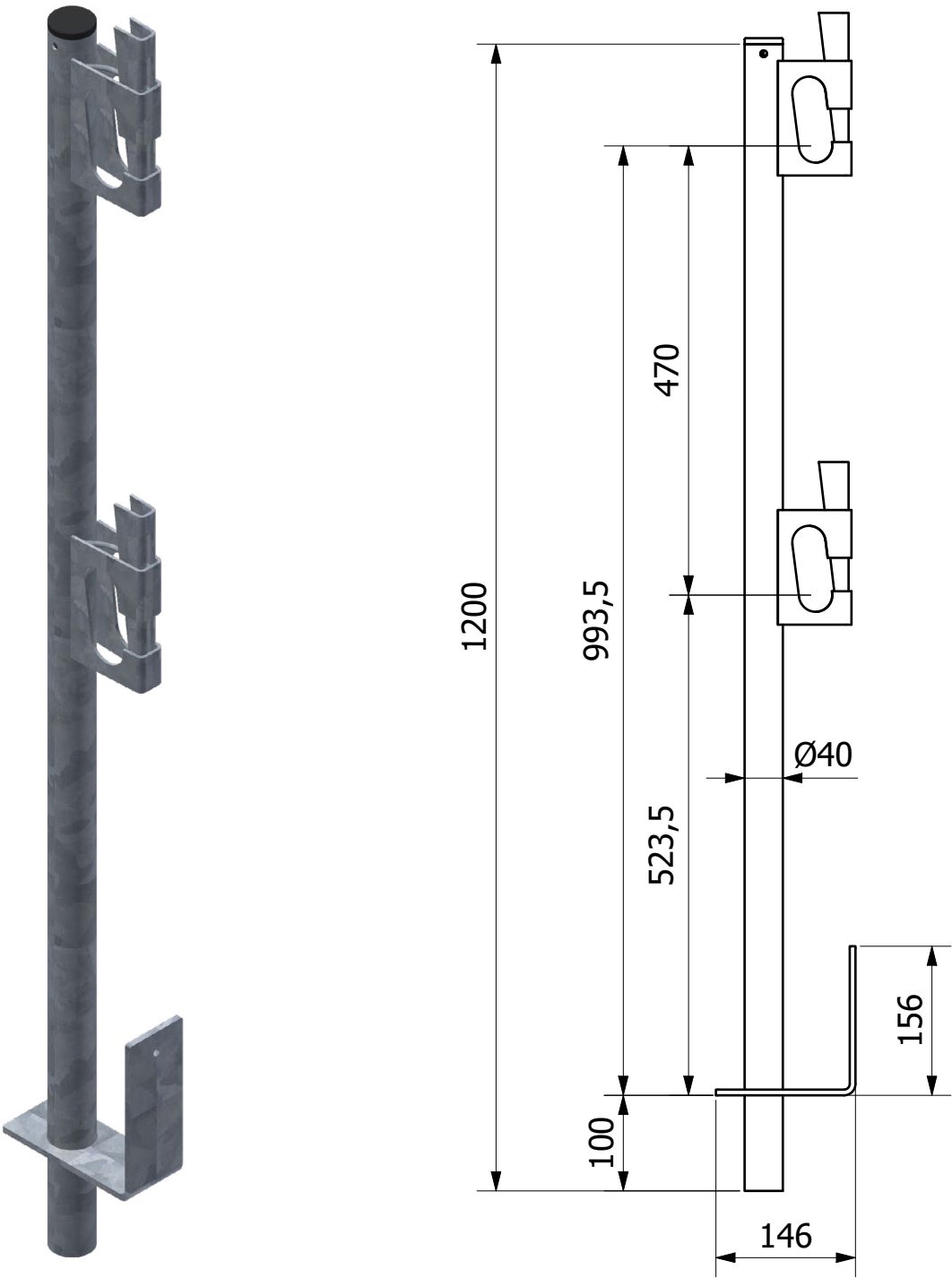
## Post reservation Ø40 lock tube

The galvanized lock post with Ø40 mm reservation is a peripheral safety element for concrete floors and is used with guardrails.

**Weight : 4.50 kg**

**Ref. : 411 - 0041**

- **Several possibilities** : lock tube or timber planks or barriers
- Steel pipe and under-steel pipe use Ø33,7
- Maximum center distance between posts of 2.40m
- **Galvanized finish**
- **Packing** : 100 piece / pallet
- **Compliant with NF EN 13374**





### Slab grip clamp 1 position lock

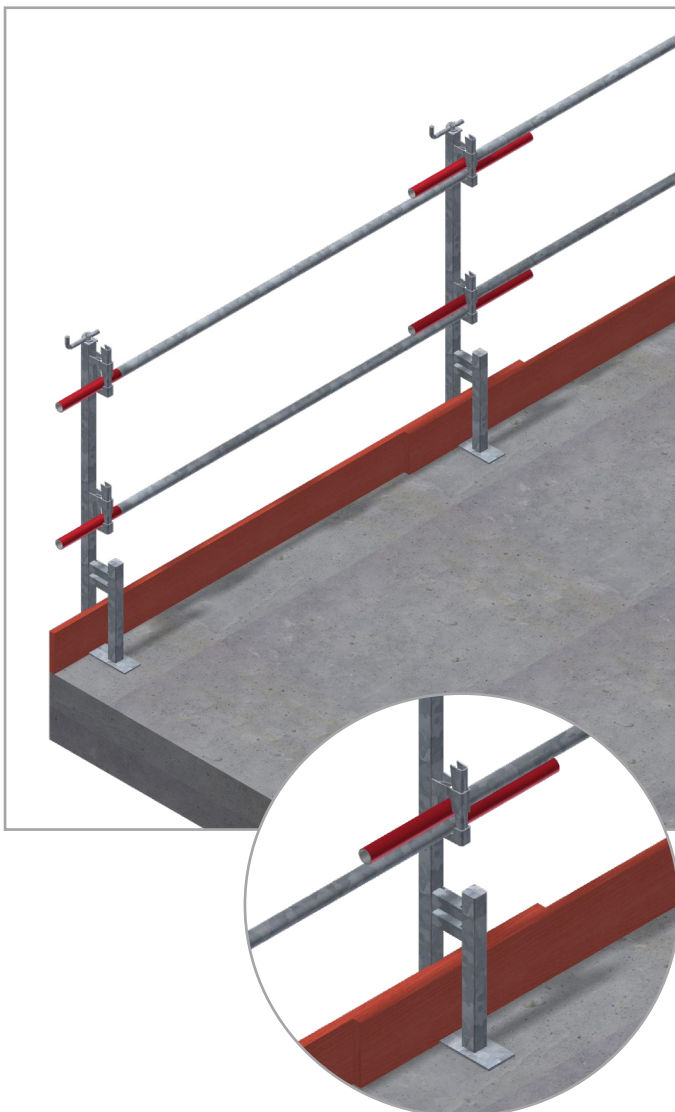
The slab grip clamp post with locker (45 cm opening) is a peripheral safety element for concrete floors and is used with guardrail.

**Weight : 7.70 kg**

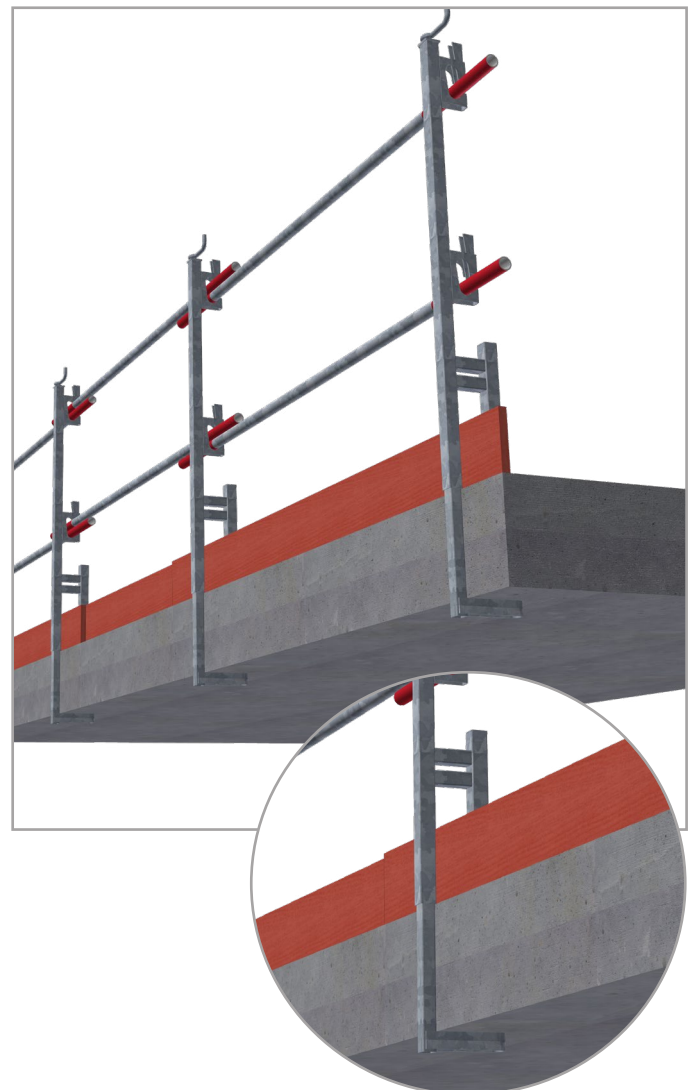
**Ref. : 411 - 0102**

- Steel pipe and under-steel pipe use Ø33,7
- Maximum center distance between posts of 2.40m
- **Galvanized finish**
- **Packing** : 100 piece / pallet
- **Option** : Other openings on customer reques.

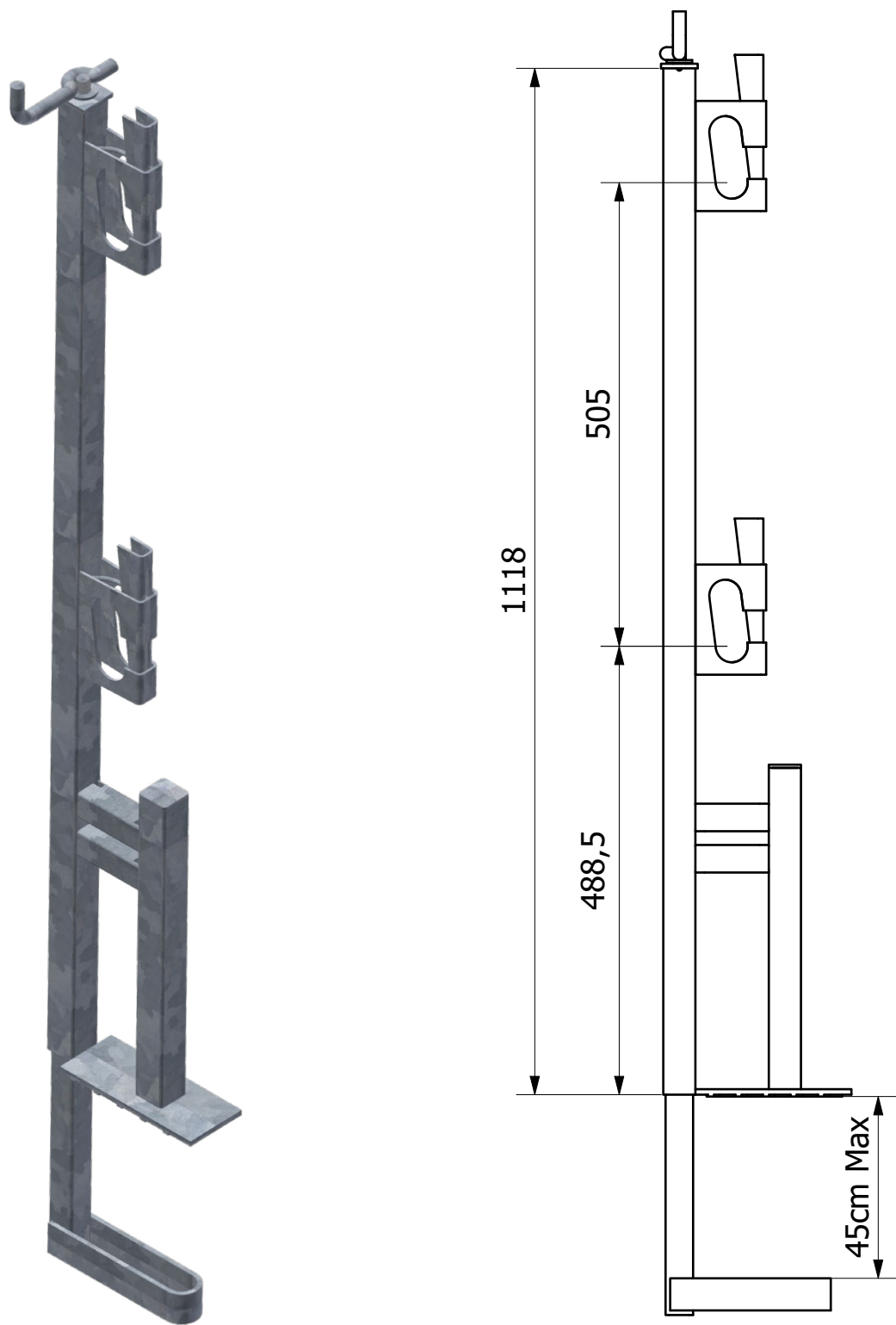
Inside



Outside







### Post reversible clamp

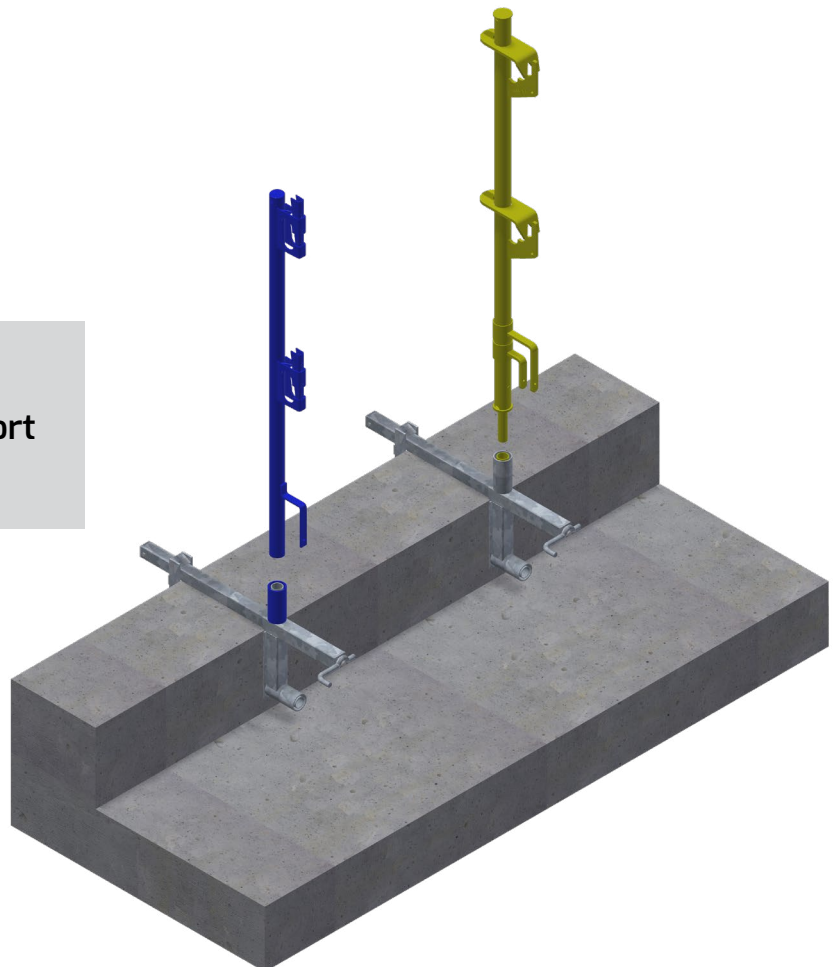
Reversible slab clamp with post either for board, locker or pigtail (net), painted or galvanized.

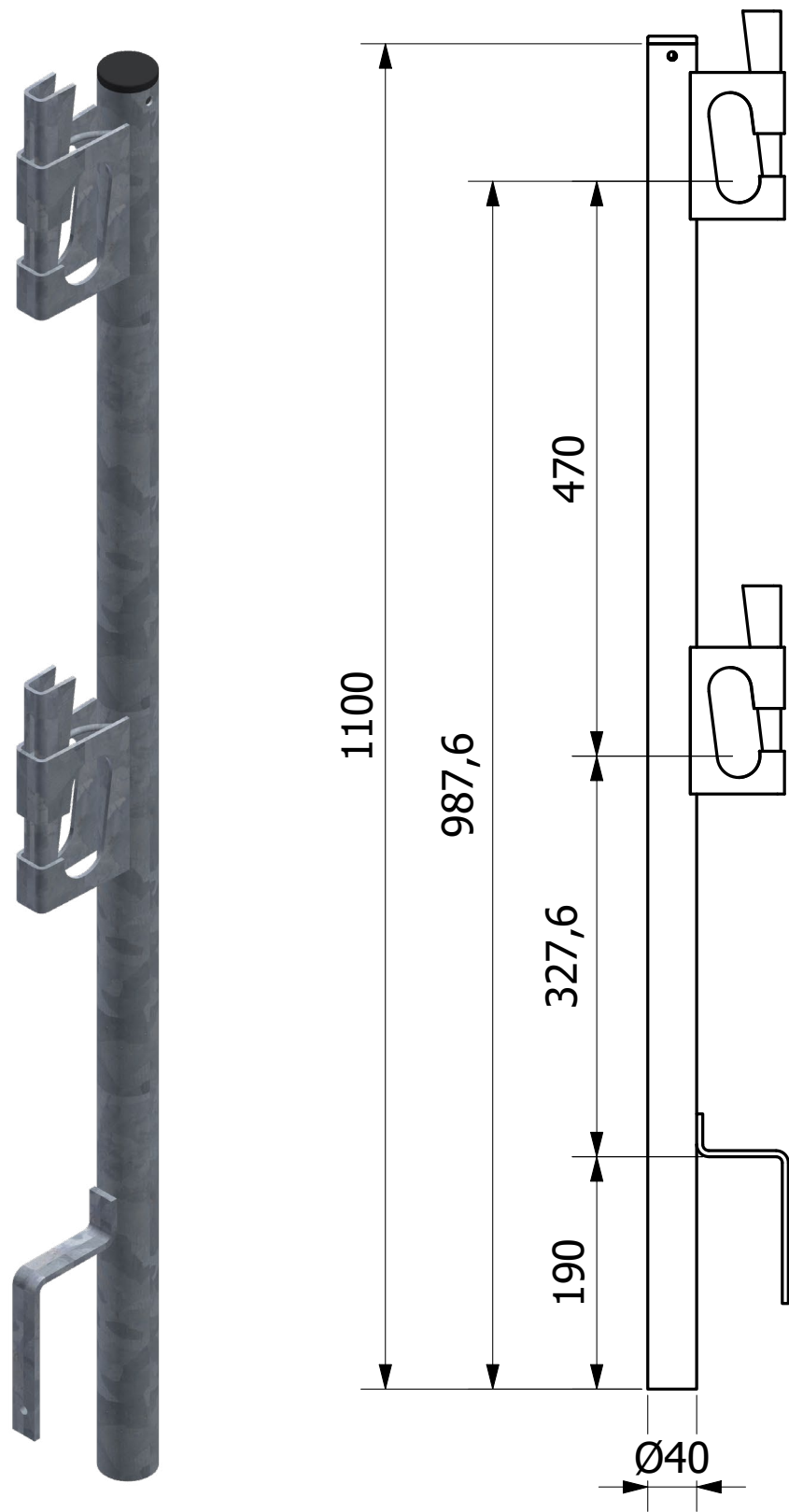
**Weight : 3.20 kg**

**Ref. : 411 - 0220**

- Steel pipe and under-steel pipe use Ø33,7
- Maximum center distance between posts of 2.40m
- **Several possibilities** : lock tube or timber planks or barriers
- **Galvanized finish**
- **Packing** : 100 piece / pallet
- **Option** : Other openings on customer request.

Can also be used with the  
reversible slab clamp support  
(page 28)





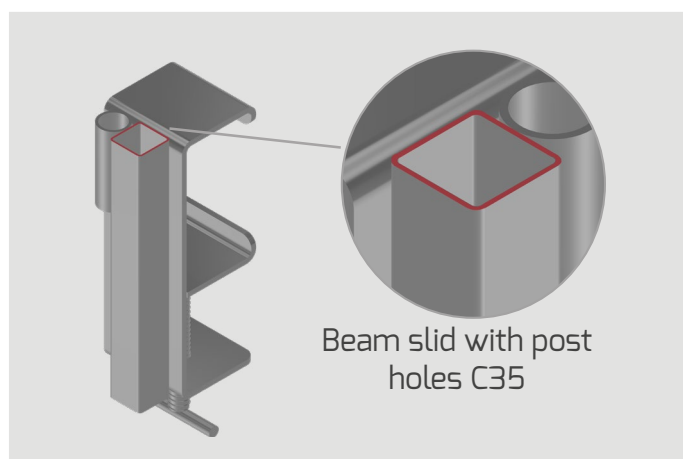
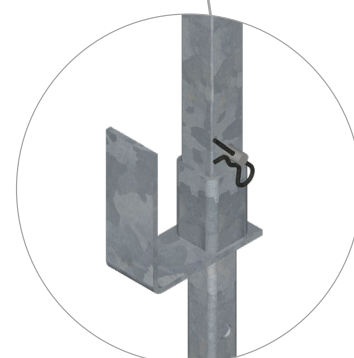
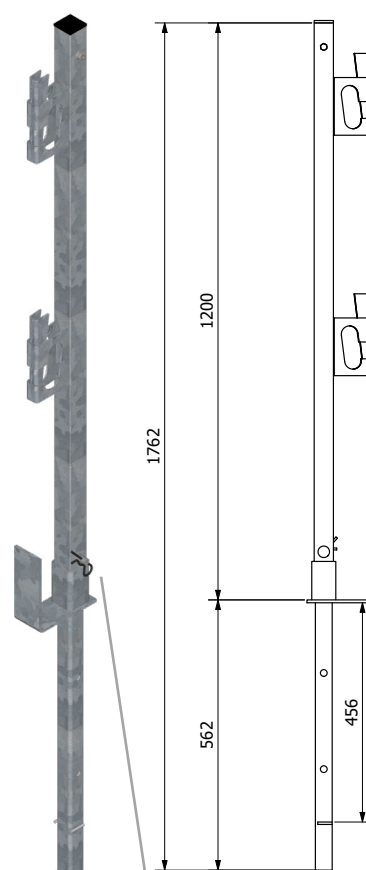
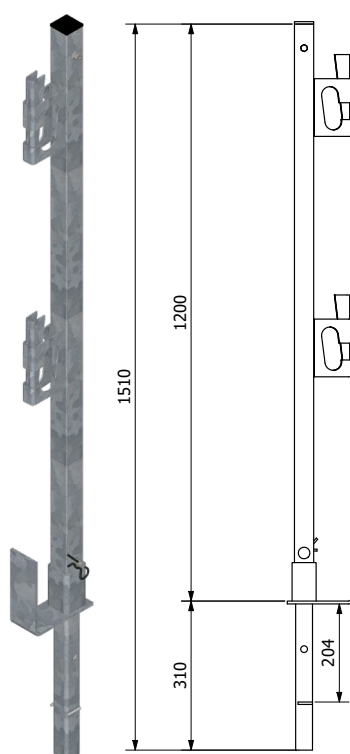
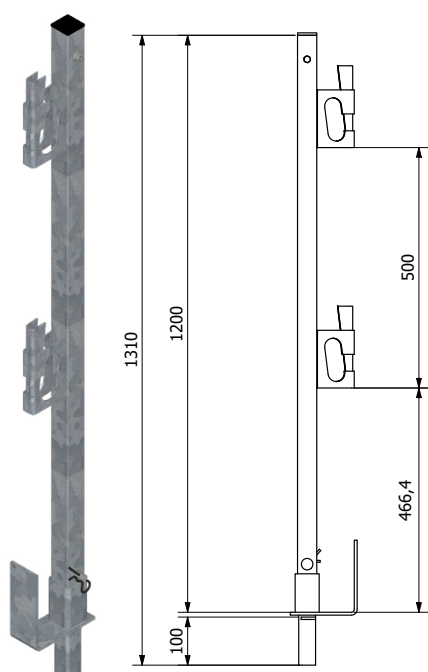
### Adjustable slid post C35 lock tube

The adjustable slide post has tube locks and can be adjusted in different ways depending on the configuration of the workstation's altimetry.

**Weight : 7.6 kg**

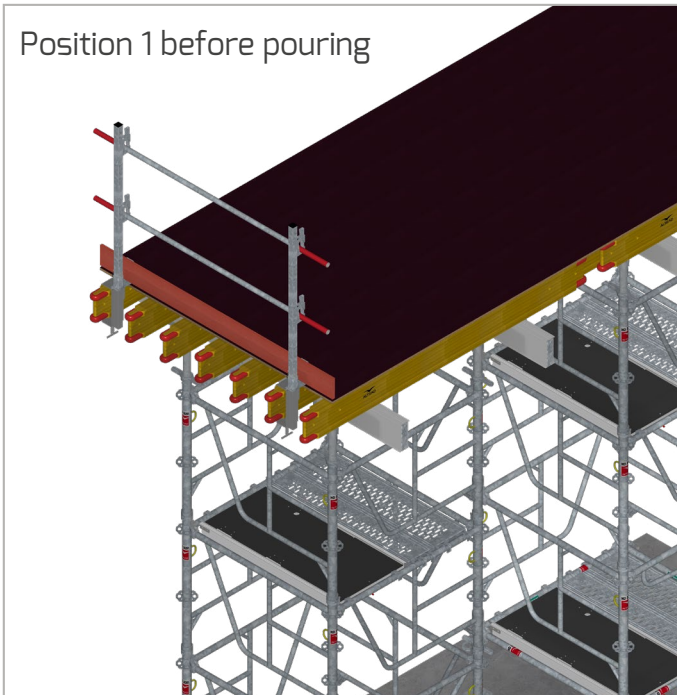
**Ref. : 411 - 0077**

- Steel pipe and under-steel pipe use  $\varnothing 33,7$
- Maximum center distance between posts of 2.40m
- Electrogalvanized or painted finish
- **Compliant with NF EN 13374**

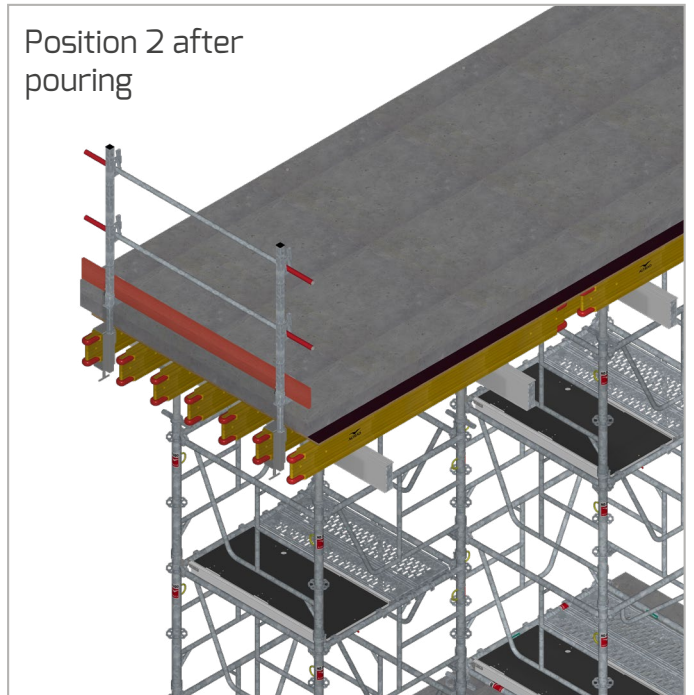


### Beam slid on secondary beam

Position 1 before pouring

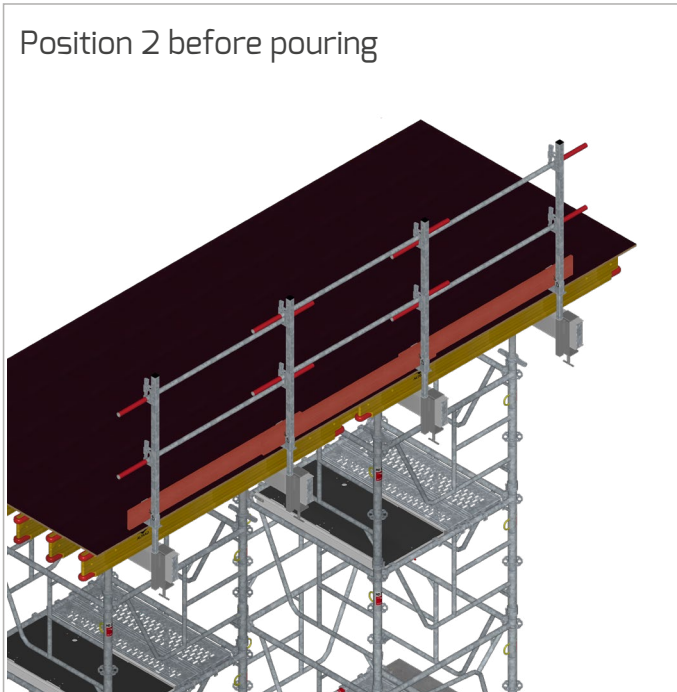


Position 2 after pouring

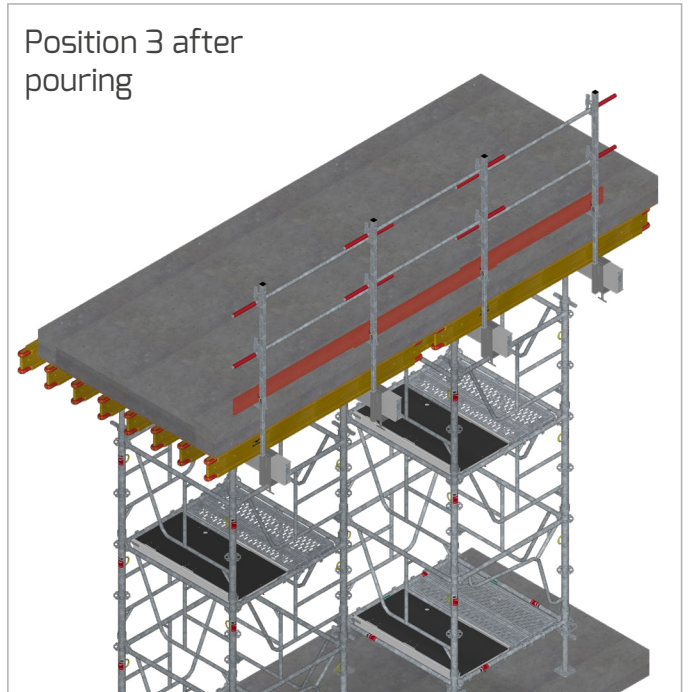


### Beam slid under secondary beam

Position 2 before pouring



Position 3 after pouring



## POSTS SUPPORTS

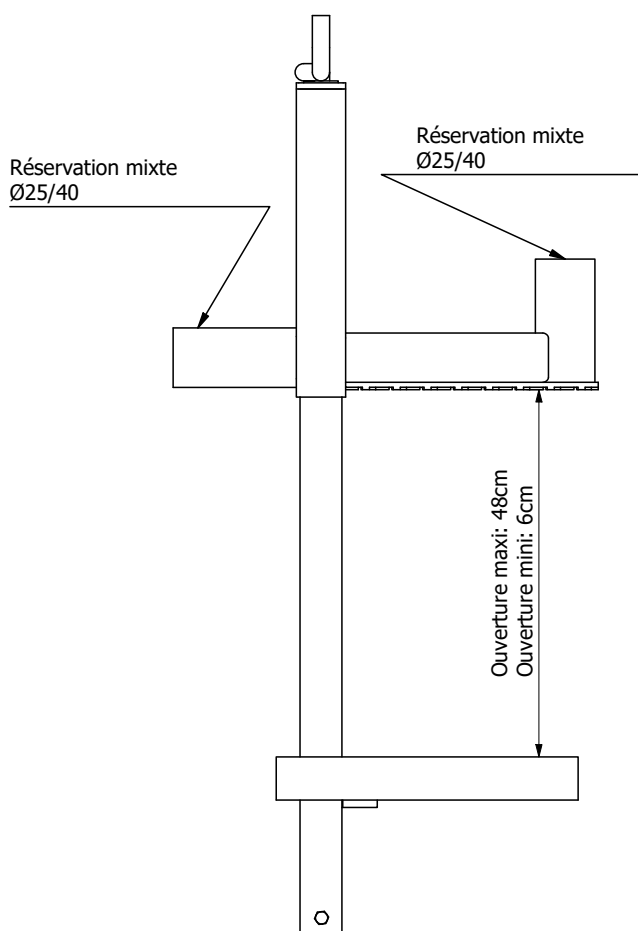
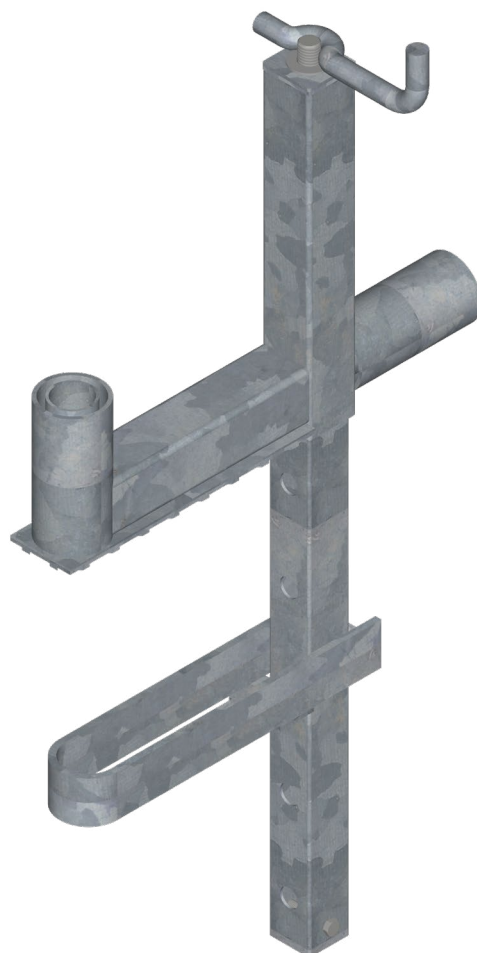
## Reversible slab clamp

Reversible slab clamp is intended for temporary collective protection on slab. They are intended to be adapted to horizontal (slab edges) and vertical (parapets, aprons) reception structures.

**Weight : 4.45 kg**

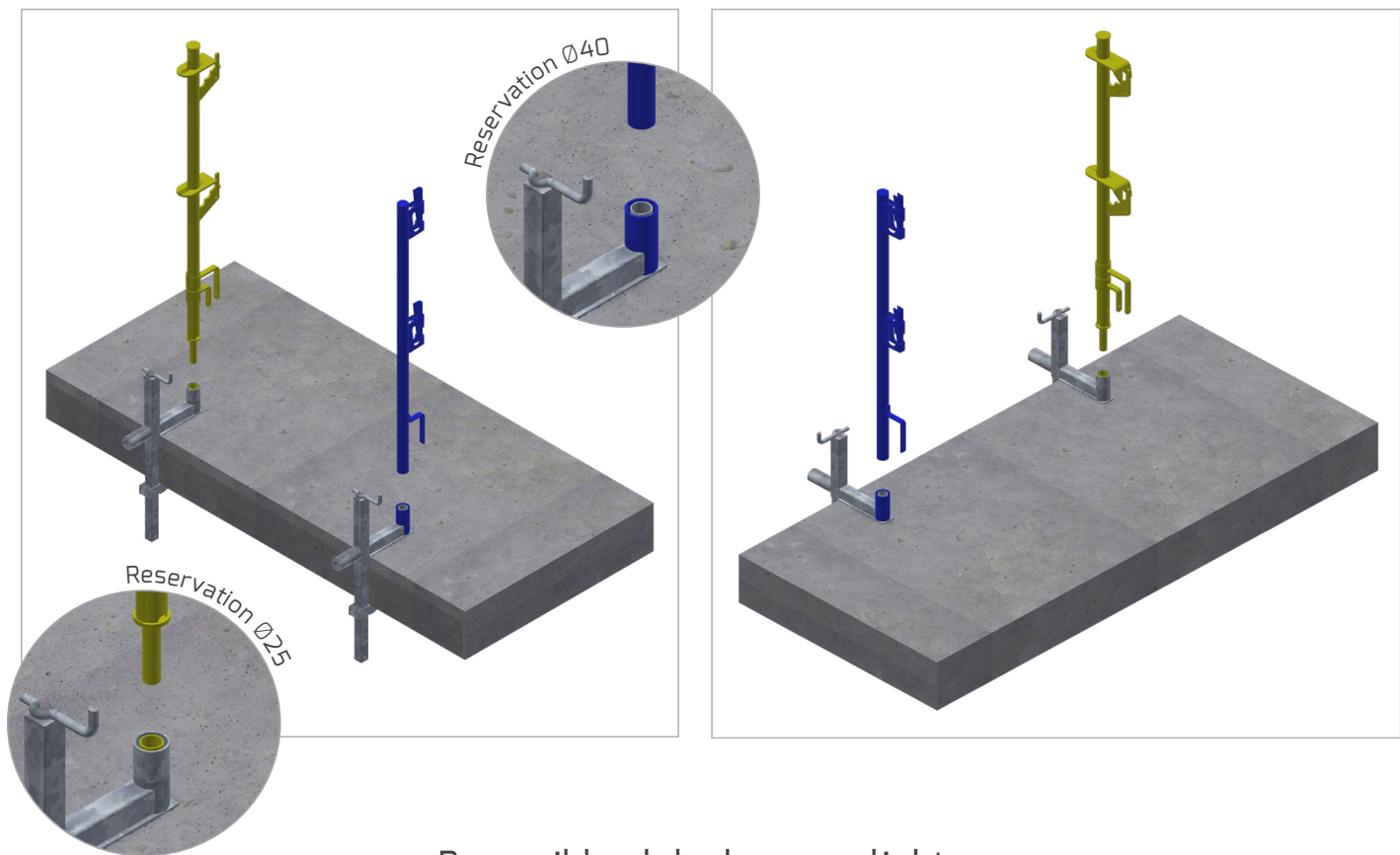
**Ref. : 411 - 0210**

- 2 positions, compatible with post reversible clamp (réf. 411-0220/0222)
- Electrogalvanized or painted finish
- **Packing** : 50 piece / pallet
- **\*Option** : mixte reservation Ø25 and Ø40 on request.

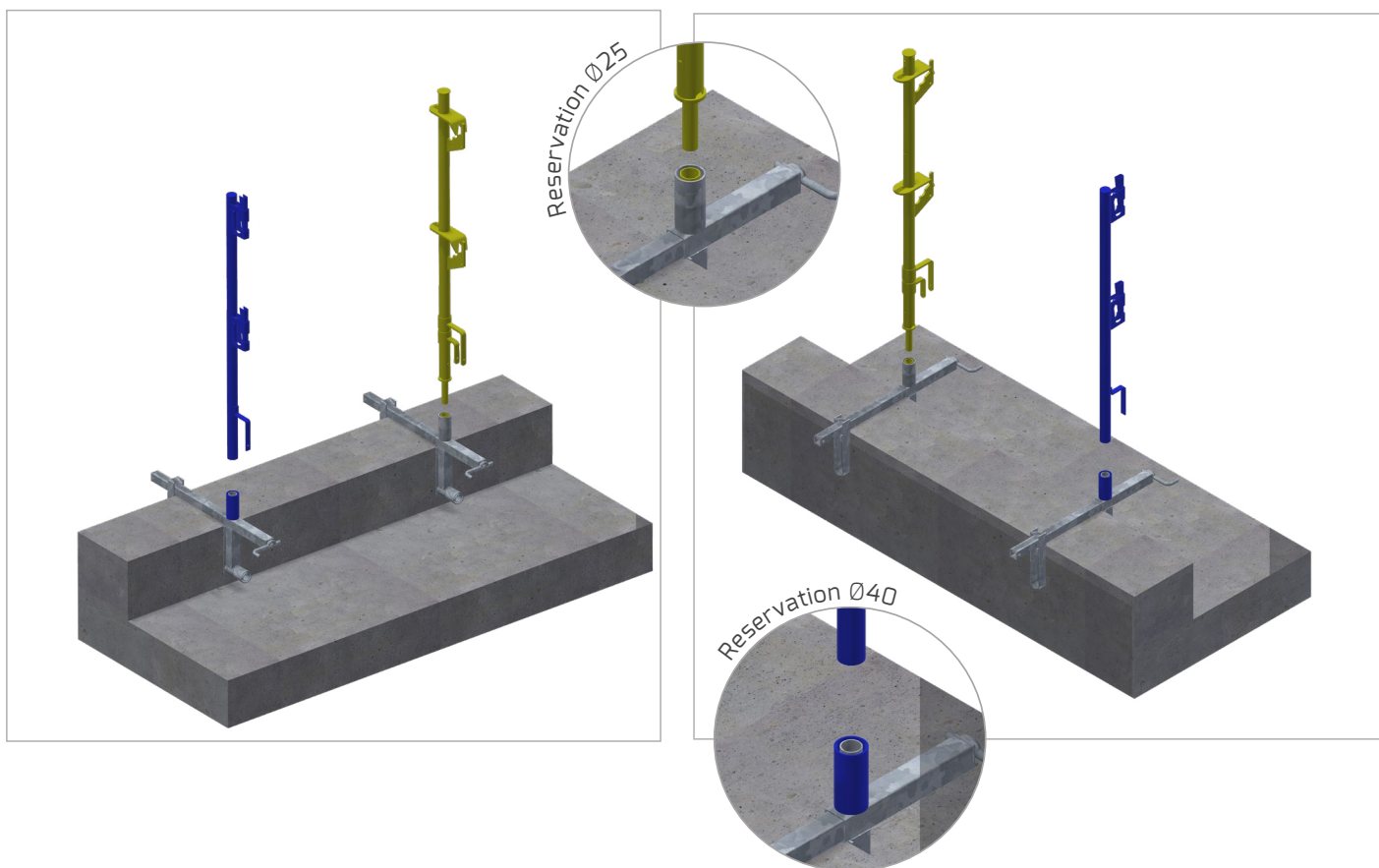




### Reversible slab clamp



### Reversible slab clamp on lighter



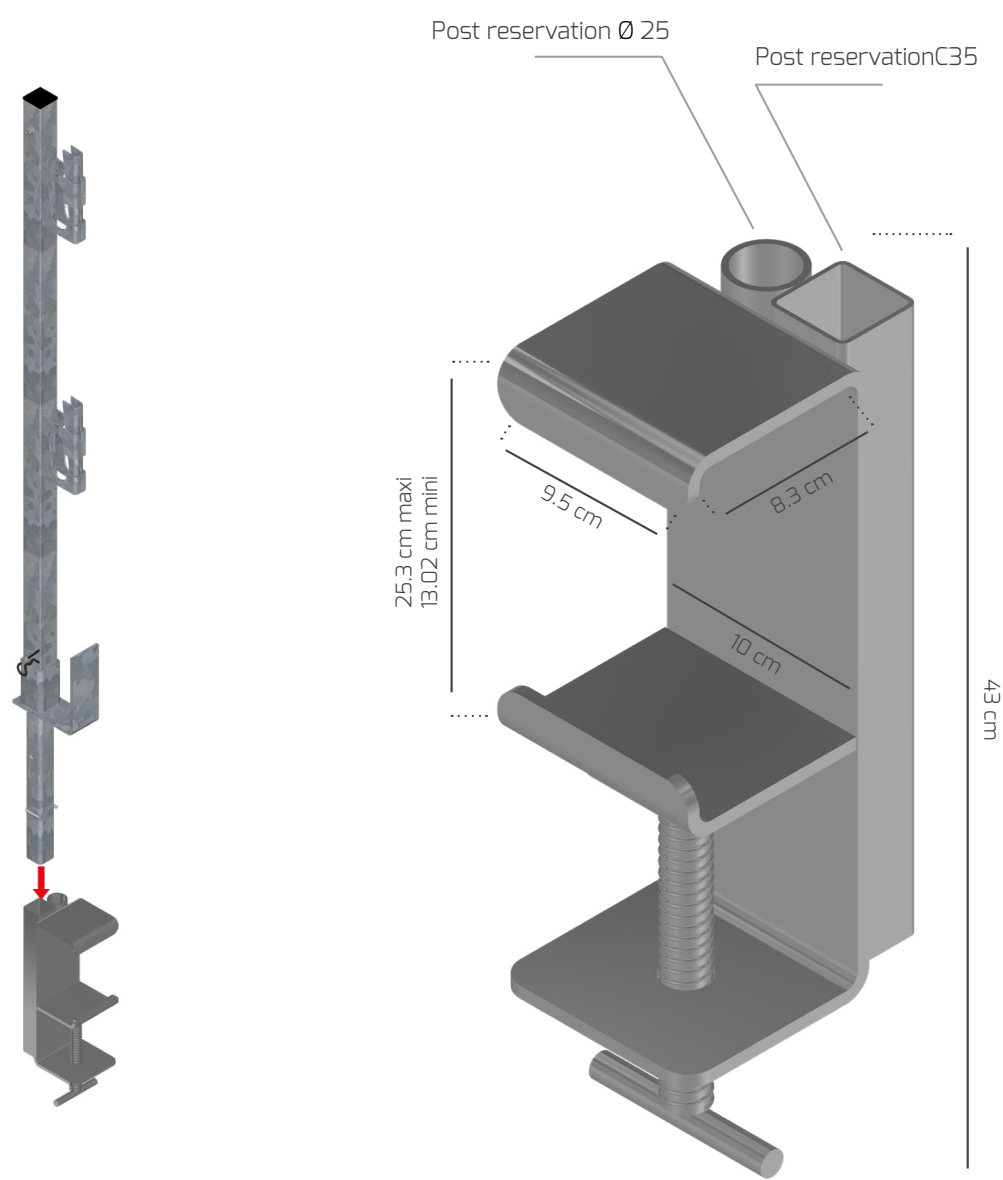
## Beam slid

The sliders are designed to fit on wooden or aluminum shoring beams laid on edge. C-shaped slider for faster and more efficient implementation on site. The positioning of the slider is done in complete **safety**.

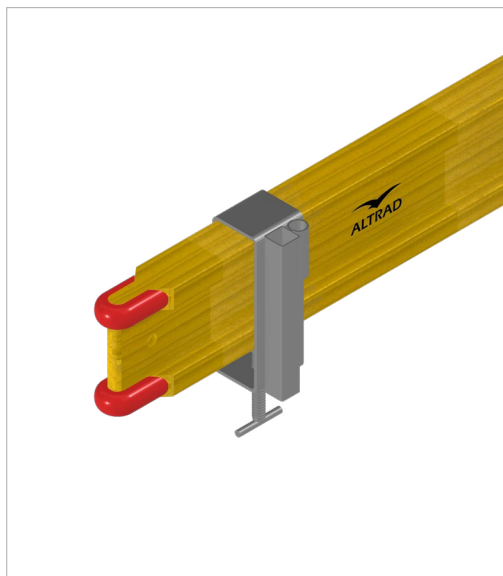
**Weight : 3.8 kg**

**Ref. : 411 - 0065**

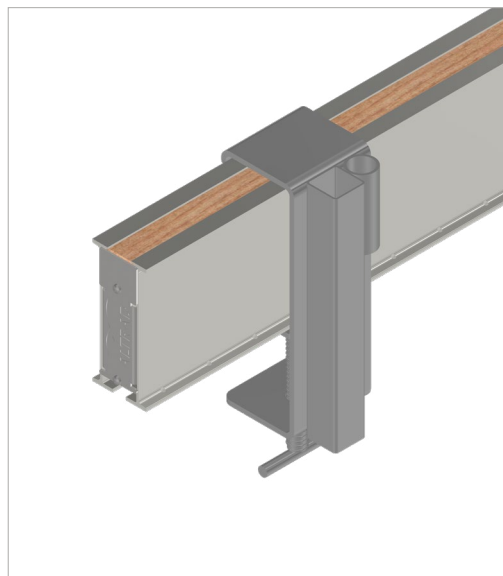
- Beam slid with post reservation C35 and Ø25.
- Electrogalvanized or painted finish
- **Implement** : assembly with H16 or H20 aluminum beams, H16 composite beams or H20 wooden beam.





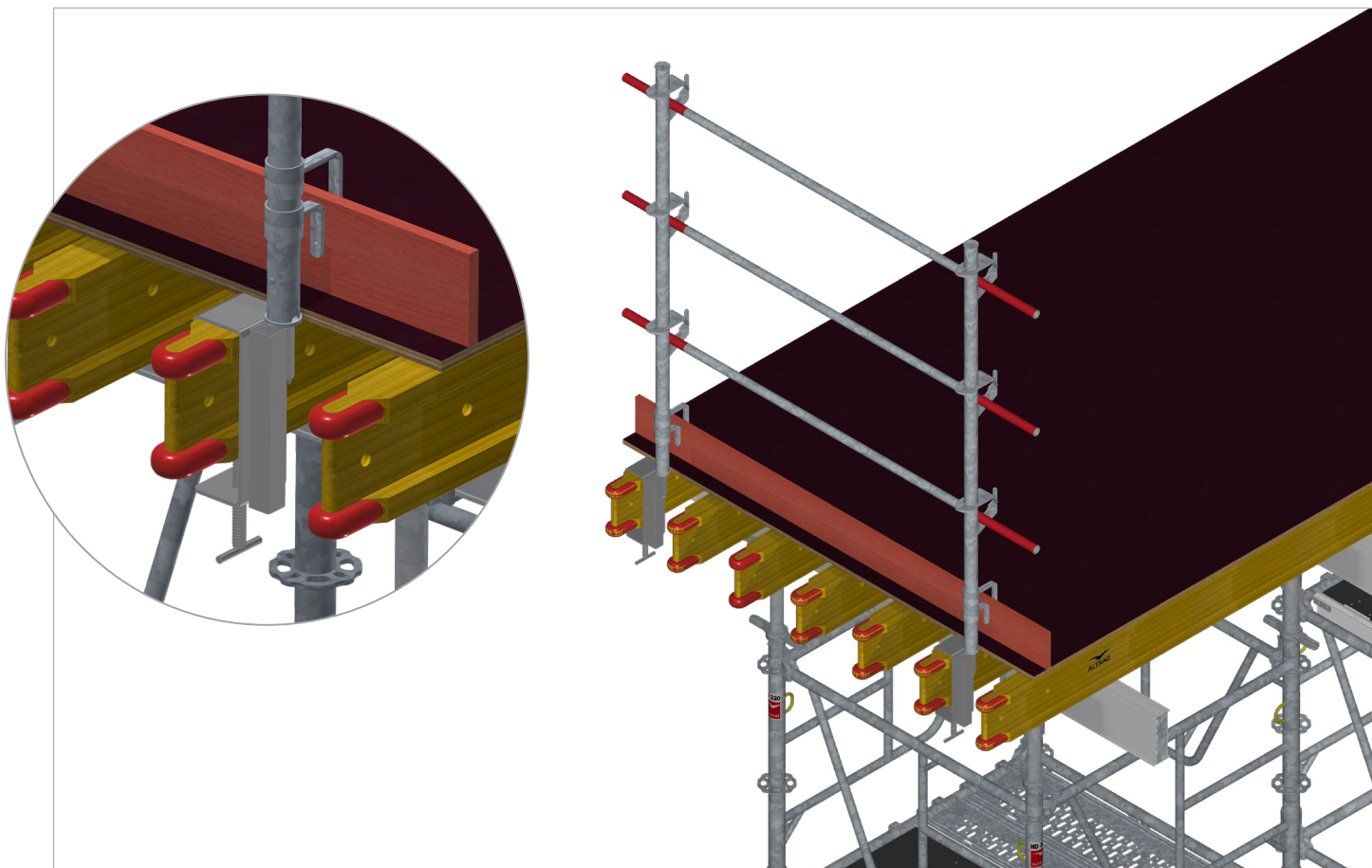


Assembly with H20 wooden beam



Assembly with H16 EVO, H20 EVO or  
H20-R-MAX aluminium beam

Beam slid on primary beam + multidirectional post Ø25 3 lockers



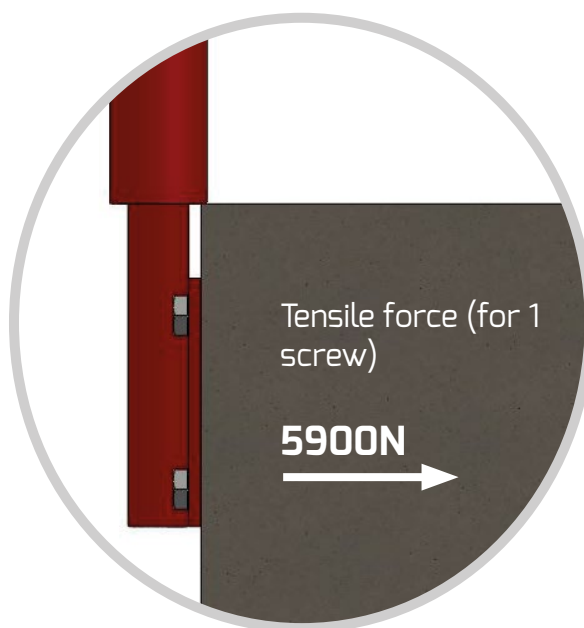
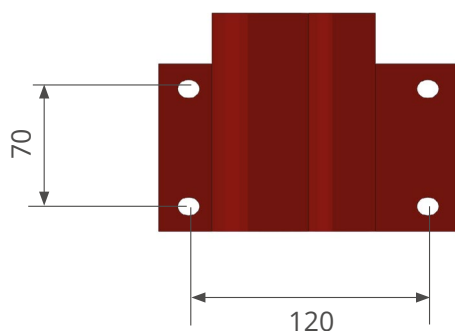
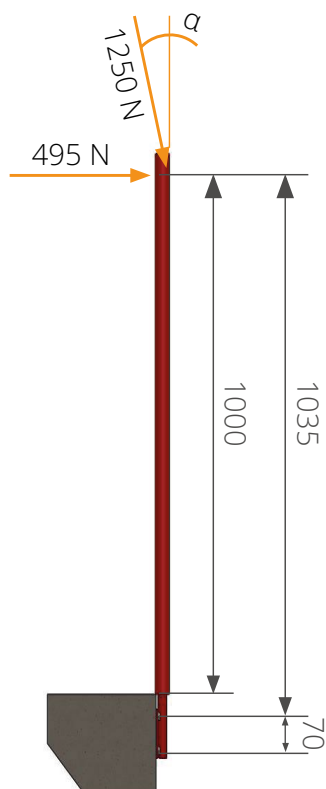
### Side-mounted support



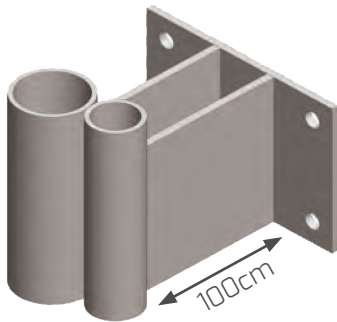
Side-mounted support for Ø40 and Ø25 reservation posts.

**Weight : 1.31 kg**  
**Ref. : 411-0890A**

- For use only with M10 mechanical or chemical anchors.
- To avoid the risk of the fixing pulling out: take into account the mechanical characteristics of the building material: brittleness, friability, etc.
- **Finish:** galvanised
- **Design and manufacture in accordance with standard EN 13374 + A1 of December 2018**
- **Class A**
- **Optional:** painted finish on request



## Side-mounted support offset 100mm

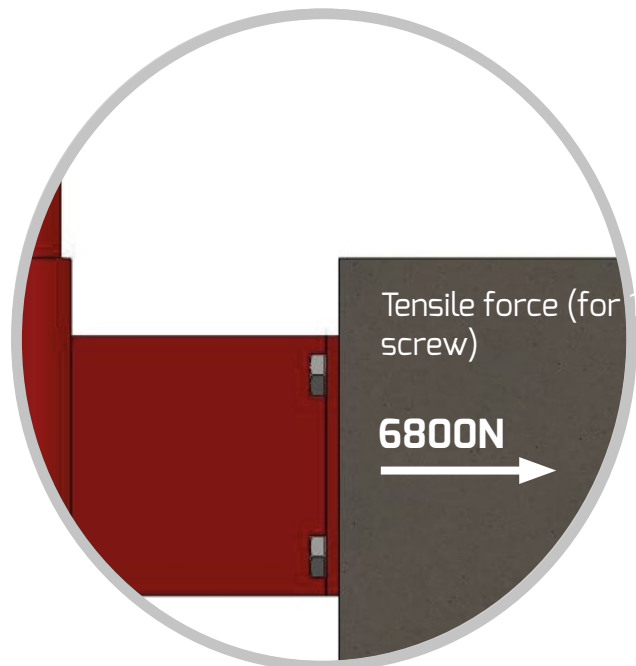
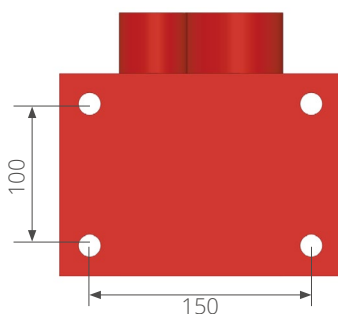
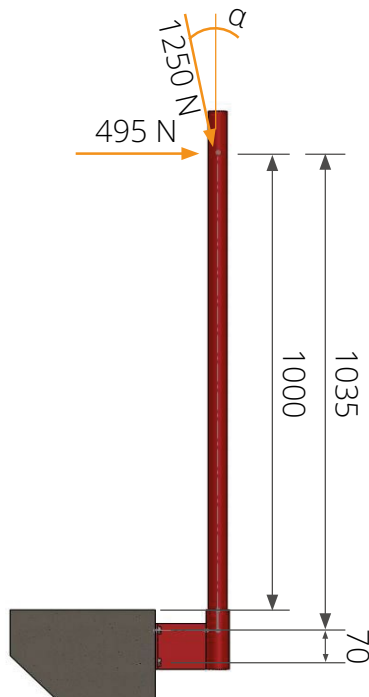


100cm offset support for Ø40 and Ø25 reservation posts.

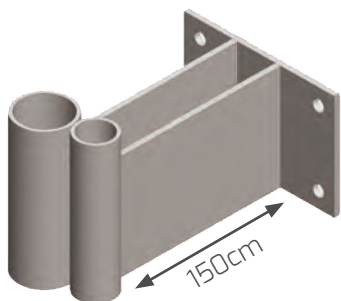
**Weight : 2.09 kg**

**Ref. : 411-0900A**

- For use only with M10 mechanical or chemical anchors.
- To avoid the risk of the fixing pulling out: take into account the mechanical characteristics of the building material: brittleness, friability, etc.
- **Finish:** galvanised
- **Design and manufacture in accordance with standard EN 13374 + A1 of December 2018**
- **Class A**
- **Optional:** painted finish on request



### Side-mounted support offset 150mm

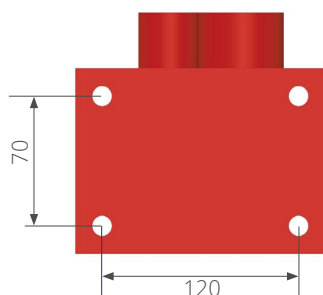
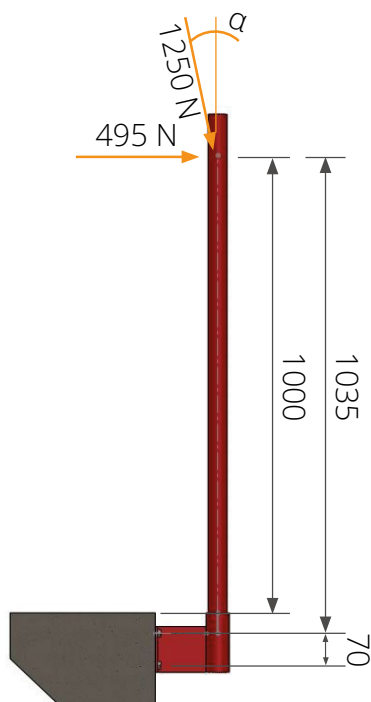


150cm offset support for Ø40 and Ø25 reservation posts.

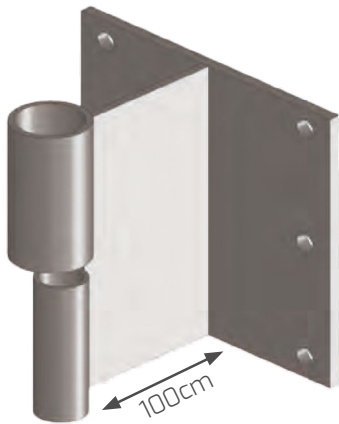
**Weight : 2.51 kg**

**Ref. : 411-0910A**

- For use only with M10 mechanical or chemical anchors.
- To avoid the risk of the fixing pulling out: take into account the mechanical characteristics of the building material: brittleness, friability, etc.
- **Finish:** galvanised
- **Design and manufacture in accordance with standard EN 13374 + A1 of December 2018**
- **Class A**
- **Optional:** painted finish on request



## Side-mounted support offset 100mm

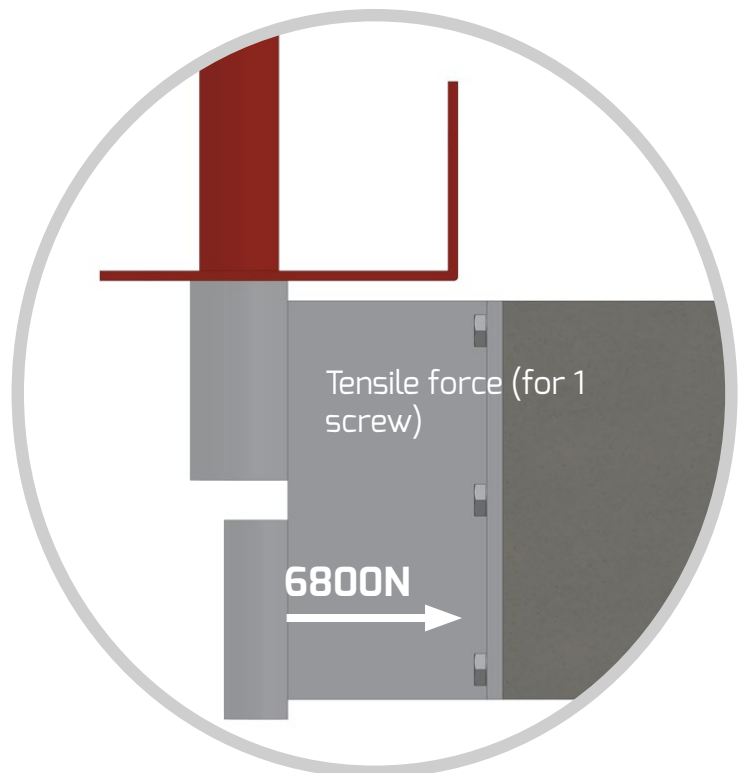
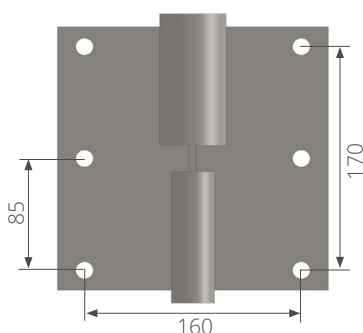
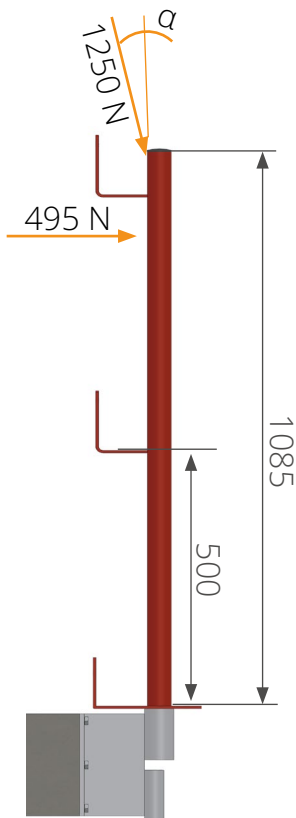


200x200 plate support, 100cm offset, for Ø40 and Ø25 reservation posts.

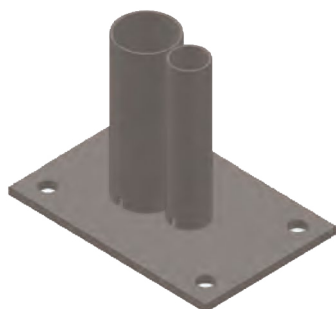
**Weight : 4.05 kg**

**Ref. : 411-0915A**

- For use only with M10 mechanical or chemical anchors.
- To avoid the risk of the fixing pulling out: take into account the mechanical characteristics of the building material: brittleness, friability, etc.
- **Finish:** galvanised
- **Design and manufacture in accordance with standard EN 13374 + A1 of December 2018**
- **Class A**
- **Optional:** painted finish on request



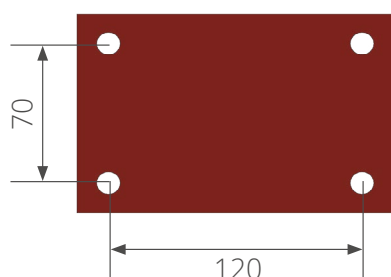
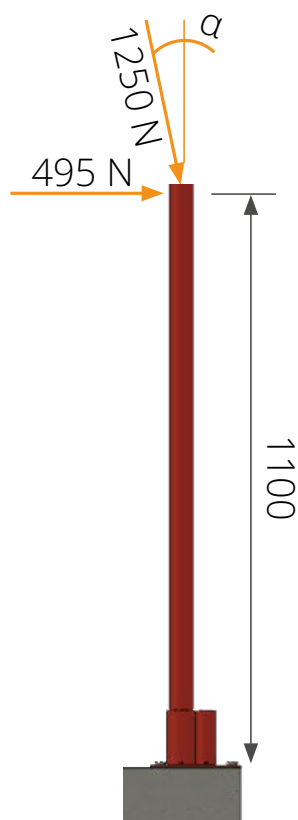
### Top-mounted support offset 100m



Angle support on slab for osts reservation Ø40 et Ø25.

**Weight : 1.31 kg**

**Ref. : 411-0920A**

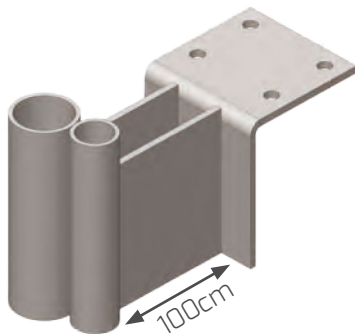


- For use only with M10 mechanical or chemical anchors.
- To avoid the risk of the fixing pulling out: take into account the mechanical characteristics of the building material: brittleness, friability, etc.
- **Finish:** galvanised
- **Design and manufacture in accordance with standard EN 13374 + A1 of December 2018**
- **Class A**
- **Optional:** painted finish on request



When using this support, it must be oriented so that the 120 rib is in the same direction as the forces acting on the post.

## Side-mounted top fixing support offset 100mm

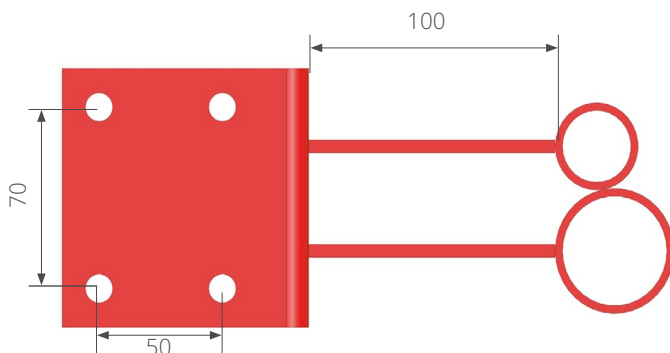
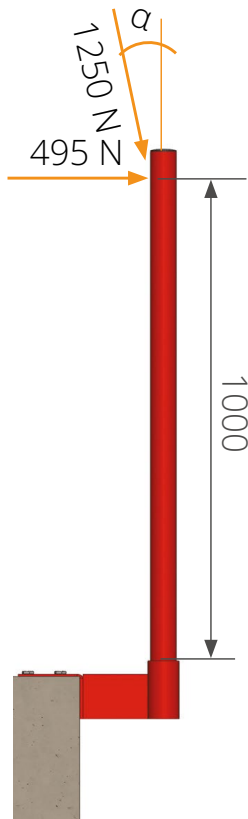


Angle support on slab for posts reservation Ø40 et Ø25.

**Weight : 2.40 kg**

**Ref. : 411-0925A**

- For use only with M10 mechanical or chemical anchors.
- To avoid the risk of the fixing pulling out: take into account the mechanical characteristics of the building material: brittleness, friability, etc.
- **Finish:** galvanised
- **Design and manufacture in accordance with standard EN 13374 + A1 of December 2018**
- **Class A**
- **Optional:** painted finish on request







COFFRAGE  
& ÉTAIEMENT  
LOCATION  
VENTE  
MONTAGE  
ALTRAD

COFFRAGE  
& ÉTAIEMENT  
LOCATION  
VENTE  
MONTAGE  
ALTRAD

COFFRAGE  
& ÉTAIEMENT  
LOCATION  
VENTE  
MONTAGE  
ALTRAD



# BARRIERS & GUARDRAILS

ALTRAD COFFRAGE & ETAIEMENT HAS A WIDE RANGE OF  
COLLECTIVE SECURITY FOR ALL TYPES OF CONSTRUCTION SITES

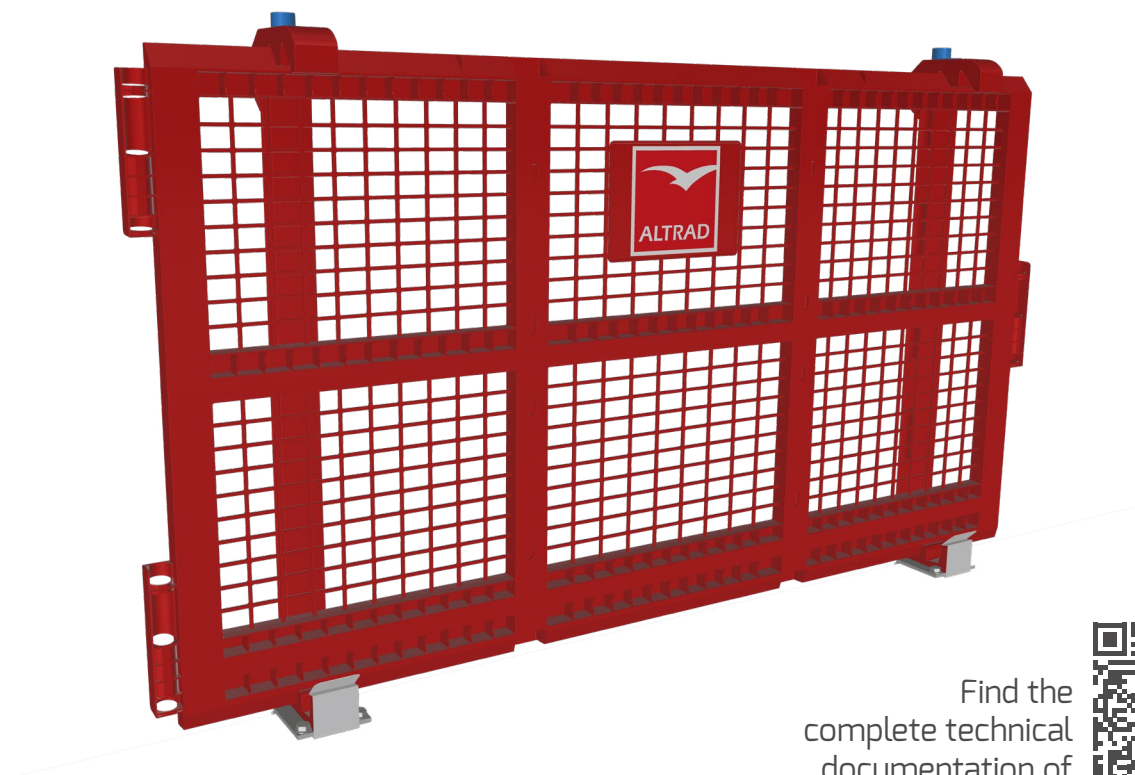
### BARRIERS & GUARDRAILS

#### Safetyplast

The SAFETYPLAST solution makes it possible to create a temporary site guardrail with an intuitive installation principle.

- **Container** : 25 guardrails units
- **Durable** : 8-year guarantee
- **3 simples actions for an installation** : installation of the railing amounts, installation of the sheath, installation of the guardrail and locking of the sheath
- **Light, modular, non-cutting, adaptable**

- Structure of the railing: HDPE
- External dimension: 2040 x 1100 mm
- Barrier weight: 10.5 kg
- System weight with 1 sheath: 11.80 kg
- HDPE sheath with locking system
- Steel potelet zinged , ext diameter: 33,7 mm
- Reference standard: EN ISO 13374 2004
- Product class: A and B



Find the  
complete technical  
documentation of  
SAFETYPLAST®



## Barriers

### PLINTH STEEL MESH BARRIERS

Steel mesh barriers are used for temporary edge protection.

- Compliant with NF EN 13374
- Fixing on slab



PRODUCTS	REFERENCES	WEIGHT (KG)	CHARACTERISTICS
Steel mesh barriers	<b>412-0526</b>	19.4	2.60 x 1.10m Electro-galvanized steel - epoxy paint mesh 6
Steel mesh barriers	<b>412-0513</b>	10.5	1.30 x 1.10m Electro-galvanized steel - epoxy paint mesh 6
Post	<b>412-0540</b>	2.20	Height 1.5m - Galvanized steel 35x35
Foot base	<b>412-0560</b>	1.3	Galvanized steel
SMB holder	<b>412-0565</b>	1.3	Galvanized steel
Barrier box	<b>412-0581</b>		Steel Capacity : 75 barriers

### Steel pipe

**Weight :** 5.60 kg

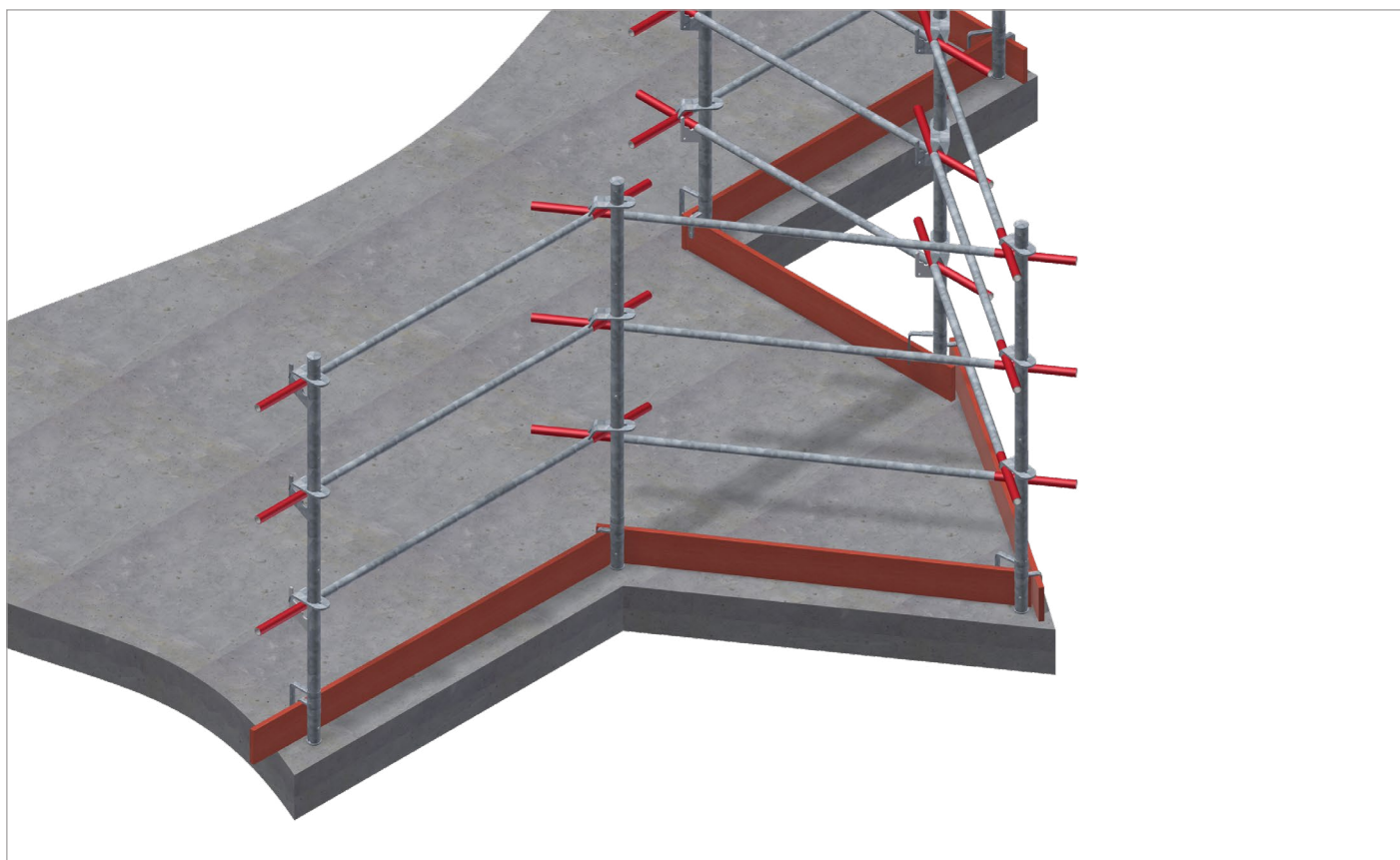
**Length :** 300 cm

**Ref. :** 412 - 1530

- **Dimension:** Ø33.7 x 2.5 (thickness) mm
- **Galvanized finish**
- **Compatibility:** with lock tube posts
- Use with a baseboard (height 15cm)
- Compliant with NF EN 13374

- Steel pipe and understeel pipe must always be positioned on the inside of the building.
- Steel pipe must be used in the legal use area (not painted red). The maximum area of use for fixing steel pipe to posts is 2.40m.
- The 30cm red end caps allow a quick visual check of the protrusion of the steel pipe. This prevents any dislocation in the event of an accident.
- Specific lengths on request.







### Lift shaft guardrail

**Ref. 412 - 4190** - Adjustable lift shaft guardrail: adjustable width

**Ref. 412 - 4155** - Fixed lift shaft guardrail: fixed width and adjustable height

- Galvanized finish
- **Weight (handportable by 2 persons)** : adjustable 55 kg / fixed 41kg
- Unloosable Inner tubes.
- Maximum concrete wall thickness: 25 cm (other thicknesses available on demand)

#### ADJUSTABLE



Bracket  
(Sliding  
part)

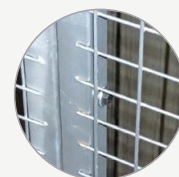


Bracket  
(Fixed part)

#### FIXED



Inner tube  
adjustment

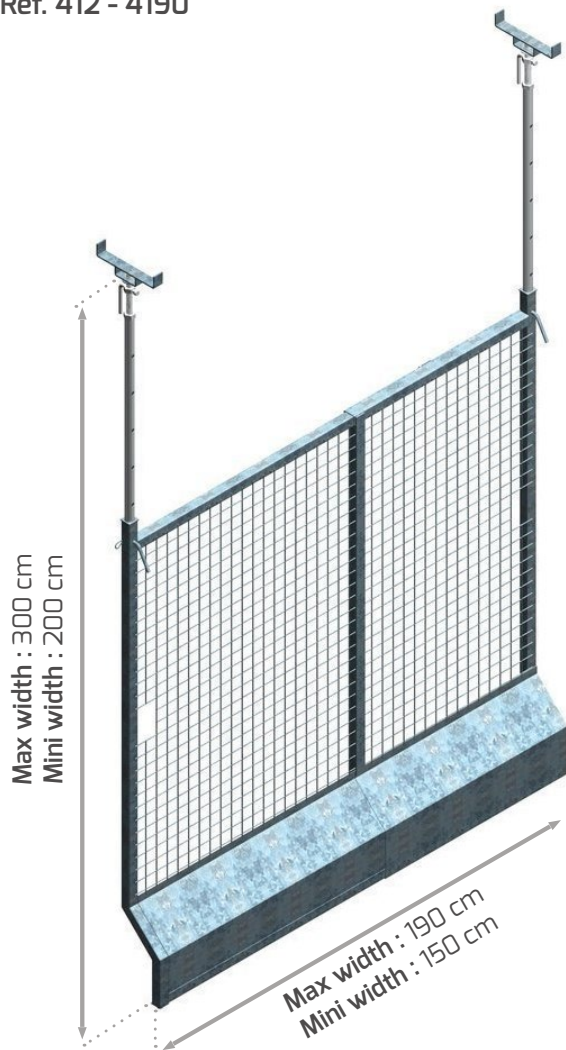


Connections  
by bolts



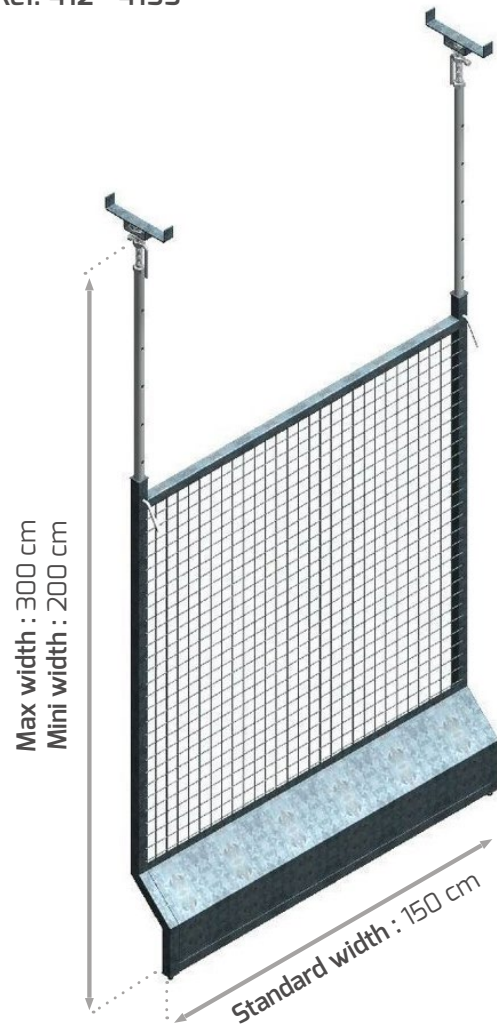
## ADJUSTABLE

Ref. 412 - 4190



## FIXED

Ref. 412 - 4155

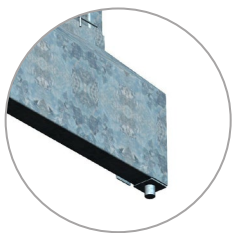


## ASSEMBLY



### Slide adjustment :

- Quick adjustment with holes drilled every 15cm,
- Additional fine adjustment with magot rod.



### Positioning pins :

- Ø22mm holes must be drilled in the tile to insert the pins.









**+40** countries  
where we have already worked



**HEAD OFFICE & EXPORT**

Parc d'activités de la Verdière II  
13880 Velaux - FRANCE  
+33 (0)4 42 10 84 15  
ace.export@altrad.com



[www.altrad-coffrage.com](http://www.altrad-coffrage.com)