



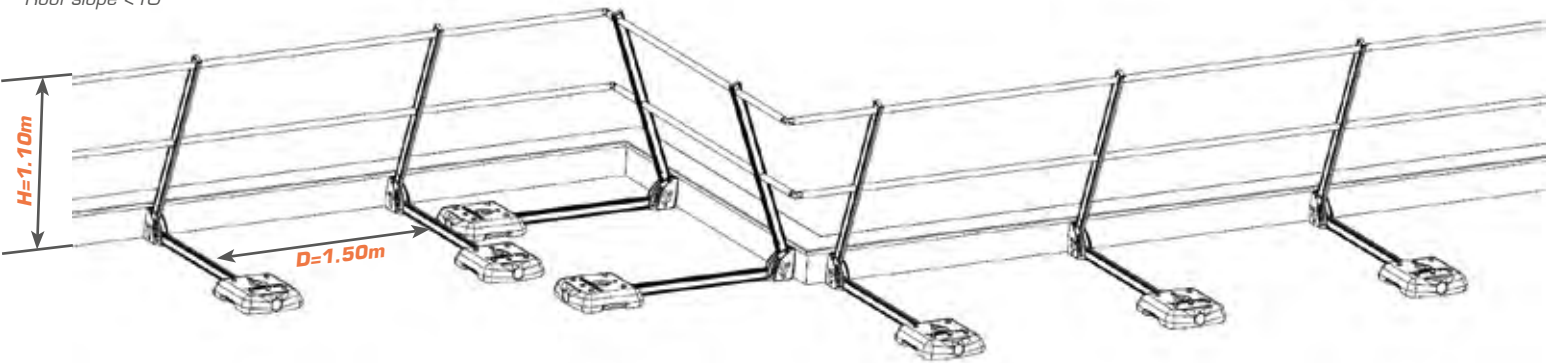
PRODUCT ADVANTAGES

- ▲ Made of aluminium
- ▲ Effective protection of the waterproofing membrane with the ergonomic, rounded shape of the counterweight and the front bumper. The plastic covering of the counterweight prevents any cracking of the concrete block
- ▲ Ease of installation: pre-assembled unit
- ▲ Stability of the system: the counterweight, that can be handled by one single person, includes an ergonomic handle, and assures the stability of the system
- ▲ Optimised storage: four locating pins ensure stacking and facilitate storage of the counterweights
- ▲ Free circulation of the rainwater under the crossbar



FREE-STANDING ALILISSE

Roof slope <10°

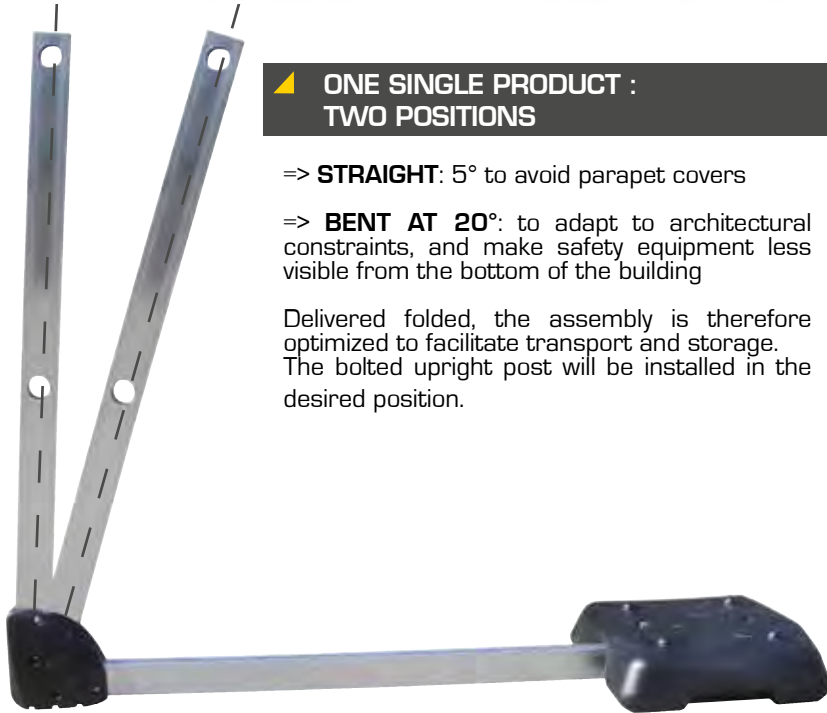


ONE SINGLE PRODUCT : TWO POSITIONS

=> **STRAIGHT**: 5° to avoid parapet covers

=> **BENT AT 20°**: to adapt to architectural constraints, and make safety equipment less visible from the bottom of the building

Delivered folded, the assembly is therefore optimized to facilitate transport and storage. The bolted upright post will be installed in the desired position.

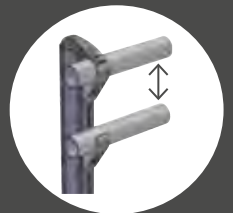


EASY STORAGE AND TRANSPORT



Standard pallet
1 200 x 800 mm

To complete and harmonize your existing installations, this upright post can be supplied with adjustable clamps.



COMPONENTS ALILISSE®

Top and middle rail

In 36mm extruded aluminium.
Supplied in 3m length, reduced at one end.

AL-LISSE



AL-EAA



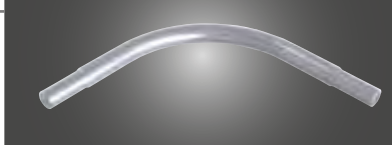
Articulated corner coupling

Allows making corners from 70° to 180°. Easily adjustable on site. Diameter and material are identical to the rail for an aesthetic continuity.

Bent corner

Can be fitted into the rails to ensure an aesthetic continuity. Easy installation.

AL-ANG90



AL-ERF



Fixed straight coupling

For assembling longitudinal sections of non-reduced rails and middle rails. Fits directly inside the top and middle rails.

Assembly unit with counterweight

Rail and upright made of aluminium. Concrete counter-weight with plastic covering. Folded to optimize storage.

AL-A.EL



AL-BOUCH



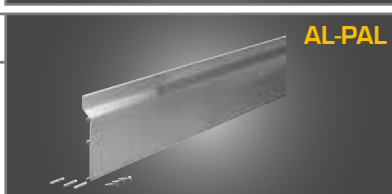
End plug

Discret ribbed plug for a perfect safety of the ends of top and middle rails.

Aluminium plinth

The railing must be fixed with a plinth if the parapet measures less than 100mm (roofs) or 150mm (machines) in relation to the circulation area. End plugs and corners available.

AL-PAL



AL-EXTM

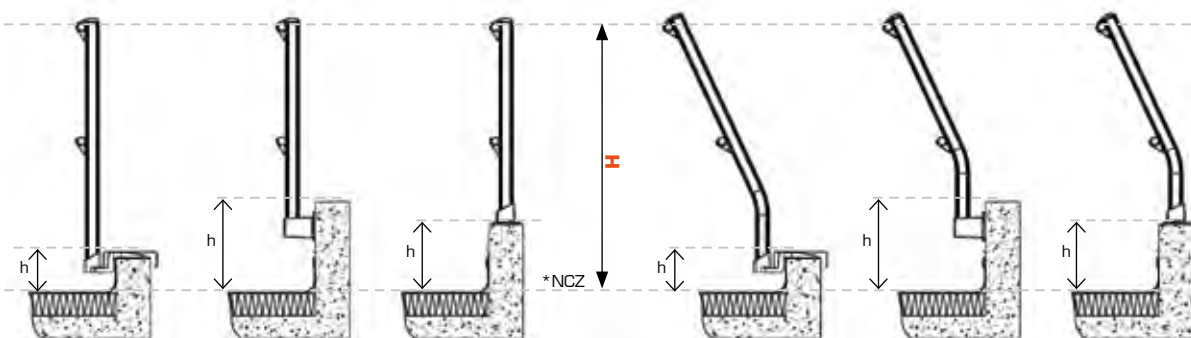


Wall-mounting part

Enables the mounting of rails on any wall. Fixed directly on the wall with 2 fixings diameter 10mm maxi (not included).



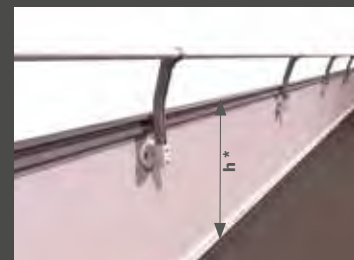
Different choice of upright according to the type of mounting plate and the height of the parapet



$1000 < H < 1100$ mm (NF E85-015)
 $H > 1100$ mm (EN ISO 14122-3)

*NCZ : Normal circulation zone
(if there is some gravel, take the measurements above the gravel)

Parapet collar



Can be used in the case where a building has a peripheral parapet with a height of up to $h^* =$

50cm for roofs
60cm for machines



ALILISSE ON PARAPET



RAIL ADJUSTABLE FIXING SYSTEM

The top and middle rails are maintained by a **patented clamping mechanism**.

Possible adjustment of the middle rail on the upright to standardize the intervals depending the height of the parapet.



INTERFACE FOR ISOLATED PARAPET

The RT2012 Thermal French Regulation usually requires a parapet isolation.

According to these requirements, a specific plate has been designed to allow the guardrail fixing, up to a 130 mm-insulating-inner-layer.

Complying with the Professional recommendations of the CFSE (French Waterproofing Committee).

COMPONENTS ALILISSE®

Extruded aluminium upright

Delivered with the fixing kit for top and middle rail pre-assembled. Allows the adjustment of the height of the middle rail on site.



Interface for isolated parapet

Reinforced bracket, made of galvanized steel, to be used with the side mounting plate.



Side mounting plate

Used when installing a guardrail against the parapet.
Has a significant 70mm offset to make it compatible with the existing parapet cover.



Vertical mounting plate

Used when installing a handrail on the parapet.
Can be mounted on a metallic or concrete support. Possible adjustment of the verticality.

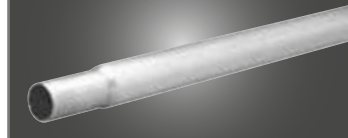


Offset mounting plate

Installation on a concrete or metallic parapet, with 2 fixings M10 or 1 fixing M12 (not supplied).
Possible adjustment of the verticality.



AL-LISSE



Top and middle rail

In 36mm extruded aluminium.
Supplied in 3m length, reduced at one end.

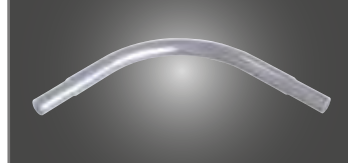
AL-EAA



Articulated corner coupling

Allows making corners from 70° to 180°. Easily adjustable on site.
Diameter and material are identical to the rail for an aesthetic continuity.

AL-ANG90



Bent corner

Can be fitted into the rails to ensure an aesthetic continuity.
Easy installation.

AL-PAL



Aluminium plinth

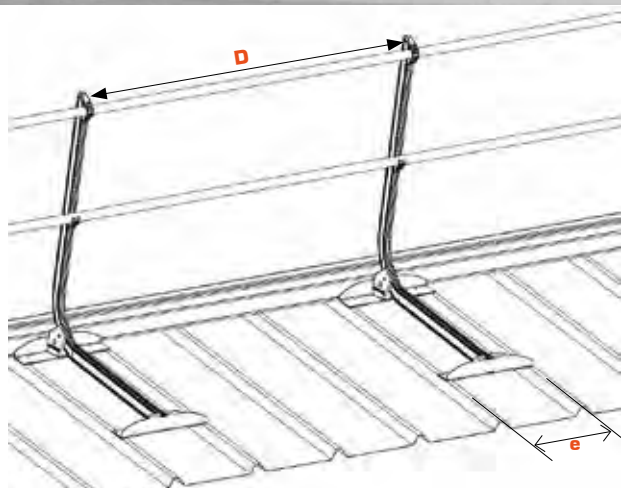
The railing must be fixed with a plinth if the parapet measures less than 100mm (roofs) or 150mm (machines) in relation to the circulation area.
End plugs and corners available.

AL-EXTM



Wall-mounting part

Enables the mounting of rails on any wall.
Fixed directly on the wall with 2 fixings diameter 10mm maxi (not included).



ADAPTATION TO PITCH OF CORRUGATIONS

The distance «**D**» between the uprights depends on the spacing «**e**» of the corrugations:

=> For $e = 250\text{mm}$: $D = 1.5\text{m}$

=> For $e = 333\text{mm}$: $D = 1.332\text{m}$

Note: for buildings with a peripheral, horizontal parapet, the rail may not follow the horizontal line, since the system is mounted directly on the roof itself which may have a slope.

In this case, choose the cranked upright option, which is less visible.

ALILISSE ON STEEL DECK

COMPATIBILITY

Can be installed on all steel roofing, dry or sandwich panels.

SPECIAL EXTENSION ARM

The arm, fitted with modular mounting plates, can be installed in either direction of the roof corrugations.

In the **standard** version, they can be fitted with a distance between corrugations of **250 or 333 mm**.

MODULAR INSTALLATION

Can be mounted on the support **perpendicular** or **parallel** to the corrugations.

WATER TIGHTNESS OF THE ROOF

The watertightness of the roof is guaranteed thanks to **EPDM seals** and **waterproof rivets**.

EASY OF INSTALLATION

The top and middle rail use an **ingenious, patented clamping mechanism**.

Possible adjustment of the middle rail on the upright to standardize the intervals depending the height of the parapet.



STANDARD HEIGHT

Since they are **fitted directly on the pedestrian area**.

COMPONENTS ALILISSE®

Top and middle rail

In 36mm extruded aluminium.
Supplied in 3m length, reduced at one end.



Bent corner

Can be fitted into the rails to ensure an aesthetic continuity.
Easy installation.



Straight Assembly unit

Pre-drilled bottom plates at 250 and 333mm intervals.

Quickly installed, and strong assembly (6 rivets per upright).

Delivered with assembly kit of top and middle rail pre-assembled.



Bent assembly unit

Pre-drilled bottom plates at 250 and 333mm intervals.

Quickly installed, and strong assembly (6 rivets per upright).

Delivered with assembly kit of top and middle rail pre-assembled.



AL-EAA



Articulated corner coupling

Allows making corners from 70° to 180°. Easily adjustable on site.
Diameter and material are identical to the rail for an aesthetic continuity.

AL-PAL



Aluminium plinth

The railing must be fixed with a plinth if the parapet measures less than 100mm (roofs) or 150mm (machines) in relation to the circulation area.

AL-ERF



Fixed straight coupling

For assembling longitudinal sections of non-reduced rails and middle rails.
Fits directly inside the top and middle rails.

AL-BOUCH



End plug

Discret ribbed plug for the ends of top and middle rails.

AL-EXTM



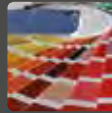
Wall-mounting part

Enables the mounting of rails on any wall.
Fixed directly on the wall with 2 fixings diameter 10mm maxi (not included).



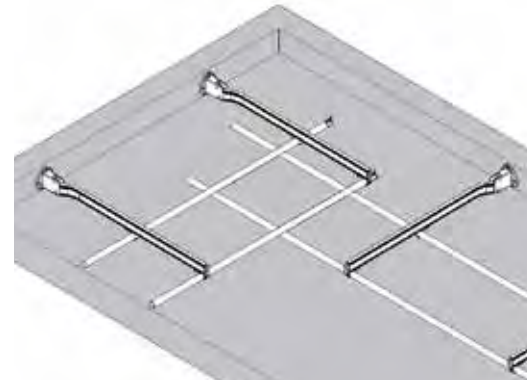
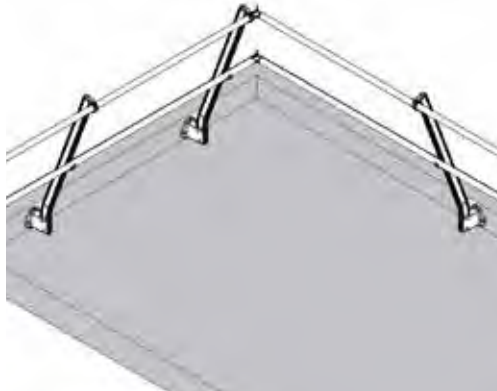
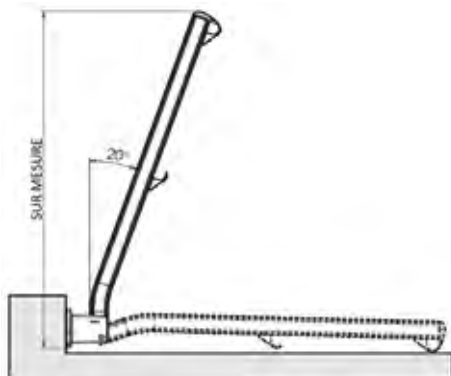
CAN BE FOLDED BY ONE SINGLE PERSON



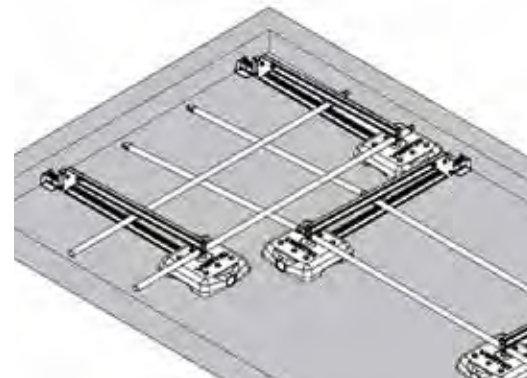
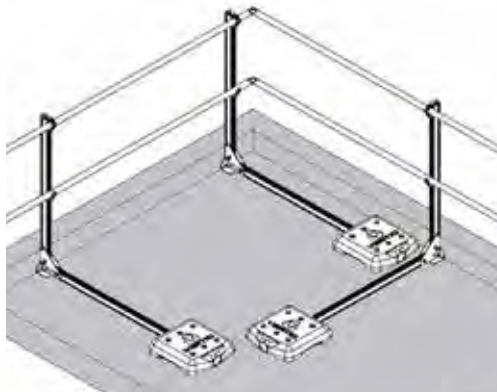
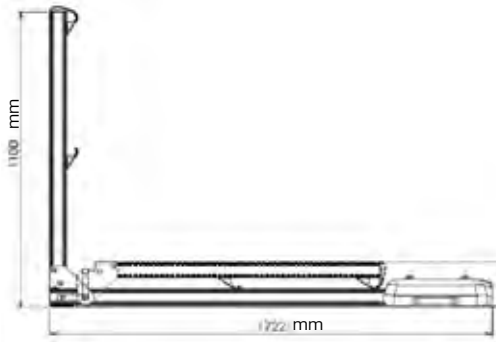


FOLDING ALTILISSE

FOLDING STRAIGHT OR BENT GUARDRAIL AGAINST PARAPET



FREE STANDING STRAIGHT OR CURVED GUARDRAIL



COMPONENTS ALTILISSE®

Top and middle rail

AL-LISSE



In 36mm extruded aluminium.
Supplied in 3m length, reduced at one end.

AL-EAR



Articulated corner coupling

Allows making corners from 70° to 180° .
Easily adjustable on site.
Includes a captive winged screw.

Folding unit: Straight, with counterweight

AL-A.ELDR



Concrete counterweight.
Front bumper made of galvanised steel with EPDM protection.

AL-A.SLDR



Straight folding assembly unit

The plate as a significant 70mm offset to make it compatible with the existing parapet cover.

A single tool (n°10) is used for tightening the counterweight and the clamps.

The plate is fixed with M10 fixings (not included).

Folding unit: Bent, with counterweight

AL-A.ELCR



Concrete counterweight.
Front bumper made of galvanised steel with EPDM protection.

AL-A.SLCR



Bent folding assembly unit

The plate as a significant 70mm offset to make it compatible with the existing parapet cover.

The plate is fixed with M10 fixings (not included).