

INSTRUCTIONS FOR USE

MAINTENANCE INSTRUCTIONS

INSTRUCTIONS FOR PERIODIC INSPECTIONS

IDENTIFICATION SHEET

DESCRIPTION OF THE PPE

General points

The SYAM is a temporary portable anchor point which can be used to attach one or more compatible PPE devices together in compliance with European standards.

The SYAM and its option, the SYAM+SP, are anchorage systems which comply with standard EN 795 Type B.

The SYAM is a device used to ensure safety while working in front of a door, balcony or window ledge due to its height above the ground.

It can potentially be used by:

- an operator repairing a faulty rolling blind, supplying a work site, installing a structure close to the exterior or outside,
- an operator cleaning windows, installing equipment on an outside wall or carrying out work outside,
- any operator carrying out work at height where the location does not allow the use of scaffolding or a platform, etc. (This list is not exhaustive).

The SYAM is a device which does not damage the premises where it is installed and has a wide range of possible sites for installation.

Contacts

SYAM SAS – West Park – 21 rue de l'Industrie – 69530 BRIGNAIS - France TEL : 04.72.31.75.33 - FAX : 04.72.31.11.79 - contact@syam.fr	Name and address of the notified body which carried out the UE type examination: APAVE SUDEUROPE SAS - CS 60193 - 13322 MARSEILLE CEDEX 16 – France-0082
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Important instructions

Warning

Medical conditions

Given the fall hazards associated with work at height, it is necessary to remind that only people in good health and physical condition can participate. Work at height requires concentration, thus are excluded people subject to vertigo, agoraphobia, under medication including tranquilisers, or under the influence of alcohol or drugs. If any doubt, consult **your GP before working on height**. **In the event of a fall, it is important to keep your self-control, not to panic so as to limit as much as possible harmful issues, and to avoid further accident.**

Training and competence

This device must be used by a competent and trained person. It is compulsory to know and follow the instructions of this manual.

Rescue plan

Before operation, a rescue plan must be in place in case of emergency; A person subject to fall hazards must not remain alone. People around must be able to rescue him without delay and without further accident. It is recommended to have an extra fall arrester in perfect serviceable condition in case of emergency.

Use of the equipment

The device must be used for the only purpose it is intended for. It is forbidden to modify it or use it for any other purpose.

This device is personal protective equipment. It is not intended for lifting loads.

It is preferable to assign it to a single person so as to ensure better follow-up.

It is compulsory to check the suitability of the associated items that make the safety fall arrest system: full body harness, connectors.

Only items complying with European standards or standard applicable in the country of use can be used. Beware of any incompatibility between different components which could be dangerous to the user.

The SYAM is used as part of a fall arrest system. The user must be equipped with systems that can limit maximum dynamic forces exerted on the user when stopping a fall, to a maximum of 6 kN. The maximum load likely to be transmitted in service is 7.6kN.


A fall arrest harness is the only device to hold the body allowed in a fall arrest system. Attach the EN 362 connector to the fall arrest point marked with an A (or sternal fall arrest points marked A / 2) of the fall arrest harness EN361.

Before each use make a visual inspection of all the components of the fall arrest system: fall arrester, webbing, connectors, full body harness.

In a fall arrest system, for safety reasons, you must check the minimum clearance below the user is at least equal to the distance recommended by the manufacturer.

In the case of SYAM and SYAM+SP, the clearance depends only on the fall arrest system associated with the SYAM (see equipment manual) at the workplace. This clearance must be checked before each use so that in the event of a fall there is no collision with the ground or any other obstacle on the trajectory of the fall.

When the device has stopped a fall, its inspection is required. In any cases, the fall arrester should be withdrawn from circulation and not used again until a competent person has authorized its reuse in writing.

The marking  present on the orange anchor confirms that the SYAM and the SYAM+SP can be used by one person (EN795 :2012) or two people (according to TS: 16415: 2013: not concerned by CE certification).

Inspection before use

Before each time the device is used:

- . Check that none of the elements (tubes, etc.) composing the SYAM and SYAM+SP are deformed. Check the tube which the handle slides on. There must be no signs of wear. If there are any signs of wear, it must be replaced before using.

- . Check that the screws are correctly installed on the SYAM and SYAM+SP and that the rope mounted on rings is present.

- . Check that the pins are in good condition and correctly installed on the SYAM and or SYAM+SP.

- . Check the conditions in which the system is installed (see chapter on mounting instructions and important instructions)

- . Check that the system is vertical.

- . Check that the bearing pads are in full contact with the contact surface.

- . Check that the equipment used in conjunction with the device (harness, fall arresters, connectors, etc.) is in good condition.

- . Check that the rope, lanyard or fall arrester are not wound around the leg.

- . Check that the rope or the fall arrester are never working outside the area between the leg and the bearing pads braced against the wall.

Installation

The SYAM can be used without the SYAM+SP but **the SYAM+SP cannot be used without the SYAM**.

Before using these products, read these instructions carefully and keep them for future reference.

1. If you entrust the equipment to employees or similar, you must conform to current applicable labour regulations.
2. The training course must include the procedure to be followed for installation of the SYAM and SYAM+SP and a demonstration of installation and use of the SYAM and SYAM+SP with a complete system in a real working situation under safe usage conditions.
3. The instructions in this manual must be strictly adhered to.
4. Prior to using the SYAM and SYAM+SP, the solidity of the supporting structure must be checked by the user or the authority responsible for the user's safety.
5. The SYAM and SYAM+SP must only be mounted on supporting structures which can withstand forces greater than 12kN for the contact point on the ground under the SYAM leg bearing pad. The points on the wall where the two wall bearing pads exert pressure must withstand forces greater than 3.5kN.
6. The SYAM must only be mounted on supporting structures which allow the bearing pads to be in full contact with the contact surface.
7. Only the orange anchor point located at the top of the SYAM and which can withstand forces greater than 12kN must be used to connect the systems used in conjunction with the device and compatible with the SYAM. The SYAM+SP shouldn't be used as an anchorage but like a diversion of the SYAM orange anchor.
8. Non-compliance with these requirements can endanger the life of the user. It is up to the user or his/her employer to inspect the surfaces of the supporting structure to avoid any possible errors in this area.
9. You are advised to use the SYAM+SP if the operator is required to work on a floor below the place where the SYAM is installed. The rope or cable must under no circumstances rub against the edge of the balcony/window opening, which would cause premature wear on the equipment or lead to the rope/cable snapping.
10. The SYAM and SYAM+SP can be used to carry out work suspended along the façade of a building if they are combined to avoid friction, as explained above.
11. It is essential for safety that the SYAM and SYAM+SP should always be correctly positioned and that the work should be carried out so as to prevent any risk of falling (the work restraint lanyard fitted to the work restraint system must always be slightly taut).
12. The SYAM and SYAM+SP can be used in all weather conditions and at all temperatures unless there is any risk of these affecting their operation, particularly if there is a risk of the components freezing together if they are exposed to bad weather and sub-zero temperatures.
13. The SYAM and or SYAM+SP are metal components which are therefore extremely electrically conductive. Using the SYAM and SYAM+SP in an electrical environment or close to a source of electricity (line, transformer, etc.) must be studied by a person qualified in this type of environment before the equipment is installed. All preventive measures must be taken to avoid any risk of electrocution.

Contraindications for use

-Do not wind the rope around the leg of the SYAM.

You must not:

- use the SYAM and SYAM+SP if the operator is situated higher than the orange anchor point;
- use the SYAM and move outside the area between the leg and the bearing pads braced against the wall (risk of the SYAM tipping over). See also pages 6 to 8.
- use an anchor point other than the orange ring located at the top of the SYAM, which can withstand a force greater than 12kN;
- attach more than two people to the SYAM and SYAM+SP;
- use the SYAM and SYAM+SP if the ceiling cannot withstand the pressure of the spring (ceiling made of stretched PVC or other fabric) or if there is no ceiling;
- turn the SYAM and SYAM+SP around to use it the other way round (danger of death);
- use a device which has stopped a fall if this device has not been checked by the manufacturer or a repairer authorised by the manufacturer;
- use the SYAM and SYAM+SP for any use other than that for which the model was designed. These devices are not intended for lifting loads;
- use the SYAM and SYAM+SP or other equipment associated with them if they show any visible signs of damage;
- use the SYAM and SYAM+SP for more than twelve months without having them inspected by the manufacturer or a repairer authorised by the manufacturer.

Never jump off a step ladder or a window sill back inside the building if you are attached to an ascender or a fall arrester. This could case the SYAM to tip over if the operator's ascender or fall arrester is taut.

Cleaning-Maintenance

Regular cleaning will be performed by the user. In addition to the inspections described in Chapter "Inspection before use", the SYAM, the SYAM+SP could be cleaned with a wet cloth.

Do not use detergent, tinner, solvent or any other chemical products that could alter SYAM and SYAM+SP.

When the SYAM or SYAM+SP equipment is wet when used or cleaned, it must dry naturally and be kept away from direct heat.

Any disassembly, lubrication or especially any modification of the device is prohibited. The inspection and/or replacement of spare parts can only be carried out by the manufacturer or its authorized service centre in compliance with the technical manual. The service inspection of the equipment can only be carried out by written agreement from the manufacturer or an approved repair centre.

Transport-Storage

During transportation or storage, protect SYAM and SYAM+SP against shocks, impacts, excessive vibrations which could damage it and reduce its performance. The bag is a good protection.

The SYAM and SYAM+SP must be stored in the storage bag supplied with the product away from possible impacts or falls. Never store anything on top of the SYAM and SYAM+SP. The SYAM and SYAM+SP can be stored vertically or horizontally.

Product lifetime

The SYAM and SYAM+SP are designed for long years of operation under normal operating conditions. The lifetime depends on the use made of it. Some particularly aggressive, marine, siliceous and chemical environments can reduce the lifetime of equipment. In these cases, special attention must be given to controls before use. The compulsory annual inspection will validate the correct operation of the SYAM and / or the SYAM+SP and its maintenance in service which will be done only by a written agreement of the manufacturer or his representative. In view of the above, the lifetime of the products is ten years.

This instructions manual must be kept in good condition until the device is taken out of service and is kept at the disposal of any operator.

Marking labels must be present and legible throughout the life of the equipment.

Any SYAM or SYAM+SP which is removed from service must be destroyed or made inaccessible to prevent it being used by mistake.

Resale outside of country of destination

In case of device is first sold in one country, then resold in another country with a different language, it is necessary to contact the manufacturer or its authorized agent to get the instructions for use and all relevant information on maintenance, periodical inspections and repairs in the language of this other country.

Periodic inspections

The SYAM is a safety device, the reliability of its operation requires periodic inspections to ensure its effectiveness and resistance. Periodic inspection is mandatory once a year. This frequency must be shortened in case of intensive use or in difficult environment. These periodic inspections may only be carried out by the manufacturer or by a repair center approved by the manufacturer and in accordance with the technical manual. The SYAM is marked to indicate the date of the next periodic check. The date label is located on the orange anchor of the SYAM and on the upper part of the SYAM+SP.

Accessories which may be used and spare parts: wall pads, floor and ceiling pads, all the tubes, protective caps.

Equipment compliance

SYAM SAS SERVICES, West Park - 21, rue de L'Industrie, 69530 BRIGNAIS, declares by this document that the safety equipment described in this manual complies with the provisions of Regulation (EU) 2016/425 ; are identical to PPEs which have been granted type examination certificates by:

APAVE SUDEUROPE SAS - CS 60193 - 13322 MARSEILLE CEDEX 16 - France – 0082 and tested according to standard EN 795 Type B.

The EU declaration of conformity can be consulted directly on our website: www.syam.fr.

Are subject to the procedure referred to in module C2 according to Regulation (EU) 2016/425, under the control of the above-mentioned notified body.

Any company which entrusts personal protective equipment against falls from height to an employee or similar must apply the labour code.




In the European Union, these devices must be regularly inspected in accordance with the Regulation (EU) 2016/425 (at least once a year by SYAM S.A.S. or by a repair centre approved by SYAM).

LABELLING

SYAM MARKING: The 3 labels on the orange anchor must be present and legible throughout the life of the equipment:




The SYAM can be used by one person (EN795 :2012) or two people (according to TS: 16415: 2013: not concerned by CE certification).

CE 0082 (l« CE » marking indicates that the equipment meets the requirements of the Regulation (EU) 2016/425, 0082 indicates the number of the notified body C2 module).

Reference standard and publication year		Product name		Trademark		The SYAM can be used by one person (EN795 :2012) or two people (according to TS: 16415: 2013: not concerned by CE certification). Manufacturer name and address
Identification of the notified body involved in the inspection C2		Read the instructions before use		Serial number (2 letters 4 numbers) is engraved on the orange anchor ex : AA 0001		
Production year		Inspection date label Month/Year		Year and month of production		

SYAM+SP MARKING : on 3 labels in the upper part of SYAM + SP.

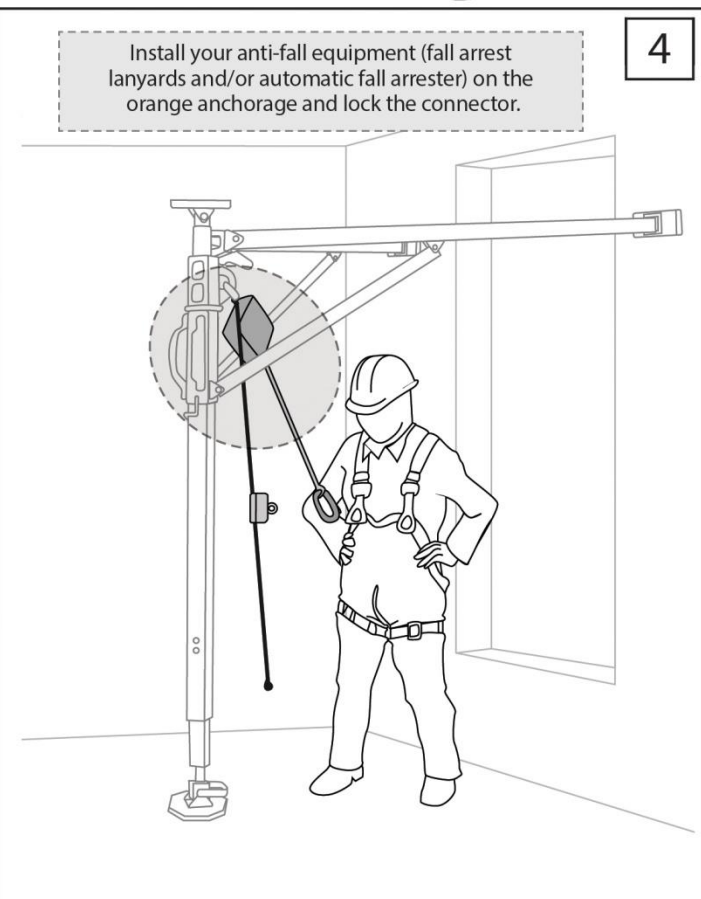
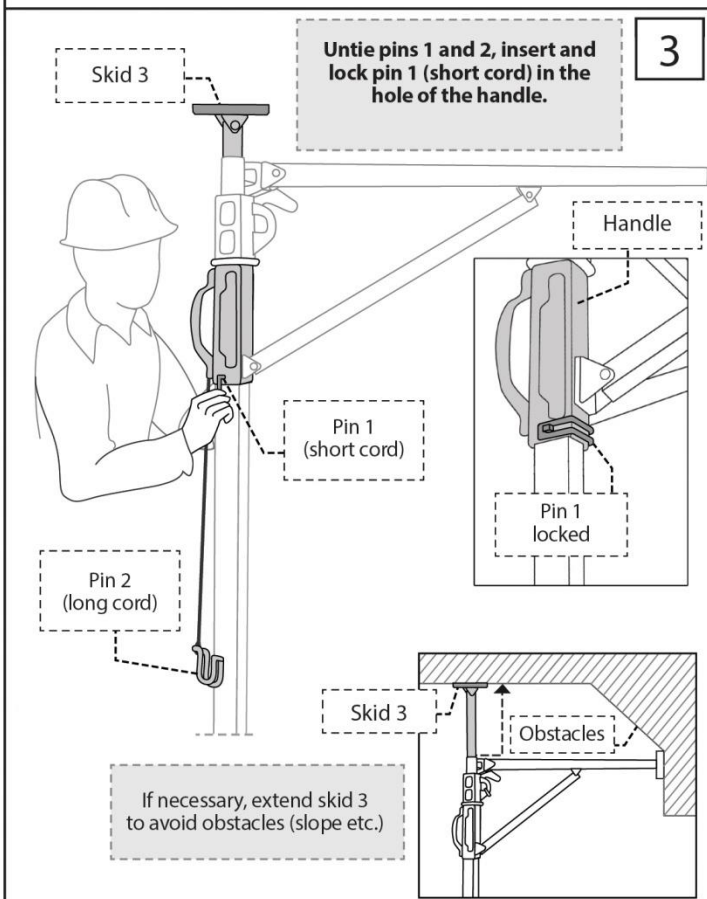
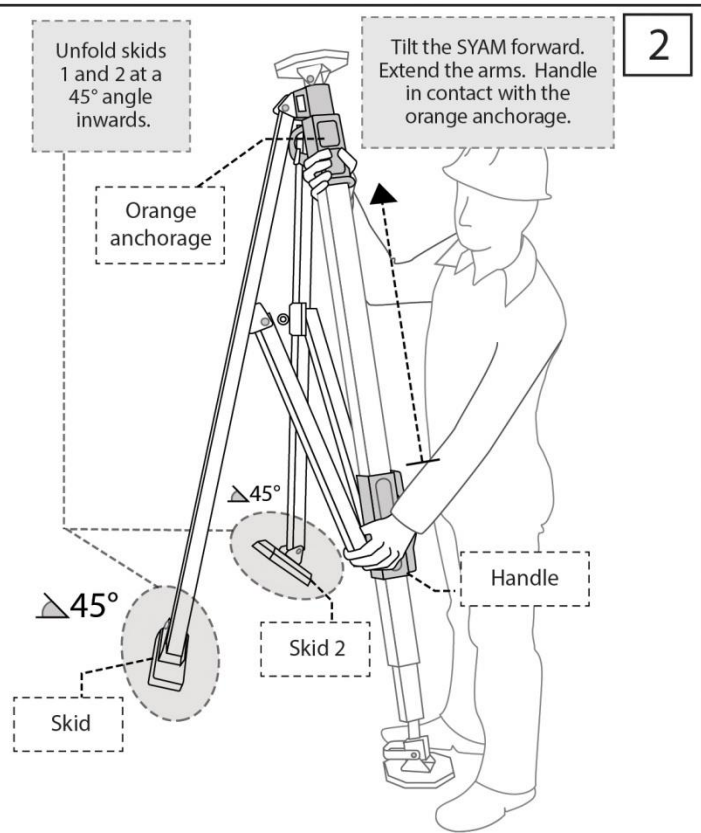
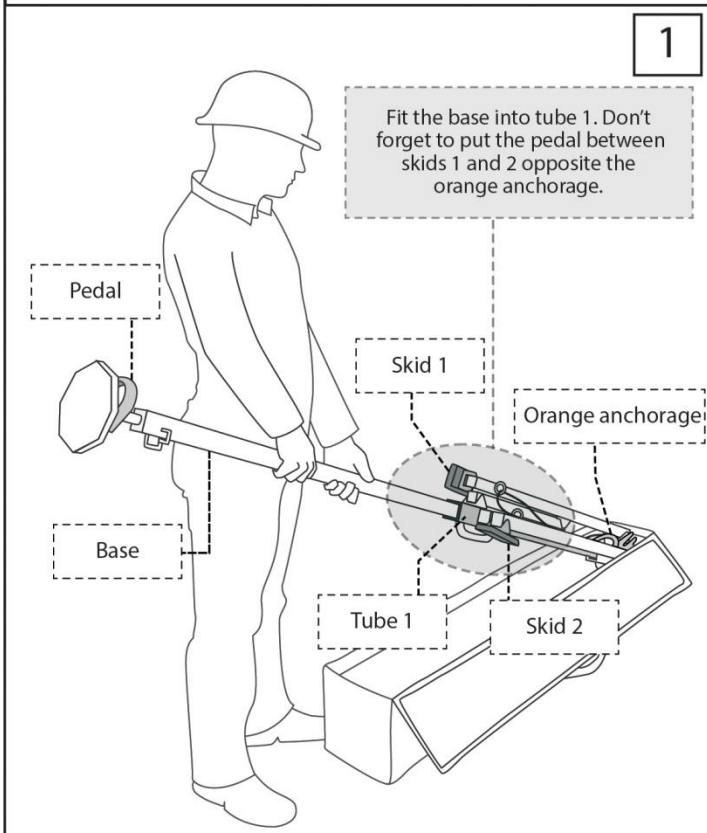
The SYAM+SP can be used by one person (EN795 :2012) or two people (according to TS: 16415 : 2013 : not concerned by CE certification).

Product name		Year and month of production		Trademark		The SYAM+SP can be used by one person (EN795 :2012) or two people (according to TS: 16415: 2013: not concerned by CE certification). Manufacturer name and address
Read the instructions before use		Manufacturer's website		Dateur de contrôle Mois Année		
Reference standard		Serial Number		Identification de l'organisme notifié intervenant pour le contrôle C2		

SYAM user guide

For heights of less than 2.65m, see figures 1 to 7, pages 3 and 4.
For heights of more than 2.65m, see figures 1 bis to 5 bis, pages 4 and 5.
Safety and storage instructions must always be complied with (pages 6 and 8).

For heights of less than 2.65m.



5

Move the base forward

Install and maintain skids 1 and 2 in contact with the wall and ceiling.

6

Straighten up the SYAM.

Keep skids 1, 2 and 3 in contact with the ceiling.

7

With your foot, press on the pedal, insert and lock pin 2 (long cord) in the available hole of tube 1.

If there is no hole available at the top of the base, remove skid 3 to increase the height of the SYAM.

Verify that the SYAM is upright.

For heights of more than 2,65m.

1 bis

Unfold the SYAM.

Hole 1 max. height 3.6m

Hole 2 max. height 3.78m

Pin 1 (short cord)

Pin 2 (long cord)

Insert pin 1. (short cord).

Lock pin 1 (short cord).

2 bis

Fit the base into the extension tube. Lock pin.

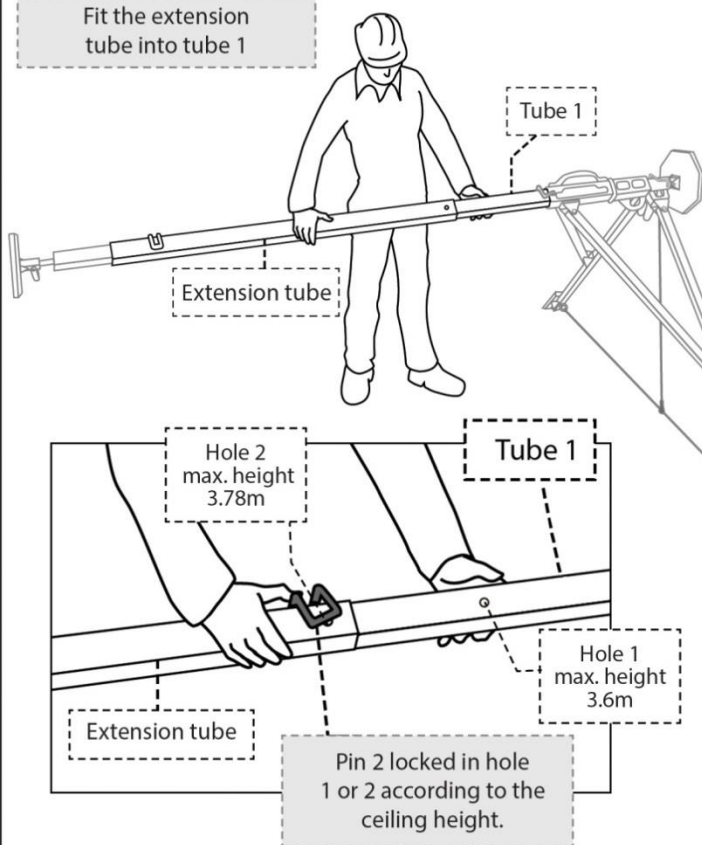
Base

Pin

Extension tube

3 bis

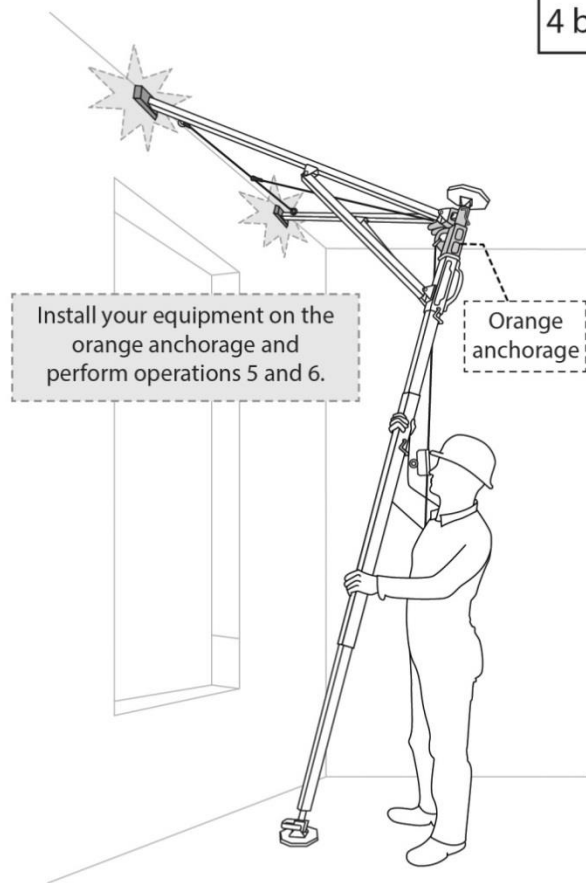
Fit the extension tube into tube 1



4 bis

Install your equipment on the orange anchorage and perform operations 5 and 6.

Orange anchorage

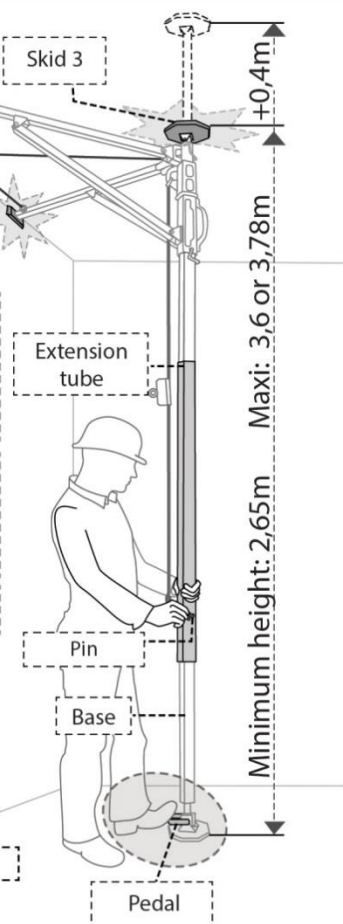
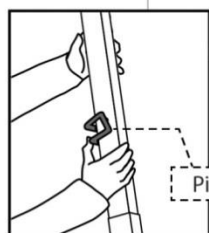


5 bis

With your foot, press on the pedal, insert and lock the pin in one of the holes available in the extension tube.

If there is no hole available at the top of the base, remove skid 3 to increase the height of the SYAM.

Verify that the SYAM is upright.

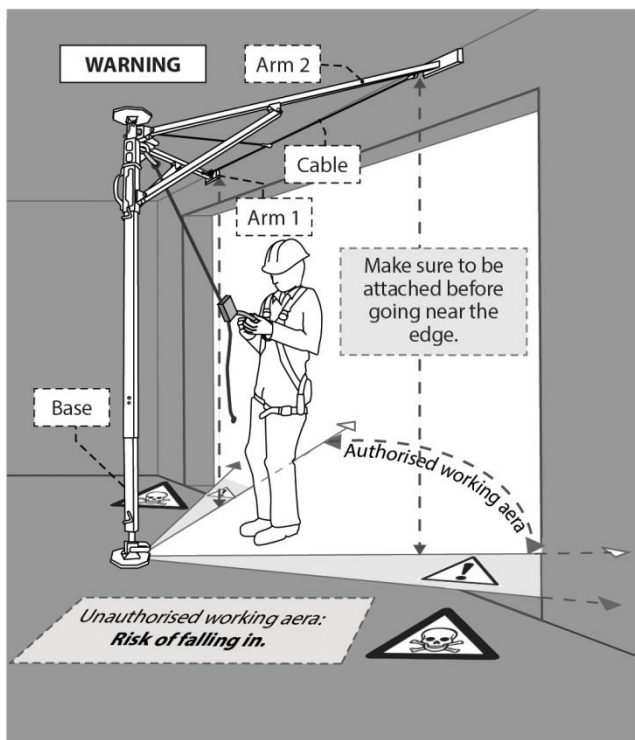


Then comply with the safety and storage instructions (see pages 6 to 8)

Safety instructions.

Stay within the working area indicated on the diagrams, between the base, arms 1 and 2, under the cable.

8

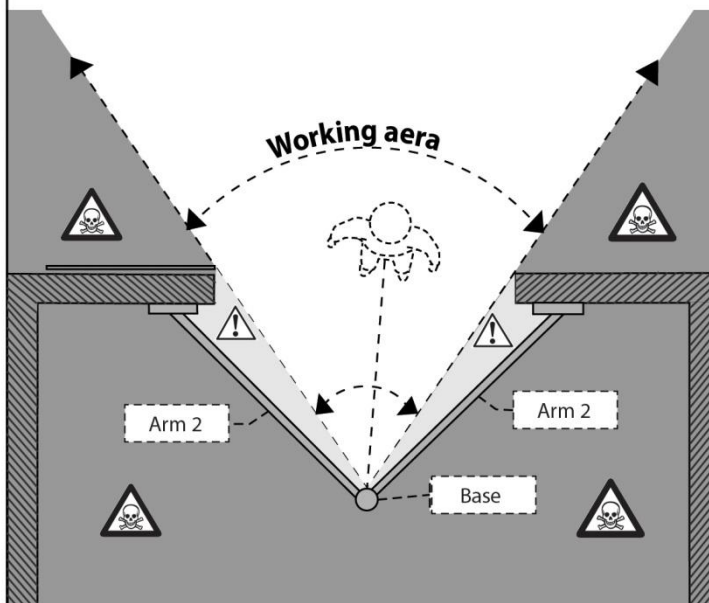


Use directly in front of the opening.

8 bis



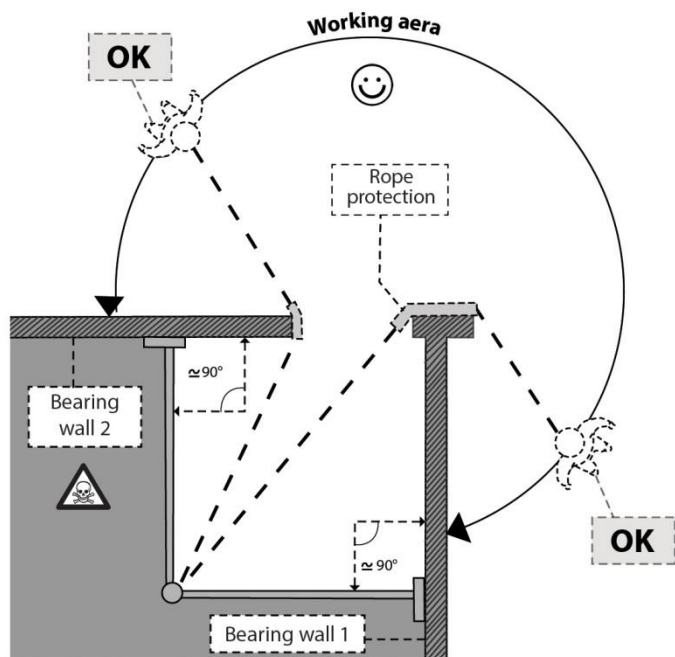
To guide you, your shoulder should not go beyond the two arms of the SYAM.



SYAM positioned at right angle.

9

Beware of risk of pendulum effect.



Warning! The two arms of the SYAM must be perpendicular to the bearing walls (1 and 2).

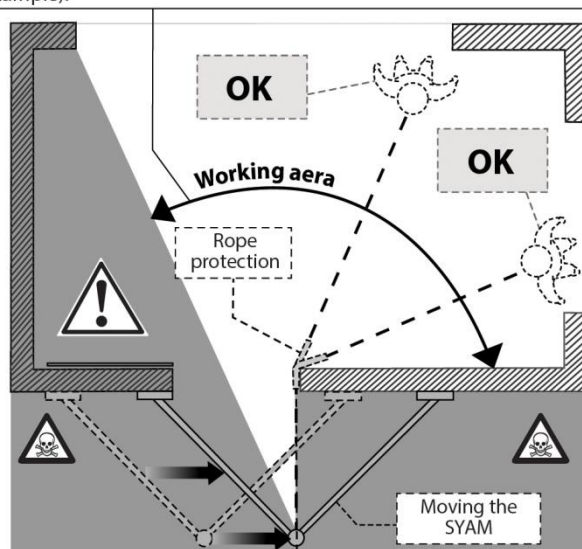
Remote use (e.g. behind a door)

10

If the SYAM is placed behind an opening perpendicular to the working area, the base must be positioned as per the figure below:

After the diversion point, the working area must be determined so that, in case of the fall:

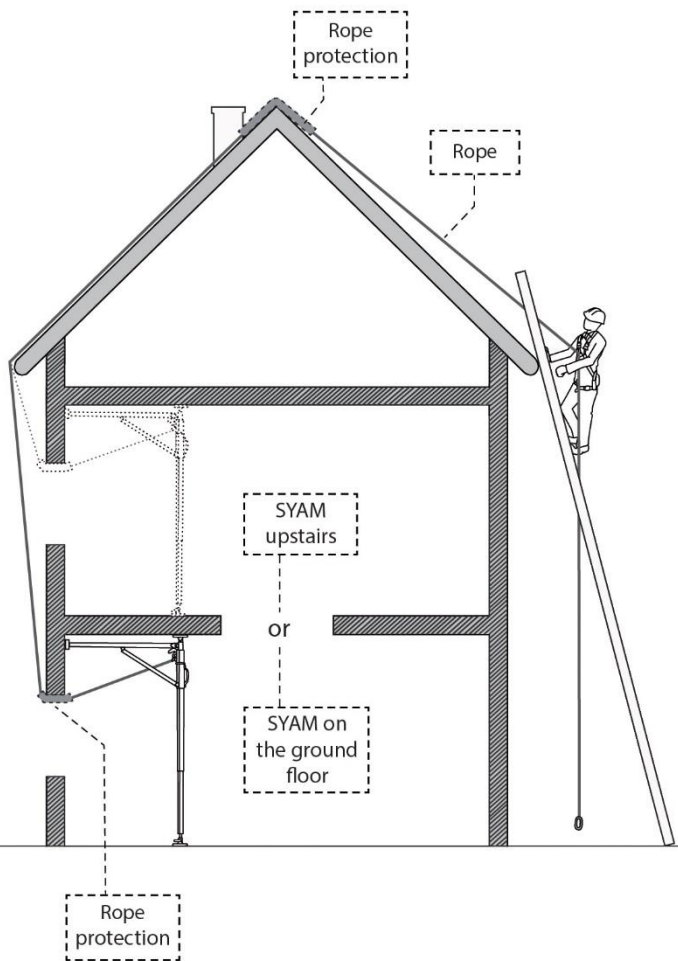
- 1/ The SYAM shall not tip over.
- 2/ the pendium effects is impossible (in case of large openings, for example).



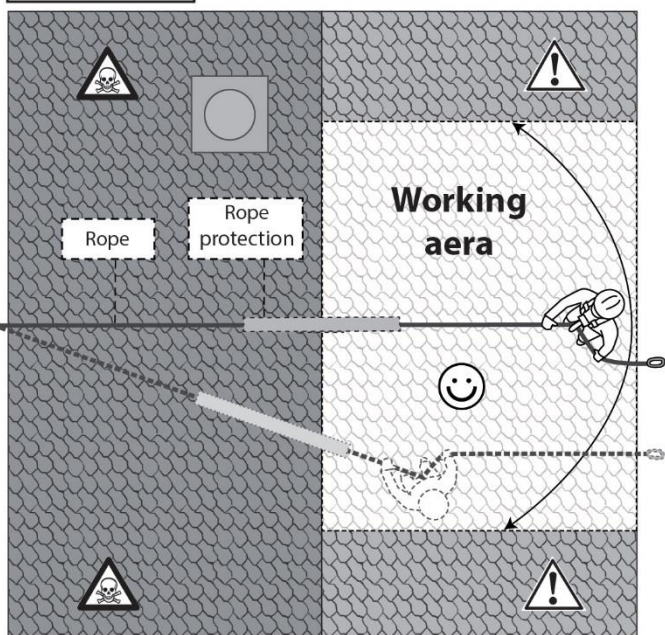
The orange anchor should be positioned in the axis of the rope's diversion point.

Roofing work: secure access from the bottom of a ladder

11

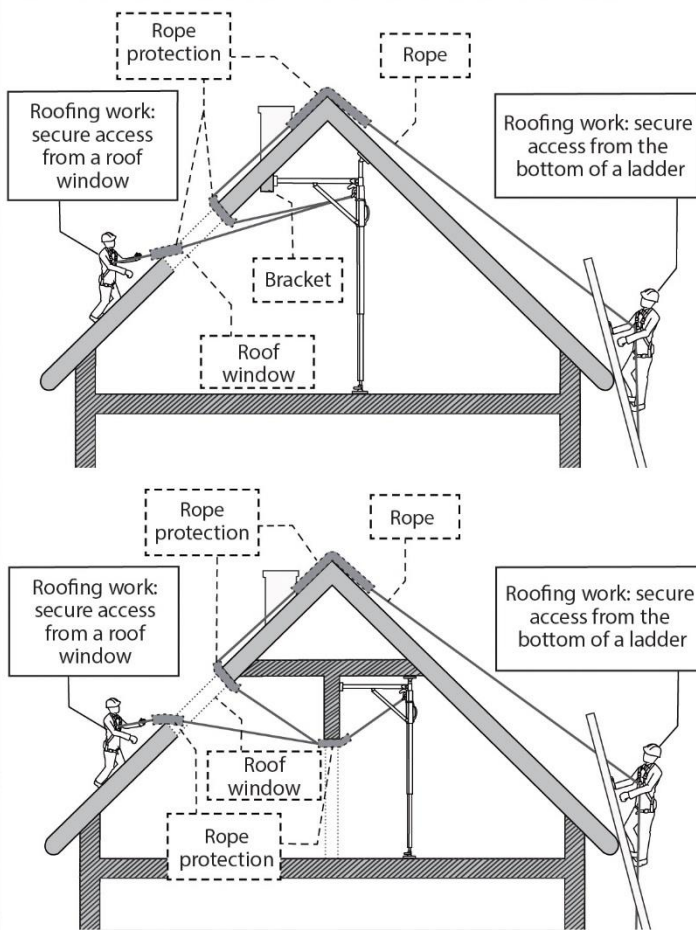


Top view

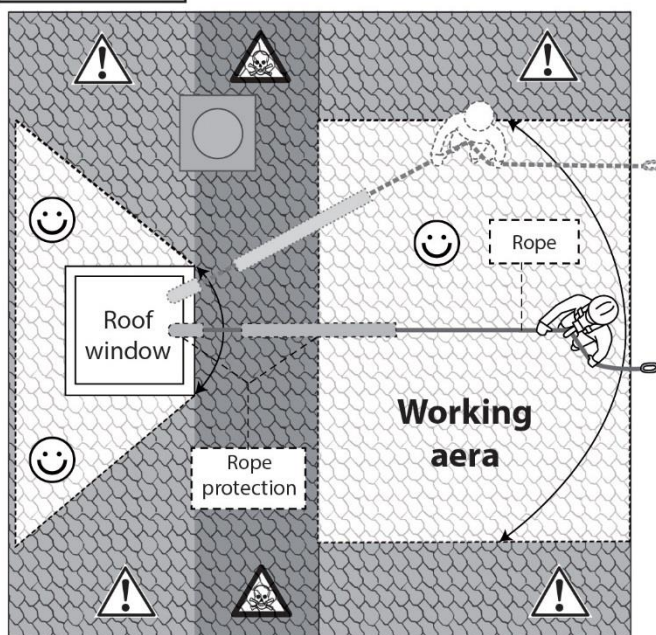


SYAM bearing behind a bracket or a door.
See also Figure 10 for the base position.

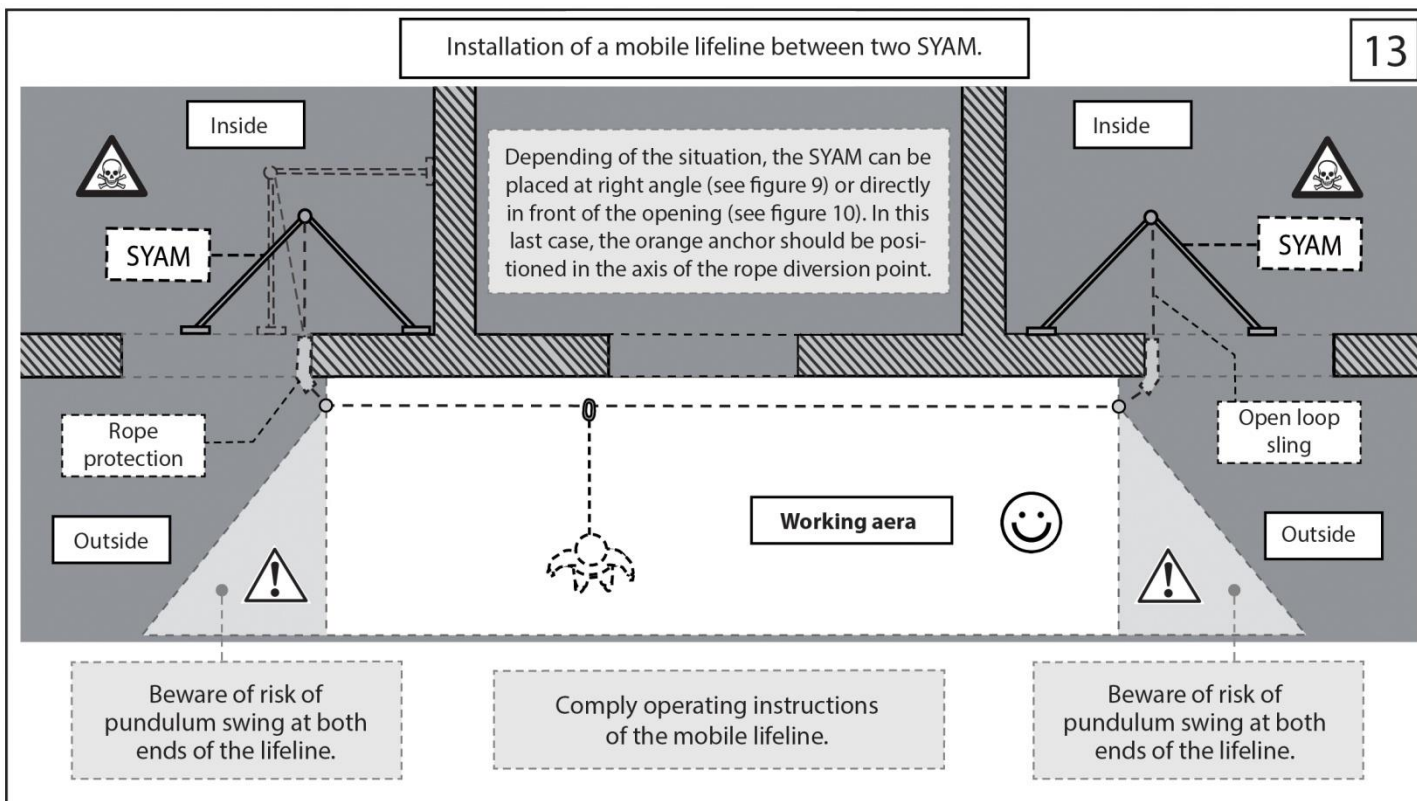
12




Top view



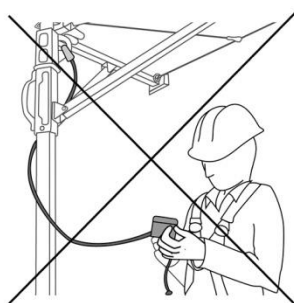
Beware of risk of pendulum swing.





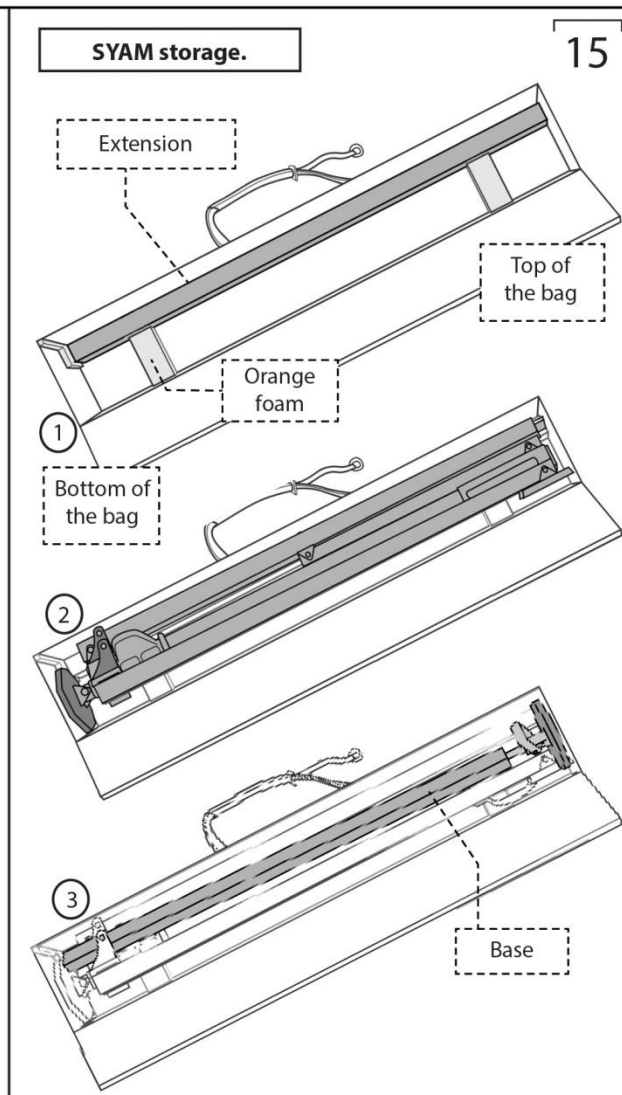
CAUTION DANGER

14



- Check the vertical position of the SYAM.
- When moving, do not wrap your anti-fall system around the SYAM.
- Do not turn over the SYAM (the orange anchorage must always be as near to the ceiling as possible).
- Only the anchor point is authorized to connect the systems antfall, except using two SYAM and Lifeline (see Figure 13).

- Pay attention when using equipment likely to damage harnesses and lanyards (grinder, Stanley knife etc.)
- Remain in the working area to prevent the risk of pendulum swing.
- Always keep the fall arrester slightly taut so as to prevent the risk of falling.
- No more than two people must be attached to the SYAM
- Do not use the SYAM without blocking it at the ceiling.
- Do not use the SYAM for a purpose other than that for wich it is intended by the manufacturer.
- Caution ! Do not forget to reattach before approaching the edge.
- When SYAM is installed st back form the place of intervention, it is necessary to position the SYAM base according to the instructions of Figure 10, page 6 and Figure 13 on page 8 of the instructions.
- Do not use the SYAM or any other device that show visivle signs of damage.
- Positioned at right angle, the two arms of SYAM must be perpendicular to the support wall (see Figure 9)



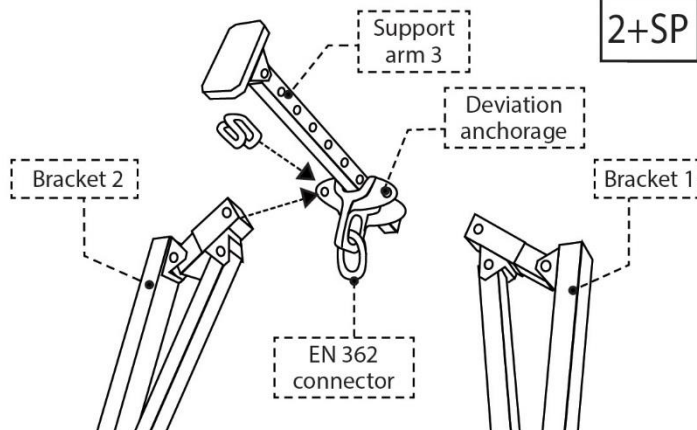
1+SP

SYAM+SP user guide and safety instructions.

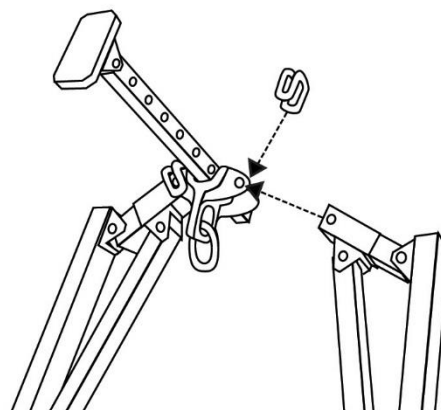
WARNING, the orange anchorage is the only authorised anchor point.

The SYAM+SP is a anchorage bypass system and it may not be used as a principal anchorage.

2+SP

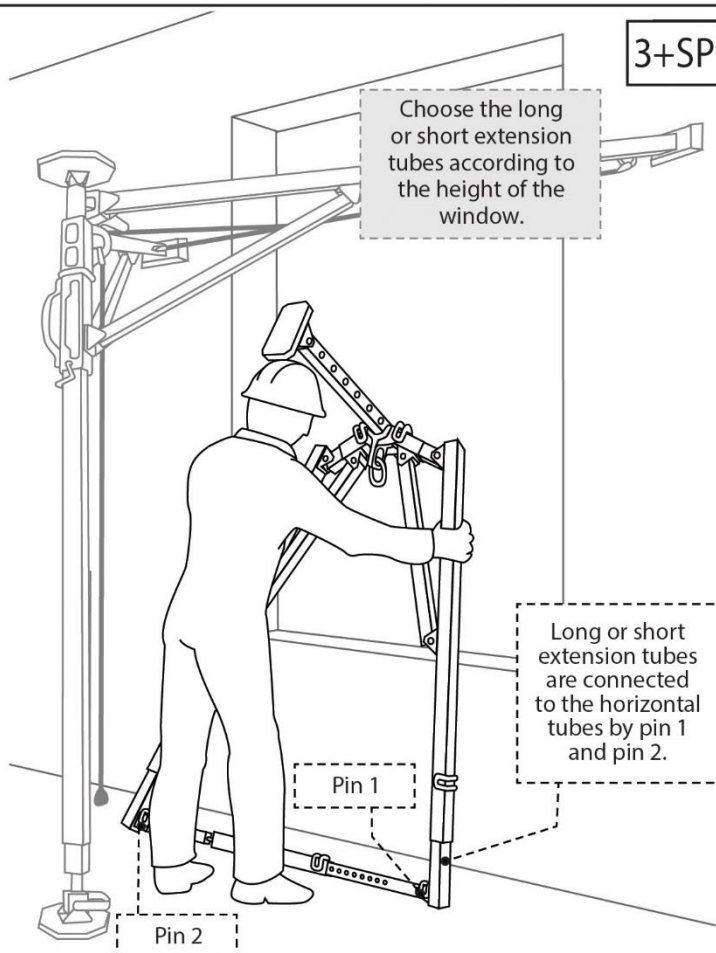


Connect brackets 1, 2 and the support arm 3 to the anchorage. Lock the 3 pins.



3+SP

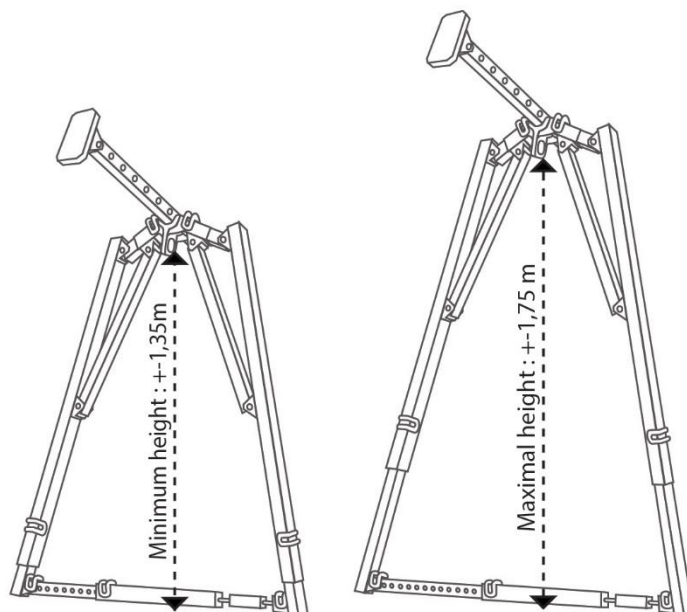
Choose the long or short extension tubes according to the height of the window.



Long or short extension tubes are connected to the horizontal tubes by pin 1 and pin 2.

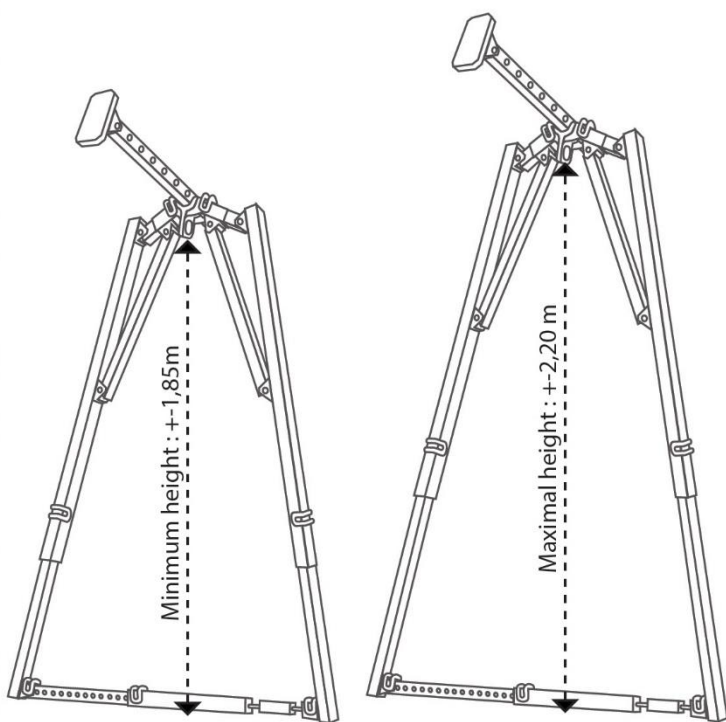
SYAM+SP short extension tubes version

4+SP

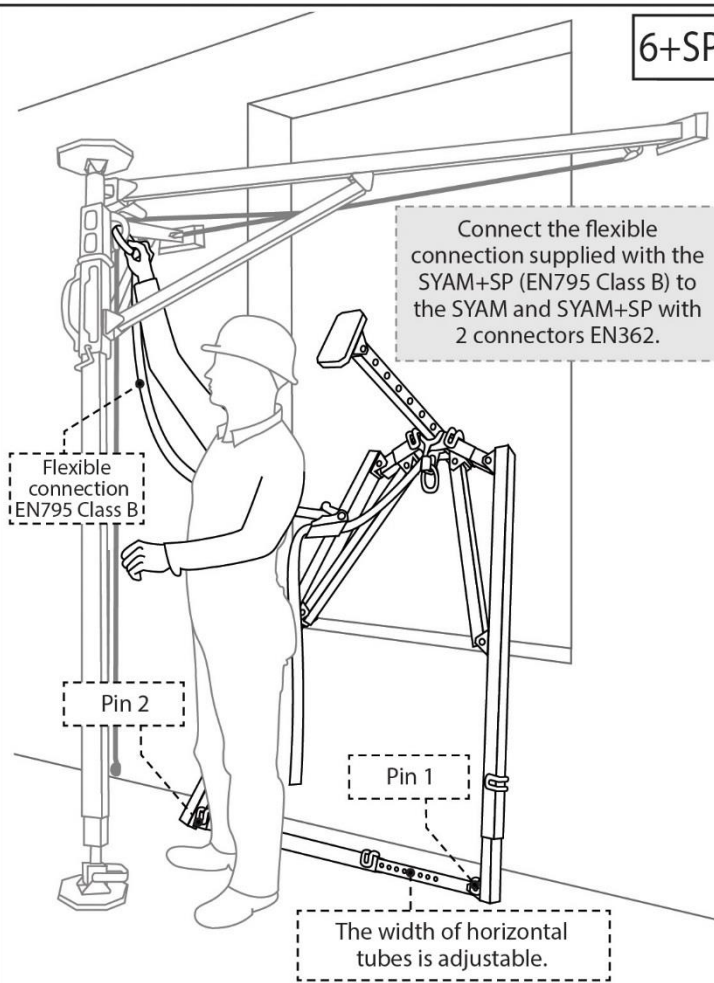


SYAM+SP long extension tubes version.

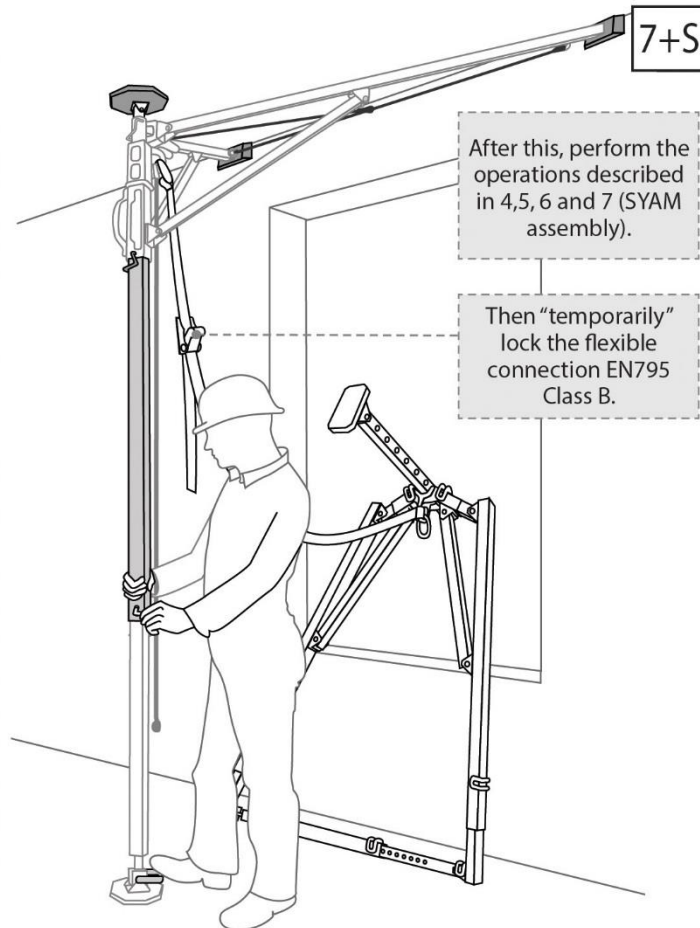
5+SP



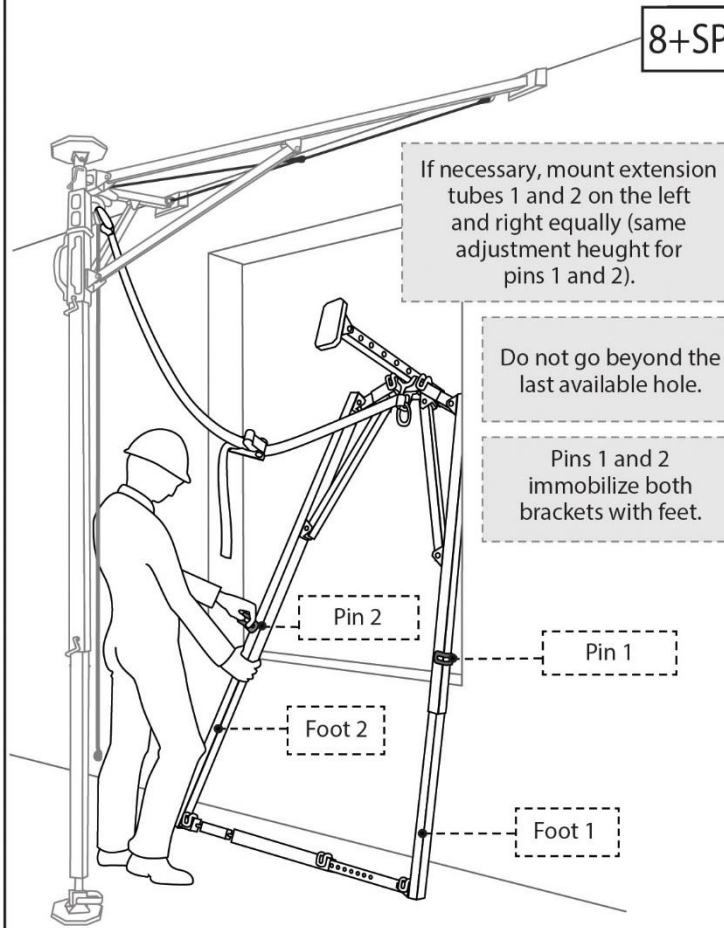
6+SP



7+SP



8+SP



9+SP

Flexible connection locked temporarily

Opening

Window sill

Place the SYAM+SP on the edge of the window opening braced against the raised part of the window sill.

Adjust if necessary the horizontal tubes length, block them as close as possible to the bay (left and right) using the pin and the tensioner with cage.

10+SP

The final locking of the SYAM+SP is done by locking the flexible connection.

Warning! The support arm must be positioned on the outside wall and horizontally.

Warning! Before carrying out the following operation, ensure your safety by attaching yourself to the SYAM using the orange anchorage.

The flexible connection should be taut to the maximum using the tensioner.

When the flexible connection that connects the SYAM to the SYAM + SP is totally taut, the spring located at the foot of the SYAM must be compressed.

SYAM+SP remote use (behind a door or french window)

11+SP

Rope protection

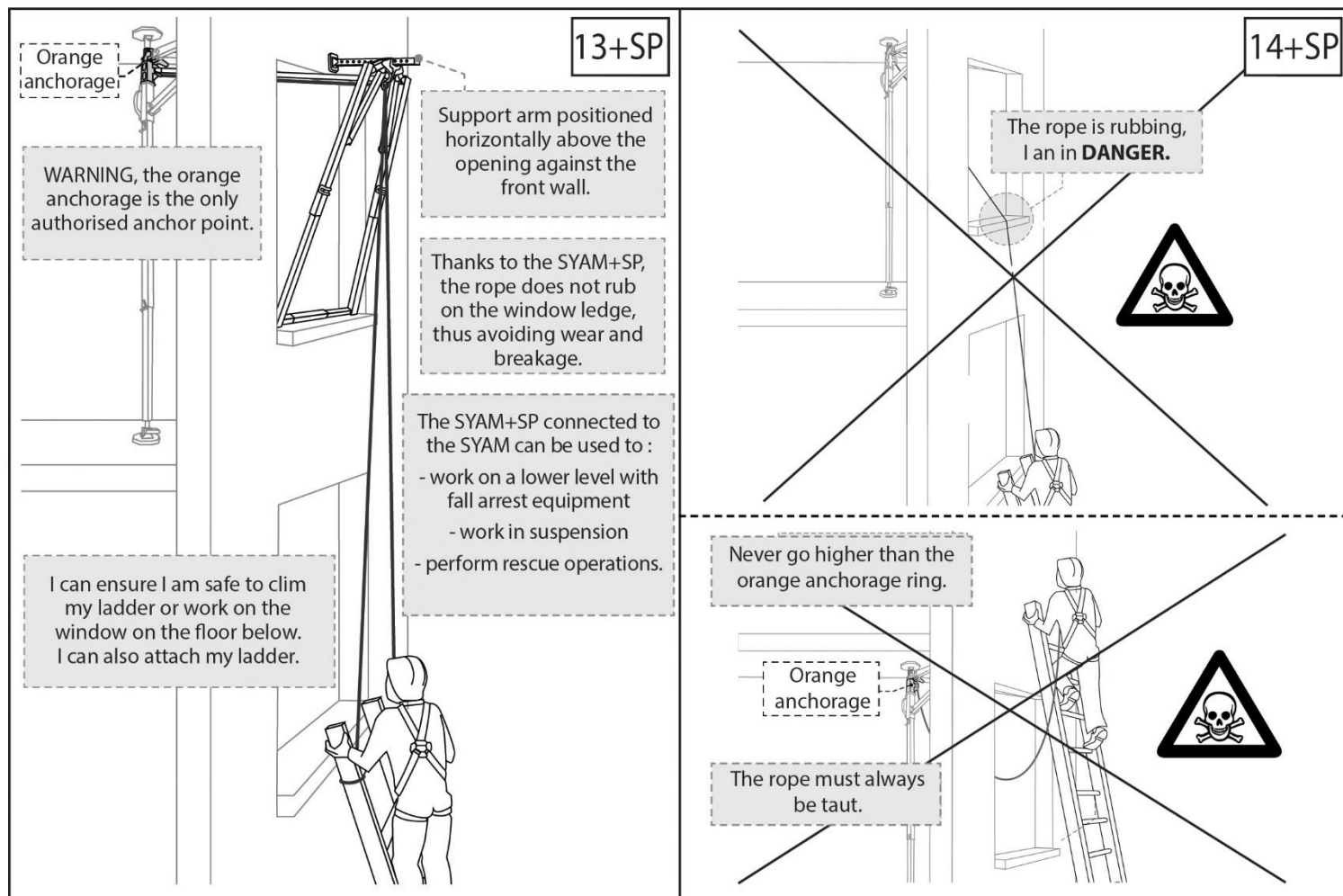
12+SP

SYAM+ SP

Flexible connection EN795 Class B

SYAM

The flexible connection EN 795 Classe B that connects the SYAM to the SYAM+ SP should be located in the axis of the arm of the SYAM and SYAM+ SP to ensure their stability before use and prevent to tipping over.



ADDITIONAL SAFETY INSTRUCTIONS FOR THE USE OF SYAM AND SYAM + SP

1. Before using these products, read this instructions carefully and keep it,
2. Before using the SYAM and SYAM + SP, the user or the authority responsible for his safety, must have checked the strength of the supports.
3. The SYAM must be mounted exclusively on supports that withstand forces greater than 12kN for the ground support point under the SYAM pad. On the wall, behind the two wall pads of SYAM, the support points must withstand forces greater than 3.5Kn.
4. Only the orange anchor point at the top of the SYAM that resists to a force greater than 12 kN must be used to connect to SYAM-compatible systems. The SYAM + SP should not be used as anchor but as a derivation of SYAM's orange anchor.
5. The force exerted on the SYAM + SP must always be carried out vertically below the derivation anchor.
6. The SYAM and SYAM + SP must be connected to each other by means of two EN 362 connectors and the EN 795 class B length adjustable flexible connection supplied with the SYAM + SP. The flexible connection must be set to maximum tension using its tensioner. When the flexible connection that connects the SYAM to the SYAM + SP is totally taut , the spring located at the foot of the SYAM must be compressed.
7. It is imperative when adjusting the height of the two brackets, to check the proper placement of the pins that immobilize both feet. Be careful not to go further the last hole available on both feet.
8. SYAM and SYAM + SP can be used in all meteorological and temperature conditions, unless the latter may alter their functioning, especially if there is a risk of the components freezing together.
9. The SYAM and SYAM + SP are metallic components therefore very electrically conductive, therefore any use of SYAM and SYAM + SP in an electrical environment or close to an electrical source (line, transformer ...) must be the subject of a study by a person authorized to intervene in this type of environment before installation. All precautions must be taken in order to avoid any risk of an electrical accident.
10. Do not use the SYAM and SYAM + SP for any other purpose than the intended model. This equipment is not intended for lifting loads.

FORM OF IDENTIFICATION AND CONTROL EQUIPMENT

Product name :	SYAM	SYAM+SP
Purchase date :		
Identification number :		
Date of first use :		
Date of manufacture :		
User name :		

PERIODIC REVIEW											
Items checked		1	2	3	4	5	6	7	8	9	10
	Date										
	Name										
	Visa										
Tube											
Fasteners											
Top Tube											
Cable on ring											
Pin											

Repair History

Date	Object	Comments	Name + visa	Date of next review
Year 1				
Year 2				
Year 3				
Year 4				
Year 5				
Year 6				
Year 7				
Year 8				
Year 9				
Year 10				