

Safeladder®

Manufacturer's Use and Maintenance Instructions

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1. Introduction.

Preventive and protective measures should be installed for works performed in places exposed to a danger of falls, in order to allow the operator to perform maintenance operations to move easily along the work area.

These protective devices, in addition to being safe, must be ergonomic, or rather "comfortable" to use for the operator, and they must be provided in the Technical Coverage Report (ETC) that is drawn up by the Health & Safety Coordinator at the design phase (CSP), in agreement with the designer, and be an integral part of the project both of the technical dossier and of the works. The ETC is therefore composed of various documents, with relevance to different subjects, in particular:

- **Coordinator/technician:** graphics with routes and access points to the roofing highlighted, technical report with design solutions adopted, structure support and mounting calculation report.
- **Manufacturer:** product certification, Manufacturer Instructions - Manual of installation, use and maintenance.
- **Installer:** declaration of conformity of the works performed.

From the designer to the consumer

1.1

With regard to the points mentioned above, the objectives of **Somain Italia** are to create a direct line between the designer of the system and the final user, passing by the manufacturer and installer by means of:

- Study of the line through software with immediately understandable graphical interface and return of the elements that constitute the system (as an alternative to consultancy from our technical office).
- Supply of the elements provided for the entire system directly from **Somain Italia** or from the chain of Partners and authorised resellers.
- Installation with simple procedures according to the Installation Manual by installers trained by Somain Italia (subject of this document).
- Provision of information necessary for the proper use and maintenance contained in the Manufacturer's Instructions.

2. Important warnings.

Before system use, read the Manufacturer's Instructions - Use and Maintenance.

- All users must be trained and informed about risks and must have carried out the training on 3rd category PPE.
- Users must be in optimal physical conditions for the duration of works.
- Operators must be trained and informed about emergency, recovery and evacuation procedures in the work area in which they operate.
- Making changes and/or additions to the equipment/system without consent from the manufacturer/distributor is prohibited.
- Equipment must not be used beyond its limitations or for purposes other than those foreseen.
- Before using the system, verify good equipment conditions as much as possible.
- For safety, it is imperative that use of equipment be suspended immediately in the event of doubts about their safe conditions or if they have been used for fall arrest. In both cases, before restarting operation, you must get written confirmation from a competent person stating that re-use of the system is acceptable.
- Verify mounting support resistance.

When mounting with threaded bars, the extraction test must provide a minimum resistance of 5kN.

Consult the manual for Somain Italia handheld art. PALM regarding SVAN testing.

- For safety, it is imperative that the anchor device always remain positioned and that work be carried out in such a way as to minimise both the risk of falls and the potential fall distance.
- For safety, it is imperative to verify that the free space required under the user (clearance distance) near the work area before each use is such that it does not permit collisions with the ground or other obstacles.
- Use of harnesses in compliance with standard EN 361, connectors in compliance with EN 362 and fall arrest lanyards in compliance with EN 3354 is mandatory.
- Periodic system review is mandatory. Verify evidence of maintenance with the holder of the Technical File.

3. Technical information.

Product description

3.1

Safeladder® ladders are in compliance with EN 353-1 regarding guided type fall arresters including rigid anchor lines.

These are rigid rail systems of protection against falls from a height integrated into the uprights of a ladder. The system is entirely composed of aluminium and is used for vertical type applications, permanently mounted to the bearing structure of the building.

The receiving structure must be able to withstand loads deriving from system application and this resistance must be ensured in the design phase or with checks directly on site.

This type of system is certified for concurrent use by 2 operators who are at least 3 m apart and equipped with a special trolley that, by means of wheels, slides along the side rail. The operator uses a connector (EN362) to attach his harness (EN361) to the energy absorber (EN355) integrated to the lanyard (EN354) on the trolley.

To increase system ergonomics, a landing or resting steps should be provided every 15 m.

Users must be in optimal physical conditions for the duration of works.

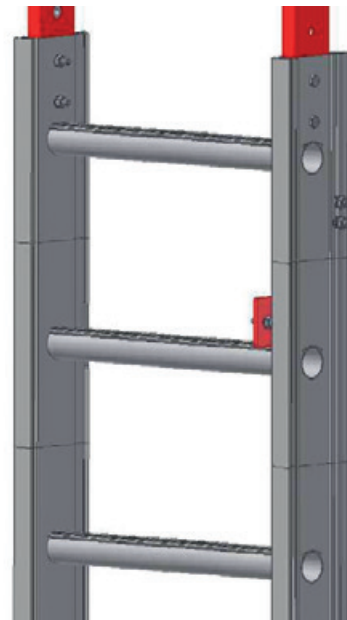
Before use, verify the presence of recovery and rescue floors or procedures in the plant location to be implemented in case of need.

The ladder in question has been tested with both static and dynamic tests by the Apave Certifying Organisation, enabled according to standard EN 364 and the elements used at times are in accordance with those tested.

Below is a detailed description of the system.

Functional diagram

3.2



Type of elements

3.3

- vertical trolley art. RHF014
- opening section art. SAL001 (equipped with junction on both sides)
- additional section art. SAL004
- mounting brackets art. SAL007
- articulated feet art. SAL013
- landing for roof access art. SAL009
- ladder stop art. SAL006
- right and left cap for top
- anti-intrusion door art. SAL012
- mandatory sign art. CA00
- identifier seal art. C35
- junction art. SAL025

Additional components

3.4

- resting steps art. SAL010
- telescopic section art. SAL011
- folding section art. SAL023
- pair of steps for ladder suspension art. SAL019
- ladder support bar art. SAL030

4. Operators and their equipment.

Users

4.1

Safeladder® ladders are certified for concurrent use by 2 operators who are at least 3 m apart.

Appropriate 3rd category PPE are required for system use and, consequently, specific training is required in accordance with Legislative Decree 81/2008 - Consolidated text on health & safety.

Personal protective equipment (PPE)

4.2

This system can only be used by operators who are equipped with appropriate Personal Protective Equipment (PPE).

It should be noted that the frequency and methods of PPE maintenance are established by the manufacturer in relation to lifespan and as specified in the Manufacturer's Use and Maintenance Instructions, following completion of a form stating the date of commissioning, the date of subsequent maintenance, the expiry date.

Carefully read the Manual of Use of the PPE supplied. The choice of PPE that is better suited to the work needs is to be assessed by each individual case and, in the case of work at height, the minimum equipment is:

Vertical trolley art. RHF014

The vertical trolley slides along the rail by means of wheels and allows for operator attachment by means of ring hooks. Insertion is carried out one side of the system before positioning the stop. The device is essential for rail system use and stops in the event of interference.

- 4 wheels that allow for operator movement
- operator attachment ring



Harness:

- in compliance with EN 361
- complete with thigh straps and adjustable shoulder straps
- back and/or sternal fall arrester attachment

Better if integrated with:

- padded thigh straps
- back and sternal fall arrester attachment
- lumbar belt with positioning attachments in compliance with EN 358
- central attachment in compliance with EN 813



Connectors:

Connectors are a fundamental element to create the connections between harness and lanyard or dissipater and between the same and the life line and must have the following specifications:

- in compliance with EN 362
- equipped with dual voluntary movement (screw closure, automatic revolving or dual opening system)



5. Preliminary operations for use/maintenance.

By the owner

5.1

The owner of the property on which the **Safeladder®** system is mounted is the first entity responsible for all the operations that take place on this property and which involve the use of particular safety systems.

The owner is authorised to grant access to this type of system only to those operators that he considers suitable, in compliance with certain requirements:

The Technical File must be kept in good condition and must indicate:

- **name and number of the system:** each system has its own identification number from which it is possible to trace the composition and the data given in the following points
- **manufacturer:** name and data from the manufacturer company
- **distributor:** name and data from the distributor company (**Somain Italia**)
- **reseller:** name and data from the reseller company
- **installer:** name and data from the installing company affiliated to the authorised reseller that signs off the correct installation according to a plan and/or in the manner according to the Manufacturer's Installation Instructions
- **design of the system:** drawings with measurements of the system with respect to the structure on which it is mounted and stamp and signature of a technician showing the access points and position of the **Safeladder®** ladder

- Declaration of conformity **of components making up the system** (certification of the system and not of every single element adapted to the particular use)
- making the complete Technical File available to any user
- making these Manufacturer's Instructions - Use and Maintenance available to the operator, indicating the date of system commissioning, the subsequent uses and subsequent inspections or compulsory maintenance by compilation of the Card of Use and Maintenance (SUM)
- making a slider trolley available if he does not have one, as this is an essential element for system use
- confirming the suitability of the user, who must have taken special training courses for III category individual fall arrest personal protective equipment

If the owner fails to comply, even partially, with the obligations referred to in this paragraph, he endangers the safety of other individuals in addition to invalidating the guarantee on the system.

If the owner is not able to obtain eligibility from the operator for use of 3rd category personal protective equipment, he must prohibit use of this system.

By the user

5.2

The user preparing to intervene in a place where **Safeladder**[®] ladders are mounted must be trained in the use of this type of system and must perform the following preliminary steps:

- request this Manufacturer's Instructions - Use and Maintenance from the owner, which indicates the date of commissioning of the system, the subsequent uses and subsequent inspections or compulsory maintenance by compilation of the Card of Use and Maintenance (SUM)
- request from the owner certification of the system composed of the elements mentioned in the preceding paragraph and in particular, pay attention to the plan with indication of the access point
- request a slider trolley from the owner if he does not have one, as the device is essential for system use
- demonstrate to the owner his ability to use the system and be equipped with the PPE needed, kept in optimum conditions, to use this system paying attention to any requirements listed in the project.

If the operator does not have all the elements indicated in this point the user/maintenance technician must refuse to use the system for any operation.

6. Use.

Arrival close to the access point 6.1

The first phase of use is the following:

- reaching the access point as indicated by the plan attached to the certification with the PPE indicated in the same or in the absence with the minimum PPE required for the work at height
- acknowledgement of the file indicating the system, located close to each access point, in which the following are listed: line type, serial number, maximum number of operators that can use the line life simultaneously on each individual stretch, clearance distance, date of entry into service of the life line, the obligation to use 3rd category personal protective equipment (PPE), the name of the manufacturer, the name of the reseller, the name of the installer All of these elements must of course correspond to those already seen in the Technical File

Control operations 6.2

Having arrived close to the access point proceed, as far as possible, as follows:

- conduct a visual examination of the integrity of the components on the system and in particular ascertain that there are no rust spots on the elements and that the mountings are all present
- verify that the system has not been tampered with

In case of doubt, request an inspection from the installing company or from a maintenance technician, authorised and qualified for this type of intervention.

Use of fall arrest devices 6.3

Special grooving that allows for correct fall arrest device installation is present on the right side of the ladder at a height of 90 cm from the ground on the opening section. Correct installation:

- wield the device with the arrow on the housing pointing upward
- position the external wheels in contact with the rail integrated into the ladder upright

- turn the device so that the rail also adheres to the wheels and accompany it upwards as to override the fixed angular over the grooving indicating the correct direction of device mounting
- slide the fall arrest device on the ladder, making sure that it slides freely pull it downward, verifying that it locks immediately
- verify lanyard conditions with the energy absorber connected to the device (do not use a different one)
- only after having scrupulously performed the previous operations, hook the connector to the sternal fall arrest attachment on the harness

Moving along the system 6.4

Upon reaching the system:

- staying anchored to the lanyard integrated into the trolley, move along the system with care until you reach the desired point or the landing on the roof
- make sure that the trolley follows the operator's movement, paying attention to any obstacles which could prevent regular falling and create problems for the operator or damage the actual PPE

Closure of the intervention 6.5

When an intervention is completed:

- do not leave any debris on the system
- check ladder conditions
- fill out the corresponding Card of Use and Maintenance (SUM)

Note: In the event of damage or stress undergone by the ladder, the system manager or the owner must be promptly notified who will contact the installer of the system, or contact Somain Italia directly.

7. Maintenance.

Safeladder® systems consist entirely of stainless steel and aluminium and, and as stated by the manufacturer, require annual maintenance. For maintenance interventions, follow the procedures set out above in the Use section.

Maintenance is however mandatory in the case of system intervention and upon the expiry of 10 years of guarantee in order to obtain renewal.

The purpose of maintenance is to verify the presence of any faults in the system and must be carried out by a person familiar with the recommendations and instructions issued by the manufacturer, applicable to components of the system. The operator must be able to identify and assess the extent of the defects and initiate the corrective action to be taken. If in any doubt, contact

Somain Italia who will attempt to solve problems encountered using their own technician.

Upon completion of any maintenance, the controller must fill out and sign the Servicing card (SI) and deliver it to the owner of the system. The Use and Maintenance card (SUM), described below, must also be completed to record all the work carried out on the system.

Annual maintenance

7.1

The Safeladder system must be checked by a competent person at least once a year and, however, whenever equipment has arrested a fall.

- **Check the legibility of markings and symbols engraved on the trolley.**
- **Check for any corrosion or fouling in the system components. In the event of surface deposits, to try to remove them with the aid of a brush. In the event of deep deposits, contact Somain Italian spa.**
- **Verify that the system has no anomalous deformations, cracks, fractures, incisions or sharp parts. If any are detected, contact Somain Italian spa.**
- **Check the proper tightening of screws and fastening nuts between ladder components (M8 at 20Nm).**

Trolley maintenance

7.2

Verify the last trolley maintenance contained on the SUM card (attached to the Manufacturer's Use and Maintenance Instructions of the system). The trolley is a PPE and, as such, is subject to specific annual maintenance. If revision is prior to one year, proceed as described in the following paragraphs.

- Trolley and rail must be cleaned with special detergents for aluminium and stainless steel. Remove any sediments or deposits that can impede movement of the trolley on the rail.
- Trolley rollers must be lubricated with spray lubricant oil at least once a year.
- Lubricate the sides of the locking pin and check pin locking directly on the trolley. The runner must automatically lock on the guide under the spring action.
- The lanyard and the energy absorber can be cleaned with water and neutral soap and should be left to dry without being exposed to the sun.
- Verify the correct operation of end stops installed on the vertical ladder uprights.

User safety is bound to correct equipment and device maintenance.

Any additions or modifications to the system or equipment must first be authorised by Somain Italian spa.

9. Guarantees

Duration 9.1

A ten year guarantee is given on all **Safeladder®** system components.

Exclusion 9.2

The guarantee will only be granted if:

- all components making up the **Safeladder®** system have been supplied by **Somain Italia**
- material supplied has been fully paid
- the material was installed and has been used in accordance with the installation instructions and the technical instructions of **Somain Italia**
- our products have been installed by competent installers recognised by **Somain Italia**

The guarantee will not be granted in cases where:

- the products are made from galvanised or zinc plated steel
- safety products include parts or accessories of external origin: in this case the agreed guarantee will be that of the supplier of the above parts.

The guarantee is excluded when the defect is caused:

- by an intervention or a change made to the original system without the written permission of the manufacturer/reseller
- by use that is irregular or that does not conform to the intended use of the equipment
- by defective installation not in compliance with drawings or performed to code
- by a client's failure to communicate special conditions (pollution, temperature, number of users, etc.) regarding equipment use
- by an underestimation of support resistance generating the destruction or non-compliance of our equipment
- by the adding to our systems of parts produced by the buyer or from other sources other than Somain Italia. All our life lines must be source from Somain Italia or manufactured with Somain Italia consent, on the basis of our designs
- by an event of force majeure or any event outside the control of the seller such as wars, lightning, etc.

Limitations 9.3

In all cases our guarantee is limited to the replacement or repair of elements or equipment that are formally recognised as defective by our technical service.

If the repair is entrusted to a third party, this can only be performed after acceptance by Somain Italia of the repair quote.

Any returning of equipment must be undertaken with the consent of Somain Italia. The guarantee only applies to elements returned and as such does not include the costs of removal and re-installation of the equipment in the group in which it is integrated.

The repair, replacement or modification of parts or equipment during the guarantee period can determine extension of the guarantee.

Responsibility

9.4

Fallprotec will be responsible, under the conditions of common law, for the material damage caused by your equipment or by your personnel.

Repair of the material damage attributable to the seller is expressly limited to a sum that does not exceed the value of the equipment in question, subject of the order.

By express convention, the seller and the customer mutually waive requiring the repair of the indirect and intangible damage of any kind, such as operating losses, loss of earnings, costs of delay, reminder, removal and re-installation of the equipment, loss of future contracts, etc.

Renewal

9.5

The 10-year guarantee may be extended at the request of the customer, after a technical inspection carried out, upon payment of the equipment installed.

Testing and maintenance

8.6

As far as possible, before each use, perform a visual examination of the components of the system.

In case of doubt, ask the installing company, an inspection organisation or a maintenance engineer, authorised and responsible for this type of intervention, for an inspection.

Safeladder® ladders require annual maintenance by an authorised and qualified person. Should this be deemed necessary there is the option of this inspection being performed by one of our staff authorised and qualified for this type of intervention.

The same procedures should be complied with in the event that the system has arrested a fall.

Jurisdiction

8.7

The applicable law is Italian legislation and the place of jurisdiction is in Bergamo (Italy) that will have exclusive jurisdiction over any dispute arising out of, or in some way related to, the products covered by this Manufacturer's Instructions.

10. References.

Manufacturer's Instructions 10.1

Manufacturer's Installation Instructions

Regulations 10.2

Technical standards 10.2.1

EN 341:1993 Personal Protective Equipment (PPE) against falls from heights

Lowering devices

EN 341:1992 Lowering devices

Lowering devices (transposition of European standard EN 341:1992)

EN 353-1:2002 PPE against falls from heights

Guided type fall arresters including a rigid anchor line

EN 353-2:2002 PPE against falls from heights

Guided type fall arresters including a flexible anchor line

EN 354:2002 PPE against falls from heights

Lanyards

EN 355:2002 PPE against falls from heights

Energy absorbers

EN 360:2002: PPE against falls from heights

Retractable fall arresters

EN 361:2002 PPE against falls from heights

Body harnesses

EN 362:2004 PPE against falls from heights

Connectors

EN 363:2008 PPE against falls from heights

Individual systems for protection against falls

EN 795:1996 Protection against falls from heights

Anchoring devices - Requirements and testing

National regulations 10.2.2

Legislative decree 81/2008 and subsequent additions and modifications

Consolidated text on health & safety

Local regulations 10.2.3

Circ. 4 /SAN/2004 of the Lombardy Region

Update of Title III of the Local Regulations of Hygiene, transposition of the integration to Title III of the Regional Hygiene Law drawn up by the ASL of Bergamo

Decree of the President of the Regional Executive no. 62 of 23.11.2005 of the Region of Tuscany

Implementing regulation of art. 82, paragraph 16 of Regional Law no. 1 of the 03.01.2005 relating to the technical instructions on preventive and protective measures for the access, transit and execution of works at height in conditions of safety

Decree of the president of the province no. 7-114/ Leg. of 25.02.2008 of the Province of Trento

Technical regulations for the prevention of accidents as a result of falls from heights during routine maintenance on roofs

Decree of the Regional Government no. 2774 of 22.09.2009 in the Region of Veneto

Technical instructions on preventive and protective measures to be implemented in buildings for the access, transit and execution of maintenance works at height in conditions of safety

Regional law no. 5 of 15.02.2010 of the Region of Liguria

Rules for the prevention of falls from heights on construction sites

Internet sites 10.3

www.fallprotec.com

Official site of the Manufacturer

www.somainitalia.it

Exclusive distributor for Italy

www.uni.com

Italian national site of unification

11. Manufacturer and Distributor.

Manufacturer

11.1

Fallprotec
43-45 ZA Op Zaemer
L-4959 Bascharage - Luxembourg

Distributor

11.2

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