

Securail® Vertical

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 **Genesi 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 **Genesi Italia** or from the chain of Partners and authorised resellers.
- Installation with simple procedures according to the Installation Manual by installers trained by Genesi 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 Genesi 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

Securail® Vertical rail systems are in compliance with EN 353-1 regarding guided type fall arresters including rigid anchor lines.

It is a rigid rail system made up of an aluminium extruded profile used for vertical type applications both directly on walls and on existing ladders, with special plates. In the first case, using mountings every 3 metres while, in the second case, the distance between mountings must be no more than 150 cm. Can be integrated with stainless steel steps to create a real access ladder which can be mounted every 170 cm on the structure.

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 use by 1 operator at a time with a special trolley that, by means of wheels, slides along the rail.

It is integrated with a lanyard with measurements in compliance with EN 354 equipped with energy absorber in accordance with EN 355, which the operator must connect to the sternal harness attachment, on compliance with EN 361, which must be worn.

Operator attachment to the trolley occurs with a connector that conforms to standard EN 362. A landing or resting steps should be provided every 15 metres.

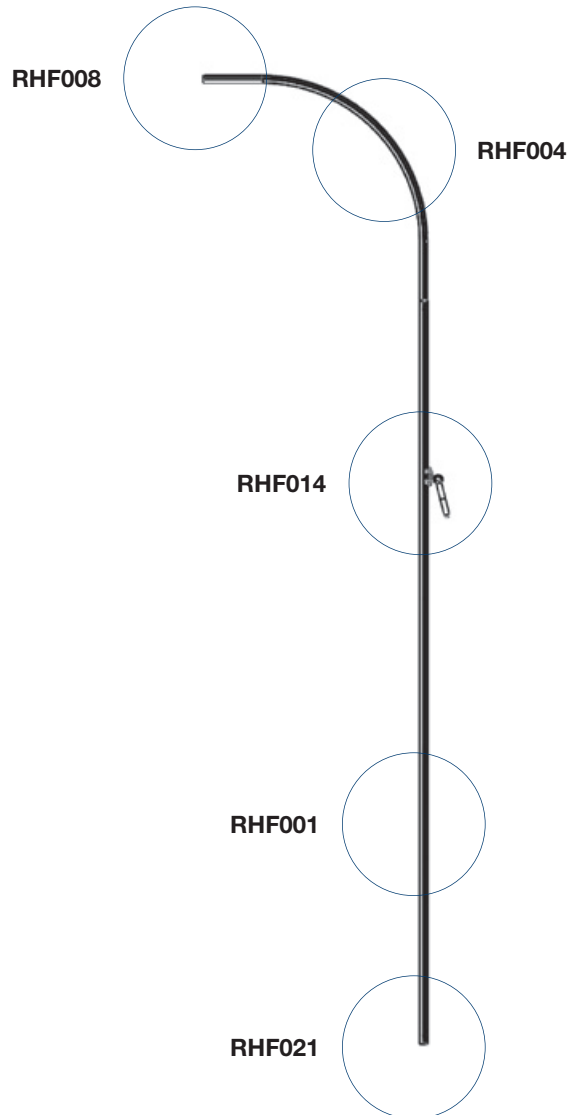
All components can be coated with any desired RAL colour paint.

The life line in question has been tested by the Apave Certifying Organisation 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

- trolley art. RHF014 (vertical)
- rail art. RHF001
- mounting brackets art. RHF016 (wall) or art. RHF020 (for ladder)
- cross-mounting art. RHF005
- junction piece art. RHF006
- mobile trolley stops art. RHF021 and/or fixed trolley stops art. RHF008
- mandatory sign art. CA00 in the vicinity of every access point.
- identifier seal art. C35

Additional components

3.4

- steps art. RHF041
- elbow section art. RHF003 (wall) or art. RHF004 (floor)
- Ladder with closable rungs art. RHF030
- Anti-intrusion casing art. RHF031
- Ladder with fixed rungs art. RHF036

4. Operators and their equipment.

Users 4.1

Securail® Vertical systems are certified for use by 1 operator.

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.

Assemblers: 4.2

Installation of **Securail® Vertical** systems includes the training of installers by an in-house technician to put into practice the correct methods for assembly.

The fitters affiliated to the partners of **Genesi Italia** are obliged to draw up their own Risk Assessment Document (DVR) from which the risks linked to the fitting of the life line and the counter-measures adopted to reduce the likelihood of this happening are drawn.

Personal protective equipment (PPE) 4.3

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 a fall.

- 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



Connector:

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 **Securail® Vertical** 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
- **distributor:** name and data from the distributor company (**Genesi 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 system **Securail® Vertical**
- **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 this Manufacturer's Instructions - Use and Maintenance available to operators, 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 the slider trolley available to the operator if he does not have one, as this is an essential element for system use
- checking the appropriateness 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 **Securail® Vertical** systems 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, indicating 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 identifying sign of the system, located close to each access point, in which the following are listed: type of line, serial number, maximum number of operators can use the line simultaneously on each individual stretch, clearance distance, commissioning date of the system, requirements for use of personal 3rd category protective equipment (PPE), 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 certification.

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

Starting from the bottom end, equipped with mobile stop, proceed as follows:

- press the stop pin and insert the fall arrest device, releasing the pin
- slide the fall arrest device on the rail, 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 kind unless otherwise indicated)
- 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

After having attached the fall arrest device to the rail, proceed as follows:

- the operator must have a fall arrest device with continuously taut lanyard at the height of the sternal attachment of the harness
- avoid lanyard contact with sharp edges or with components that could damage it

The descender accompanies operator descent and ascent and therefore there is no need to manoeuvre it with force.

Closure of the intervention

6.5

When an intervention is completed:

- make sure you have not left any debris on the system
- verify **Securail® Vertical** conditions as well as those of the sliding fall arrest device. If necessary, clean and lubricate the device as described in the Manufacturer's Instructions - Use and Maintenance or replace in the event of occurred stress
- fill out the corresponding Card of Use and Maintenance (SUM)

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

7. Maintenance.

Securail® Vertical systems consist entirely of stainless steel and aluminium and, are deformable 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 **Genesi Italia** that with its own technician will attempt to solve the problems encountered.

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

Indicative operations to be carried out for annual maintenance include:

identifier seal replacement verification of identifier sign presence rail cleaning of any residue with water and detergent checks for wear on the trolley and of correct sliding, including any cleaning with water and detergent if used in dusty environments and greasing of sliding wheels checks of mobile stop functioning and of the presence of fixed stops

Corrective actions are described in the Servicing card (SI) that authorised maintenance operators must issue at the end of each intervention.

Maintenance in the event of a fall arrest 7.2

Maintenance operations to be performed in the event that the system has arrested due to a fall are the same as those previously described, plus:

checks for stress which the rail may have been subjected to, in particular near the fall point checks of any anomalies of line components on the receiving structure checks of any stress undergone by the trolley checks of mounting tightness on mounted components Corrective actions are described in the Servicing card (SI) that authorised maintenance operators must issue at the end of each intervention.

Intervention by a Genesi Italia technician is advisable, who will intervene to assess the extent of any damage caused by the system in its fundamental parts and, especially, check the tightness of mountings.

Trolley maintenance 7.3

The most necessary maintenance operations are cleaning and lubrication of wheels which allow for trolley sliding.

In the event of damage or stress on the device, the system manager or the owner must be notified, who will contact the installer of the life line, or contact **Genesi Italia** directly.

9. Guarantees

Duration 9.1

A 10 year guarantee is given on all **Securail® Vertical** rails.

Exclusion 9.2

The guarantee will only be granted if:

- all components making up the system have been supplied by Genesi Italia
- the material was installed and has been used in accordance with the installation instructions and the technical instructions of **Genesi 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 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 original system without the written permission of the manufacturer/distributor
- 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 to good engineering practice, by the lack of communication by the customer of special conditions (pollution, temperature, number of users, etc.) regarding equipment use of the equipment

- 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 Genesi Italia. All our systems must be sourced from Genesi or manufactured with the consent of Genesi Italia, on the basis designs tested by them
- 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 Genesi Italia of the repair quote.

Any returning of equipment must be undertaken with the consent of Genesi 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 involved, 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 9.6

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

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

Securail® Vertical rail systems 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 9.7

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 341:1992 Personal Protective Equipment (PPE) against falls from heights

Lowering devices.

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 354:200 PPE against falls from heights

Lanyards.

EN 355:2002 PPE against falls from heights

Energy absorbers.

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.

National regulations 10.2.2

Legislative decree 81/2008 and subsequent additions and modifications

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.Genesi-securite.com

Official site of the Manufacturer

www.Genesiitalia.it

Official site of the exclusive distributing company

www.uni.com

Italian national site of unification



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Genesi Italia, Be Safe