

# **Allukemi Life**<sup>™</sup>

Manual for use and maintenance



# Table of contents.

	1.1	From the designer to the consumer	-
2.	Man	ufacturer.	Page 3
3.	Cert	Page 3	
4.	4.1 4.2	<b>luct description.</b> Functional diagram Type of element Additional elements	Page 4
5.	<b>Ope</b> 5.1 5.2	<b>rators and their equipment.</b> Users Personal Protective Equipment (PPE)	Page 5
6.	<b>use/</b> 6.1	<b>minary operations for</b> maintenance. By the owner By the user	Page 8
7.	<b>Use</b> 7.1 7.2 7.3 7.4 7.5 7.6 7.7 7.8 7.9	Arrival close to the access point Control operations Direct access to the system Access to the system with ascending re Moving along the life line Overrun of the intermediates Overrun corner transmission Moving close to the edge (pendulum ef Closure of the intervention	

1. Introduction.

Page 3	8. Maintenance.	Page 12
Page 3	9. Registration form for operations – inspections/maintenance.	Page 13
Page 3	10. Guarantees.	Page 15
Page 4	<ul><li>10.1 Duration</li><li>10.2 Exclusion</li><li>10.3 Limitations</li><li>10.4 Responsibility</li></ul>	
	11. References.	Page 16
Page 5	11.1 Manuals	
	11.2 Regulations	
	11.3 Technical standards	
	11.4 National regulations	
	11.5 Internet sites	



1.1

# 1. Introduction.

For works performed in places where there is danger of falls, in order to allow the operator to perform maintenance operations to move easily along the work area, a fall arrest system should be installed. The system in question, in addition to being safe, should be ergonomic, namely, for "convenient" use for the operator.

The system in question 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 is an integral part of the project both of the technical dossier and of the work. 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 the design solutions adopted, calculation report for supports and mountings to the structure.
- Manufacturer: product certification, manual of installation, use and maintenance.
- Installer: declaration of conformity of the works performed.

# 2. Manufacturer.

F.I.S.A. SRL Via Donizetti 109/111, 24030 – Brembate di Sopra (BG) – Italy Tel. 035-620380 Fax 0356220438 e-mail:acquisti@fisa.it

# 3. Certification.

This anchoring device has been tested and approved by:

APAVE SUDEUROPE SAS (no. 0082) CS60193 13322 MARSEILLE CEDEX 16 – France

All components have been subjected to a series of tests in compliance with standard EN795:2012 for C type devices and to additional tests in accordance with CEN/TS 16415:2012 technical specifications for users.

# From the designer to the consumer.

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 the consultancy of our technical office).
- Supply of the elements provided for the entire system directly from Genesi Italia or from the chain of authorised resellers.
- Installation with simple procedures according to the Installation Manual by installers trained by Genesi Italia (subject of this document).
- Use and Maintenance of the line according to the Manual of Operation and Maintenance.



# 4. Product description.

ALLUKEMI LIFE™ life lines comply with the safety requirements set out in standard EN 795:2012 for anchor devices within the C-type, or rather anchoring devices that use horizontal flexible anchor lines with a maximum inclination of 15° from the horizontal. The device is also in compliance with safety requirements set out in technical specifications CEN/TS16415: 2012 which establishes the tests and requirements for devices used simultaneously by multiple users.

It consists of a wire cable stretched between two or more elements fixed to adequately sized supports, with an energy absorber mounted on the end of the line, which dampens the energy in the event of a fall of the operator. The passage of the intermediates, as dictated by the principle of the ergonomics reported in Legislative Decree 81/2008 takes place without the disconnection of the operator, but with an easy and simple sinusoidal movement.

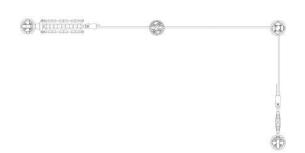
The maximum line length is 200 m and the maximum distance between two supports is 15 m.

The supports of the life line are sized by a qualified engineer in order to bear the load transmitted by the life line in the event of a fall. These can be mounted on beams in reinforced concrete, wood or steel, directly or with special steel backplates. It follows that the beams must also be able to withstand these loads and this resistance must be ensured in the design phase or with checks directly on site.

This type of system is certified for the concurrent use by

### Functional diagram.

4.1



3 operators that in the event of a fall generate on the end elements a maximum force of 21.6 KN. The operator that uses this system must wear a harness that conforms to the EN 361 standard and a double lanyard that complies with the EN 354 equipped with energy absorber according to EN 355. Where it is necessary to cover distances greater than the 2 m, limit of the lanyard, it is possible to use retraction devices according to EN 360 listed on the following pages. Attachment to the line occurs with a connector that conforms to the standard EN 362. In any case, the user must be a person trained in the use of systems and their individual devices, attested by an appropriate course. The choices on the use of the suitable device associated with the life line must be made by the designer in relation to the correct assessment of the air draft and the pendulum effect.

This system is non-deformable and can be used for the eventual recovery of the operator in the event of a fall within 20/25 minutes to avoid serious permanent damage, with appropriate recovery kit that complies with the EN 341 standard.

All components are made of aluminium alloy. They may also be lacquered with epoxy paint as a base and any desired RAL colour paint, with the exception of mounting systems that are in stainless steel.

Below is a detailed description of the system.

## Type of element.

#### 4.2

4.3

- standard supports art. SAP/SAS/SAU/PA for end pieces and adjustable corner transmissions;
- standard supports art. SIAP/SIAS/SIAU/PIA for middle pieces;
- specially sized supports;
- flashings art.LF31;
- end pieces type art.LF01;
- middle pieces art.LF04 for long life lines, provided with a wheelbase of no more than 15 m;
- adjustable corner transmissions art.LF06 if the life line is not straight;
- energy/tensioner absorber lock art. LF70;
- cap for cable containment (coil box);
- stainless steel Ø10 mm cable art.LF11;
- 1 mandatory sign art.LF00 at each access;
- 1 identifier seal art.C35;
- 1 tamper-proof seal art.C34.

## Additional elements.

• individual anchor points to allow landing on roofing and/or to prevent the pendulum effect.

# GENESI

# 5. Operators and their equipment.

5.1

# Users.

ALLUKEMI LIFE™ line lines are certified for the concurrent use by 3 operators. This system is non-deformable and can be used for the possible recovery of a suspended operator, which must take place within 20/25 minutes to avoid serious permanent injury.

Operators using this type of system must be trained given the need for use of III category PPE, for which specific training is required in accordance with Legislative Decree 81/2008 - Health & Safety Consolidated Text, as well as the recovery of any injured person which must be performed by an appropriately trained person.

# **Personal protective** equipment (ppe)

5.2

The use of this system is only permitted for operators provided with appropriate Personal Protective Equipment (PPE).

It should be remembered that the maintenance of PPE is established by the manufacturer in terms of lifespan and in the form specified in the manual of use, 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 are to be assessed by each individual case and, in the case of work at height, the minimum equipment is:

### Harnesses.

The minimum composition must be the following:

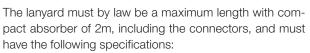
- in compliance with EN 361
- · complete with thigh straps and adjustable shoulder straps
- back and/or sternal fall arrester attachment

Better if integrated in this manner:

- 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

### Double lanyard fitted with energy-absorber

5.2.2



- double elasticated lanyard in compliance with EN 354 with two connectors for attachment to the line in compliance with EN 362
- energy absorber in compliance with EN 355 with connector for attachment to the harness in compliance with EN 362





5.2.1



5.2.4

# Connectors.



The 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).

Retractable device.

5.2.3



Where work at height requires a length of lanyard greater than 2m, in combination or as substitution of the double lanyard with absorber, one of the retractable devices described below can be used.

To assess the suitability of retractable devices, tests have been performed directly on the device. A mass of 100 kg, hooked directly from the carabiner of the retractive, was issued on two lines in single spans from 3m and 15 m, assigning a fall height of 600 mm to the mass (with fall factor equal to 1). In all tests, the retractable device stopped falls within 90 cm (60 cm beyond the initial rope).

Results have been summarised in the two tables below:

modello	rivenditore	produttore	materiale della fune	diam.cavo	lunghezza della fune	meccanismo di arresto	n°rimbalzi	aliungamento della fune prima dell'arresto	note
SOIT080	SOMAIN ITALIA	PROTEKT	acciaio galvanizzato	4mm	6 m	dispositivo a camme	1	78 cm	
SOIT081	SOMAIN ITALIA	PROTEKT	acciaio galvanizzato	4mm	10 m	dispositivo a camme	i.		
SOIT082	SOMAIN ITALIA	PROTEKT	acciaio galvanizzato	4mm	15 m	dispositivo a camme		S.	
SOIT012	SOMAIN ITALIA	PROTEKT	acciaio galvanizzato	4mm	6 m	dispositivo a camme	1	33 cm	
SOIT017	SOMAIN ITALIA	PROTEKT	acciaio galvanizzato	4mm	20 m	dispositivo a camme		8	5
SOIT018	SOMAIN ITALIA	PROTEKT	acciaio galvanizzato	4mm	25 m	dispositivo a camme	1	72 cm	
SOIT036	SOMAIN ITALIA	PROTEKT	poliammide	fettuccia 47 mm	2,5 m	dispositivo a camme	1	20 cm	8cm allungamento assorbitore di energia
SOIT048	SOMAIN ITALIA	PROTEKT	tessile	6mm	6 m	dispositivo a camme	1	27 cm	
SOIT202	SOMAIN ITALIA	IKAR	tessile	fettuccia	7 m	dispositivo a camme	1	52 cm	5.
SOIT203	SOMAIN ITALIA	IKAR	acciaio galvanizzato	4,5 mm	12 m	dispositivo a camme	1	48 cm	
SOIT205	SOMAIN ITALIA	IKAR	tessile	fettuccia	2 m	dispositivo a camme	1	53 cm	
				fettuccia	2 m	dispositivo a camme	1	50 cm	
SOIT803	SOMAIN ITALIA	KRATOS	acciaio galvanizzato	4,5 mm	15 m	dispositivo a camme	1	43 cm	
SOIT417	SOMAIN ITALIA	CHECKMATE	acciaio galvanizzato	4,5 mm	40 m	dispositivo a camme	1	82 cm	
PK20	TRACTEL	TRACTEL	acciaio galvanizzato	4 mm	20 m	dispositivo a camme	1	58 cm	
FALCON	MILLER	MILLER	acciaio galvanizzato	4 mm	10 m	dispositivo a camme	1	80 cm	

### 3 m LINE:



### 15 m LINE:

dispositivo	rivenditore	produttore	materiale della fune	diam.cavo	lunghezza della fune	meccanismo di arresto	n°rimbalzi	aliungamento della fune prima dell'arresto	note
SOIT080	SOMAIN ITALIA	PROTEKT	acciaio galvanizzato	4mm	6 m	dispositivo a camme	1	59 cm	
SOIT081	SOMAIN ITALIA	PROTEKT	acciaio galvanizzato	4mm	10 m	dispositivo a camme	ā.	8	
SOIT082	SOMAIN ITALIA	PROTEKT	acciaio galvanizzato	4mm	15 m	dispositivo a camme		S.	
SOIT012	SOMAIN ITALIA	PROTEKT	acciaio galvanizzato	4mm	6 m	dispositivo a camme	1	32 cm	
SOIT017	SOMAIN ITALIA	PROTEKT	acciaio galvanizzato	4mm	20 m	dispositivo a camme		i.	
SOIT018	SOMAIN ITALIA	PROTEKT	acciaio galvanizzato	4mm	25 m	dispositivo a camme	1	62 cm	
SOIT036	SOMAIN ITALIA	PROTEKT	poliammide	fettuccia 47 mm	2,5 m	dispositivo a camme	1	21 cm	8cm allungamento assorbitore d energia
SOIT048	SOMAIN ITALIA	PROTEKT	tessile	6mm	6 m	dispositivo a camme	1	42 cm	
SOIT202	SOMAIN ITALIA	IKAR	tessile	fettuccia	7 m	dispositivo a camme	1	48 cm	
SOIT203	SOMAIN ITALIA	IKAR	acciaio galvanizzato	4,5 mm	12 m	dispositivo a camme	1	36 cm	
SOIT205	SOMAIN ITALIA	IKAR	tessile	fettuccia	2 m	dispositivo a camme	1	49 cm	
				fettuccia	2 m	dispositivo a camme	1	47 cm	
SOIT803	SOMAIN ITALIA	KRATOS	acciaio galvanizzato	4,5 mm	15 m	dispositivo a camme	1	41 cm	
SOIT417	SOMAIN ITALIA	CHECKMATE	acciaio galvanizzato	4,5 mm	40 m	dispositivo a camme	1	83 cm	
PK20	TRACTEL	TRACTEL	acciaio galvanizzato	4 mm	20 m	dispositivo a camme	1	57 cm	2.
FALCON	MILLER	MILLER	acciaio galvanizzato	4 mm	10 m	dispositivo a camme	1	79 cm	

The use of any retractable device or guided type fall arrest device including a flexible anchor line (EN353-2) not listed above releases Genesi Italia from any liability.

Before any operations, the operator must always verify that the retractable device is:

- in compliance with EN 360
- equipped with retractable system, self-locking system and an internal energy dissipater
- steel cable of necessary length
- equipped with connectors, one for attachment to the line and one for attachment to the harness, in conformance with EN 362
- for use on slopes less than 30% it is mandatory to integrate the same with a steel lanyard with absorber, or with another device indicated by the manufacturer of the retractable element to also enable use of the same in a horizontal position

The retractable fall arrester requires annual review at centres authorised by the manufacturer, as prescribed by the Standard EN 360, as it is supplied with a particular shutdown system that must be inspected by a competent person.



# 6. Preliminary operations for use/ maintenance.

### By the owner.

6.1

The owner of the property on which the ALLUKEMI LIFE<sup>™</sup> 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 the same considers suitable, in compliance with certain requirements:

- keep system certification. Certification 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 (Genesi Italia)
  - reseller: name and data from the reseller company (authorised by Genesi Italia)
  - 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 Assembly Manual; correct installation declaration must at minimum contain the information listed below, that the device:

- is installed in compliance with manufacturer instructions
- installation has been performed according to plan
- has been provided with photographic information/ documentation, especially where mounting devices and underlying substrates are no longer visible after installation

Below is a schematic example of an installation plan:

Plano di installazione schematico					
Editels/Stutturs		CARGE STREET	51023153338	WHELE TO UNITS	STATE STATE
	Indirizzo: Note:			Nº d'ordine: Tipo di edificio: Forma del tetto: Dispositivo di anci	6 <b>799</b> 70:
Cliente		ACCESS OF	1011111	Constanting	
	Nome: Indirizzo:			Persona di contati Telefono:	ha:
Installatore	2012/02/02/02/02/02/02/02/02/02/02/02/02/02	S75455	5. 5. 5. 5.	Seren Les	
-	Nome: Indirizzo:			Installatore capox Talelono:	
Dispositivo di ancoraggio	STORE FORS			500 000 000	Restances File
	Fabbricante: Identificazione del n	nodello/tpa:			
Componente dell'editido		NY STREET	14893.65	1990 N 880 S	all and the second
	Componente 1: Componente 2: Moteriale dall'edificio	per esempio colo		Minimo spessore: Minimo spessore: Qualità:	per esemplo 250 mm per esemplo 500 mm per esemplo min. C25/30
Fissaggi/Chiavarda		1.10.10	2201200201	Fabbricanto	SALES ALL PROPERTY.
Dati dei fissaggi dati non richiesti se fissato attaxenso	Diametro dei foro: Profondità dei foro: Coppia:			Tipo: Materiale: Distanza minima i Spaziatura assiali Spassore minimo	
Situazione reale:	Distanza dal bordo Spaziatura assiale i			Forza di trazione i Forza di taglio am	
Note:					
Metodo forature: Dispositivo di prove:	Martelo     Rotativo     Chiave dinamore	netrica	<ul> <li>Pultura del for</li> <li>Dispositivo di p</li> </ul>	N	Sistema d'unto 🗆 Si 🔲 No 🗋 Umido 🖾 Seco 🗌 Si 💭 No
LISTA DI CONTROLLO Substato come alleso (ne capacità) Instalizzone contorne alle tabbricane Fiscaggi mocomandati util Tisti ilesaggi intogradati uti identificzatine Fiscaggi visibili Piano di instalazione appo Innochizzazione dide viti fiscaggi catravenane ili informazioni aggi utitete	eeun dubbio sulla I latruzioni del Izzati an numero di xato sul sito modianto tacnica di 110	Plano del perimer	- + <sub>6</sub>		+ <sup>14</sup> + <sup>19</sup>
Forza di estrazione richiesta (MN),	ooppia richiesta [Nm] o	otternuta?	A Classes	Reg Martin	
	Punto di ancoraggio     Punto di ancoraggio     Punto di ancoraggio     Punto di ancoraggio	06 07 08	Punto di ancorag Punto di ancorag Punto di ancorag	gio 11 gio 12	Punto di ancoraggio 12
Note da parte dell'installatore cap				*********	
Date:	Firma:				



- 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 any ascending routes to the actual system via the individual anchor points, the position of the class C ALLUKEMI LIFE<sup>™</sup> system, any non-walkable areas
- certification of the facility and of the constituent elements of the same (certification of the system and not of every single element adapted to the particular use)
- making available to any user the complete certification
- making available to the operator this Manual of Use and Maintenance, indicating the date of commissioning of the system, the subsequent uses and subsequent inspections or compulsory maintenance by compilation of the registration form
- checking the appropriateness of the user that must have taken special training courses for III category individual fall arrest personal protective equipment
- provide routine system maintenance If the owner fails to comply, even partially, with the obligations referred to

in this paragraph, the same endangers the safety of other individuals in addition to invalidating the guarantee on the system. If the owner, however, does not obtain from the operator the suitability for use of the fall arrest protective devices, the same must prohibit the use of this system.

### By the user.

The user preparing to intervene in a place where the AL-LUKEMI LIFE<sup>™</sup> system is mounted must be trained in the use of this type of system and must perform the following preliminary steps:

- request from the owner this Use and Maintenance Manual indicating the date of commissioning of the system, the subsequent uses and the subsequent inspections or compulsory maintenance compilation of the Use and Maintenance Card (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

==> demonstrate to the owner the 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 obtain all the elements, indicated in this point, the user/maintenance technician must refuse to use the system for any operation.

#### 6.2



# 7. Use.

### Arrival close to the access point. 7.1

The first phase of use is the following:

- reaching the access point as indicated by the plan attached to the certification with necessary PPE;
- acknowledgement of the file indicating the system, located close to each access point, in which are listed: line type, serial number, maximum number of operators that can use the line life simultaneously on each individual stretch, air draft, 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 certification.

# **Control operations.**

7.2

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

- conduct a visual examination of the integrity of the components of the line life and in particular ascertain that there are no rust spots on the elements and that the mountings are all present;
- check that the seals have not been tampered with;
- perform a manual inspection of the tension of the cable.

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

### Direct access to the system. 7.3

Having reached the point of access, before stepping off onto the workplace, the following are required:

- if using the lanyard with absorber, hook directly to the cable of the life line with the connector on the free end of the lanyard and connect the head with the absorber to the fall arrest dorsal attachment of the harness;
- if using the retraction device, hook directly onto the cable of the life line with the connector attached to the casing of the device and connect the free end of the device to the fall arrest dorsal attachment of the harness.

# Access to the system with ascending route.

- ascend up to the life line through the individual anchor points, positioned at a distance of approximately 150/200cm from each other, using the double lanyard supplied. still remaining anchored to at least one anchor point ascend, hooking onto and hooking off in alternation, until reaching the life line;
- if using the lanyard with absorber, hook directly to the cable of the life line with the connector on the free end of the lanyard and connect the head with the absorber to the fall arrest dorsal attachment of the harness;
- if using the retraction device, hook directly onto the cable of the life line with the connector attached to the casing of the device and connect the free end of the device to the fall arrest dorsal attachment of the harness.

### Moving along the life line.

7.5

7.4

Upon reaching the life line:

- remain anchored with the lanyard or with retractable system or guided fall arrest device to the life line and carefully move along the system, parallel to the cable of the life line, until reaching the desired point;
- ensure that the PPE follows the movement of the operator paying attention to any obstacles that could prevent regular falling and create problems for the operator or damage the actual PPE.

### Overrun of the intermediates. 7.6

In the case of presence of intermediate elements, it should be remember, as imposed by the principle of the ergonomics reported in Legislative Decree 81/2008 that these must be overrun remaining always anchored to the life line, then proceeding as follows:

- take the connector taking the lanyard in your hand;
- effect a sinusoidal movement in such a way as to allow exceeding of the intermediate position without having to detach the connector.



# Overrun corner transmission. 7.7

In the case of presence of corner transmissions the continuity of the life line can be interrupted and overrunning of these elements, only with a double lanyard, can be performed in the following way:

- unclip a connector with the lanyard and reconnect beyond the deviation;
- once the first connector is connected, repeat the same operation with the second in order to always be anchored to the life line
- once the second connector is also reconnected continue along the life line until the destination area is reached

# Moving close to the edge (pendulum effect).

7.8

If the area relevant to the intervention of the operator is located near the edge of the slope and there is therefore the possibility of a lateral fall that could generate a pendulum effect, double-anchoring is required, obtainable in the following manner:

- check for the presence in the area of an anchor point, usually located approximately 2m from the edge and with a visual inspection check its state of wear
- Still remaining connected to the main life line, proceed to anchoring of the connector of a lanyard to the device identified. This simple operation creates a triangulation of anchorage of the operator, thus avoiding any pendulum effect.

## Closure of the intervention. 7.9

When the intervention on the roof is completed do not leave any equipment or debris there, check the integrity of the ALLUKEMI LIFE<sup>™</sup> life line and complete the appropriate Registration Form.

In the event of damage or immediate stress of the AL-LUKEMI LIFE<sup>™</sup> life line the system manager or the owner must be promptly notified who will contact the installer of the life line, or contact Genesi Italia directly.



# 8. Maintenance.

ALLUKEMI LIFE<sup>™</sup> life lines consist entirely of stainless steel and aluminium components and of an polymeric material energy absorber, materials which offer high resistance to atmospheric agents and ozonated agents.

That said, the flexible anchoring line is considered Personal protective equipment: as such, inspection and maintenance by a competent person at least once a year and before reuse if not used for long periods is required. At least the following must be performed:

- visual and mechanical inspection of anchor points: verification of conditions of devices and tightening torque with a torque wrench;
- checking of the integrity of the tamper-resistant seals;
- check of correct tensioning of the line and verification of energy absorber conditions; normal cable tension should be about 750 N (for lines longer than 30 m, cable tension can reach 1000-1200N). Checks should be carried out with a special sensor art. SVTE equipped with a handheld art. PALM for data reading;
- check of conditions of fixed ends, of the adjustable corner transmissions, of any middle pieces and of the cable (verification of the absence of permanent deformation, corrosion, assess the conditions of mountings, verify that the fall indicator has not been set off and check for the absence of anomalies on components.

The presence of defective items renders the device temporarily unusable. The device can only return to operation after repairs carried out by trained, competent personnel. PPE maintenance must be performed after a fall or even an accidental entry into service of the device. This operation 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 damage and initiate the corrective action to be taken. No line components require preliminary cleaning before, during or after use. Maximum system life is fixed at 20 years. System life is counted starting from system commissioning.

Annual maintenance/inspection, special maintenance and device use must be noted on the registration form shown below to ensure future users that the system has been used correctly and has been periodically service.



# 9. Registration form for operations – inspections/maintenance

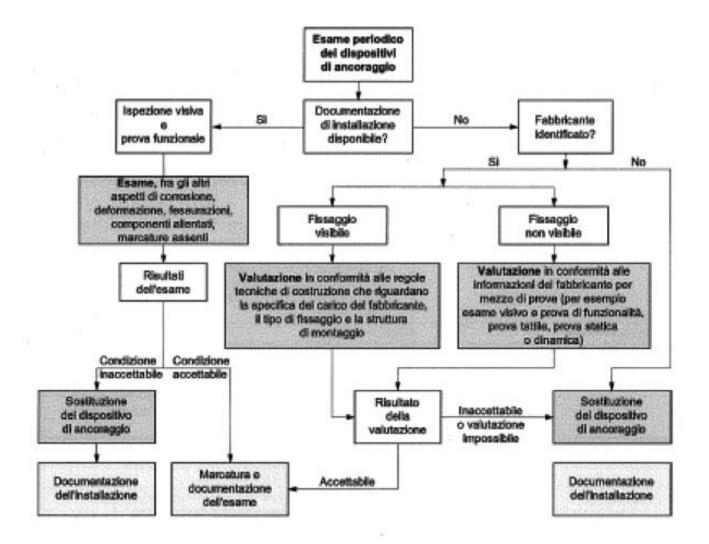
System no.: Certification no.: Lot number: Device year of manufacture: Date of purchase: Date of first commissioning: Manufacturer: FISA S.r.I. Manufacturer address: Distributor: Genesi Italia S.p.a. Reseller: Installer:

Interventions for Use – Maintenance/Inspection - Special maintenance									
Service date	Cause (Periodic inspection/use/ special maintenance)	Result of maintenance inspection	Defects noted, repairs performed and any other pertinent information	Name and signature of competent person	Expected date of next inspection/ maintenance				

Registration form for operations – inspections/maintenance.



Below is a revision/periodic check guide:





# 10. Guarantees.

### **Duration.**

10.1

A 10 year warranty is agreed from the date of the delivery note on all the pieces in stainless steel or aluminium that make up our ALLUKEMI LIFE<sup>™</sup> life lines and our anchor points making up the system.

## **Exclusion.**

10.2

The guarantee will only be granted if:

- the cable for ALLUKEMI LIFE<sup>™</sup> lines life was provided by Genesi 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 Genesi Italia.

The guarantee will not be granted in cases where:

- Our products are made from galvanised or zinc plated steel;
- Our 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 abnormal 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 breakage of a support hosting the anchoring device;
- by the adding to our systems of parts produced by the buyer or from other sources other than Genesi Italia All our life lines must be sourced from Genesi Italia or manufactured with our consent, on the basis of our de signs;
- by an event of force majeure or any event outside the control of the seller such as wars, lightning, etc.

### Limitations.

10.3

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 cover 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.

## **Responsability.**

10.4

Genesi Italia 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 reinstallation of the equipment, loss of future contracts, etc.



# 11. References.

Manuals.	11.1				
Assembly Manual.					
Regulations.	11.2				
Technical standards.					
EN 341:1993 Personal protective equipment (PPE) against falls heights - Descent devices (transposition of Europe standard EN 341:1992)					
<b>EN 353-1:2003</b> PPE against falls from heights - Guided type fall a	arresters				

PPE against falls from heights - Guided type fall arresters including a rigid anchor line (transposition of European standard EN 353-1:2002)

#### EN 353-2:2003

PPE against falls from heights - Guided type fall arresters including a flexible anchor line (transposition of European standard EN 353-2:2002)

#### EN 354:2003

PPE against falls from heights - Lanyards (transposition of European standard EN 354:2002)

#### EN 355:2003

PPE against falls from heights - Energy absorbers (transposition of European standard EN 355:2002)

#### EN 360:2003:

PPE against falls from heights - Retractable fall arresters (transposition of European standard EN 360:2002)

#### EN 361:2003

PPE against falls from heights - Body harnesses (transposition of European standard EN 361:2002)

#### EN 362:2005

PPE against falls from heights - Connectors (transposition of European standard EN 362:2004)

#### EN 363:2008

PPE against falls from heights - Individual systems for protection against falls (transposition of European standard EN 363:2008)

#### EN 364:1993

PPE against falls from heights - Test methods (transposition of European standard EN 364:1992)

#### EN 365:2005

PPE against falls from heights - General requirements for instructions for use, maintenance, periodic examination, repair, marking and packaging (transposition of European standard EN 365:2004)

#### UNI-EN 795:2013

Personal equipment for protection against falls - Anchoring devices (transposition of European standard EN 795:2012)

#### UNI CEN/TS16415:2013

Personal equipment for protection against falls - Anchoring devices - Recommendations for anchoring devices for use by multiple people at the same time

### National regulations. 11.4

# Leg. Decree 81/2008 and subsequent additions and modifications

Consolidated text on health & safety

### Internet sites.

11.5

#### www.genesibesafe.com

Official site of the Manufacturer

#### www.uni.com

Italian national site of unification





#### Genesi Italia

Via Donizetti, 109/111 24030 Brembate di Sopra Bergamo - Italy

T. +39 035 0332049 F. +39 035 6220438 info@genesibesafe.com



genesibesafe.com

Genesi Italia, Be Safe