1 - APPLICATION

Prior to use, the following safety instructions and the current status of the technology must be taken into consideration.

-Keep this operating manual with the product and carefully fill out the record sheet depending on the product FallSafe-online.

-Completely read the instructions for use.

-Understand and accept the possibilities and restrictions of the protective equipment as well as the risks associated with its use.

-This protective equipment should only be used by persons who are familiar with this instructions for use, who are physically and mentally healthy, and who have been trained in the use of fall-protection systems.

-Medical conditions (cardiovascular problems, intake of medicines, alcohol) can affect the safety of the user.

-Measures (emergency plan) must be specified for fast rescue prior to using the fall prevention system. Attention: After a fall a longer period of suspension can cause severe injuries or even death (suspension trauma).

-When using the protective equipment the respective accident prevention guidelines (e.g. working in areas where there is danger of falling) must be complied with.

-For horizontal implementation only use lanyard that are suited for this purpose, and that have been tested for the respective falling edge (sharp edges, sheet metal with trapezoidal corrugations, steel girders, concrete, etc.). Attention: Avoid pendulum fall!

-The combination of the specific elements is only permitted as specified in this operating manual. Incorrect applications can impair safe function – this can result in severe or fatal injuries.

-The protective equipment has been developed for personal safety and may not be used for other purposes.

-Each person active in the areas where there is danger of falling is responsible for ensuring that the connection to the anchorage is kept as short as possible to prevent the possibility of a fall. A fall arrest in a fall arrest system. When using multiple items of equipment, a dangerous situation can arise in which the safety function of an item of equipment can be affected by the safety function of another item of equipment.

Make sure that the anchor point is correctly positioned, in order to limit the risk and the length of a fall. A fall arrest in a fall arrest system. When using the required clearance below the user before each use, in order to avoid any impact with the ground or with an obstacle in case of a fall.

(minimum strength of 12 kN). In a fall arrest system, it is essential to check user's position and should meet the requirements of the EN 795 standard on the order of 12 kN.

The anchor point for the system should preferably be located above the The maximum load that can be transmitted to the structure by the anchor is exerted on the user when the fall is arrested, to a maximum value of 6 kN.

the possibility of a fall. When the anchor device is used as part of a fall arrest system, the user must be equipped with a means of limiting the impact force, connection to the anchorage system is kept as short as possible to prevent guidelines (e.g. working in areas where there is danger of falling) must be complied with. The combination of the specific elements is only permitted as specified in this operating manual. Incorrect applications can impair safe function – this can result in severe or fatal injuries. Each person active in the areas where there is danger of falling is responsible for ensuring that the fall prevention system. Attention: After a fall a longer period of suspension can cause severe injuries or even death (suspension trauma). When using the protective equipment the respective accident prevention

Measures (emergency plan) must be specified for fast rescue prior to using the fall prevention system. Attention: After a fall a longer period of suspension can cause severe injuries or even death (suspension trauma). Medical conditions (cardiovascular problems, intake of medicines, alcohol) can affect the safety of the user.

Keep this operating manual with the product and carefully fill out the test sheet depending on the product.

Completely read the operating manual.

Understand and accept the possibilities and restrictions of the protective equipment as well as the risks associated with its use. This protective equipment should only be used by persons who are familiar with this operating manual, who are physically and mentally healthy, and who have been trained in the use of fall-protection systems.

Medical conditions (cardiovascular problems, intake of medicines, alcohol) can affect the safety of the user.

2 - MAINTENANCE

Prior to use, the following safety instructions and the current status of the technology must be taken into consideration.

FALL SAFE® recomends to use allways stainless steel nuts, bolts and parabolts, and HILTI HIT-HY 200 chemical plugs.

When choosing how to mount the anchors, it is necessary to carefully evaluate the quality and conditon of the support compatibility with other components and the influence of external factors on (e.g. proximity to the sea) on lifetime, climatic conditions, the outside temperature (-40°C÷80°C) and possible electrical currents (which depend on the type of rock, cement, earthing) present in the support. An anchor has verified and guaranteed load-bearing capabilities, however these load-bearing capabilities cannot be guaranteed if the support into which the anchor is inserted is less strong or less homogeneous than the block of cement used during the testing (Compressive strength 50 N/mm2).

The installation of the anchor must be carried out by competent persons or organisations and appropriately checked. The anchor point for the system should preferably be located above the user's position and should meet the requirements of the EN 795 standard (minimum strength of 12 kN).

Attention! Soft rock (e.g. sandstone, conglomer- rate, etc), or areas of rocks which are not solid (presence of cracks, empty voids, etc.), can have bearing capacities not sufficient to grant the minimum breaking strengths. In such cases, to obtain the desired load-bearing capacity, it may be necessary to use a longer fixing bolt or choose a stronger place to install the anchor (this alternative is to be preferred whenever possible). In some cases, it may beappropriate to effect test installations with a range of different fixing types or lengths and test the load-bearing

3 - SPECIFIC INSTRUCTIONS

Installation / Removal (fig. A - fig. B)

For installation in steel beams or concrete, proceed as follows: check the quality of the support around the anchor making sure that the concrete compact and consistent;drill a hole with an adequate diameter and depth (Fig. A1), thoroughly clean the hole with a jet of air (Fig. A2) and then with a brush (Fig. A3), insert the chemical plug and then the bolt (fig. Bbbbbbb), wait chemical plug curing time (as indica- ted in chemical plug instructions) and then tighten the fixing nut with a torque wrench, tightening to the prescribed torque (Fig.A4). For fixing with "Parabolts", follow the same instructions without the chemical plug injection. After each installation, make sure that the anchor rotates freely. (Fig. B3). The "Parabolt" can be removed by unscrewing the nut on the bolt fixed into the concrete, removing the "Parabolt" and checking that it has no defects which would compromise its reuse.

Attention! If the "Parabolt" is reused elsewhere, tighten the nuts with a torque wrench, tightening to the prescribed torque.

Inspection, points to verify

Before each use check that: there are no signs of wear, cracking, corrosion or deformation; the fixing nut is securely tightened; the anchor hole has no sharp edges or cuts; the anchor devices is not dirty (eg. sand or mud). Ensure that all of the equipment has the correcta standards reference and that it is in perfect working order. Ensure that the maintenance records of each piece of equipment are correct and up to date. Carefully consider the safest access routes, be suitably equipped and prepared with regards to emergency procedures for rescuing any of the operators in difficulty; check in case of use in a fall arrest system, the necessary free space under the operator in the working site so that, in the event of a fall, the operator will not hit against the ground or other obstacles on the fall trajectory.

Attention!

If the anchor has been loaded during the arresting of a fall it should not be used and must be replaced.

TRACEABILITY AND MARKINGS

The following information is etched on Anchor Point : CE marking; (Number of the production process controlling body); Name of the manufacturer or of the person responsible for the introduction on the market; EN 795:2012 A ("N" and year of the standard) followed by a letter that identifies the class of the connector; A logo that warns the user to carefully read the uses instructions attached to the anchor; Production lot number; Year of production; Maximum load applicable in kN, the strength indicated is the lowest value guaranteed by the producer. CHECK that these markings are legible even after use.

LONGEVITY

It is rather difficult to establish the length of the Anchor Point, as it can be adversely affected by several negative factors such as intensely frequent or improper use; the conditions the device is required to work in (humid, freezing and icy conditions); wear; corrosion; serious stress with or without relative deformation; exposure to heat sources; improper storage; device age; exposure to chemical agents ... (plus any further reason, not merely limited to all the foregoing reasons). Taking the adequate care of your device (please consult the "maintenance" section accordingly) will have a considerable influence on and will definitely increase device durability and long life.

INDEX

FALL® SAFE

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Ready for: FALL SAFE® INSPECTOR

RFID QR CODE SN .APK

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MADE IN PORTUGAL

FALL® SAFE

WWW.FALLSAFE-ONLINE.COM

Anchor Points

EN795:2012

50-7038 REV. STD2017

WARNING

Activities involving the use of this equipment are inherently dangerous.
You are responsible for your own actions and decisions.
Before using this equipment, you must:
- Read and understand all Instructions for Use.
- Get specific training in its proper use.
- Become acquainted with its capabilities and limitations.
- Understand and accept the risks involved.

FAILURE TO HEED ANY OF THESE WARNINGS MAY RESULT IN SEVERE INJURY OR DEATH.

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STORAGE / CARE

(EN) Temperature
(FR) Température
(DE) Temperatur
(IT) Temperatura
(ES) Temperatura
(PT) Temperatura

(EN) Storage / Transport
(FR) Stockage / Transport
(DE) Lagerung / Transport
(IT) Conse rvazione / Trasporto
(ES) Almacenamiento / Transporte
(PT) Conservação / Transporte

(EN) Cleaning / Disinfection
(FR) Nettoyage / Désinfection
(DE) Reinigung / Desinfektion
(IT) Pulizia / Disinfezione
(ES) Limpieza / Desinfección
(PT) Limpeza / Desinfecção

(EN) Drying
(FR) Séchage
(DE) Trocknen
(IT) Asciugamento
(ES) Secado
(PT) Secagem

(EN) Maintenance
(FR) Entretien
(DE) W artung
(IT) Manutenzione
(ES) Mantenimiento
(PT) Manutenção

(EN) Dangerous products
(FR) Produits dangereux
(DE) Gefährliche Produkte
(IT) Prodotti pericolosi
(ES) Productos peligrosos
(PT) Produtos perigosos

3 - SPECIFIC INSTRUCTIONS

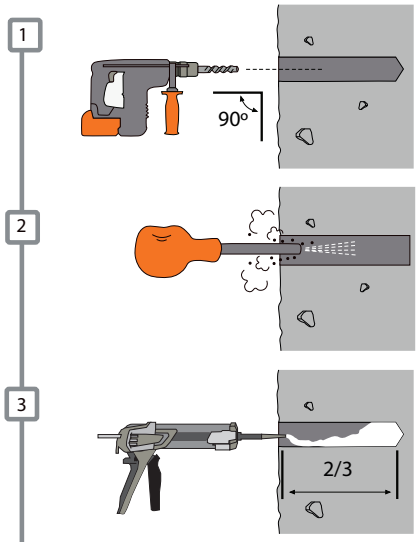
By way of example, the following can be considered as a rule to determine standard potential durability of devices, tools and equipment: - 15 years for products composed of plastic materials and/or with fabric components and elements. For metal products, durability is undetermined. It is nevertheless recommended that you replace your devices, tools and equipment at least every 15 years, considering that in the meantime new techniques and/or rules and regulations may have become applicable and your equipment may no longer be compliant and/or compatible with one another.

WARRANTY

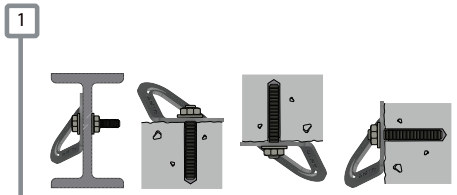
This product is provided with a three-year warranty against any manufacturing defect, or defects in the materials it is composed of. The warranty does not cover standard item wear, device alterations, improper storage, damages due to improper use of the device, negligence, improper maintenance, etc., and any further reason not only limited to the aforesaid.

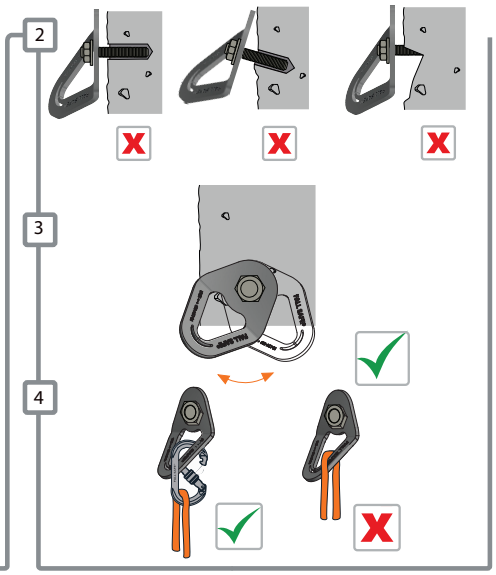
4 - INSTALATION

4A - INSTALLING THE ANCHOR



4B- HOW TO USE THE ANCHOR

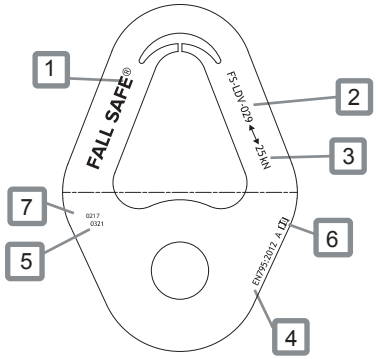


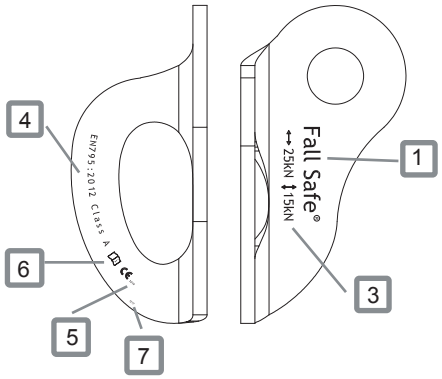


5 - INSTALLATION DETAILS

Diameter of the anchor			M12
Nominal diameter of the drill	d_0	[mm]	14
Range of the depth of the hole and embedding	$h_{nom,min}$	[mm]	60
	$h_{nom,max}$	[mm]	150
Minimum thickness of base material	h_{min}	[mm]	hnom +60
Tightening torque	T_{inst}	[Nm]	57

6 - MARKINGS





1- Manufacturer's name
2- Model type identification
3- Strength
4 - Standard
5 - Notified Body Identification number
6 - Pictogram indicating the necessity of user to read instructions manual
7 - Batch Number

EQUIPMENT RECORD

RECORDS

All periodic examinations should be recorded below by the competent person. This record should be kept with the equipment during the whole life time.

Product:	REF: Reference No. (see equipment label)	SN: Serial No. (see equipment label)	Manufacturing date (see equipment label)
Purchase date:		Date first put into use:	
Other relevant information:			

PERIODIC EXAMINATION AND REPAIR HISTORY

Date	Reason for entry (periodic examination or repair)	Defects, Repairs Etc.	Name & signature (competent person)	Periodic examination next due date

Listed organisation for CE type approval
Satra Technology Centre, Wyndham Way, Telford Way, Kettering Northamptonshire, NN16 8SD, United Kingdom Notify Body No.: CE0321

89/686/EEC 11B, ISO9001:2015:
SGS United Kingdom Ltd, Weston-super-Mare, BS22 6WA, UK; Notified Body No.: CE0120

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