



## Area of use\*



## Technical features

This kit includes:

**1 fall arrest harness (HARRIONE)**

Polyester strap construction. Dorsal connection (fall arrest) with steel ring. Weight: 800 g.

**1 restraint lanyard (CORTONAK15 / 1,5 m)**

Braided polyamide lanyard.

Length: 1,5 m. Hooks at the ends.

**1 carrying bag.**

**Packaging:** carton of 5 pieces.

**Subpackaging:** individual bag.

## Advantages

**Complete kit for restraint system.**

**Quick storage** thanks to the included carrying bag.

**The harness also integrates into a fall arrest system.**

**Reinforced strength** thanks to polyester/ braided polyamide.



## Certification

This product complies with **European Regulation (EU) 2016/425**

on Personal Protective Equipment (PPE). **Category III.**

Issued by **SATRA**, notified body n°2777.

**EN 361 : 2002 (HARRIONE) - EN 354 : 2010 (CORTONAK15)**



**CE 0598**

Download the EU declaration of conformity on <http://docs.singer.fr>

## STANDARDS

EN 353-2	PPE against falls from a height: Fall arresters on a flexible anchorage line.
EN 354	PPE against falls from a height: Lanyards.
EN 355	PPE against falls from a height: Energy absorber.
EN 358	PPE against falls from a height: Belts for work positioning and restraint and work positioning lanyards.
EN 360	PPE against falls from a height: Retractable type fall arresters.
EN 361	PPE against falls from a height: Full body harnesses.
EN 362	PPE against falls from a height: Connectors.
EN 363	PPE against falls from a height: Personal fall protection systems. General requirements for instructions for use, and marking.
EN 365	PPE against falls from a height: General requirements for instructions for use, and marking.
EN 795	PPE against falls from a height: Anchor devices.
EN 813	PPE against falls from a height: Sit harnesses.

### EN 353-2 - FALL ARRESTERS ON A FLEXIBLE ANCHORAGE LINE



The fall arresters follows the user as he progresses and blocks him automatically in case of fall.

- > Static resistance:
  - Anchorage line (resist to a 22 kN force).
  - Anchorage cable (resist to a 15 kN force).
- > Dynamic performance (with a trial mass of 100 Kg):
  - Braking force does not go over 6 kN.
  - Stopping distance does not go over 3 m.

### EN 354 - LANYARDS



Lanyards are connecting elements, they can include an energy absorber, which helps absorbing the impact of a fall. In this case, this element is covered by the standard EN 355.

### EN 355 - ENERGY ABSORBER



Energy absorber is obligatorily used in situation where the user is exposed to fall risks. The lanyard has to dissipate the Energy developed during a fall from a height and to reduce the braking force to a no lesional level.

The Energy absorber is made up of a strap folded into a package. In the event of an impact, the package is torn open and the strap unfolds gradually. The anti-fall link is equipped with a connector that links the harness to the anchoring point. The connectors can be made directly with the lanyard or sold separately.

- They are covered by standard EN 362
- > Dynamic performance:
  - Braking force does not go over 6 kN.
  - Static preloading: 2kN
- > Static resistance:
  - Absorber (completely unfold) resist to 15 kN.

### EN 358 - WORK POSITIONING BELTS AND LANYARD



The work positioning lanyard links the belt to the anchoring point (restraint), or to a surrounding structure to allow to free the hands (work positioning).

The work positioning lanyard connects a belt at an anchor point (restraint), or a structure surrounding it, so to be able to let go of the hands (maintenance at work). In this case, use with a fall arrest system.

## EN 360 - RETRACTABLE TYPE FALL ARRESTER



The retractable type fall arrester is equipped with a retractable lanyard, it ensures the automatic locking function in case of fall. It integrates a dissipator or an energy absorber.

- > Static resistance:
  - With a retractable textile lanyard: 15 kN
  - With a retractable metal lanyard: 12 kN
- > Dynamic performance:
  - Braking force does not go over 6 kN.

## EN 361 - FULL BODY HARNESS



The fall arrest harness is a body gripping device (adjustable to the user's morphology) designed to stop falls.

It's an element of the fall arrest device (anchorage device + fall arrest link + full body harness)

- > Static resistance: 15kN
- > Dynamic performance:
  - Harness fitted to a 100 kg mass, connected to a rope.
  - Must resist to two falls of 4 m: Head-up position, and head-down position the harness must hold the dummy. After each fall, the dummy must be hold in a position not exceeding 50° from the upright position.

## EN 362 - CONNECTORS



Connectors are openable device used to connect components. The locking of the connector is divided into a minimum of two actions (automatic-locking gate or manual-locking gate),

Different shapes exist to fit to the types of works and environment. They can be made of galvanized steel, stainless steel, alloy steel...

- > Static resistance for a basic connector (class B):
  - Major axis gate closed and unlocked: 15 kN.
  - Major axis gate closed and locked: 20 kN.
  - Minor axis Gate closed: 7 kN.

## EN 795 - ANCHORAGE DEVICES



The anchor device includes fix or mobile anchor points. They are intended for the connection of components in a personal fall protection system.

Type	Anchor Device
A	anchor device with one or more stationary anchor points, while in use, and with the need for a structural anchor(s) or fixing element(s) to fix to the structure
B	anchor device with one or more stationary anchor points without the need for a structural anchor(s) or fixing element(s) to fix it to the structure
C	anchor device employing a flexible anchor line which deviates from the horizontal by not more than 15°
D	anchor device employing a rigid anchor line which deviates from the horizontal by not more than 15°
E	anchor device for use on surfaces up to 5° from the horizontal where the performance relies solely on mass and friction between itself and the surface

Example for an anchor device type B:

- > Static resistance: during 3 mm if the anchor device is in metal: 12 kN, if the anchor device is in textil: 18 kN.
- > Dynamic resistance: fall of a mass of 300 Kg in factor 1, no braking.

## EN 813 - SIT HARNESSSES



The sit harness is a textil element encircling the waist, connected to each leg and provided with a ventral attachment point allowing the suspension of a person.

- > Static resistance: 15 kN