SUSPENSION
SOLUTION DATASHEET

THE LOOP-IT SYSTEM

THE LOOP-IT SYSTEM is a wire rope suspension solution that can suspend applications from a variety of different anchor points by using a 'choke knot' as the method of fixing, also referred to as a wrap-around system.

The Loop-It system is highly flexible in use and can be used to create a non-destructive fixing around an available anchor point, such as a steel purlin, or it can be coupled with other items such as eyebolts or brackets to suspend from different base materials.

AVAILABILITY

Zip-Clip offer five different Loop-It systems each allocated a letter to differentiate between available safe working loads (SWL). Each system comprises of a specific diameter of wire rope and comes with the required Zip-Clip locking device.

- **PLEK G** system – 15 kg SWL
- **PLEK S** system – 50 kg SWL
- **PLEK Y** system – 90 kg SWL
- **PLEK P** system – 300 kg SWL
- **PLEK N** system – 500 kg SWL

Note: G-system should not be used for HVAC.

Loop-It is available for drop lengths of 1 m to 10 m. Loads indicated are per individual wire rope support when coupled with an appropriate Zip-Clip locking device.

Important Note: Installers must make sure that the selected anchor points are suitable to take the intended wire rope suspension load, as well as confirming that the anchor point is strong enough to accept a choke knot.

Suitable anchor points:

- Cold rolled steel, e.g. purlins.
- Hot rolled steel, e.g. I-beams, circular hollow steel, hollow box steel.
- Concrete pillars or beams.
- Profile channel bracketry.
- Glulam beams.

Protection can be added to the fixing point to protect the base material from the wire rope and protect the wire rope from the base material, e.g. where the wire rope passes over/around edges.

FEATURES

- 18th Edition Amendment 2 : 2022 compliant.
- Key-free release suspension for height adjustment.
- High tensile galvanised steel wire rope.
- Systems can be inverted upside down.
- Removable.
- Requires no tools.

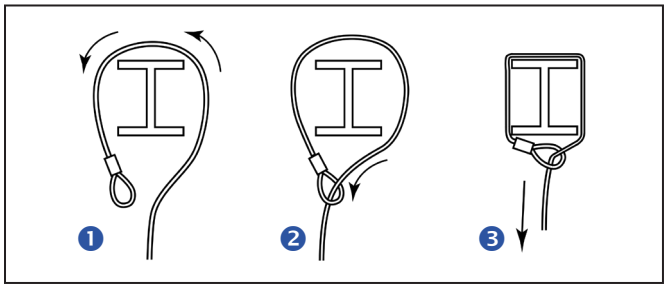
INSTALLATION

- The first step for installation process is to attach the wire rope support around the anchor point.
- The second step in the installation process is to fit the Zip-Clip locking device.

STEP 1:

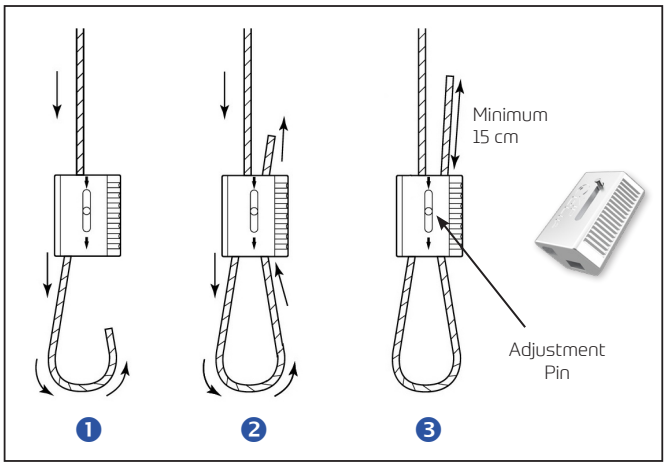
Use the loop termination to form a choke knot around an appropriate fixing point.

1. Pass the end of the wire rope over the chosen anchor point.
2. Take the loop end termination and pass the end of the wire rope through the loop.
3. Pull the choke knot tight and position so the wire rope passes vertically down through the loop.



STEP 2:

1. Pass the wire rope through the Zip-Clip device in the direction of the arrow.
2. Pass the wire rope through or around your required fixture/application and back through the Zip-Clip leaving 15 cm of wire rope protruding.
3. Confirm engagement of the Zip-Clip on the wire rope by pushing the pin in the **opposite** direction to the arrows indicated.



ADJUSTMENT

Please note: Before any adjustments can be made it is necessary to take all weight off the Zip-Clip device. It will not be possible to make adjustment if this is not done.

To shorten the suspension:

1. Push the Zip-Clip device further up the live (load) wire rope – This will make the loop bigger.
2. Pull on the dead wire rope (exit tail) to make the loop smaller – This will shorten the suspension.
3. Trim the dead wire rope tail to minimum 15 cm or coil the wire rope neatly to allow for future adjustment.

To lengthen the suspension:

1. Select the channel that holds the dead wire rope.
2. Make sure there is enough spare dead wire rope to allow for adjustment whilst maintaining an exit tail.
3. Push the adjustment pin in the direction of the arrow. This will release the dead wire rope (exit tail).
4. Allow the dead wire rope to feed back through the Zip-Clip. This will make the loop bigger.
5. Now select the channel that holds the live wire (load).
6. Push the adjustment pin in the direction of the arrow. This will release the live wire rope.
7. Allow the Zip-Clip to travel down the live wire rope. This will make the loop smaller.

MATERIALS

Loop Termination:

Pressed aluminium ferrule (swage) manufactured from seamless tube, finished in-house utilising a cylindrical press die with cutting edge. Compliant with BS EN 13411-3 and suitable for wire ropes manufactured to BS EN 12385.

Zip-Clip Devices:

Zamak zinc alloy main body with internal stainless steel spring and sintered steel locking wedge(s).

Wire Rope:

Galvanised mild steel electro-galvanised wire rope, 1960 N/mm^2 grade, 7×7 IWRC construction, manufactured to BS EN 12385.

AREAS FOR USE

The standard Loop-It range is predominantly for indoor applications. Regular galvanised systems should not be used in areas that have levels of corrosion or elevated levels of heat or moisture.

For applications that are outside or near areas such as the sea, it is recommended to use stainless steel – Zip-Clip can provide Loop-It in a stainless steel version.

For installations that are within corrosive areas and require a stainless steel Loop-It, consult with Zip-Clip Technical Department.

MANUFACTURERS RECOMMENDATIONS

The Zip-Clip Loop-It system is designed to support **STATIC loads only**. Dynamic and shock loads must be avoided and can greatly increase the overall weight of the product being suspended and therefore compromise the safe working load of the suspension. To ensure integrity and safety of the system only Zip-Clip wire rope should be used.

- Do not exceed the safe working load (SWL) of the product.
- Do not use locking devices with a coated wire rope.
- Do not paint or apply any other coating.
- Do not lubricate.
- Do not use for lifting applications.
- Remove any frayed cable prior to inserting into the locking devices.
- Do not shock load.
- Do not use for dynamic loads/installations.
- Do not overload.
- Do not mix Zip-Clip systems with other wire rope suspension manufacturers products.
- Do not use in corrosive environments, e.g. chlorinated environments – For specialist applications, such as corrosive environments, please contact Zip-Clip Technical Department.

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