

KNOCK-IT SYSTEM

THE KNOCK-IT SYSTEM is a wire suspension solution that can suspend applications from purlin steel work (cold rolled steel) with a vertical flange.

The system consists of a knock-on purlin fixing designed for a specific range of purlin thickness and a pre-determined length of wire rope and is supplied complete with an appropriate Zip-Clip locking device.

AVAILABILITY

Zip-Clip offer four different Knock-It suspension options, each allocated a letter and number to differentiate between the available safe working loads (SWL) and available purlin clip sizes.

- **VLG** system – 15 kg SWL Purlin thickness: 1-5 mm
- **VLS** system – 35 kg SWL Purlin thickness: 1-5 mm
- **VLG/2** system – 15 kg SWL Purlin thickness: 5-7 mm
- **VLS/2** system – 35 kg SWL Purlin thickness: 5-7 mm

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

Knock-It is available in drop lengths of 1 m to 10 m. Loads indicated are per individual wire support when coupled with the appropriate Zip-Clip locking device.

IMPORTANT

- Confirm suitability of the anchor point and that it is satisfactory for the intended load.
- Ensure the loadings are acceptable as per the purlin manufacturers guidelines.

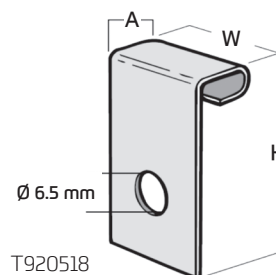
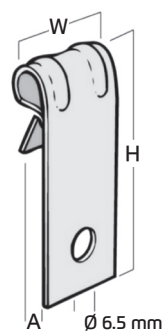
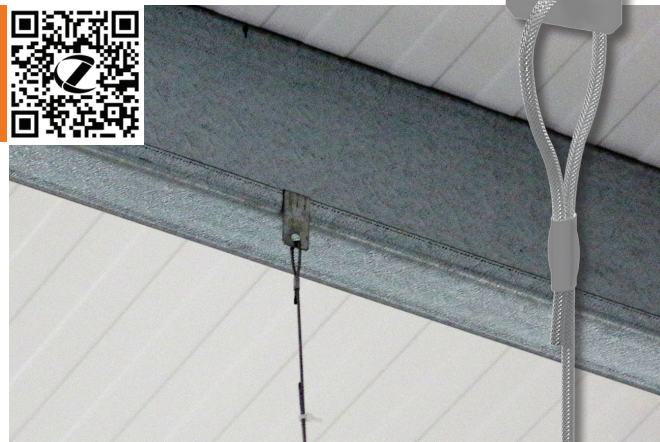
SUITABLE BASE MATERIALS (ANCHOR POINTS)

- Cold rolled purlin steel.
- Suitable for vertical flange only with thickness of between 1-7 mm.

MATERIALS

Purlin Clips:

Manufactured from spring steel (CS270) with Delta-Tone 9000 (480 hours) surface finish.



Knock-It Flange Clip Product Code	A (mm)	H (mm)	W (mm)
T920514	1-5	39	19
T920515	5-7	40	19
T920518*	15	45	19

*90° flange clip only available on request.

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/mm² grade, 7×7 IWRC construction, manufactured to BS EN 12385.

APPLICATIONS

The standard Knock-It range is only intended for in-door applications.

Regular galvanised systems should not be used in areas that have increased levels of corrosion or elevated levels of heat or moisture.

INSTALLATION

Test Fixes must always be carried out prior to installation to ensure compatibility between purlin and fixing.

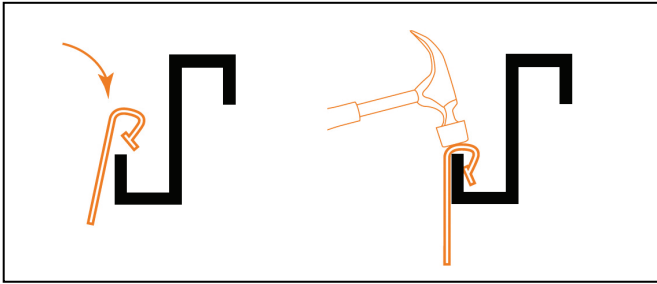
Stages of installation:

- Attach purlin fixing to vertical purlin flange.
Tools required – Hammer.
- Connect wire support to application using the Zip-Clip locking device.

Important Note: Do not fit purlin clip to purlins which have a camber.

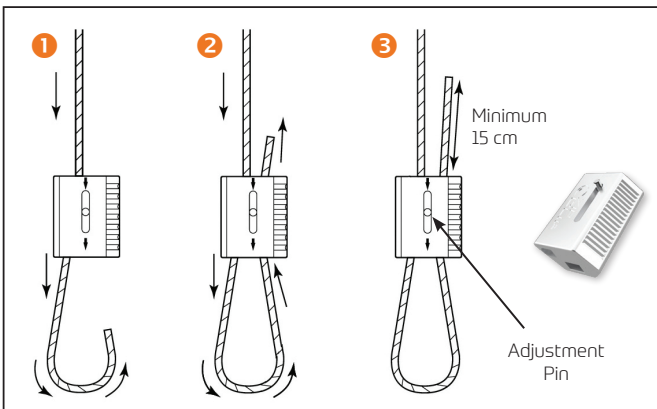
STEP 1:

- 1 Hook purlin clip over the lip of the purlin.
- 2 Strike purlin clip with hammer and ensure fixing is fully seated onto the flange.
- 3 Fixing must be installed perpendicular to the run of the purlin.



STEP 2:

- 1 Pass the wire rope through the Zip-Clip locking device in the direction of the arrow.
- 2 Pass wire rope through or around your required fixture/application and back through the locking device leaving a 15 cm wire tail protruding.
- 3 Confirm engagement of the Zip-Clip locking device on the wire 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 locking 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 – This will make the loop bigger.
2. Pull on the dead wire (exit tail) to make the loop smaller – This will shorten the suspension.
3. Trim the dead wire tail to minimum 15 cm or coil the wire neatly to allow for future adjustment.

To lengthen the suspension:

1. Select the channel that holds the dead wire.
2. Make sure there is enough spare dead wire 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 (exit tail).
4. Allow the dead wire 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.
7. Allow the Zip-Clip to travel down the live wire. This will make the loop smaller.

MANUFACTURERS RECOMMENDATIONS

The Zip-Clip Knock-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 should be used.

- Do not exceed the Safe Working Load (SWL) of the product.
- Do not use locking devices with a coated wire.
- 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 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.
- 18th Edition Amendment 2 : 2022 compliant.



For further information on Zip-Clip suspension solutions, for technical or sales enquiries, contact us on Tel: +44 (0)1686 623366 • Email info@zip-clip.com