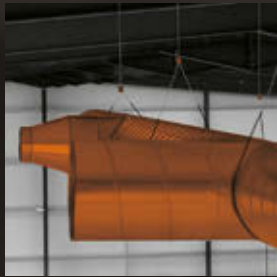


# HVAC AND MECHANICAL



## PRODUCT SOLUTIONS CATALOGUE

ISSUE 1



STRENGTH | SUSPENSION | STYLE

A FUSION OF **ENGINEERING** AND DESIGN



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## ABOUT ZIP-CLIP

# WHO IS ZIP-CLIP?

We are manufacturers and designers of high-spec wire suspension systems for all your HVAC, Electrical, Mechanical and Signage requirements.

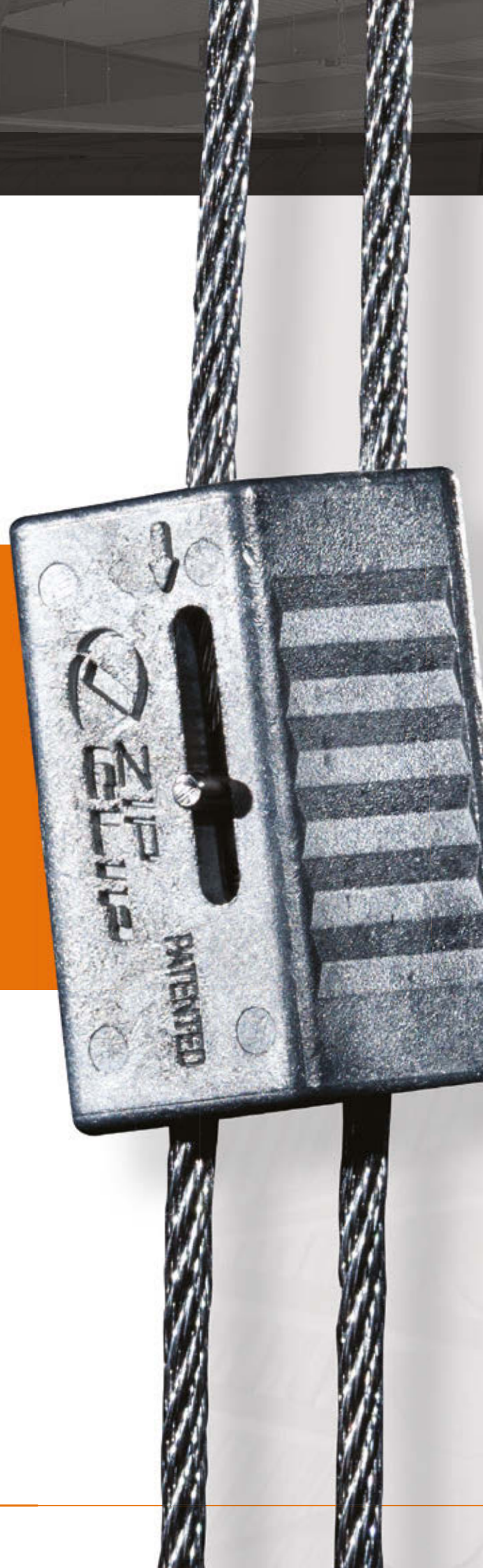
# WHAT IS IT?

A zip-clip is a device that allows you to join a wire rope to a desired fixing or anchor point. The zip-clip is manufactured from a high quality zinc alloy. The oil impregnated sintered metal wedge is designed to offer the best locking solution. The stainless steel spring ensures the wedge engages first time. The galvanised high tensile wire rope supplied offers you a better SWL than those found on the market. All our engineered suspension products are designed with quality and safety in mind.

# TESTED?

All our products are independently tested by TUV, MELBTEST, SATRA, Lloyds British, NATA and Apave and all clips are UL certificated.

For copies of our test certificates please contact our offices or download them from our website - [www.zip-clip.com](http://www.zip-clip.com)



## TECHNICAL INFORMATION

### What are the advantages of using a Zip-Clip wire system?

Using a wire rope suspension system provides many advantages:

- Key free release system – No tools required for height adjustment
- Device can be placed directly above the ductwork with no decrease in performance
- Easier to transport
- 100 metre coil is equivalent to 30 x 3 metre lengths of threaded rod
- Easier to handle
- Cold cut, no hot work permit required
- Vibration reduction
- Reduced labour cost
- Reduced risk of injury
- Aesthetics – Low visual impact
- Reduces individual components (i.e. nuts, washers, square plates, rod...)
- Reduces impact on the environment – Less embodied carbon

### Where can I use a wire system?

#### HVAC AND MECHANICAL

- Spiral Ducting
- Rectangular Ducting
- Flat Oval Ducting
- Radiant Heat Panels
- Fan Coil Units
- Chilled Beams
- Gas Pipes / Water Pipes
- Bracing
- Pre-Insulated Ductwork
- Spiralite
- Koolduct
- Containment
- Plenum Boxes

### Manufacturers Recommendations?

zip-clip's unique system is designed to support static loads only. Dynamic and shock loadings can greatly increase the overall weight of the product being suspended and therefore can compromise the Safe Working Load of the suspension.

- To ensure integrity and safety of the systems only Zip-Clip cable should be used
- Do not exceed the Safe Working Load of the product
- Do not use coated cable
- Do not paint or apply any other coating
- Do not apply lubricant
- Do not use for lifting
- Remove any frayed cable end prior to inserting into the clip
- Do not shock load
- Do not overload
- Do not use in a corrosive environment \*
- Do not use in a chlorinated environment \*
- Do not use for dynamic loads/installations

All stated Safe Working Loads and certifications are based on the product being used in conjunction with our high tensile zip-clip wire.

Zip-Clip are not able to guarantee the Safe Working Load of a product used with a non Zip-Clip wire and cannot support projects where non Zip-Clip wire has been used.

\*For specialist applications such as corrosive environments, please contact our technical department on 0044 1686 623366.

See page 54 for Zip-Rods.

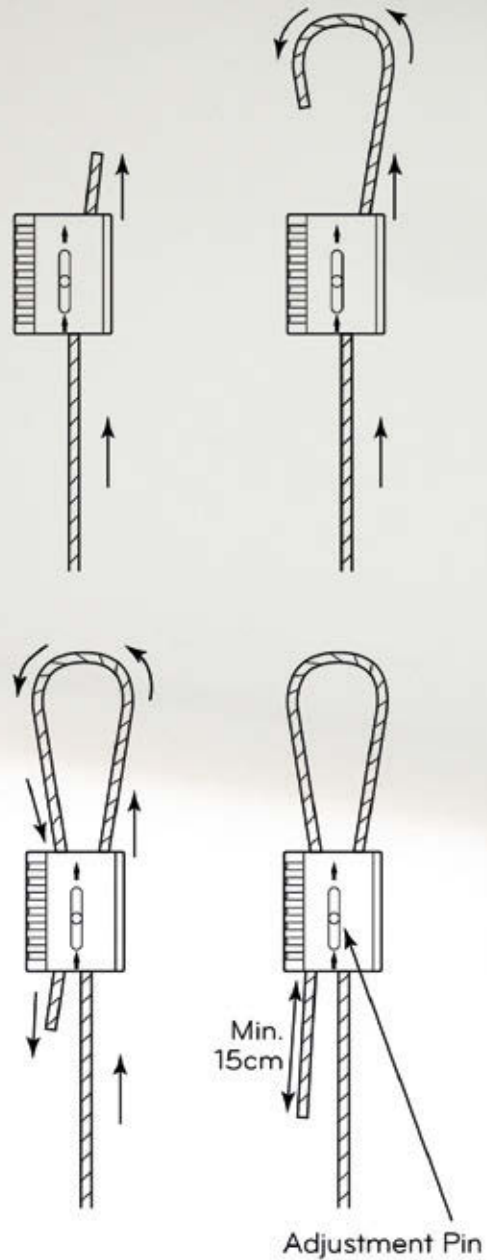
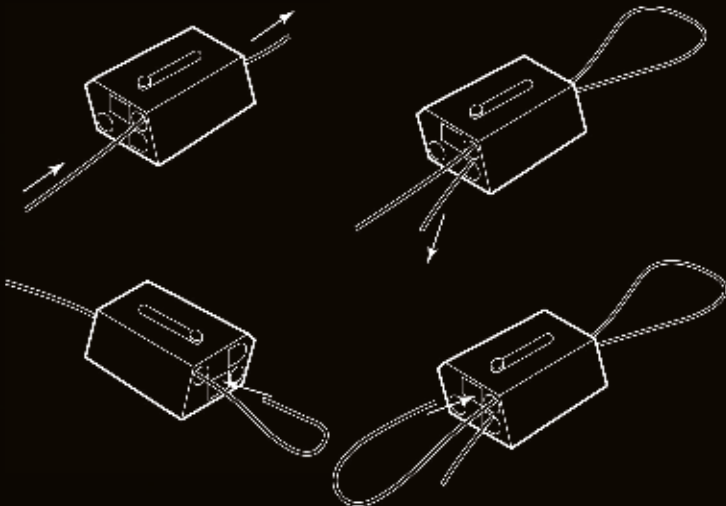


## HOW IT WORKS

- Pass the wire through the zip-clip
- Loop the wire through or around the anchor point
- Pass the wire back through the zip-clip allowing 15cm of wire protruding
- Apply tension
- Always confirm engagement of the zip-clip on the wire by pushing the pin in the opposite direction of the arrows indicated on the zip-clip
- To adjust, take the load off the wire support and pull the tail slightly to disengage the wedge, then release using the adjustment pin – no tools required

### The KL200 can be used to make a figure of eight suspension, using one clip:

- Pass the wire into the “through hole” in the KL200 and then around your fixing or anchor point. Pass the wire end through the locking channel in the KL200 and pull through 15cm of free wire
- Pass the other end of the wire through your bracket or around your anchor point and back through the locking channel allowing 15cm of free wire through the clip
- Always confirm engagement of the zip-clip on the wire by pushing the pin in the opposite direction of the arrows indicated on the zip-clip
- Prior to load being applied, the wire can be adjusted in either direction.
- With the load off the wire, push the release pin in the direction of the arrow on the zip-clip. This will release the locking wedge and allow the wire rope to be moved freely in either direction. After a load has been applied, it may be necessary to pull the cable slightly to disengage the teeth on the wedge. Be sure the load is fully supported before attempting adjustment.



### In all cases Zip-Clip recommends that installations of supports follow guidelines laid down in DW/144. (Second Edition 2013). Specification for Sheet Metal Ductwork.

With special reference to sections titled "Arrangement of bearers and hangers" Zip-Clip recommends following industry standards with regards to the regularity of supports, as well as the exact arrangement of the support in relation to the application. In all cases it is the responsibility of the installer to ensure that industry standards are met and followed.

Zip-Clip wire supports are used as an alternative means of suspension to traditional threaded rod systems.

Due to the nature of HVAC installations, Zip-Clip do not recommend the use of the G SYSTEM 10kg SWL wire suspension.

Although there are many applications within HVAC that do not call for a suspension greater than 10kg, installation factors must be taken into account.

Zip-Clip suspensions should only be used for static installations. Some HVAC applications will by nature be subjected to dynamic loads. To give peace of mind Zip-Clip recommend the S SYSTEM and above range of wire suspensions.

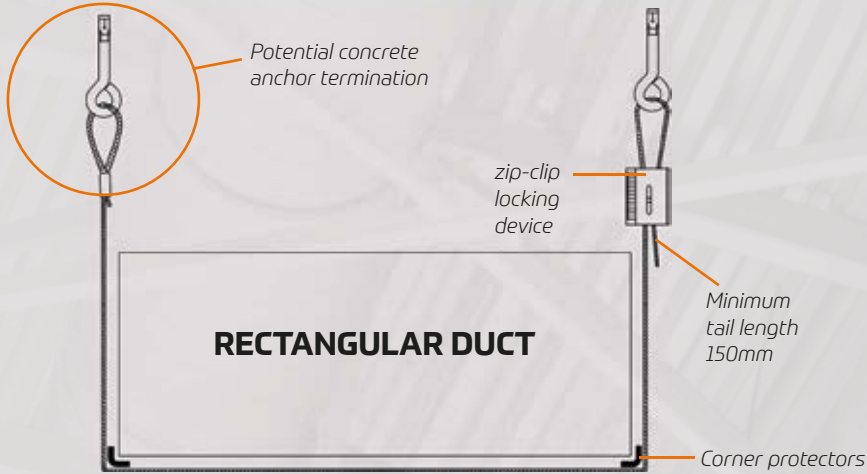
For further information please contact Zip-Clip Technical department on **+44 1686 623366**

## RECTANGULAR DUCTWORK SOLUTIONS

### METHOD OF SUSPENSION:

• Cradle

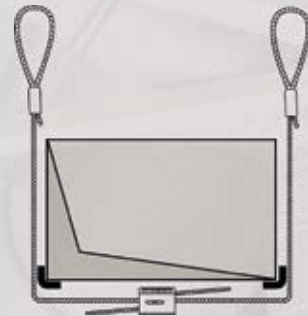
1. Anchor wire to ceiling.
2. Drop down wire and run underneath ductwork.
3. Run wire up to the ceiling and install a zip-clip device onto wire.
4. Install an additional fixing and connect to this with the zip-clip locking device.
5. Position corner saddles where wire passes over corners of ductwork.
6. Ensure exit tail from the locking device is 150mm minimum.



### In-Line Joint

Due to the unique way in which a zip-clip is manufactured, an "In-Line Joint" can also be utilised to create a suspension.

This method involves joining together 2 free ends of wire using a zip-clip.

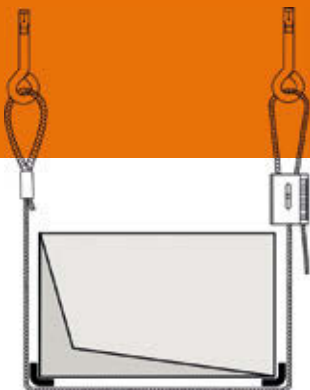


To support rectangular ductwork using the cradle method, there are a range of termination options to suit various substrates and steelwork:

#### Con-Lock System

Designed to fix a wire suspension to cracked & non-cracked concrete ceilings.

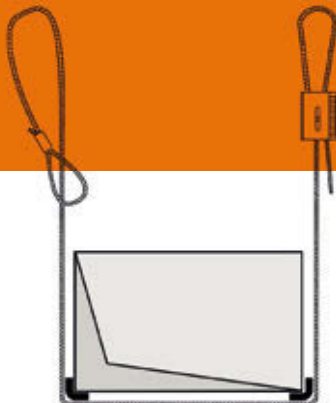
See Page 18



#### Loop-It System

Designed to produce a choke knot around your chosen anchor position.

See Page 16

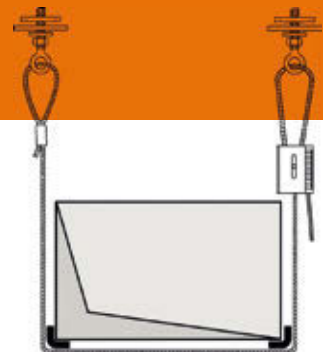


#### Thread-It System

Suitable for:

- Drop-in anchors
- Coupling with deck wedges
- Coupling with channel nuts

See Page 22





# RECTANGULAR DUCTWORK SOLUTIONS

## METHOD OF SUSPENSION:

- Trapeze

To support rectangular ductwork using the trapeze method, there are a range of locking devices designed to improve installation times, and ensure a secure suspension.

### Plus on Wire System

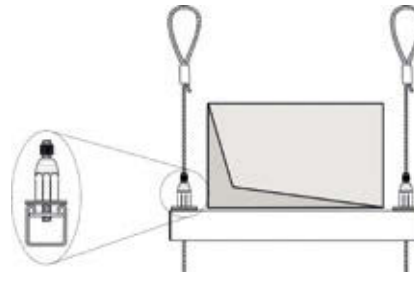
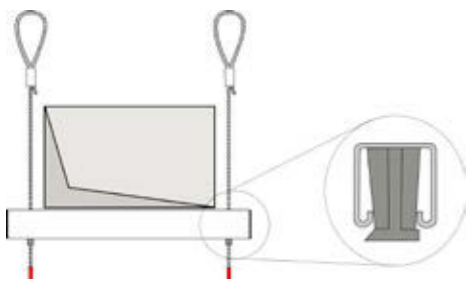
- Heavy duty
- Designed to work in conjunction with slotted channel 41x41 and 41x21

See Page 38

### Strut-Lock System

- Medium to light duty
- Installed with a channel nut and washer
- Compatible with all channel

See Page 36



## METHOD OF SUSPENSION:

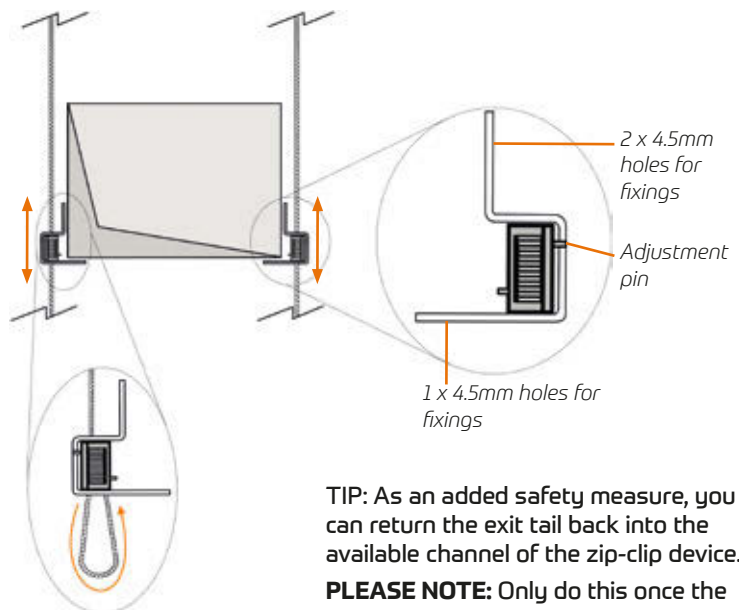
- Duct-Lock

The Duct-Lock system uses a steel bracket, utilised to connect a wire rope device to rectangular duct. This allows for the suspension of ductwork without the need of a bearer underneath.

- Wire locking device pre-assembled into bracket
- Adjustment pin to alter height of ductwork
- 4.5mm holes to accommodate tek or sheet metal screws

Please ensure that a suitable fixing has been selected, that will:

- Correctly fix the bracket to the duct
- Appropriately fix into the gauge of the ductwork



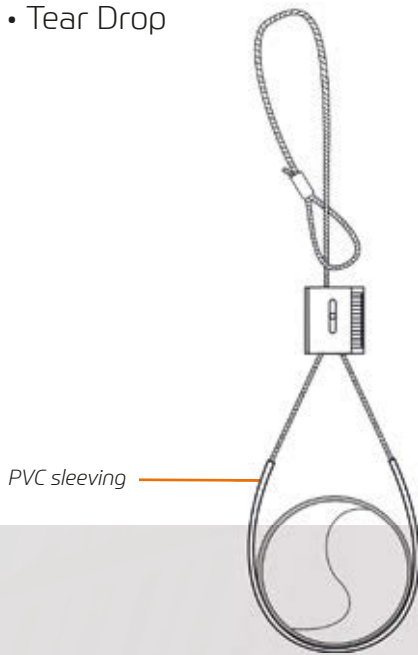
TIP: As an added safety measure, you can return the exit tail back into the available channel of the zip-clip device.

**PLEASE NOTE:** Only do this once the installation is complete, as it will prevent further adjustment.

## SPIRAL DUCTWORK SOLUTIONS

### METHOD OF SUSPENSION:

- Tear Drop



**To support spiral ductwork up to 315mm diameter:**

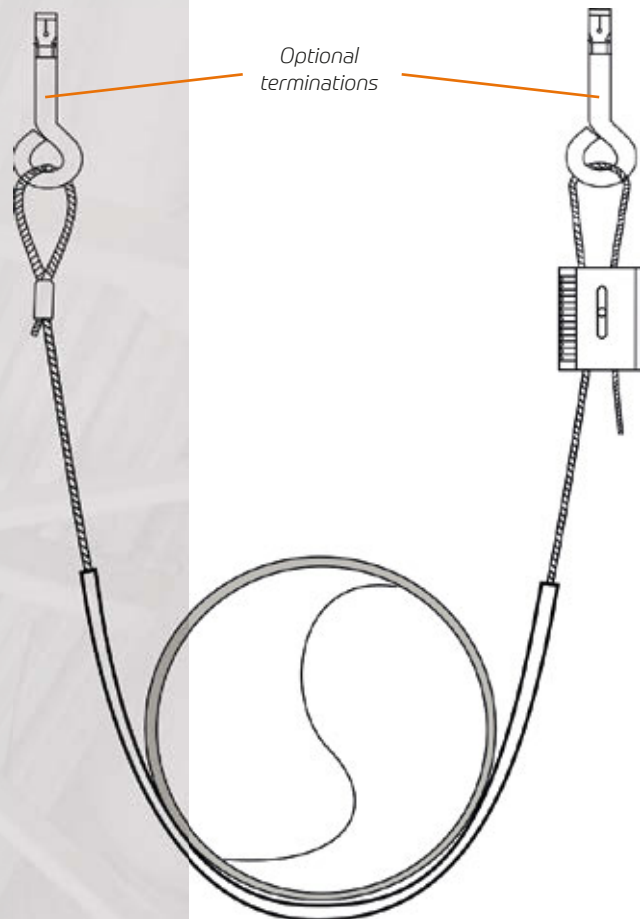
- Optional termination methods, as with rectangular duct options.
- Use our systems to select a suspension supporting loads from 45kg – 500kg.
- PVC Sleeving, used to create a condensation barrier, protecting both the ductwork and the wire.
- Follow DW144 with regard to fixing centres & maximum duct size for support arrangement.

### METHOD OF SUSPENSION:

- Cradle

To support larger spiral ductwork, up to 2000mm diameter:

- Optional termination methods, as with rectangular duct options
- Use an additional fixing to assemble the cradle and connect the wire suspension
- Use our systems to select a suspension supporting loads from 45kg – 500kg
- PVC Sleeving, used to create a condensation barrier, protecting both the ductwork and the wire
- Follow DW144 with regard to fixing centres & maximum duct size for support arrangement



## ATTACHING TO BRACKETRY



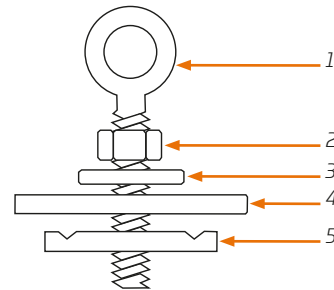
It is recommended that profile channel be used to support the weight of services. Other supporting bracketry is available such as angled steel. Installers must make sure that the supporting steel is fit for purpose.

### METHOD OF CONNECTION:

- Eyebolt

This method gives a secure & smooth point of attachment for the wire suspension.

1. Eyebolt
2. Hex Nut
3. Washer
4. Square Plate Washer
5. Channel Nut

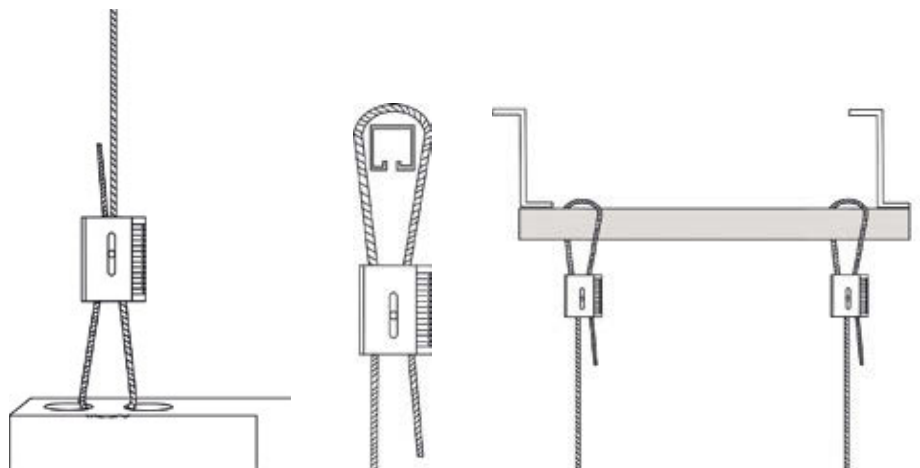


### METHOD OF CONNECTION:

- Looping the bracketry

This method involves using the zip-clip to directly loop through an existing hole in the profile channel or bracket.

Installers must make sure the holes drilled into in the bracketry have been de-burred, and do not cause any abrasion to the wire support. The size of the hole must not affect the strength of the bracket or be too close to any edges.

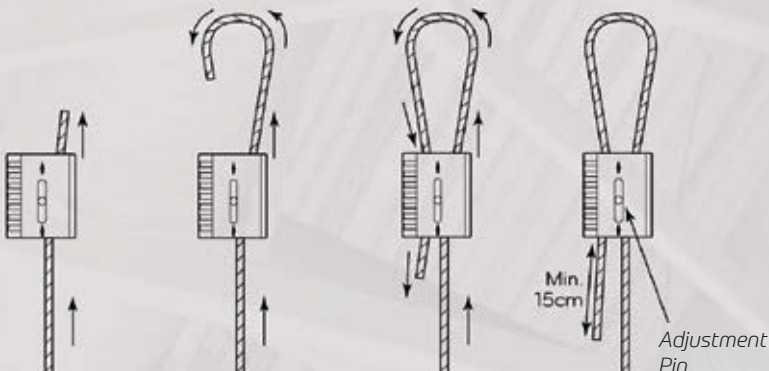


## RIZE



### SUITABLE FOR:

- Tear drop suspensions
- Cradle suspensions
- Trapeze brackets
- Long suspensions
- Roof spaces with varied drop lengths
- Ideal for tight void spaces



### The Specifics:

The range consists of wire reels and zip-clips with a choice of Safe Working Loads:

- S 50kg SWL
- Y 120kg SWL
- P 300kg SWL
- N 500kg SWL

### The Applications

- Wrap around applications
- Galvanised ductwork: spiral, rectangular, flat oval
- Pre-insulated ductwork: KOOLDUCT or SPIRALITE
- Plenum boxes
- Suitable for use with a wide range of fixing brackets including: UNI1, UNI2, UNI3, CLA1, MA6810, T920514
- Trapeze brackets

### The Features and Benefits

- Key free release system
- No pre-site visits required
- Any spare material can be used on following projects
- Only wire cutter required
- Can be used as a wrap around application and with a wide range of brackets.
- Wire supplied in dispensing box – avoiding risk of wire bird nesting



## The Installation

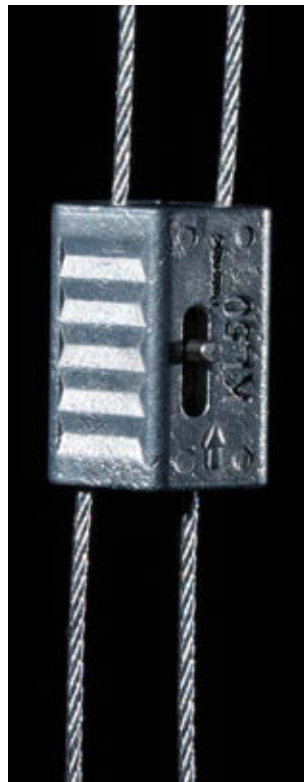
- Cut wire to desired length for the drop required
- Pass one end of the wire through the zip-clip in the direction of the arrow and draw through enough wire to go around your fixing point
- Pass the wire end back through the zip-clip leaving at least 15cm of free wire protruding
- At the other end again pass the wire through the zip-clip in the direction of the arrow
- Pass the free end of wire around your suspension or through your fixing and back through the zip-clip leaving 15cm of wire protruding
- Always confirm engagement of the zip-clip on the wire by pushing the pin in the opposite direction to the arrows indicated

CODE	DESCRIPTION	SWL	QTY
KL100	Rize KL100	50kg	10
R100S	100 Mtr S wire reel in dispenser box	50kg	1
R200S	200 Mtr S wire reel in dispenser box	50kg	1
R500S	500 Mtr S Wire Reel	50kg	1
R100S/SS	100 Mtr Stainless Steel AISI 316 S Wire Reel	45kg	1
KL150	Rize KL150	120kg	10
R100Y	100 Mtr Y Wire Reel	120kg	1
R100Y/SS	100 Mtr Stainless Steel AISI 316 Y Wire Reel	100kg	1
KL200	Rize KL200	300kg	10
R100P	100 Mtr P Wire Reel	300kg	1
R100P/SS	100 Mtr Stainless Steel AISI 316 P Wire Reel	200kg	1
KL600	Rize KL600	500kg	10
R100N	100 Mtr N wire reel	500kg	1
KL100LOK	Rize KL100 50kg SWL Lockable	50kg	10
KL150LOK	Rize KL150 120kg SWL Lockable	120kg	10
KL200LOK	Rize KL200 230kg SWL Lockable	300kg	10
KL600LOK	Rize KL600 500kg SWL Lockable	500kg	10

Zip-clips are also available in a lockable version offering a tamper proof installation.

## The Installation:

- Unscrew the M4 locking nut and bolt until the adjustment pin can be pushed back fully
- Pass one end of the wire through the zip-clip in the direction of the arrow and draw enough wire to go around your fixing point
- Pass the wire back through the zip-clip leaving at least 15cm of wire protruding
- Tighten the M4 locking nut and bolt until the adjustment can no longer be moved

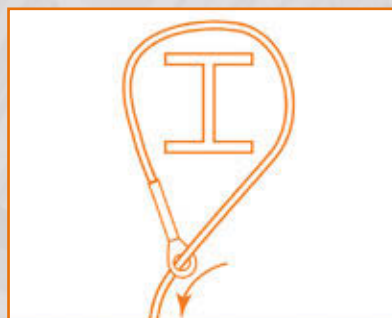
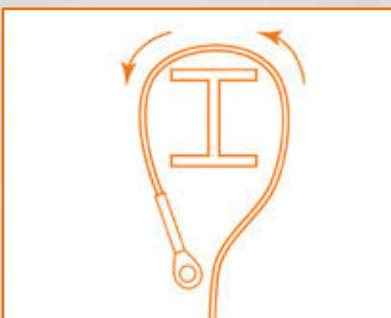


## ZIP-LOCK



### SUITABLE FOR:

- Tear drop suspensions
- Steel framed buildings
- Cradle suspensions



### The Specifics:

The range consists of a pre-determined length of wire from 1 metre to 10 metres with a choice of Safe Working Load:

- S 50kg
- Y 120kg

The system consists of wire and zip-clip device with a friction free eye termination.

### The Applications

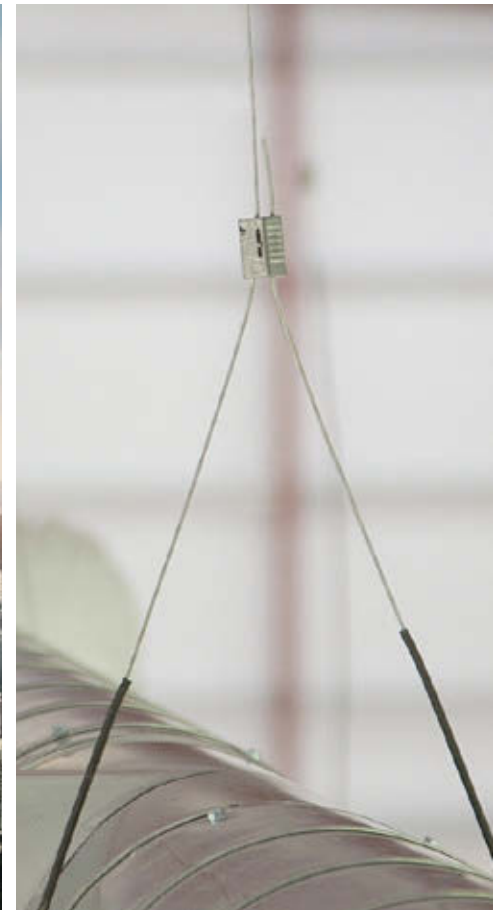
Suitable for wrap around installations including:

- Beams
- Purlins
- Roof Trusses
- All other existing features

### The Features and Benefits

- Key free release system
- Precision Swaged Eye
- Frictionless system – No wire on wire abrasion
- Simple to use
- DW144 approved
- Trivalent zinc and clear galvanised eyelets
- Suspension can be inverted
- High tensile galvanised wire 1960N/mm<sup>2</sup> grade 7 x 7 construction
- BSEN 12385 Standard

THE SYSTEM  
CONSISTS OF  
WIRE AND ZIP-CLIP  
WITH A FRICTION  
FREE EYE  
TERMINATION



## The Installation

- Pass the wire around your purlin or beam
- Pass the free end of the wire through the eye to create a friction free fixing
- Pass the wire through the zip-clip in the direction of the arrow
- Pass through or around your required suspension and back through the zip-clip leaving 15cm of wire protruding
- Always confirm engagement of the zip-clip on the wire by pushing the pin in the opposite direction to the arrows indicated

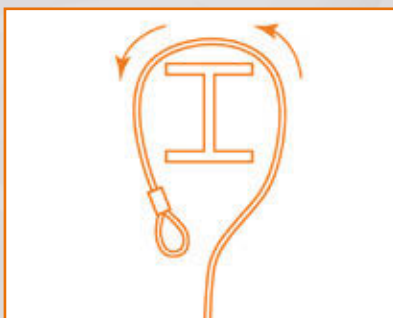
CODE	DESCRIPTION	SWL	QTY
ZLS1	1 Mtr eye suspension system	50kg	10
ZLS2	2 Mtr eye suspension system	50kg	10
ZLS3	3 Mtr eye suspension system	50kg	10
ZLS4	4 Mtr eye suspension system	50kg	10
ZLS5	5 Mtr eye suspension system	50kg	10
ZLS10	10 Mtr eye suspension system	50kg	10
ZLY1	1 Mtr eye suspension system	120kg	10
ZLY2	2 Mtr eye suspension system	120kg	10
ZLY3	3 Mtr eye suspension system	120kg	10
ZLY4	4 Mtr eye suspension system	120kg	10
ZLY5	5 Mtr eye suspension system	120kg	5
ZLY10	10 Mtr eye suspension system	120kg	5

## LOOP-IT



### SUITABLE FOR:

- Tear drop suspensions
- Steel framed buildings
- Cradle suspensions



### The Specifics:

The range consists of a pre-determined length of wire from 1 metre to 10 metres with a choice of Safe Working Load:

- S 45kg SWL
- Y 90kg SWL
- P 300kg SWL
- N 500kg SWL

The system consists of wire with a ferruled loop termination and a zip-clip device.

### The Applications

Suitable for wrap around applications including:

- Beams
- Purlins
- Roof trusses
- All other existing features

### The Features and Benefits

- Key free release system
- Simple to use
- Suspension can be inverted
- High tensile galvanised wire 1960N/mm<sup>2</sup> grade 7 x 7 construction
- BSEN 12385 standard



## The Installation

- Pass the wire around the purlin or beam
- Pass the free end of the wire through the loop
- Pass the wire through the zip-clip in the direction of the arrow
- Pass through or around the required suspension and back through the zip-clip leaving 15 cm of wire protruding
- Always confirm engagement of the zip-clip on the wire by pushing the pin in the opposite direction to the arrows indicated

CODE	DESCRIPTION	SWL	PACK QTY
PLEK1S	1 Mtr standard loop suspension system	45kg	10
PLEK2S	2 Mtr standard loop suspension system	45kg	10
PLEK3S	3 Mtr standard loop suspension system	45kg	10
PLEK4S	4 Mtr standard loop suspension system	45kg	10
PLEK5S	5 Mtr standard loop suspension system	45kg	10
PLEK10S	10 Mtr standard loop suspension system	45kg	10
PLEK1Y	1 Mtr standard loop suspension system	90kg	10
PLEK2Y	2 Mtr standard loop suspension system	90kg	10
PLEK3Y	3 Mtr standard loop suspension system	90kg	10
PLEK4Y	4 Mtr standard loop suspension system	90kg	10
PLEK5Y	5 Mtr standard loop suspension system	90kg	5
PLEK10Y	10 Mtr standard loop suspension system	90kg	5
PLEK1P	1 Mtr standard loop suspension system	300kg	10
PLEK2P	2 Mtr standard loop suspension system	300kg	10
PLEK3P	3 Mtr standard loop suspension system	300kg	10
PLEK4P	4 Mtr standard loop suspension system	300kg	10
PLEK5P	5 Mtr standard loop suspension system	300kg	5
PLEK10P	10 Mtr standard loop suspension system	300kg	5
PLEK1N	1 Mtr standard loop suspension system	500kg	5
PLEK2N	2 Mtr standard loop suspension system	500kg	5
PLEK3N	3 Mtr standard loop suspension system	500kg	5
PLEK4N	4 Mtr standard loop suspension system	500kg	5
PLEK5N	5 Mtr standard loop suspension system	500kg	5
PLEK10N	10 Mtr standard loop suspension system	500kg	5

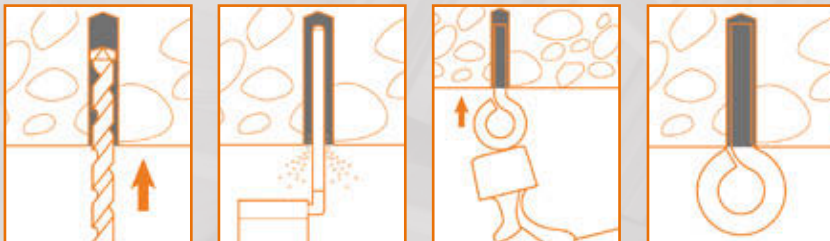
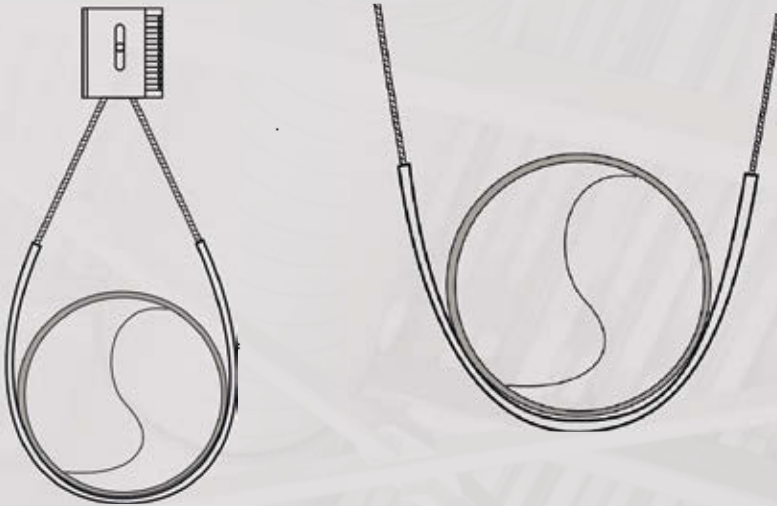


## CON-LOCK



### SUITABLE FOR:

- Tear drop suspensions
- Concrete ceilings
- Cradle suspensions



### BS8539 Compliant

### The Specifics:

The range consists of a pre-determined length of wire from 1 metre to 10 metres with a choice of Safe Working Load:

- S 50kg
- Y 90kg

The system consists of wire and zip-clip device with a CLA1 concrete anchor termination.

### The Applications

Suitable for concrete applications including:

- Cracked and non-cracked concrete
- Reinforced concrete
- Slagged concrete
- Hollow pot

### The Features and Benefits

- Key free release system
- No claw back required
- Nail anchor for hammer set installation
- The installed nail anchor expands automatically under load, pulls the cone into the expansion sleeve and expands against the wall of the concrete
- Can also be supplied with a double drop
- Shallow embedment
- ETA approved
- BS8539 Compliant
- High tensile galvanised wire 1960 N/mm<sup>2</sup> grade 7 x 7 construction
- BSEN 12385 standard

**BS8539 Compliant**

**The Installation**

- Drill a 6mm hole to a minimum depth of 30mm
- Blow the hole clean of dust and debris
- Hammer in the fixing
- Anchor is now fixed, no claw back required
- Pass the wire through the zip-clip in the direction of the arrow
- Pass through or around your required suspension and back through the zip-clip leaving 15cm of wire protruding
- Always confirm engagement of the zip-clip on the wire by pushing the pin in the opposite direction to the arrows indicated

CODE	DESCRIPTION	SWL	QTY
CLS1	1 Mtr concrete suspension system	50kg	10
CLS2	2 Mtr concrete suspension system	50kg	10
CLS3	3 Mtr concrete suspension system	50kg	10
CLS4	4 Mtr concrete suspension system	50kg	10
CLS5	5 Mtr concrete suspension system	50kg	10
CLS10	10 Mtr concrete suspension system	50kg	10
CLY1	1 Mtr concrete suspension system	90kg	10
CLY2	2 Mtr concrete suspension system	90kg	10
CLY3	3 Mtr concrete suspension system	90kg	10
CLY4	4 Mtr concrete suspension system	90kg	10
CLY5	5 Mtr concrete suspension system	90kg	5
CLY10	10 Mtr concrete suspension system	90kg	5

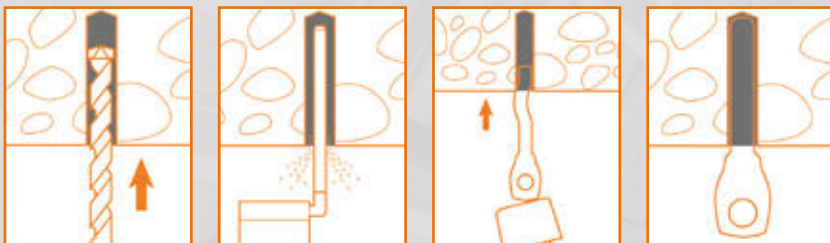
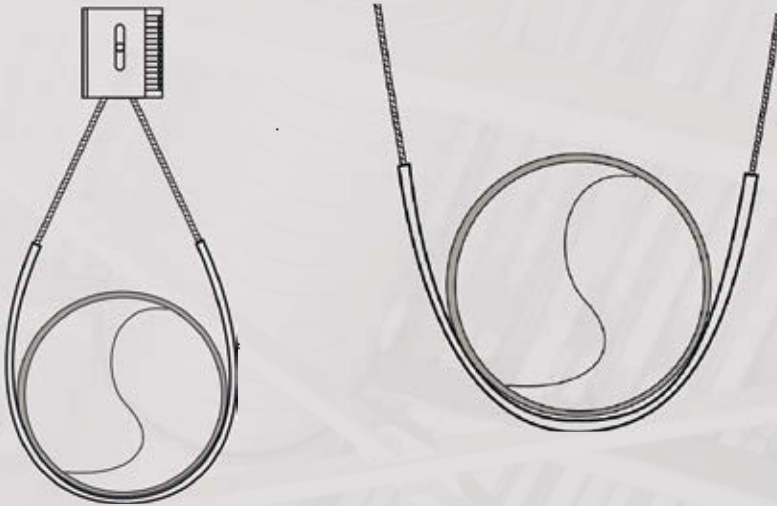


## ANCHOR-IT



### SUITABLE FOR:

- Tear drop suspensions
- Concrete ceilings
- Cradle suspensions



### The Specifics:

The range consists of a pre-determined length of wire from 1 metre to 10 metres with a choice of Safe Working Load:

- 5 35kg SWL

The system consists of wire and zip-clip device with a ferruled CLA2 concrete anchor termination.

### The Applications

Suitable for lightweight concrete applications including:

- Radiant heat panels and chilled beams
- Solid brick
- Compressive resistant stone
- Reinforced concrete
- Slagged concrete C15/C35

### The Features and Benefits

- Key free release system
- Vibration resistant
- Zinc plated pre-expanded through bolt
- 30mm long
- 5mm wide
- 6mm head width
- 30mm embedment depth
- 5mm drill diameter required
- High tensile galvanised wire 1960N/mm<sup>2</sup> grade 7 x 7 construction
- BSEN 12385 standard

## The Installation

- Drill a 5mm hole to a minimum depth of 30mm
- Blow the hole clean of dust and debris
- Drive the anchor into the hole until the head is firmly seated against the base material. Be sure the anchor is driven to the required embedment depth
- Pass the wire through the zip-clip in the direction of the arrow
- Pass through or around your required suspension and back through the zip-clip leaving 15cm of wire protruding
- Always confirm engagement of the zip-clip on the wire by pushing the pin in the opposite direction to the arrows indicated

CODE	DESCRIPTION	SWL	PACK QTY
PLCAK15	1 Mtr standard concrete suspension system	35kg	10
PLCAK25	2 Mtr standard concrete suspension system	35kg	10
PLCAK35	3 Mtr standard concrete suspension system	35kg	10
PLCAK45	4 Mtr standard concrete suspension system	35kg	10
PLCAK55	5 Mtr standard concrete suspension system	35kg	10
PLCAK105	10 Mtr standard concrete suspension system	35kg	10

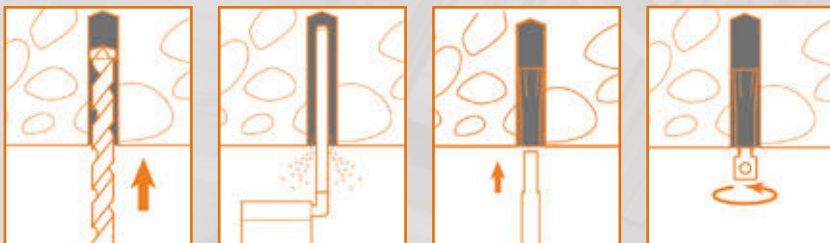
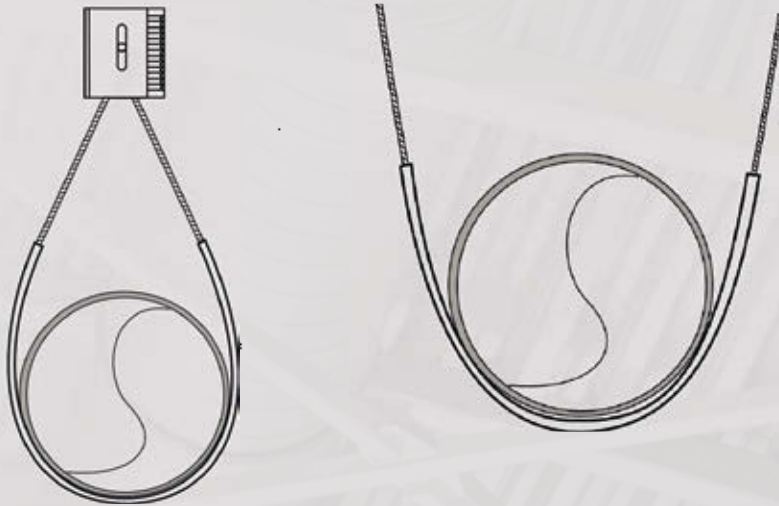


## THREAD-IT



### SUITABLE FOR:

- Tear drop suspensions
- Rib deck ceilings
- Cradle suspensions
- Profile channel
- Concrete ceilings



### The Specifics:

The range consists of a pre-determined length of wire from 1 metre to 10 metres with a choice of Safe Working Load:

- S 45kg SWL – M6 x 45 or M8 x 25 threaded end
- Y 90kg SWL – M8 x 25 threaded end

The system consists of wire and zip-clip device with a choice of M6 or M8 threaded termination.

### The Applications

Suitable for use with:

- Concrete drop in anchors
- Lindapter rib deck wedges when using the UNI M60 range see page 23
- Profile channel nuts

### The Features and Benefits

- Key free release system
- Comes with M6 or M8 eyebolt as standard
- Other eyebolts available on request
- Suspension can be inverted
- High tensile galvanised wire 1960N/mm<sup>2</sup> grade 7 x 7 construction
- BSEN 12385 standard

## The Installation Into Concrete

- For use in concrete, ensure that the drop in anchor is correctly fixed then thread the M6/M8 stud into place
- Pass the wire through the zip-clip in the direction of the arrow
- Pass through or around your required suspension and back through the zip-clip leaving 15cm of wire protruding
- The stud can be used in reverse configuration and threaded into the product to be suspended
- Always confirm engagement of the zip-clip on the wire by pushing the pin in the opposite direction to the arrows indicated

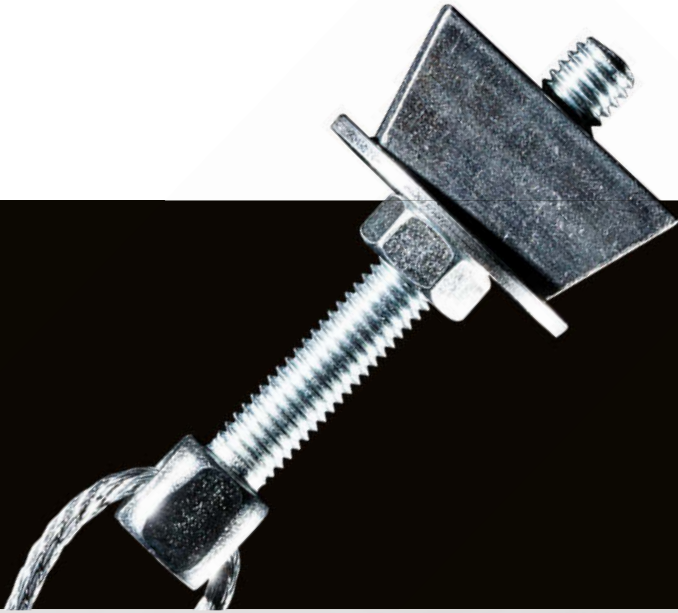
CODE	DESCRIPTION	SWL	PACK QTY
PLTRK15/M6X45	1 M standard M6x45 threaded suspension system	45kg	10
PLTRK25/M6X45	2 M standard M6x45 threaded suspension system	45kg	10
PLTRK35/M6X45	3 M standard M6x45 threaded suspension system	45kg	10
PLTRK45/M6X45	4 M standard M6x45 threaded suspension system	45kg	10
PLTRK55/M6X45	5 M standard M6x45 threaded suspension system	45kg	10
PLTRK105/M6X45	10 M standard M6x45 threaded suspension system	45kg	10
PLTRK15/M8X25	1 M standard M8x25 threaded suspension system	45kg	10
PLTRK25/M8X25	2 M standard M8x25 threaded suspension system	45kg	10
PLTRK35/M8X25	3 M standard M8x25 threaded suspension system	45kg	10
PLTRK45/M8X25	4 M standard M8x25 threaded suspension system	45kg	10
PLTRK55/M8X25	5 M standard M8x25 threaded suspension system	45kg	10
PLTRK105/M8X25	10 M standard M8x25 threaded suspension system	45kg	10
PLTRK1Y/M8X25	1 M standard M8x25 threaded suspension system	90kg	10
PLTRK2Y/M8X25	2 M standard M8x25 threaded suspension system	90kg	10
PLTRK3Y/M8X25	3 M standard M8x25 threaded suspension system	90kg	10
PLTRK4Y/M8X25	4 M standard M8x25 threaded suspension system	90kg	10
PLTRK5Y/M8X25	5 M standard M8x25 threaded suspension system	90kg	5
PLTRK10Y/M8X25	10 M standard M8x25 threaded suspension system	90kg	5

Eyebolt sizes also available - offering longer thread lengths

CODE	DESCRIPTION	PACK QTY
UNI6M60	M6 x 50mm eyebolt	10
UNI8M60	M8 x 60mm eyebolt	10
UNI10M60	M10 x 75mm eyebolt	10

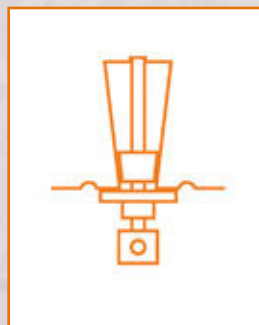
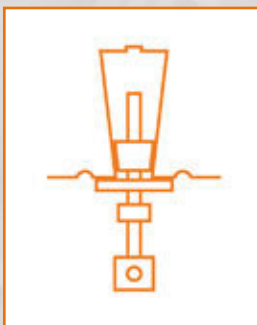
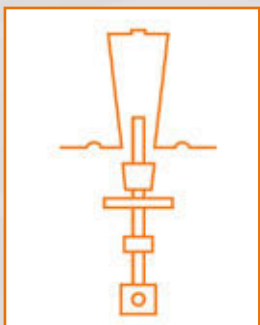
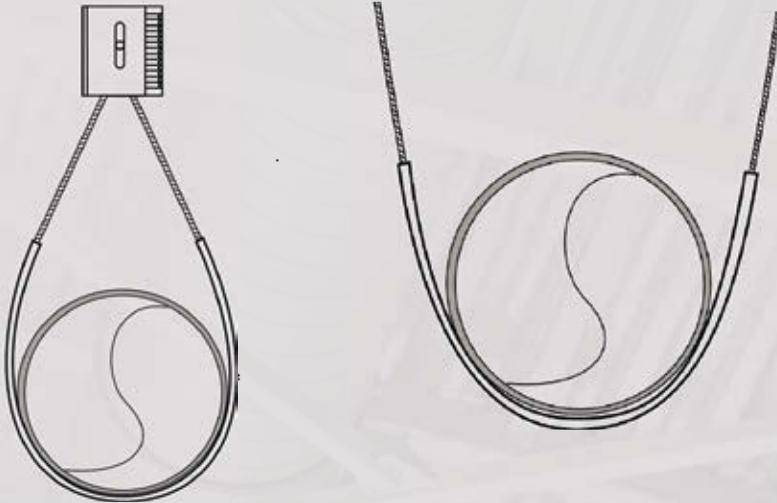


## DEC-LOCK



### SUITABLE FOR:

- Tear drop suspensions
- Cradle suspensions
- Concrete over metal rib-deck



### The Specifics:

The range consists of a pre-determined length of wire from 1 metre to 10 metres with a choice of Safe Working Load:

- 5 50kg

The system consists of wire and zip-clip device with a decking fixing termination.

### The Applications

Suitable for decking applications including:

- Kingspan Products
- Structural Metal Decks (SMD) and other steel decking manufacturers
- Please refer to opposite table for further details

### The Features and Benefits

- Key free release system
- All components are fully assembled
- No onsite assembly required
- Lockable system, no drilling required
- Suitable where access to purlin is not available
- CNC engineered M6 x 45mm eyelet
- Trivalent zinc and clear galvanised eyelet, nut and washer
- High tensile galvanised wire 1960 N/mm<sup>2</sup> grade 7 x 7 construction
- BSEN 12385 Standard



## The Installation

- Push the end fixing into decking profile and turn through 90 degrees
- Screw the eyebolt to the top of the decking profile
- Pass the wire through the zip-clip in the direction of the arrow
- Pass through or around your required suspension and back through the zip-clip leaving 15cm of wire protruding
- Always confirm engagement of the zip-clip on the wire by pushing the pin in the opposite direction to the arrows indicated

CODE	DESCRIPTION	SWL	PACK QTY
DLS1	1 Mtr decking suspension system	50kg	10
DLS2	2 Mtr decking suspension system	50kg	10
DLS3	3 Mtr decking suspension system	50kg	10
DLS4	4 Mtr decking suspension system	50kg	10
DLS5	5 Mtr decking suspension system	50kg	10
DLS10	10 Mtr decking suspension system	50kg	10

### LINDAPTER FIXINGS ALSO AVAILABLE

CODE	DESCRIPTION	SWL	PACK QTY
MAAW/M6	AW Alphawedge M6	1 kN	10
MAAW/M8	AW Alphawedge M8	1 kN	10
MAMF60/M6	MF60 /decking fixing (met nut & bracket) M6	1.47 kN	10
MAMF80/M8	MF60 /decking fixing (met nut & bracket) M8	1.47 kN	10
MAMW2/M6	MW2 Multiwedge M6	1.47 kN	10
MAMW2/M8	MW2 Multiwedge M8	1.47 kN	10
MATR60/M6	TR60 wedge c/w locking plate – M6	1 kN	10
MATR60/M8	TR60 wedge c/w locking plate – M8	1 kN	10

SWL applicable to fixing ends only, Safety Factor 3:1



DECKING TYPE	STANDARD WEDGE Size: 25mm (Top of Wedge) x 18mm (Base of Wedge) x 12mm (Width)	MINI WEDGE Size: 19mm (Top of Wedge) x 12mm (Base of Wedge) x 9.5mm (Width)	MINI MINI WEDGE Size: 18.5mm (top of Wedge) x 10mm (Base of Wedge) x 9.5mm
Richard Lees Holrib	•		
Richard Lees Super Holrib	•		
Quickspan Decking Q51	•		
Corus/Tata CF51	•		
Alpha Decking Alfarib	•		
SMD R51	•		
Ward Multideck 50	•		
Corus/Tata NSD			
Kingspan Multideck 50-V2	•		
CMF Decking Metfloor 55	•		
Richard Lees Ribdeck 60 profile		•	
Quickspan Decking Q60		•	
Richard Lees Ribdeck 80 Profile			•
PMF Decking CF70	•		•

## KNOCK-IT



### SUITABLE FOR:

- Tear drop suspensions
- Cradle suspensions
- Supporting from purlin steels
- Purlins with a vertical flange



### The Specifics:

The range consists of a pre-determined length of wire from 1 metre to 10 metres with a choice of Safe Working Load:

- 5 35kg SWL

The system consists of wire and zip-clip device with a purlin fixing termination.

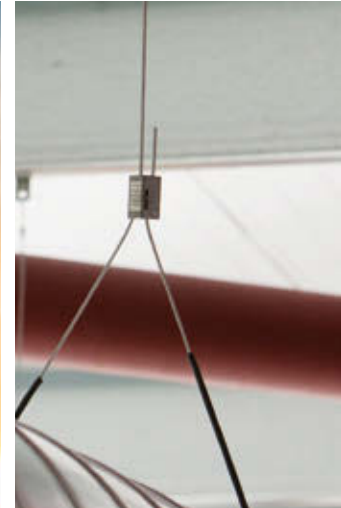
### The Applications

Suitable for knocking onto purlins:

- Plenum boxes
- Chilled beams
- Radiant heat panels
- Cable tray
- Vertical flange purlins

### The Features and Benefits

- Key free release system
- Available with both 1-5mm and 5-7mm purlin clips as standard
- Other hangers available on request
- High tensile galvanised wire 1960N/mm<sup>2</sup> grade 7 x 7 construction
- BSEN 12385 standard



## The Installation

- Hook purlin clip over the lip of the purlin. Strike with hammer to ensure a secure fixing
- Pass the wire through the zip-clip in the direction of the arrow
- Pass through or around your required suspension and back through the zip-clip leaving 15cm of wire protruding
- Always confirm engagement of the zip-clip on the wire by pushing the pin in the opposite direction to the arrows indicated

CODE	DESCRIPTION	SWL	PACK QTY
VLS1	1 Mtr standard 1-5mm decking suspension system	35kg	10
VLS2	2 Mtr standard 1-5mm decking suspension system	35kg	10
VLS3	3 Mtr standard 1-5mm decking suspension system	35kg	10
VLS4	4 Mtr standard 1-5mm decking suspension system	35kg	10
VLS5	5 Mtr standard 1-5mm decking suspension system	35kg	10
VLS10	10 Mtr standard 1-5mm decking suspension system	35kg	10
VLS1/2	1 Mtr standard 5-7mm decking suspension system	35kg	10
VLS2/2	2 Mtr standard 5-7mm decking suspension system	35kg	10
VLS3/2	3 Mtr standard 5-7mm decking suspension system	35kg	10
VLS4/2	4 Mtr standard 5-7mm decking suspension system	35kg	10
VLS5/2	5 Mtr standard 5-7mm decking suspension system	35kg	10
VLS10/2	10 Mtr standard 5-7mm decking suspension system	35kg	10

Fixing end also available for 90 degree flange

CODE	DESCRIPTION	SWL	PACK QTY
T920518	90 Degree purlin clip for Kingspan	35kg	10

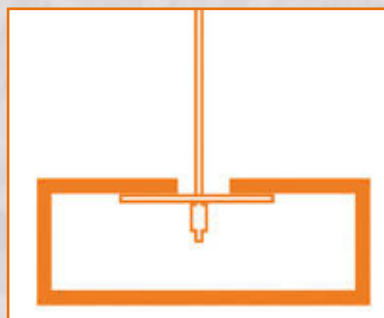
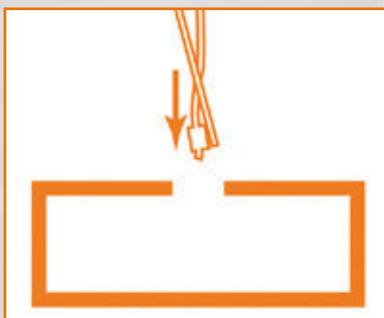
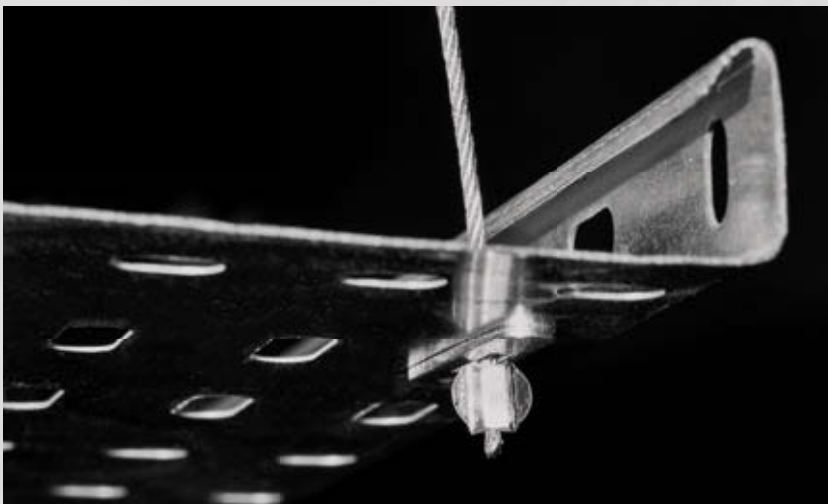
Please ensure the loadings are within the purlin manufacturer's guidelines.  
If a higher loading is required please refer to our wrap around systems.

## TOGGLE-IT



### SUITABLE FOR:

- Tear drop suspensions
- Cradle suspensions
- Cable tray
- Plenum boxes
- Thin tin roofs



### The Specifics:

The range consists of a pre-determined length of wire from 1 metre to 10 metres with a choice of Safe Working Load:

- S 35kg SWL
- Y 90kg SWL

The system consists of wire and zip-clip device with a toggle termination.

### The Applications

- Plenum boxes
- Chilled beams
- Radiant heat panels
- Metal cladding
- Thin tin roofs
- Cable tray

### The Features and Benefits

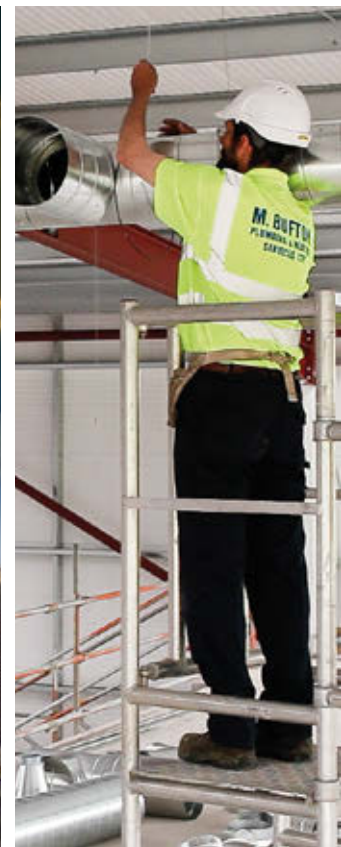
- Hardened toggles – Austempered
- Key free release system
- Three different toggles available to suit light and medium weight applications
- BZP finish
- Suspension can be inverted
- High tensile galvanised wire 1960N/mm<sup>2</sup> grade 7 x 7 construction
- BSEN 12385 standard

## TOGGLE-IT

### The Installation

- By inverting the toggle parallel to the wire it will swing through 90 degrees
- Push into the product being suspended
- Ensure hole is no larger than 12mm diameter
- Pass the free end of the wire through the zip-clip in the direction of the arrow
- Pass through or around your required suspension and back through the zip-clip leaving 15cm of wire protruding
- Always confirm engagement of the zip-clip on the wire by pushing the pin in the opposite direction to the arrows indicated

CODE	DESCRIPTION	SWL	PACK QTY
PTE1SK	1 Mtr standard toggle suspension system	35kg	10
PTE2SK	2 Mtr standard toggle suspension system	35kg	10
PTE3SK	3 Mtr standard toggle suspension system	35kg	10
PTE4SK	4 Mtr standard toggle suspension system	35kg	10
PTE5SK	5 Mtr standard toggle suspension system	35kg	10
PTE10SK	10 Mtr standard toggle suspension system	35kg	10
PTE1YK	1 Mtr standard toggle suspension system	90kg	10
PTE2YK	2 Mtr standard toggle suspension system	90kg	10
PTE3YK	3 Mtr standard toggle suspension system	90kg	10
PTE4YK	4 Mtr standard toggle suspension system	90kg	10
PTE5YK	5 Mtr standard toggle suspension system	90kg	5
PTE10YK	10 Mtr standard toggle suspension system	90kg	5

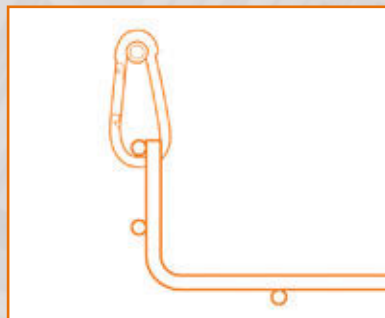
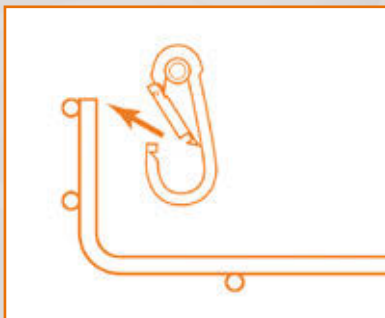


## SNAP-IT



### SUITABLE FOR:

- Tear drop suspensions
- Cradle suspensions
- Snapping on to purlin fixings
- Attaching to existing structures
- Coupling with eyebolts



### The Specifics:

The range consists of a pre-determined length of wire from 1 metre to 10 metres with a choice of Safe Working Load:

- S 45kg SWL
- Y 90kg SWL

The system consists of wire and zip-clip device with an eyelet carabiner termination.

### The Applications

- Snapping onto purlin hanger fixings
- Chilled beams
- Heating panels
- Attaching to existing structures
- Coupling with eyebolts
- Plenum boxes
- Cable tray or cable basket

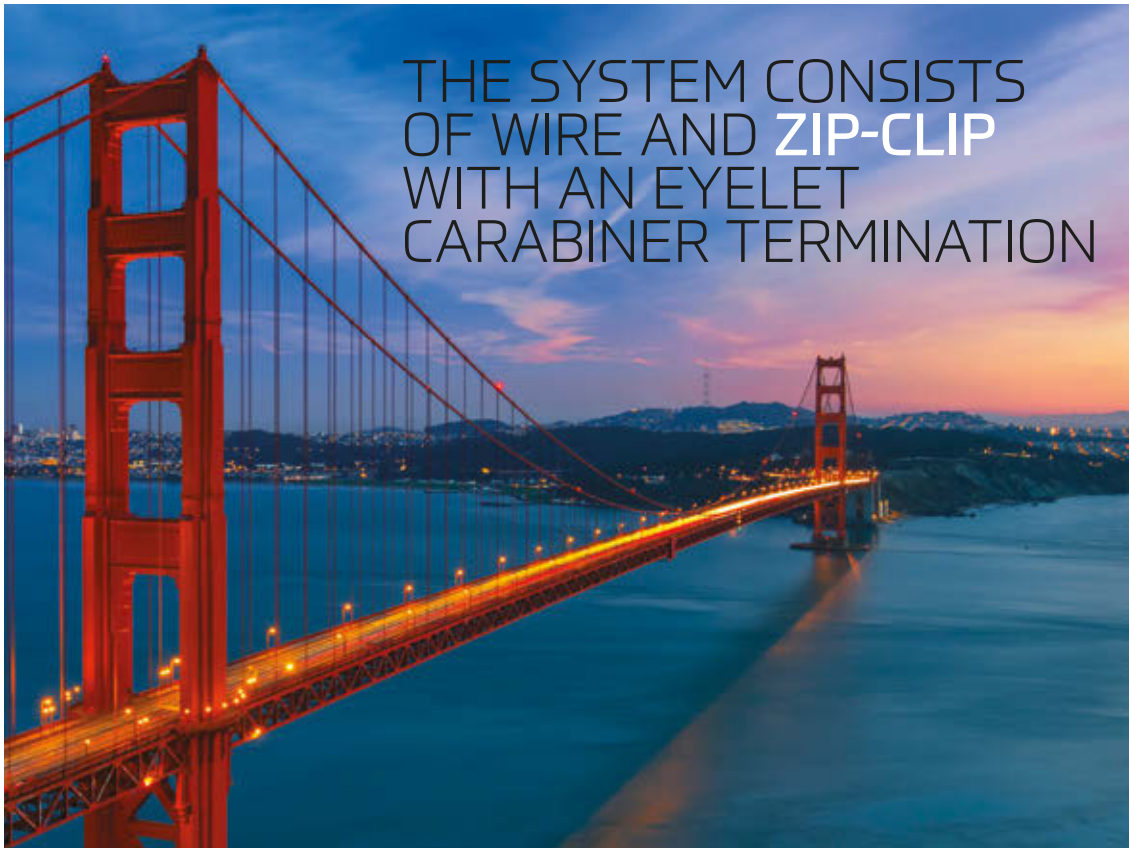
### The Features and Benefits

- Key free release system
- 5 x 50 on G and S range and 6 x 60 on Y range BZP carabiner hook
- Eyelet prevents accidental unhooking of carabiner from wire
- Maintenance friendly
- Suspension can be inverted
- High tensile galvanised wire 1960N/mm<sup>2</sup> grade 7 x 7 construction
- BSEN 12385 standard

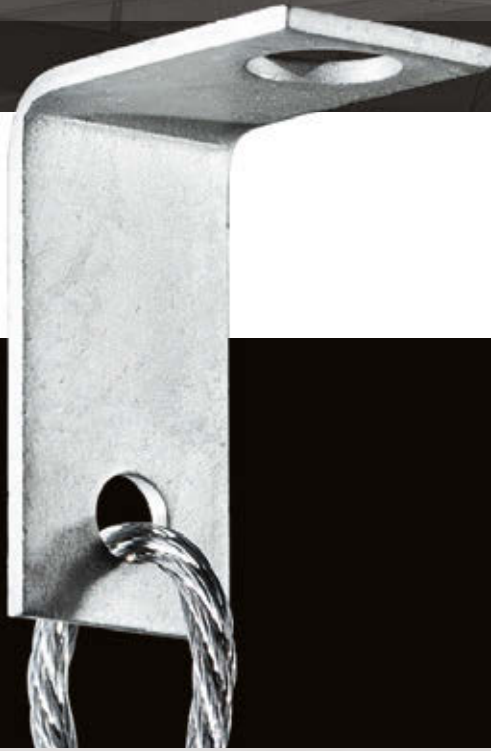
## The Installation

- Snap the carabiner onto the purlin hanger or product to be supported
- Pass the wire through the zip-clip in the direction of the arrow
- Pass through or around your required suspension and back through the zip-clip leaving 15cm of wire protruding
- Always confirm engagement of the zip-clip on the wire by pushing the pin in the opposite direction to the arrows indicated

CODE	DESCRIPTION	SWL	PACK QTY
PSEK1S	1 Mtr standard eyelet carabiner suspension system	45kg	10
PSEK2S	2 Mtr standard eyelet carabiner suspension system	45kg	10
PSEK3S	3 Mtr standard eyelet carabiner suspension system	45kg	10
PSEK4S	4 Mtr standard eyelet carabiner suspension system	45kg	10
PSEK5S	5 Mtr standard eyelet carabiner suspension system	45kg	10
PSEK10S	10 Mtr standard eyelet carabiner suspension system	45kg	10
PSEK1Y	1 Mtr standard eyelet carabiner suspension system	90kg	10
PSEK2Y	2 Mtr standard eyelet carabiner suspension system	90kg	10
PSEK3Y	3 Mtr standard eyelet carabiner suspension system	90kg	10
PSEK4Y	4 Mtr standard eyelet carabiner suspension system	90kg	10
PSEK5Y	5 Mtr standard eyelet carabiner suspension system	90kg	5
PSEK10Y	10 Mtr standard eyelet carabiner suspension system	90kg	5

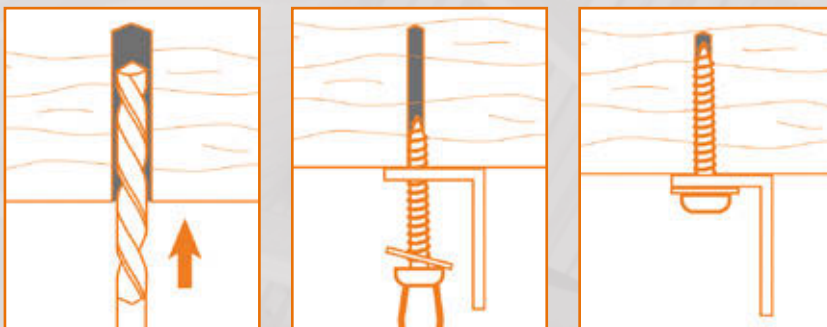
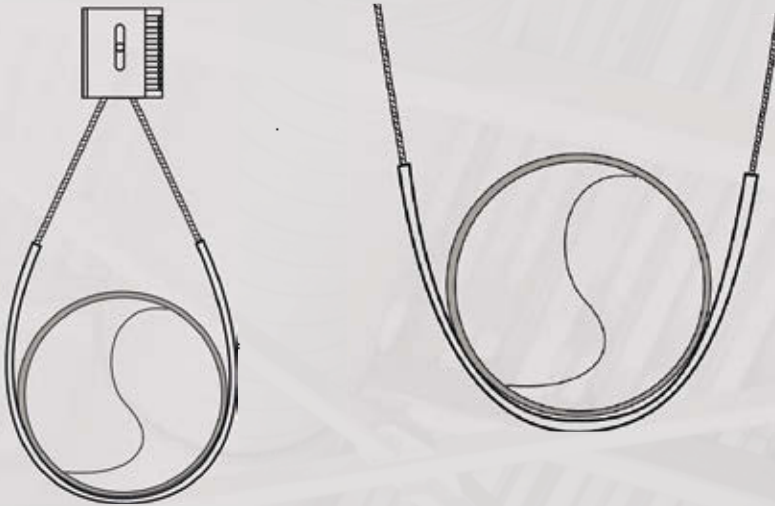


## UNI-LOCK



### SUITABLE FOR:

- Tear drop suspensions
- Cradle suspensions
- Wooden structures
- Concrete slab
- Plasterboard ceilings



### The Specifics:

The range consists of a pre-determined length of wire from 1 metre to 10 metres with a choice of Safe Working Loads:

- S 50kg SWL
- Y 90kg SWL

The system consists of wire and zip-clip device with a right angle bracket termination.

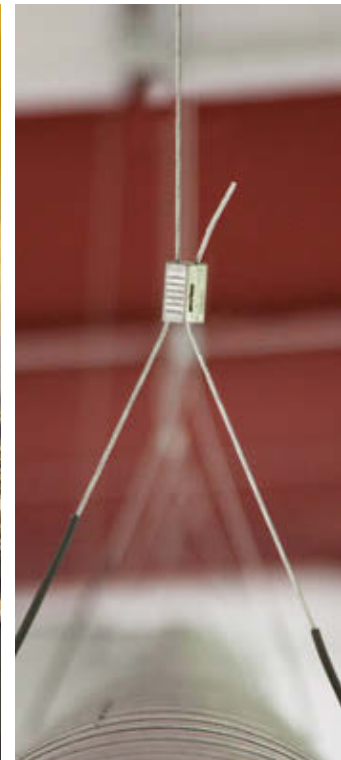
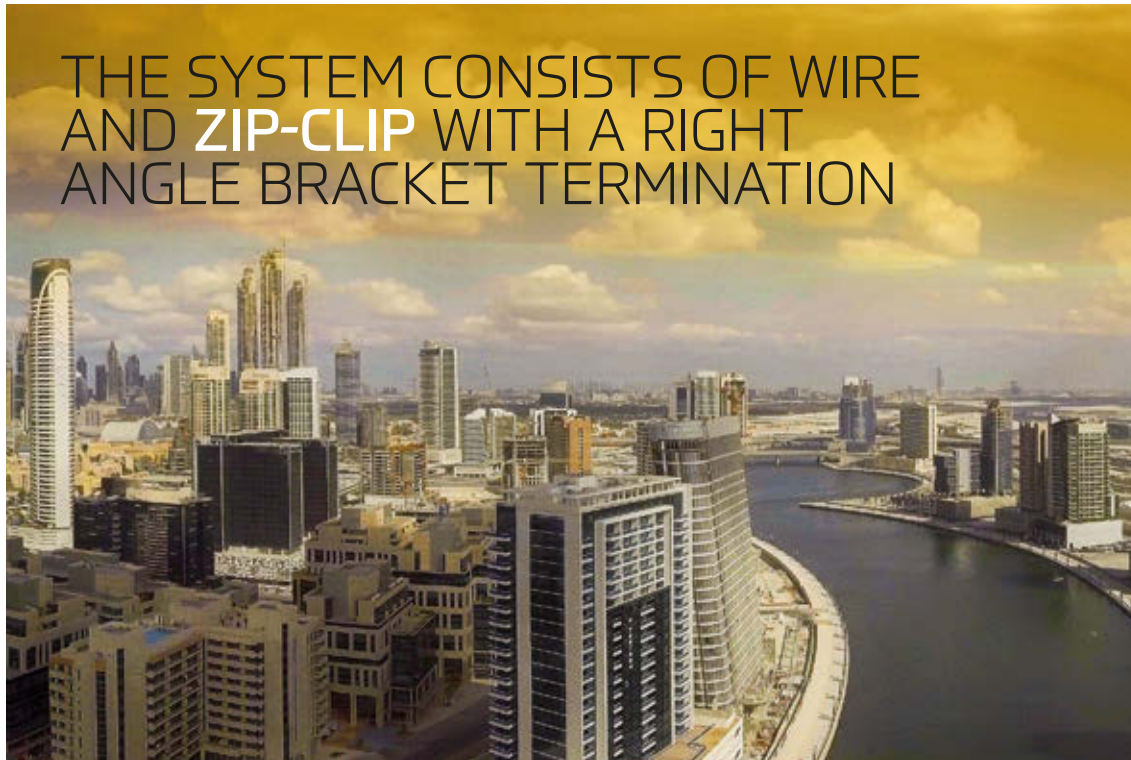
### The Applications

- Wooden structures
- Concrete slab
- Metal decking and other steel structures
- Plasterboard ceilings

### The Features and Benefits

- Key free release system
- Suitable for both plug and screw and shot fire applications
- Wire rotation reduces pressure on the nail when service is not directly below anchor point
- Trivalent zinc and clear galvanised finish
- Fix with:
  - Wood screw
  - Plug and screw
  - Concrete screw
  - Tek screw
  - Gas/Pat nail
- Suspension can be inverted
- High tensile galvanised wire 1960 N/mm<sup>2</sup> grade 7 x 7 construction
- BSEN 12385 Standard





## The Installation

- For timber applications, pre-drill timber and use a screw to fix through the bracket
- For steel and concrete applications use self tapping fixing or a gas nailer with a suitable nail
- Pass the wire through the zip-clip in the direction of the arrow
- Pass through or around your required suspension and back through the zip-clip leaving 15cm of wire protruding
- Always confirm engagement of the zip-clip on the wire by pushing the pin in the opposite direction to the arrows indicated
- Use in conjunction with an appropriate fixing or anchor for the intended base material
- Ensure fixing is suitable for use
- Ensure fixing will couple with 90 degree bracket

CODE	DESCRIPTION	SWL	PACK QTY
ULS1	1 Mtr angle bracket suspension system	50kg	10
ULS2	2 Mtr angle bracket suspension system	50kg	10
ULS3	3 Mtr angle bracket suspension system	50kg	10
ULS4	4 Mtr angle bracket suspension system	50kg	10
ULS5	5 Mtr angle bracket suspension system	50kg	10
ULS10	10 Mtr angle bracket suspension system	50kg	10
ULY1	1 Mtr angle bracket suspension system	90kg	10
ULY2	2 Mtr angle bracket suspension system	90kg	10
ULY3	3 Mtr angle bracket suspension system	90kg	10
ULY4	4 Mtr angle bracket suspension system	90kg	10
ULY5	5 Mtr angle bracket suspension system	90kg	5
ULY10	10 Mtr angle bracket suspension system	90kg	5

Bracket sizes also available

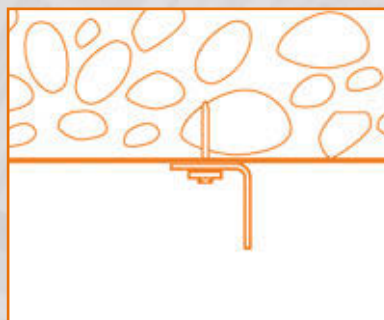
CODE	DESCRIPTION	PACK QTY
HCB2	90 Degree bracket with 6.5mm holes, 1.3mm gauge suitable for S wire	10
HCB3	0 Degree bracket with 10.9mm and 6.5mm holes, 2.0mm gauge suitable for Y wire	10

## SHOT-LOCK



### SUITABLE FOR:

- Suitable for light duty applications only
- Shot fire tools



### The Specifics:

The range consists of a pre-determined length of wire from 1 metre to 10 metres with a choice of Safe Working Loads:

- 5 25kg

The system consists of wire and zip-clip device with a shot fire bracket complete with a ballistic nail.

### The Applications

Suitable for fixing substrates including:

- Concrete slab
- Concrete over metal decking
- Steel beams. SFN19 metal nail required
- Plenum boxes

### The Features and Benefits

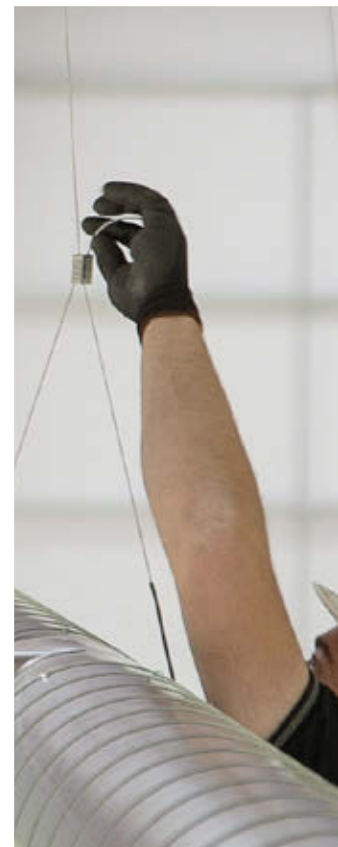
- Key free release system
- Available in single or double wire drop
- Eliminates drilling
- Tear drop shape allows for wire to rotate through 180 degrees in bracket for angled applications
- Wire rotation reduces pressure on nail when service is not directly below anchor point
- Ballistic nail compatible with a range of Powder Actuated Tools (PAT)
  - Hilti DX460
  - Hilti DXA40
  - Hilti DXA41
  - Hilti DX351
  - Spit P200
  - Spit P370
- High tensile galvanised wire 1960 N/mm<sup>2</sup> grade 7 x 7 construction

## The Installation

- Ensure substrate is suitable for nail and cartridge
- Locate nail into the barrel of the Powder Actuated Tool
- For firing follow the gun manufacturer's guidelines
- Pass the wire through the zip-clip in the direction of the arrow
- Pass through or around your required suspension and back through the zip-clip leaving 15cm of wire protruding
- Always confirm engagement of the zip-clip on the wire by pushing the pin in the opposite direction to the arrows indicated

CODE	DESCRIPTION	SWL	PACK QTY
SLPS1	1 Mtr shot fire suspension system	25kg	10
SLPS2	2 Mtr shot fire suspension system	25kg	10
SLPS3	3 Mtr shot fire suspension system	25kg	10
SLPS4	4 Mtr shot fire suspension system	25kg	10
SLPS5	5 Mtr shot fire suspension system	25kg	10
SLPS10	10 Mtr shot fire suspension system	25kg	10

THE SYSTEM CONSISTS OF WIRE AND ZIP-CLIP WITH A RIGHT ANGLE BRACKET TERMINATION

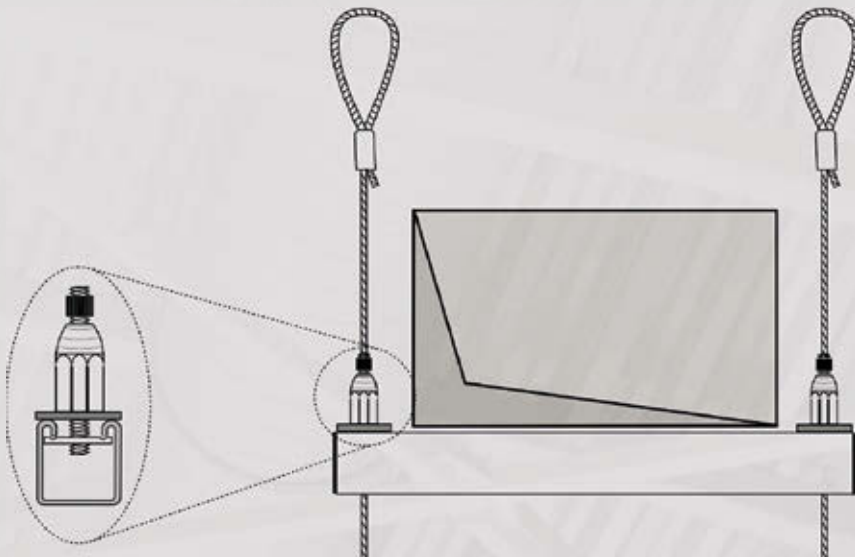


## STRUT-LOCK



### SUITABLE FOR:

- Light to medium duty trapeze bracket installations



### The Specifics:

STRUT-LOCK is the safe, lockable solution for installing single and multi-tiered arrangements of cable management and HVAC applications.

The range consists of a pre-determined length of wire from 1 metre to 10 metres with a choice of Safe Working Loads:

- S 45kg – M8
- Y 90kg – M10

### The Applications

- Single tier trapeze brackets
- Multi-tier trapeze brackets
- For 41x41 & 41x21 channel
- Can be utilised with other channel types
- Ensure compatible channel nuts are used

### The Features and Benefits

- Versatile: use with channel nut or nut & washer
- Quick to install and adjust
- SWL: 45 kg – M8, 90kg – M10
- Safety factor: 5:1
- Secure lock off
- Material: all steel
- For static loads that are supported vertically

## Fixing Options (into the soffit):

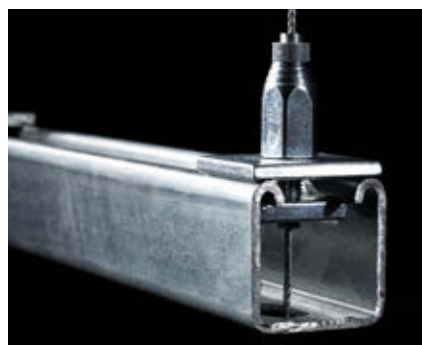
- A) To form a choke knot for wrap around anchor points such as purlins or I-beams. Ensure anchor points are suitable. Product code suffix: TPDM820LP.
- B) BS8539 approved with ETA, offering shallow embedment into cracked & none cracked concrete. Contact zip-clip for installation details. Product code suffix: TPDM820CS
- C) To couple with female threaded components. Ensure components are compatible to complete the installation. Product code suffix: TPDM820THS

Always ensure the base material or anchor point are suitable to support the intended load.

Other fixing options are available on request.

## The Installation

- Couple Strut-Lock with square washer and channel nut
- Position assembly into desired channel location
- Tighten into position using 15mm spanner. Turn clockwise
- Back off locking collar. Do not undo fully. Depress plunger.
- Insert wire rope through the plunger at the top of the device
- Tighten locking collar to lock off



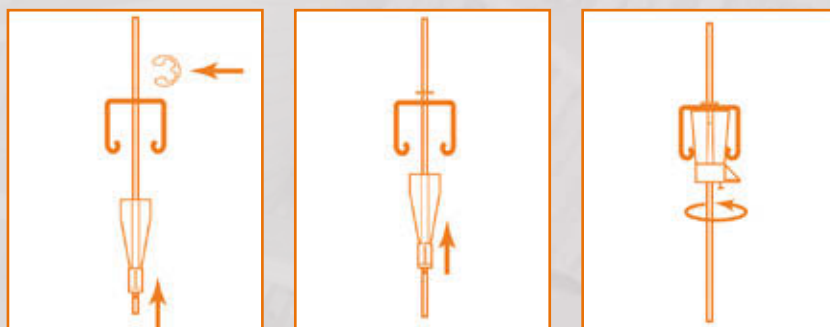
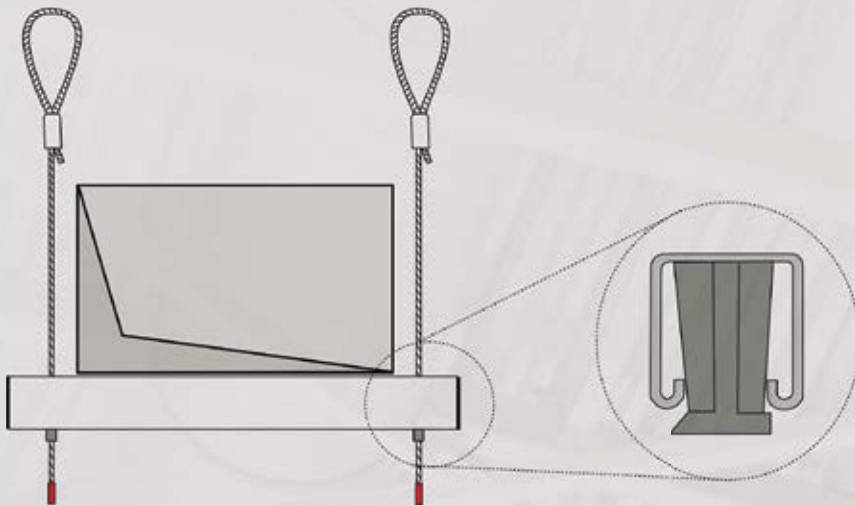
CODE	DESCRIPTION	SWL	PACK QTY
TPDM820	M8 trapeze dome, 45kg SWL	45kg	10
TPDM1020	M10 trapeze dome, 90kg SWL	90kg	10
NM8Z	M8 channel nut		10
WM8S	M8 square plate		10
NM10Z	M10 channel nut		10
WM10S	M10 square plate		10
TPDM820LPS1	1 Mtr standard loop suspension system	45kg	10
TPDM820LPS2	2 Mtr standard loop suspension system	45kg	10
TPDM820LPS3	3 Mtr standard loop suspension system	45kg	10
TPDM820LPS4	4 Mtr standard loop suspension system	45kg	10
TPDM820LPS5	5 Mtr standard loop suspension system	45kg	10
TPDM820LPS10	10 Mtr standard loop suspension system	45kg	10
TPDM820LPY1	1 Mtr standard loop suspension system	90kg	10
TPDM820LPY2	2 Mtr standard loop suspension system	90kg	10
TPDM820LPY3	3 Mtr standard loop suspension system	90kg	10
TPDM820LPY4	4 Mtr standard loop suspension system	90kg	10
TPDM820LPY5	5 Mtr standard loop suspension system	90kg	5
TPDM820LPY10	10 Mtr standard loop suspension system	90kg	5
TPDM820CS1	1 Mtr concrete suspension system	45kg	10
TPDM820CS2	2 Mtr concrete suspension system	45kg	10
TPDM820CS3	3 Mtr concrete suspension system	45kg	10
TPDM820CS4	4 Mtr concrete suspension system	45kg	10
TPDM820CS5	5 Mtr concrete suspension system	45kg	10
TPDM820CS10	10 Mtr concrete suspension system	45kg	10
TPDM820CY1	1 Mtr concrete suspension system	90kg	10
TPDM820CY2	2 Mtr concrete suspension system	90kg	10
TPDM820CY3	3 Mtr concrete suspension system	90kg	10
TPDM820CY4	4 Mtr concrete suspension system	90kg	10
TPDM820CY5	5 Mtr concrete suspension system	90kg	5
TPDM820CY10	10 Mtr concrete suspension system	90kg	5
TPDM820THS1	1 Mtr threaded suspension system	45kg	10
TPDM820THS2	2 Mtr threaded suspension system	45kg	10
TPDM820THS3	3 Mtr threaded suspension system	45kg	10
TPDM820THS4	4 Mtr threaded suspension system	45kg	10
TPDM820THS5	5 Mtr threaded suspension system	45kg	10
TPDM820THS10	10 Mtr threaded suspension system	45kg	10
TPDM820THY1	1 Mtr threaded suspension system	90kg	10
TPDM820THY2	2 Mtr threaded suspension system	90kg	10
TPDM820THY3	3 Mtr threaded suspension system	90kg	10
TPDM820THY4	4 Mtr threaded suspension system	90kg	10
TPDM820THY5	5 Mtr threaded suspension system	90kg	5
TPDM820THY10	10 Mtr threaded suspension system	90kg	5

PLUS ON WIRE



SUITABLE FOR:

- Heavy duty trapeze bracket installations



The Specifics:

The range consists of a pre-determined length of wire with either a loop, concrete anchor or M8 eyebolt.

The Applications

Suitable for supporting:

- Heavy duty single and multi-tier trapeze brackets
- 2D or 3D modular systems
- Rectangular ducting

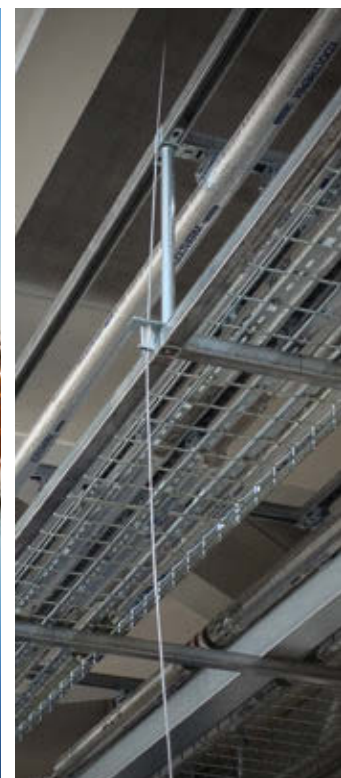
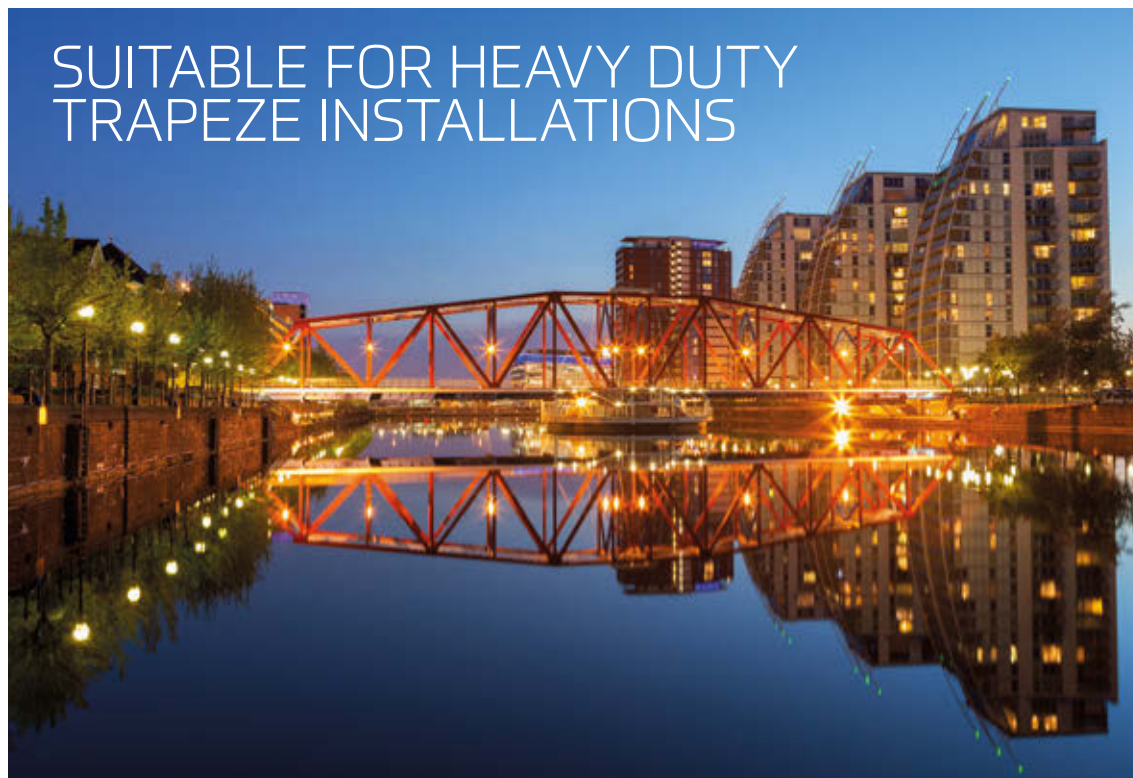
The Features and Benefits

- Key free release. No tools required
- Flexible, ideal if anchor point is not straight above
- Easy to cut
- Speed of installation
- Fully lockable into slotted channel
- Zamac 5 housing incorporating oil impregnated sintered steel wedge
- High tensile galvanised wire 1960N/mm<sup>2</sup> grade 7 x 7 construction
- BSEN 12385 Standard

## The Installation

- Loop, screw or drill your end into or around your chosen anchor point
- Turn Plus Clip into channel to wedge fit into position and slide the wire through the top of the clip
- To adjust release the load from the Plus Clip by pushing the clip up the wire. Then pull down on the release key at the same time

CODE	DESCRIPTION	SWL	PACK QTY
PLR1	1 Mtr loop suspension system	100kg	10
PLR2	2 Mtr loop suspension system	100kg	10
PLR3	3 Mtr loop suspension system	100kg	10
PLR4	4 Mtr loop suspension system	100kg	10
PLR5	5 Mtr loop suspension system	100kg	5
PLR10	10 Mtr loop suspension system	100kg	5
PLR1C	1 Mtr concrete suspension system	90kg	10
PLR2C	2 Mtr concrete suspension system	90kg	10
PLR3C	3 Mtr concrete suspension system	90kg	10
PLR4C	4 Mtr concrete suspension system	90kg	10
PLR5C	5 Mtr concrete suspension system	90kg	5
PLR10C	10 Mtr concrete suspension system	90kg	5
PLR1E8	1 Mtr M8x60 threaded suspension system	100kg	10
PLR2E8	2 Mtr M8x60 threaded suspension system	100kg	10
PLR3E8	3 Mtr M8x60 threaded suspension system	100kg	10
PLR4E8	4 Mtr M8x60 threaded suspension system	100kg	10
PLR5E8	5 Mtr M8x60 threaded suspension system	100kg	5
PLR10E8	10 Mtr M8x60 threaded suspension system	100kg	5
PLU02	Plus Clip		10

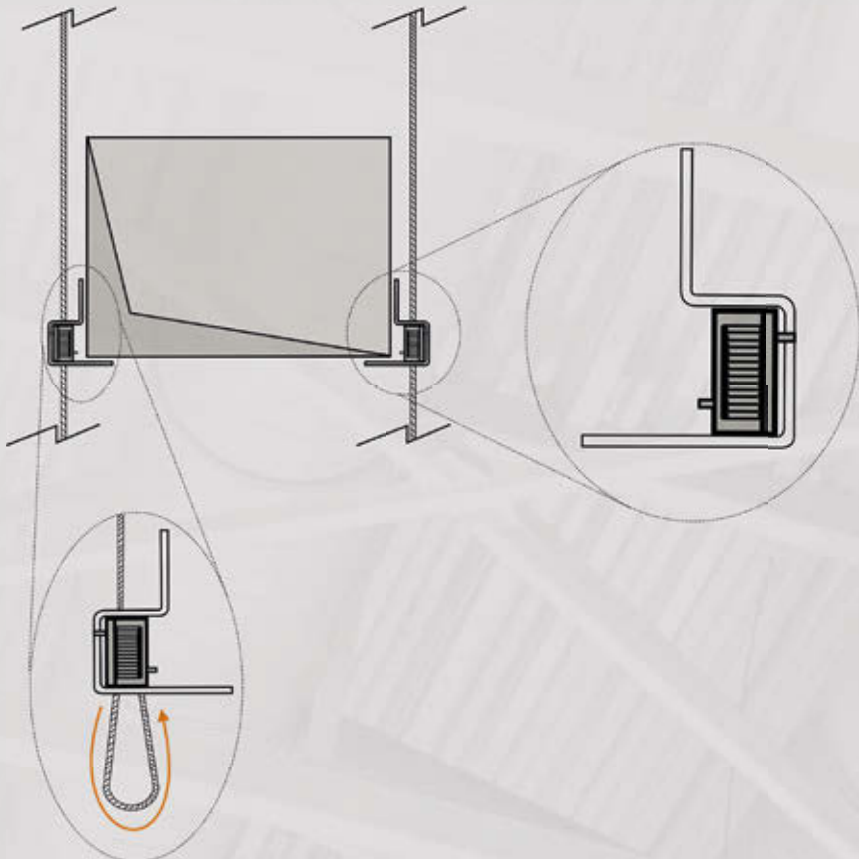


## DUCT-LOCK



### SUITABLE FOR:

- Supporting rectangular ductwork



### The Specifics:

The system consists of wire and duct locking zip-clip with either a loop, concrete anchor or M8 termination designed for rectangular duct.

### The Applications

- Rectangular ductwork

### The Features and Benefits

- 45kg SWL per support
- 5:1 Safety Factor
- 1.15mm gauge bracket
- 4.5mm fixing holes
- Material: mild steel
- Zinc plated finish





## The Installation

- Position bracket against centre of duct in the desired location
- Utilise suitable fixings to fasten the bracket into place (fixings not provided)
- Insert the wire support into the top of the locking device and pull through
- Pull through 75mm of wire rope to form a tail
- As an added safety precaution, feed the tail back into the available channel in the zip-clip – please note: only do this when installation is complete as adjustment will no longer be possible.

Please ensure a suitable fixing has been selected that will:

- Correctly fix the bracket to the duct
- Is appropriate to fix into the gauge of the ductwork

CODE	DESCRIPTION	SWL	PACK QTY
KV100/LPS1	1 Mtr loop suspension system	45kg	10
KV100/LPS2	2 Mtr loop suspension system	45kg	10
KV100/LPS3	3 Mtr loop suspension system	45kg	10
KV100/LPS4	4 Mtr loop suspension system	45kg	10
KV100/LPS5	5 Mtr loop suspension system	45kg	10
KV100/LPS10	10 Mtr loop suspension system	45kg	10
KV100/CLS1	1 Mtr concrete suspension system	45kg	10
KV100/CLS2	2 Mtr concrete suspension system	45kg	10
KV100/CLS3	3 Mtr concrete suspension system	45kg	10
KV100/CLS4	4 Mtr concrete suspension system	45kg	10
KV100/CLS5	5 Mtr concrete suspension system	45kg	10
KV100/CLS10	10 Mtr concrete suspension system	45kg	10
KV100/M820THS1	1 Mtr M8x25 threaded suspension system	45kg	10
KV100/M820THS2	2 Mtr M8x25 threaded suspension system	45kg	10
KV100/M820THS3	3 Mtr M8x25 threaded suspension system	45kg	10
KV100/M820THS4	4 Mtr M8x25 threaded suspension system	45kg	10
KV100/M820THS5	5 Mtr M8x25 threaded suspension system	45kg	10
KV100/M820THS10	10 Mtr M8x25 threaded suspension system	45kg	10
TPDM820THY3	3 Mtr threaded suspension system	90kg	10
TPDM820THY4	4 Mtr threaded suspension system	90kg	10
TPDM820THY5	5 Mtr threaded suspension system	90kg	5
TPDM820THY10	10 Mtr threaded suspension system	90kg	5

## TRY-LOCK



## SUITABLE FOR:

- Containment and bracketry
- Plenum boxes



## The Specifics:

The range consists of two pre-determined lengths of wire to support basket and tray with the following choice of Safe Working Loads:

- 5 50kg

Designed to be used in conjunction with Rize, Zip-Lock, Con-Lock, Dec-Lock, Loop-It, Shot-Lock and Uni-Lock.

## The Applications

- Channel supports
- Chilled beams
- Radiant heat panels
- Plenum boxes

## The Features and Benefits

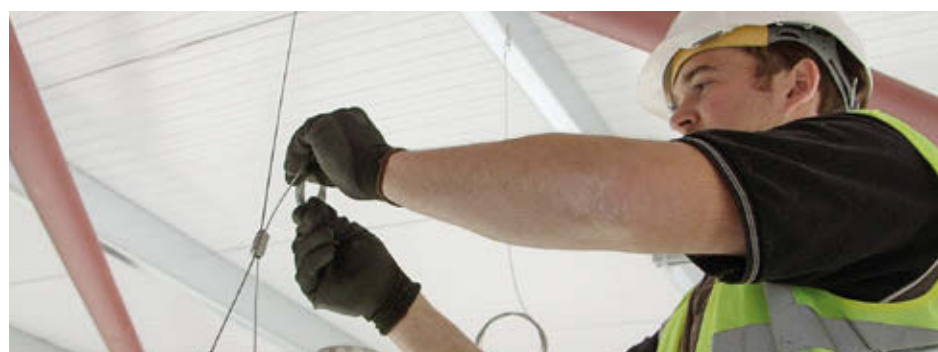
- Reduces the use of studding and channel
- One fixing point per drop
- Allows for side loading
- Height can be adjusted at application and not at fixing
- Can be fixed at ground level
- Plastic protection sleeve preventing wire on wire friction
- 5 x 50 BZP carabiner hook
- Eyelets prevent accidental unhooking of carabiner from wire
- High tensile galvanised wire 1960 N/mm<sup>2</sup> grade 7 x 7 construction
- BSEN 12385 Standard

## TRY-LOCK

### The Installation

- The attachment of the Try-Lock system can be done at ground level
- Clip the carabiner to one side of the product to suspend
- Clip the other carabiner to the other side of the product to suspend
- Pass the free end of the wire from your top suspension through the zip-clip in the direction of the arrow
- Pass through the plastic protected loop of the Try-Lock and back through the zip-clip leaving 15cm of wire protruding
- Always confirm engagement of the zip-clip on the wire by pushing the pin in the opposite direction to the arrows indicated
- Legs should not exceed 60 degrees

CODE	DESCRIPTION	SWL	PACK QTY
TRS50-200	Eyelet carabiner suspension system suitable for spans of 50-200mm	50kg	10
TRS300-400	Eyelet carabiner suspension system suitable for spans of 300-400mms	50kg	10

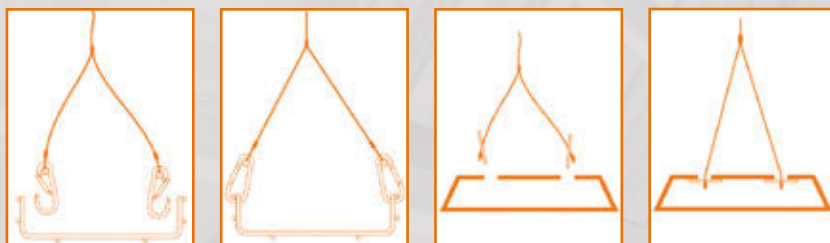


## Y-IT



### SUITABLE FOR:

- Containment and bracketry



### The Specifics:

The range consists of a pre-determined length of wire from 1 metre to 3 metres with a choice of Safe Working Load:

Carabiner end:

- S 50kg SWL
- Y 90kg SWL

Toggle end:

- S 35kg SWL
- Y 90kg SWL

The system consists of a pre-determined length of wire with a second ferruled leg and a choice of either carabiner or toggle ends.

### The Applications

Carabiner end:

- Channel supports
- Chilled beams
- Radiant heat panels

Toggle end:

- Heat panels
- Plenum boxes

### The Features and Benefits

- Key free release system
- High tensile galvanised wire 1960N/mm<sup>2</sup> grade 7 x 7 construction
- BSEN 12385 standard
- One fixing point per drop
- Allows for side loading
- Can be fixed at ground level
- Reduces the use of studding and channel
- Ideal for short suspensions

## The Installation

### Installing the carabiners:

- Clip one carabiner to one side of the product to be suspended
- Clip the other carabiner to the other side of the product to be suspended

### Installing the toggles:

- Attach the two toggles to the rear of the system being suspended
- By inverting the toggle parallel to the wire the toggle will swing through 90 degrees
- Ensure hole is no larger than 12mm diameter
- Pass the free end of the wire through the zip-clip in the direction of the arrow
- Pass through or around your required suspension point and back through the zip-clip leaving 15cm of wire protruding
- Always confirm engagement of the zip-clip on the wire by pushing the pin in the opposite direction to the arrows indicated

CODE	DESCRIPTION	SWL	PACK QTY
YTR1S/300	1 Mtr x 300mm eyelet carabiner suspension system	50kg	10
YTR2S/300	2 Mtr x 300mm eyelet carabiner suspension system	50kg	10
YTR3S/300	3 Mtr x 300mm eyelet carabiner suspension system	50kg	10
YTR1S/460	1 Mtr x 460mm eyelet carabiner suspension system	50kg	10
YTR2S/460	2 Mtr x 460mm eyelet carabiner suspension system	50kg	10
YTR3S/460	3 Mtr x 460mm eyelet carabiner suspension system	50kg	10
YTR1Y/300	1 Mtr x 300mm eyelet carabiner suspension system	90kg	10
YTR2Y/300	2 Mtr x 300mm eyelet carabiner suspension system	90kg	10
YTR3Y/300	3 Mtr x 300mm eyelet carabiner suspension system	90kg	10
YTR1Y/460	1 Mtr x 460mm eyelet carabiner suspension system	90kg	10
YTR2Y/460	2 Mtr x 460mm eyelet carabiner suspension system	90kg	10
YTR3Y/460	3 Mtr x 460mm eyelet carabiner suspension system	90kg	10
YLM1S/300	1 Mtr x 300mm toggle suspension system	35kg	10
YLM2S/300	2 Mtr x 300mm toggle suspension system	35kg	10
YLM3S/300	3 Mtr x 300mm toggle suspension system	35kg	10
YLM1S/460	1 Mtr x 460mm toggle suspension system	35kg	10
YLM2S/460	2 Mtr x 460mm toggle suspension system	35kg	10
YLM3S/460	3 Mtr x 460mm toggle suspension system	35kg	10
YLM1Y/300	1 Mtr x 300mm toggle suspension system	90kg	10
YLM2Y/300	2 Mtr x 300mm toggle suspension system	90kg	10
YLM3Y/300	3 Mtr x 300mm toggle suspension system	90kg	10
YLM1Y/460	1 Mtr x 460mm toggle suspension system	90kg	10
YLM2Y/460	2 Mtr x 460mm toggle suspension system	90kg	10
YLM3Y/460	3 Mtr x 460mm toggle suspension system	90kg	10

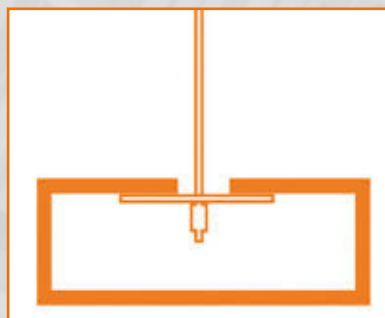
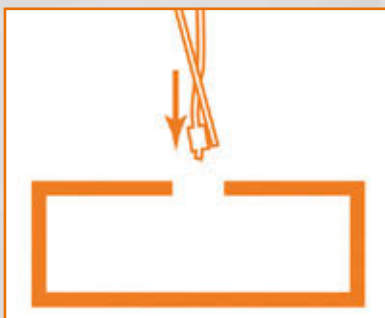


## LUMA-LOCK



### SUITABLE FOR:

- Containment and bracketry
- Plenum boxes



### The Specifics:

The range consists of pre-determined lengths of wire for the installation of primary and secondary installations with a choice of Safe Working Loads:

- 5 35kg SWL

Designed to be used in conjunction with Rize, Zip-Lock, Con-Lock, Dec-Lock, Loop-It, Shot-Lock and Uni-Lock.

### The Applications

Suitable for primary and secondary support for suspending:

- Heat Panels
- Plenum Boxes
- Cable Trays

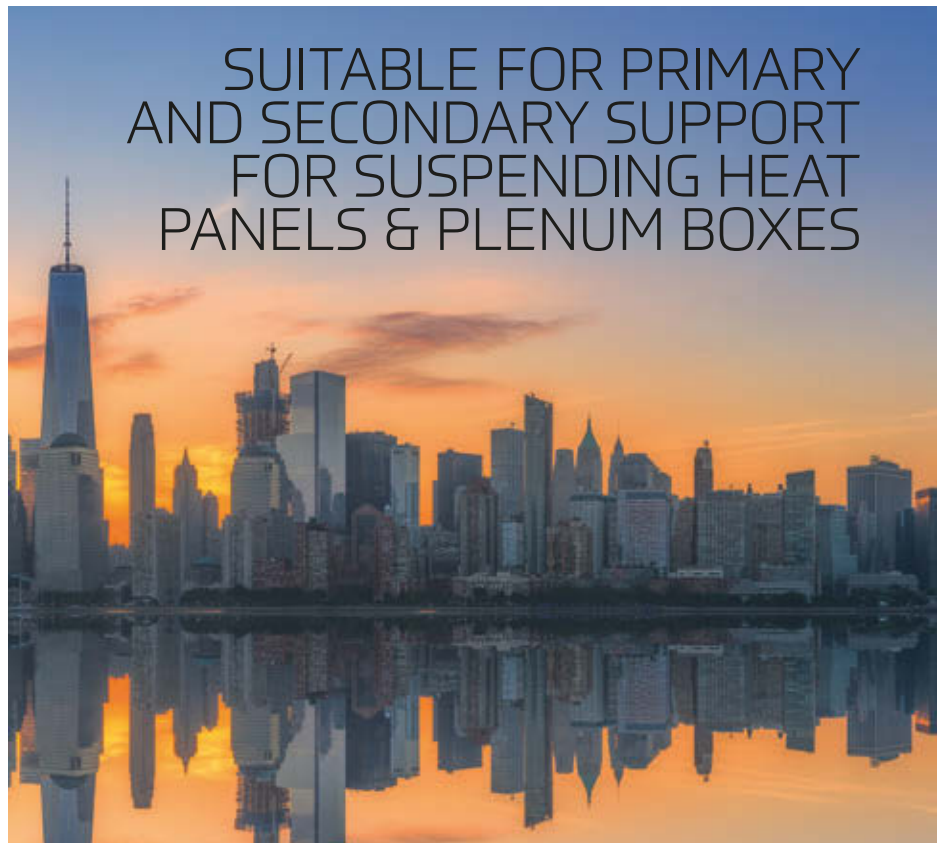
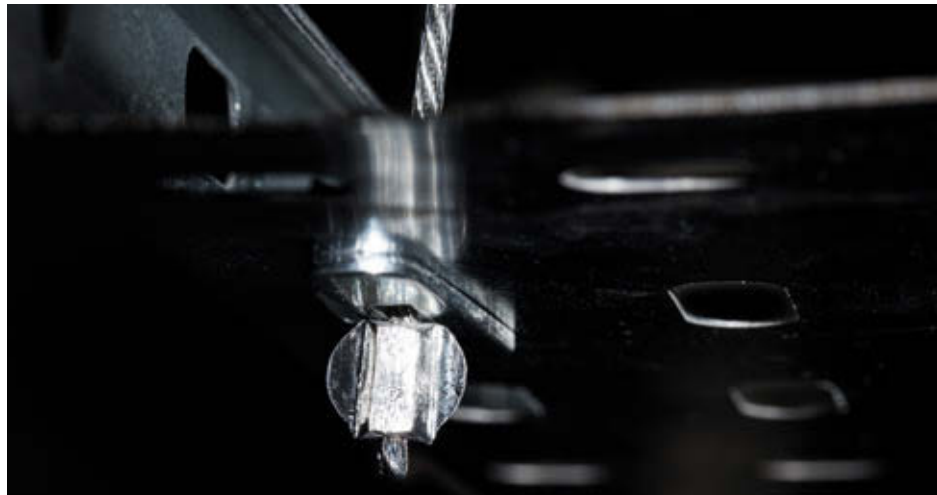
### The Features and Benefits

- Reduces the use of studding and channel
- One fixing point per drop
- Can be fixed to installation at ground level
- High tensile galvanised wire 1960N/mm<sup>2</sup> grade 7 x 7 construction
- BSEN 12385 Standard

## The Installation

- The attachment of the Luma-Lock system can be done at ground level
- Attach the two toggles through the rear of the system being suspended
- By inverting the toggle parallel to the wire the toggle will swing through 90 degrees
- Ensure hole is no larger than 12mm diameter
- Pass the free end of the wire from your top suspension through the zip-clip in the direction of the arrow
- Pass through the plastic protected loop of the Luma-Lock and back through the zip-clip leaving 15cm of wire protruding
- Always confirm engagement of the zip-clip on the wire by pushing the pin in the opposite direction to the arrows indicated
- Legs should not exceed 60 degrees

CODE	DESCRIPTION	SWL	PACK QTY
LUM50-200	Toggle suspension system suitable for spans of 50-200mm	35kg	10
LUM300-400	Toggle suspension system suitable for spans of 300-400mm	35kg	10
LUM600	Toggle suspension system suitable for spans of 600mm	35kg	10

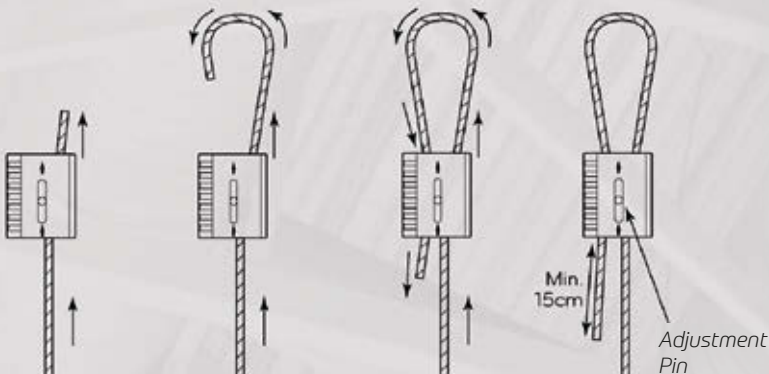


## BLACK SYSTEM



### SUITABLE FOR:

- Cradle
- Tear drop



### The Specifics:

Wire suspension systems which are available in black for installations that require blending in with surroundings and offering extra discretion

### The Applications

- Cafes
- Theatres
- Cinemas
- Retail

### The Features and Benefits

- Process involves a surface conversion in order to colour the wire suspensions
- Aluminium components of the wire suspension are galvanised colour

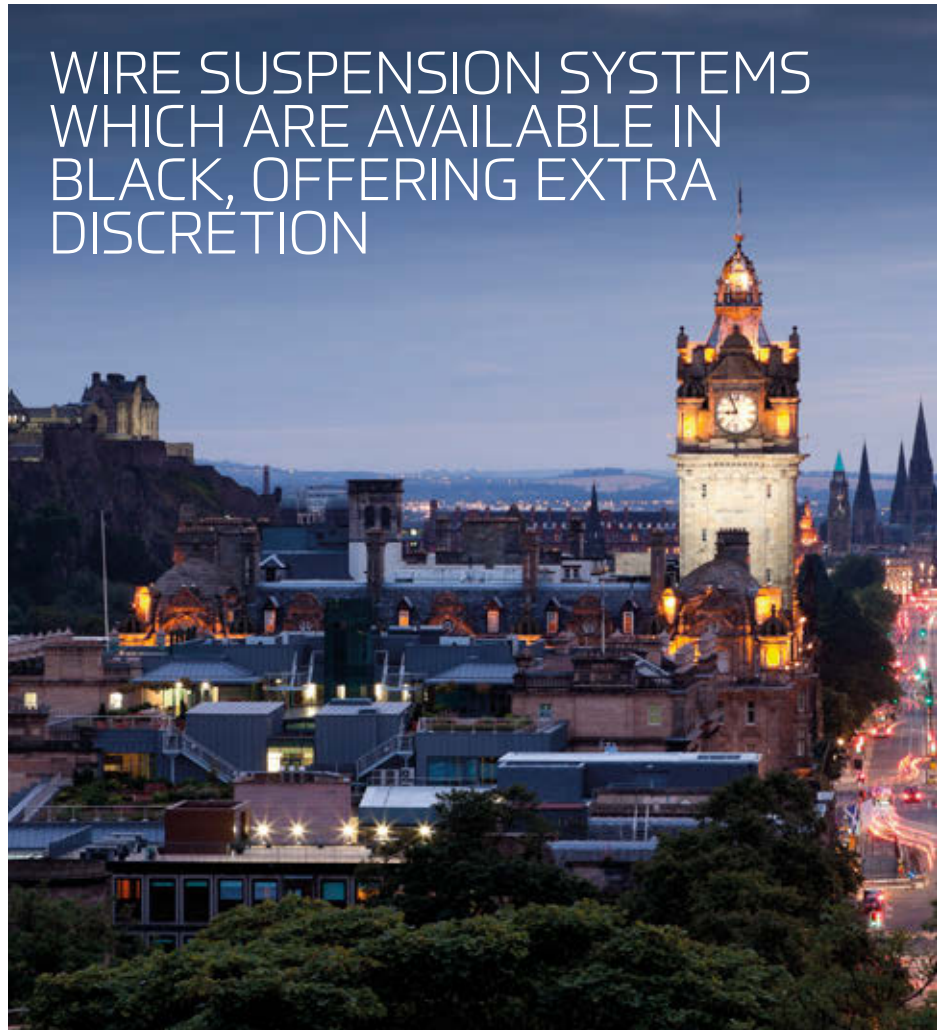


## BLACK SYSTEM

### The Installation

- Cut wire to desired length for the drop required
- Pass one end of the wire through the zip-clip in the direction of the arrow and draw through enough wire to go around your fixing point
- Pass the wire end back through the zip-clip leaving at least 15cm of free wire protruding
- At the other end again pass the wire through the zip-clip in the direction of the arrow
- Pass the free end of wire around your suspension or through your fixing and back through the zip-clip leaving 15cm of wire protruding
- Always confirm engagement of the zip-clip on the wire by pushing the pin in the opposite direction to the arrows indicated

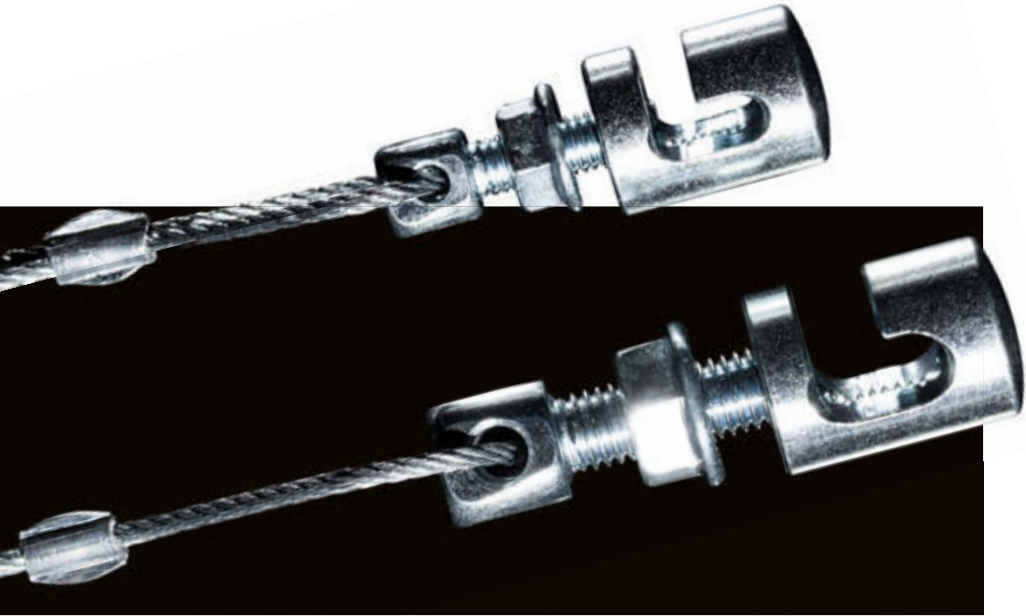
CODE	DESCRIPTION	SWL	PACK QTY
KL100BLACK	Rize KL100 Black 45kg SWL	45kg	10
R100S/BLK	100 Mtr S Black Wire Rope	45kg	1



WIRE SUSPENSION SYSTEMS WHICH ARE AVAILABLE IN BLACK, OFFERING EXTRA DISCRETION

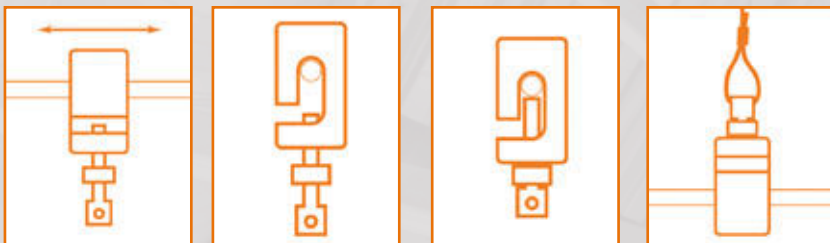


## ZIP-GRIP



### SUITABLE FOR:

- Catenary installations



### The Specifics:

Zip-Grip and Span-Lock are designed to be used in conjunction so as to create a complete catenary system. Zip-Grip is available in 1 to 10 metre lengths, with a Safe Working Load of:

- 5 35kg SWL

### The Applications

Suitable for:

- Radiant heat panels
- Fabric ducting
- Lightweight ductwork

### The Features and Benefits

- Key free release system
- Simple hook and lock system
- Ability to suspend many products, even at angles
- Easy slide for adjustment into final position
- Can be fitted retrospectively
- Can be inverted to offer extra support to the Span-Lock range
- Suitable for applications where no overhead fixing points are available

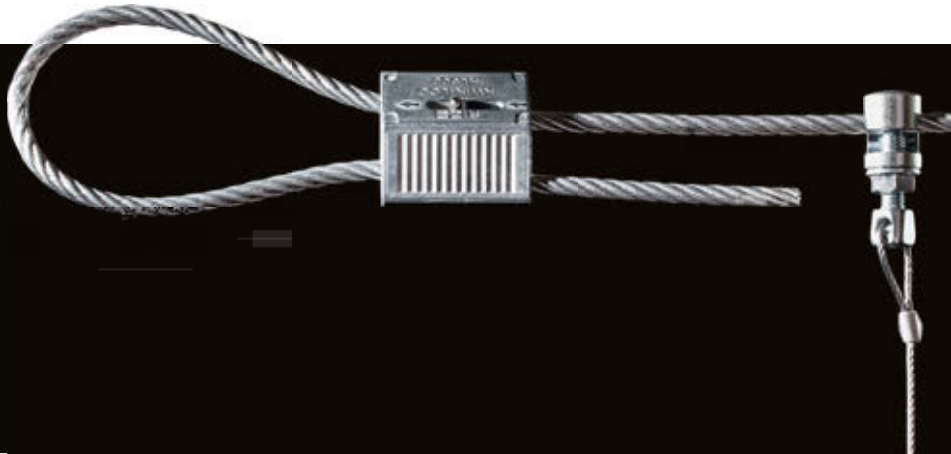


## The Installation

- Place the Zip-Grip onto the tightened horizontal catenary wire and slide into place
- Tighten the eye-bolt until engaged on the Span-Lock wire, then tighten the locking nut to secure place
- Pass the free end of the wire through the supplied zip-clip around the object to be suspended then back through the zip-clip
- Pass the wire through the zip-clip in the direction of the arrow
- Pass through or around your required suspension and back through the zipclip leaving 15cm of wire protruding
- Height can then be adjusted
- To reduce deflection in the wire the Zip-Grip can be inverted and fixed to the structure above
- Always confirm engagement of the zip-clip on the wire by pushing the pin in the opposite direction to the arrows indicated

CODE	DESCRIPTION	SWL	PACK QTY
GLS1	1 Mtr vertical suspension system M6	35kg	10
GLS2	2 Mtr vertical suspension system M6	35kg	10
GLS3	3 Mtr vertical suspension system M6	35kg	10
GLS4	4 Mtr vertical suspension system M6	35kg	10
GLS5	5 Mtr vertical suspension system M6	35kg	10
GLS10	10 Mtr vertical suspension system M6	35kg	10
GLS1/M8	1 Mtr vertical suspension system M8	35kg	10
GLS2/M8	2 Mtr vertical suspension system M8	35kg	10
GLS3/M8	3 Mtr vertical suspension system M8	35kg	10
GLS4/M8	4 Mtr vertical suspension system M8	35kg	10
GLS5/M8	5 Mtr vertical suspension system M8	35kg	10
GLS10/M8	10 Mtr vertical suspension system M8	35kg	10

## SPAN-LOCK



### SUITABLE FOR:

- Catenary installations



### The Specifics:

Span-Lock and Zip-Grip are designed to be used in conjunction so as to create a complete catenary system. Span-Lock is available in 5, 10, 15, 20, 30 and 40 metre lengths, with a choice of Safe Working Loads:

- Y 30kg SWL
- P 75kg SWL
- N 100kg SWL

### The Applications

Suitable for:

- Radiant heat panels
- Fabric ducting
- Lightweight ductwork
- Lightweight containment

### The Features and Benefits

- Key free release system
- Designed to traverse between two fixed anchor points
- Safe on-site installation, no channel cutting or hot work permit required
- Simple and easy to handle and transport
- Comes with two locking mechanisms
- Suitable for applications where no overhead fixing points are available

## The Installation

- Secure each end of the Span-Lock wire to a fixed anchor point using the zip-clips supplied
- Pass the wire through the zip-clip in the direction of the arrow
- Pass through or around your required suspension and back through the zip-clip leaving 15cm of wire protruding
- Use a tensioning tool to apply tension to the wire
- Always confirm engagement of the zip-clip on the wire by pushing the pin in the opposite direction to the arrows indicated



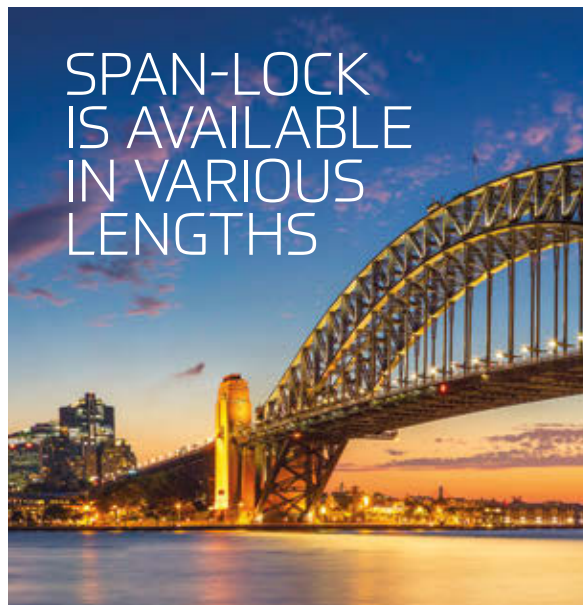
- Placing a load onto a catenary will generate a bow in the wire suspension
- Where possible, intermediate supports should be placed along the length of the catenary
- This will help decrease the deflection

Zip-Clip is able to offer a comprehensive catenary calculation service. Please contact our technical team on **+44 1686 623366** for more information.

When fixing from purlins, always consult with the purlin manufacturer to advise loading capabilities, in conjunction with using the Zip-Clip calculation service.

CODE	DESCRIPTION	SWL	PACK QTY
GLHCS5Y	5 Mtr horizontal suspension system	30kg	1
GLHCS10Y	10 Mtr horizontal suspension system	30kg	1
GLHCS15Y	15 Mtr horizontal suspension system	30kg	1
GLHCS20Y	20 Mtr horizontal suspension system	30kg	1
GLHCS30Y	30 Mtr horizontal suspension system	30kg	1
GLHCS40Y	40 Mtr horizontal suspension system	30kg	1
GLHCS5P	5 Mtr horizontal suspension system	75kg	1
GLHCS10P	10 Mtr horizontal suspension system	75kg	1
GLHCS15P	15 Mtr horizontal suspension system	75kg	1
GLHCS20P	20 Mtr horizontal suspension system	75kg	1
GLHCS30P	30 Mtr horizontal suspension system	75kg	1
GLHCS40P	40 Mtr horizontal suspension system	75kg	1
GLHCS5N	5 Mtr horizontal suspension system	100kg	1
GLHCS10N	10 Mtr horizontal suspension system	100kg	1
GLHCS15N	15 Mtr horizontal suspension system	100kg	1
GLHCS20N	20 Mtr horizontal suspension system	100kg	1
GLHCS30N	30 Mtr horizontal suspension system	100kg	1
GLHCS40N	40 Mtr horizontal suspension system	100kg	1

**Ensure a distance of at least 1.6 x the height of the beam is left between the zip-clip and the structure. Do not exceed an angle of 60°**

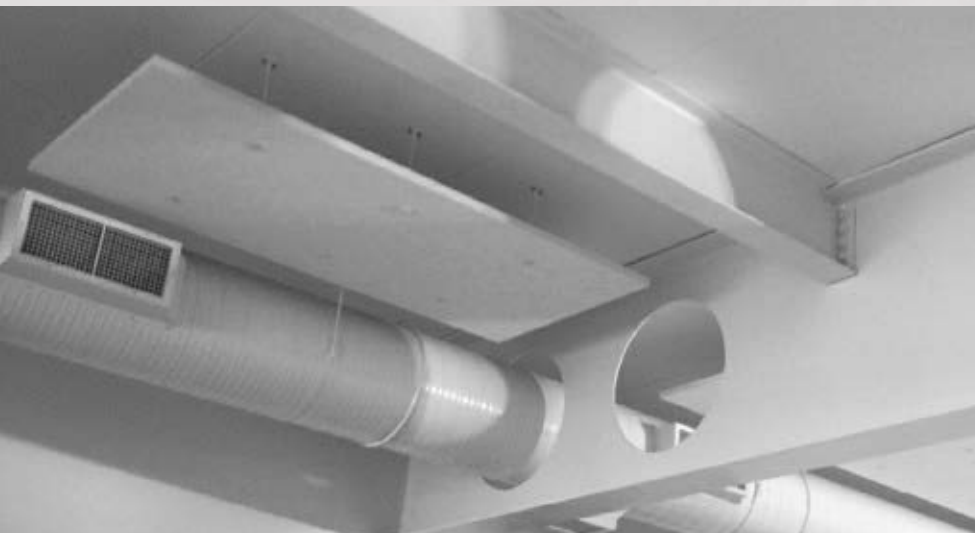


## ZIP-ROD



### SUITABLE FOR:

- Building suspensions in corrosive environments



### The Specifics:

Zip-Rods offer a method of supporting services in corrosive environments.

Thermoplastic threaded rods and accessories which can be utilised in the same way as galvanised threaded rod and bracketry

### The Applications

Suitable for lightweight HVAC installations into the following environments:

- Data centres
- Food processing
- Medical
- Chemical
- Swimming pools
- Marine

### The Features and Benefits

- Thermo Plastic Polypropylene
- High molecular weight
- Chemically/Biologically inert
- Impervious to water
- Will not crack
- Will not rot
- Does not corrode
- Does not delaminate



## The Installation

Utilise in the same way as traditional rod systems

- Cut rods to desired lengths using a saw or tin snips
- Use nuts and washers or T-nuts to fix rods to ceilings or services

CODE	DESCRIPTION	SWL	PACK QTY
PP10M1	M10 polypropylene threaded support, 1000mm	30kg	1
PP10M2	M10 polypropylene threaded support, 2000mm	30kg	1
PP10	M10 hex nut polypropylene	30kg	10
PP10TC	M10 contour head t nut connector polypropylene	30kg	10
PP10TF	M10 flat head t nut connector polypropylene	30kg	10
PP10W	M10 washer polypropylene	30kg	10

## IMPORTANT INFORMATION

Please consult with Zip-Clip Technical Department before commencing installations to ensure product is suitable for use

## H-FRAME



### SUITABLE FOR:

- Roof mounted services



### The Specifics:

The Zip-Clip H-Frame systems are designed to fit profile channel and has a cross compatibility with all channel types.

- H-Frame 700kg/SWL kit
- Base Frame 700kg/SWL kit
- Extender Frame 350kg/SWL kit

A range of roofing supports designed for heavy services without penetrating the roof membrane.

### The Applications

Suitable for:

- Roof mounted services

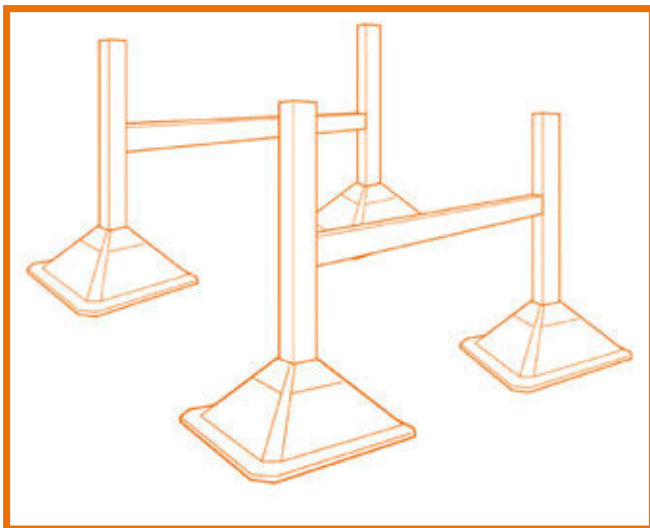
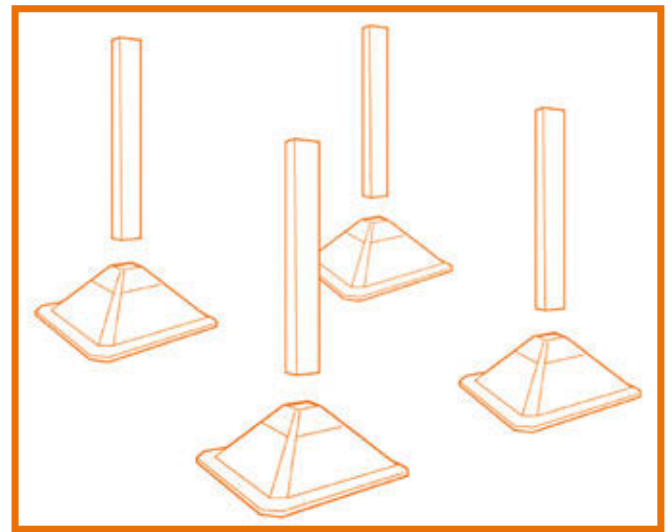
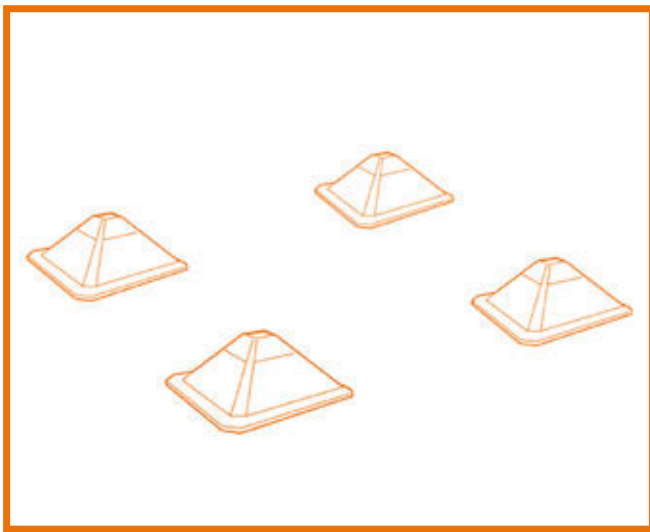
### The Features and Benefits

- No penetration of waterproof membrane
- Anti vibration pads attached to feet
- Easy to install and adapt
- High Density Polyethylene
- Each foot is made from a linear Polymer, High Density Polyethylene (HDPE) and is prepared from ethylene by a catalytic process
- HDPE is harder and more opaque and can withstand higher temperatures (120°C for short periods, 110°C continuously)



# H-FRAME

## The Installation



CODE	DESCRIPTION	SWL	PACK QTY
FRS-HF	Flexi H-Frame	700kg/kit	1 kit
FRS-BF	Flexi Base Frame	700kg/kit	1 kit
FRS-EF	Flexi Extender Frame	350kg/kit	1 kit

ACCESSORIES

CODE	DESCRIPTION	PACK QTY
CUT1	Heavy Duty Wire Cutters	1
CUT3	Heavy Duty Cutters for P Wire	1
TT1	Tensioning Tool	1
CPA1	Corner Protector	50
CPA1MAG	Magnetic Corner Protector	50
CH1	Chan-Lock Hanger	10
AC10	2 Way Screw Down Locking Device 8kg SWL 3:1 SF	10
UNI1	M6 x 20mm Universal Eyebolt with Flange Nut	10
UNI2	M6 x 45mm Universal Eyebolt with Flange Nut	10
UNI3	M8 x 25mm Universal Eyebolt with Flange Nut	10
UNI6M60	M6 x 50mm Closed Eyebolt	10
UNI8M60	M8 x 60mm Closed Eyebolt	10
UNI10M60	M10 x 75mm Closed Eyebolt	10
ATLDM6	M6 Standard Drop In Anchor	10
ATLDM8	M8 Standard Drop In Anchor	10
ATLDM10	M10 Standard Drop In Anchor	10
ATLDM6/ST	Standard Setting Tool for M6 Drop in Anchor	1
ATLDM8/ST	Standard Setting Tool for M8 Drop in Anchor	1
ATLDM10/ST	Standard Setting Tool for M10 Drop in Anchor	1
PVC100S	PVC 100M Reel x 3mm O	1
PVC100P	PVC 100M Reel x 6mm O	1
HCB1	90 degree bracket with 70mm and 5.0mm hole, 1.3mm gauge 10kg SWL	10
HCB2	90 degree bracket with 70mm and 5.0mm hole, 1.3mm gauge 50kg SWL	10
HCB3	90 Degree bracket with 6.5mm holes, 2.0mm gauge 90kg SWL	10
MA6810	Multiwedge Decking Fixing	10
MA300HEX	300mm Magnetic Bit Holder for MA6810	1
CLA1	Universal Concrete Anchor	50
CLA2	Concrete Spike	50
T920514	Vertical Flange Clip 1-5mm	10
T920515	Vertical Flange Clip 5-7mm	10
HCBP1	Shot Fired Fastener for Concrete and Steel	100
SFN19	19mm Ballistic Point Nail	100
SFN27	27mm Ballistic Point Nail	100
SFSCG	Powder Actuated Cartridge – Low Power	100
SFSCY	Powder Actuated Cartridge – Medium Power	100
SFSCR	Powder Actuated Cartridge – High Power	100



## PREFABRICATIONS

### Specialist Applications

Zip-Clip Ltd is renowned for its unique problem solving solutions. Over the past number of years we have designed and developed a range of systems tailored to overcome troublesome applications. With our highly trained technical managers and our extensive knowledge of the fixings market we can confidently design a solution for your requirements. Examples of our abilities are as below:

### Tunnel Solution

A solution was found for the Hatfield and Hindhead road tunnels for the suspension of a linear heat detection

cable. The solution was required as the linear cable did not travel in a straight line due to the ventilation and lighting equipment in its path. Zip-Clip were able to develop a bespoke low carbon stainless steel solution designed for this harsh environment that could be installed quickly with minimum disruption.

### Internally Cladded Buildings

With the increasing number of internally cladded buildings being specified, finding a suitable anchor point is not always possible. Zip-Clip designed a solution for the Pirelli Tyre Distribution Centre in Burton-on-Trent by utilising a unique self tapping anchor which did not affect the integrity of the cladding.

Zip-Clip is able to provide special products for many applications:

- Seismic areas
- Christmas decorations
- Acoustic supports
- Pest control
- Museum installations

Each drawing is tailored for specific needs. A unique number is attributed to each drawing, allowing ease of re-ordering and product continuity.



## SPECIFICATIONS

### CALCULATION SERVICES

Zip-Clip are able to offer a free of charge drawing calculation service

**Step 1:** E-mail your drawing to [info@zip-clip.com](mailto:info@zip-clip.com)

**Step 2:** Our technical department will contact you with a few simple questions

**Step 3:** A full recommendation and quotation will follow. A unique project drawing number will be issued for reference.

The Zip-Clip Drawing Calculation Service is proving to be a big success with contractors.

### ON-SITE PULL TESTS: Proof Loaded Testing:

To add peace of mind to our already independently tested systems we offer an on-site pull test which will be validated and certified by CFA . With so many variants in concrete (ie flint, pebbles...), this unique free service is very reassuring.

### SPECIALIST SUPPORT BRACKETS

Zip-Clip have developed a number of specialist brackets to enable the installer to suspend both HVAC and M & E services as quickly as possible. Zip-Clip designed these systems to not only speed up installations but also to reduce the need for assembly on site. These support brackets can also be used in conjunction with modular designed systems.

### Pipe Bracket:

This can be designed to your specification for suspending both pipe work and cable tray from one anchor point

### Brace Bracket:

This bracket can be used as a primary installation or as a retrofit solution. The brackets can be used in conjunction with a choice of anchors.



# SPECIFICATIONS

## WIRE ROPE

### Galvanised wire

WIRE CODE	MBL OF WIRE	CONSTRUCTION	TENSILE STRENGTH
G	78kg	7x7 (6/1) RHRL	1960N/mm <sup>2</sup>
S	290kg	7x7 (6/1) RHRL	1960N/mm <sup>2</sup>
Y	645kg	7x7 (6/1) RHRL	1960N/mm <sup>2</sup>
P	1240kg	7x19 (6/1) RHRL	1960N/mm <sup>2</sup>
N	2804kg	7x19 (6/1) RHRL	1960N/mm <sup>2</sup>

### Stainless Steel Wire

WIRE CODE	SWL	GRADE
G	8kg	AISI316
S	45kg	AISI316
Y	100kg	AISI316
P	200kg	AISI316
N	450kg	AISI316

### Angular Performance

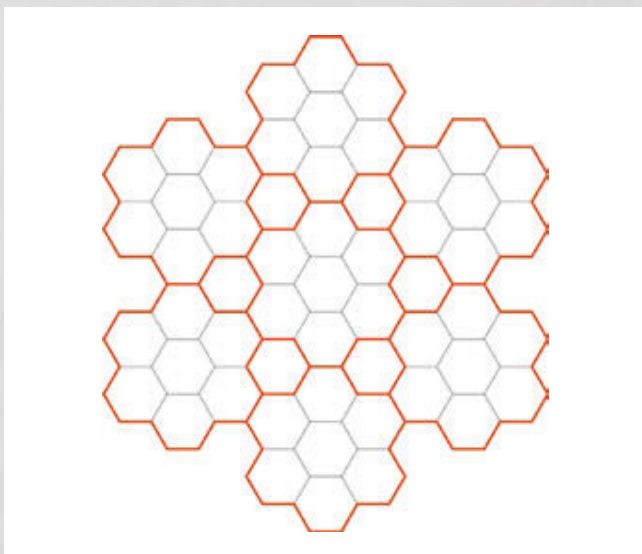
The table below shows the effect on the Safe Working Load when working at an angle from the vertical

WIRE CODE	VERTICAL	15°	30°	45°	60°
G	10kg	9.6kg	8.6kg	7kg	5kg
S	50kg	48kg	43kg	35kg	25kg
Y	120kg	115.2kg	103.2kg	84kg	60kg
P	300kg	288kg	258kg	210kg	150kg
N	500kg	480kg	430kg	350kg	250kg
LOAD	100%	96%	86%	70%	50%

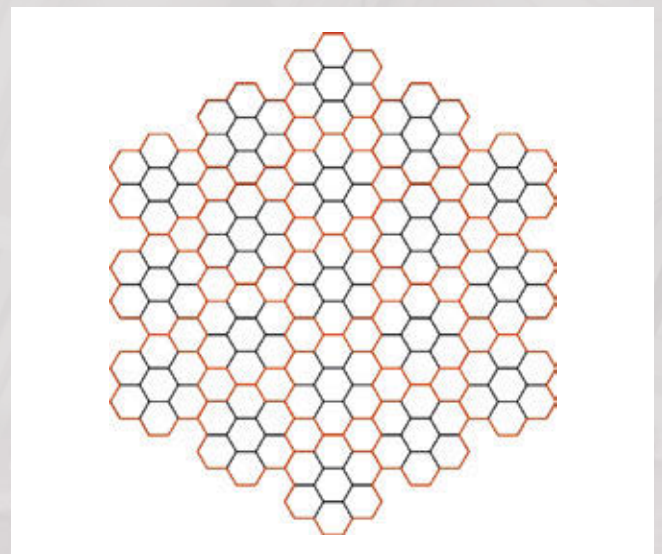
The high tensile wire we supply is galvanised and manufactured to the highest standards incorporating a 7 x 7 and 7 x 19 construction, meeting the BSEN 12385 standard.

BSMA 29/1983 standard also meeting the AISI 3136 requirements

The diagram below shows the construction of the 7x7 wire braids



The diagram below shows the construction of the 7 x 19 wire braids



## SPECIFICATIONS

### ZIP-CLIPS

#### PHYSICAL PROPERTIES

Density	6,700kg/m <sup>3</sup> at 21°C
Solidification Shrinkage	1.17%
Casting Shrinkage	0.6% (pressure diecasts)
Freezing Range	-381 to -387°C
Melting Point	400 to 420°C
Specific Heat Capacity	418.1 J/kg/°C at 20 to 100°C
Thermal Expansion	27 10 (-6) linear per °C at 20 to 100°C
Thermal Conductivity	108.9 W/m/hr/m <sup>2</sup> /°C at 70 to 140°C
Electrical Conductivity	26% IACS
Electrical Resistivity	6.5359 um ohm cm at 20°C

#### MECHANICAL PROPERTIES

	As Cast	Aged
Tensile Strength (MPa)	328	269
Shear Strength (MPa)	262	-
Elongation (% in 51mm)	7	13
Hardness (Brinell – 500kg)	91	80
Impact Strength (Energy, Joules)	65.1	54.2
Fatigue Strength 5 x 10 cycles (MPa)	56.5	-

#### TYPICAL ANALYSIS – ALLOYING ELEMENTS

Aluminium	4%
Copper	1%
Magnesium	0.05%

#### TYPICAL ANALYSIS – IMPURITIES

Iron	< 0.01%
Lead	< 0.003%
Cadmium	0.003%
Tin	< 0.001%
Nickel	< 0.001%
Silicon	< 0.01%



# ENVIRONMENTAL POLICY

Zip-Clip Ltd recognizes that its activities impact on the environment at local, regional and global levels and acknowledges a responsibility for the protection of the environment and of the health and safety of its employees and the wider community.

## ZIP-CLIP LTD IS COMMITTED TO:

- Promoting the protection of the environment and minimizing the impact of all its activities upon each of the local, regional and global environments both directly and through its influence on others.
- Contributing to a sustainable and healthy future by conserving natural resources and by minimizing avoidable waste and pollution.
- Reducing the use of fossil fuels through improvements to energy efficiency and the substitution of renewable energy resources.
- Developing effective waste management and recycling procedures and using recycled and recyclable materials where possible.
- Increasing awareness of environmental responsibilities amongst staff.

## TO ACHIEVE THESE GOALS WE WILL:

- Educate and train staff in environmental matters as appropriate.
- Progressively reduce the amount of waste generated.
- Market products, which create a minimum environmental damage, and use its purchasing to influence to:
  - Promote production of such products.
  - Ensure that all public communications are true and unambiguous.
  - Respect the interests of neighbours and the world community.
  - Review our policies as an ongoing matter.





STRENGTH | SUSPENSION | STYLE

## A FUSION OF **ENGINEERING** AND **DESIGN**

YOU'RE IN GOOD COMPANY...  
ALFA ROMEO, AMAZON, ASDA,  
B SKY B, B&Q, DALLAS COWBOYS  
STADIUM, FERRARI, HARRY  
POTTER STUDIOS, HITACHI,  
IKEA, JAGUAR/LAND ROVER,  
JOHN LEWIS, KPMG, LONDON  
2012 OLYMPICS, MALL OF THE  
EMIRATES, MARKS & SPENCER,  
MORRISONS, NATURAL HISTORY  
MUSEUM, PRETTY GREEN, ROLLS-  
ROYCE, ROYAL LONDON HOSPITAL,  
SELFRIDGES, SKI DUBAI, TESCO,  
TOPMAN & WAITROSE.

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