



SAFETY | SUSPENSION | SPEED

# TECHNICAL CATALOGUE





## ***ZIP-CLIP - A GLOBAL BRAND***

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Wrap - around



Concrete



Decking



Purlins



Service Supports



Timber



Catenary

# ABOUT ZIPCLIP

## WHO IS ZIP-CLIP?

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

## WHAT IS IT?

It is a range of innovative products designed for speed and ease of use. The 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 off site by NEL/TUV, MELBTEST, NATA, SATRA, Lloyds British 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)

## THE PROFESSIONAL CHOICE

Zip-Clip has created a "Professional Choice" range of suspension systems all of high specification. You can easily spot this range of products throughout the Zip-Clip catalogue thanks to the Professional Choice symbol.



## **WHAT ARE THE ADVANTAGES OF USING A ZIP-CLIP WIRE SYSTEM?**

Using a wire rope suspension system provides many advantages:

- Key free release system
- 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: threaded rod has a vibration absorption of 50%, whereas wire rope hangers absorb vibration in excess of 75%.
- Reduced labour cost
- Reduced risk of injury
- Aesthetical
- Reduces individual components (ie nuts, washers, square plates, rod...)
- Reduces impact on the environment

## **WHERE CAN I USE A WIRE SYSTEM?**

### HVAC AND MECHANICAL

- Spiral Ducting
- Rectangular Ducting
- Radiant Heat Panels
- Fan Coil Units
- Chilled Beams
- Gas pipes
- Water Pipes

### SPECIALIST

- Seismic areas
- Christmas decorations
- Accoustic supports
- Pest control
- Museum installations
- Exhibition installations
- Retail displays
- Stainless Solutions

### ELECTRICAL

- Luminaires
- Busbar
- Cable Basket
- Cable Ladder
- Trunking
- High Bays
- CCTV Cameras
- Secondary Support
- Sound Systems

## **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 damaged cable end prior to inserting into the clip

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.

# HOW IT WORKS

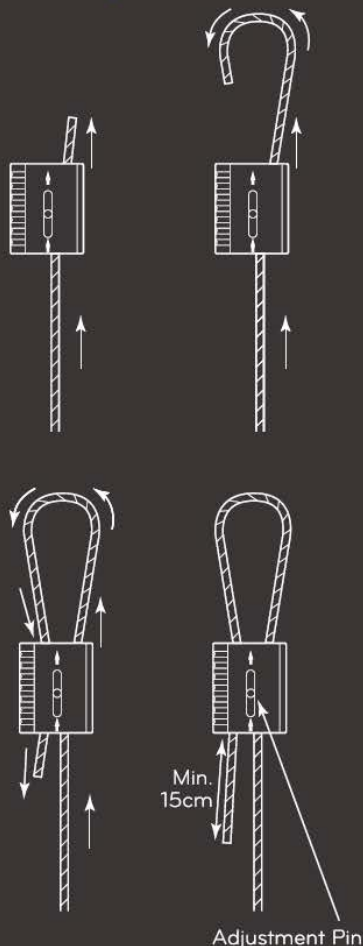
- Pass the wire through the zip-clip
- Loop the wire through or around the anchor point
- Pass the wire back through the zip-clip allowing 15cm of wire protruding
- Apply tension
- Always confirm engagement of the zip-clip on the wire by pushing the pin in the opposite direction of the arrows indicated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

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

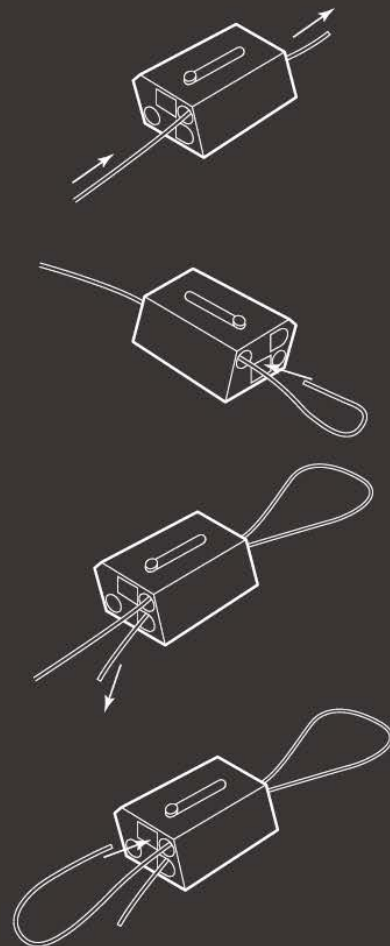
- Pass the wire into the "through hole" in the KL200 and then around your fixing or anchor point. Pass the wire end now through the locking channel in the KL200 and pull through 15cm of free wire
- Pass the other end of the wire through your bracket or around your suspension and back through the locking channel again, 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 and the KL200 zip-clip, 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 on 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.

## THE KL50, KL100 & KL150



## THE KL200



# PRODUCT SELECTOR

		WRAP AROUND APPLICATIONS	CONCRETE APPLICATIONS	DECKING APPLICATIONS	PURLINS	TIMBER AND OTHER SUBSTRATES	SERVICE SUPPORTS	CATENARY SYSTEMS
8-9	Rize	●						●
10-11	Zip-Lock	●						
12-13	Con-Lock		●					
14-15	Thread-It		●	●	●			
16-17	Dec-Lock			●				
18-19	Knock-It				●			
20-21	Toggle-It			●			●	
22-23	Snap-It				●		●	
24-25	Uni-Lock					●		
26-27	Shot-Lock		●	●				
30-31	Try-Lock						●	
32-33	Luma-Lock						●	
34-35	Y-It						●	
36-37	Zip-Grip							●



Wrap - around



Concrete



Decking



Purlins



Service Supports



Timber



Catenary



## THE SPECIFICS

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

- S 50kg SWL
- Y 120kg SWL
- P 230kg SWL

## THE APPLICATIONS

- Wrap around applications
- Suitable for use with a wide range of fixing brackets including: UNI1, UNI2, UNI3, CLA1, MA6810, T920514
- Cold Room Ceilings
- Trapeze Brackets
- Available with stainless steel wire for specialist applications

## THE TECHNICAL INFORMATION

- Key free release system
- No pre-site visits required
- Ideal for long drop lengths
- 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

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

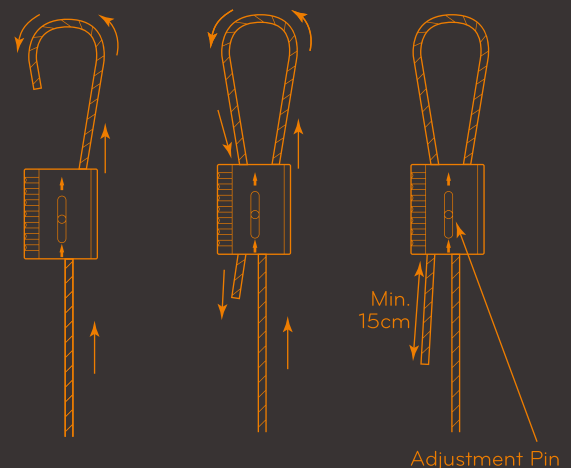
The Installation:

- Unscrew the M4 locking nut and bolt until the adjustment pin is pushed back fully.
- Pass one end of the wire through the zip-clip in the direction of the arrow and draw enough wire to 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

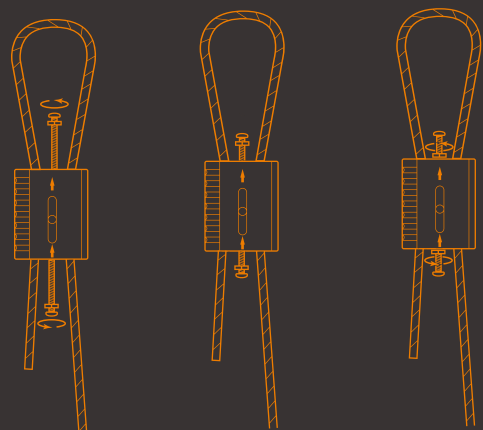
## THE INSTALLATION

- 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

### STANDARD CLIP



### LOCKABLE CLIP





# THE RANGE

The range consists of wire reels and zip-clips with a choice of Safe Working Loads (SWL).



## RIZE



PRODUCT CODE	DESCRIPTION	SWL	PACK QTY.
KL100	Rize KL100 50kg SWL	50kg	10
R100S	100 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 SWL	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 230kg SWL	230kg	10
R100P	100 Mtr P Wire Reel	230kg	1
R100P/SS	100 Mtr Stainless Steel AISI 316 P Wire Reel	200kg	1



KL100



KL150



KL200



KL600\*



KL100LOK\*



KL150LOK\*



KL200LOK\*



KL600LOK\*

\* Items available through special order



# ZIP-LOCK



## 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 with a friction free eye termination.

## THE APPLICATIONS

Suitable for wrap around installations including:

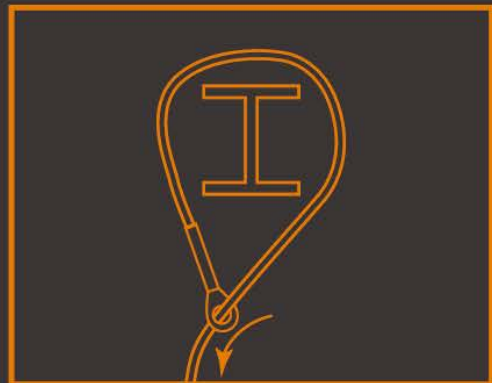
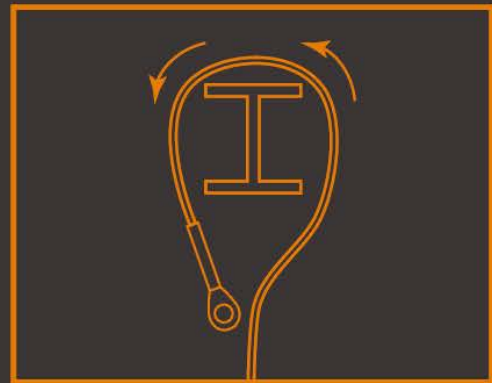
- Beams
- Purlins
- Roof Trusses
- And all other existing features

## THE TECHNICAL INFORMATION

- Key free release system
- Precision Swaged Eye
- Frictionless system – No wire on wire
- Simple to use
- DW144 approved
- Trivalent zinc and clear galvanised
- 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 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 arrow's indicated



# THE RANGE

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



## ZIP-LOCK



PRODUCT CODE	DESCRIPTION	SWL	PACK 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
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
ZLY5	5 Mtr eye suspension system	120kg	5
ZLY10	10 Mtr eye suspension system	120kg	5



# CON-LOCK



## 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 with a CLA1 concrete anchor termination.

## THE APPLICATIONS

Suitable for concrete applications including:

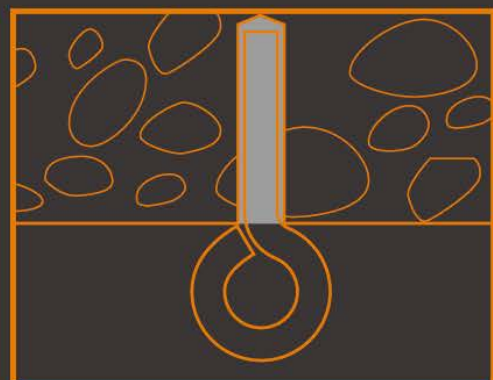
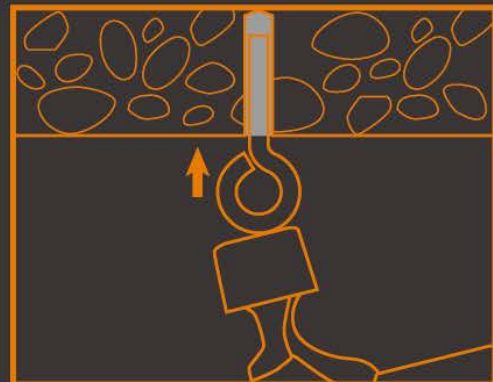
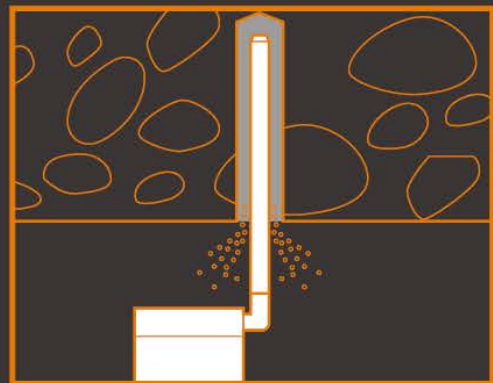
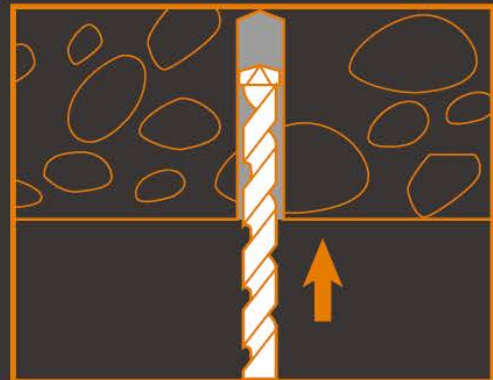
- Cracked concrete
- Reinforced concrete
- Slagged concrete
- Hollow pot

## THE TECHNICAL INFORMATION

- 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 clip 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

## 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



BS8539 Compliant

# THE RANGE

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



## CON-LOCK



PRODUCT CODE	DESCRIPTION	SWL	PACK 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
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
CLY5	5 Mtr concrete suspension system	90kg	5
CLY10	10 Mtr concrete suspension system 1	90kg	5



# THREAD-IT



## THE SPECIFICS

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

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

The system consists of wire and zip-clip with a M8 threaded termination.

## THE APPLICATIONS

Suitable for:

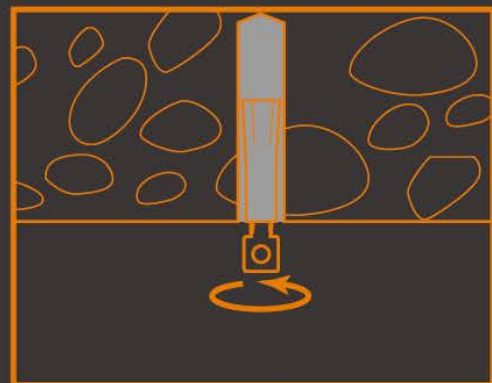
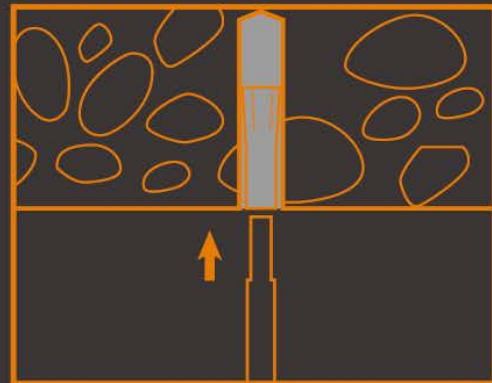
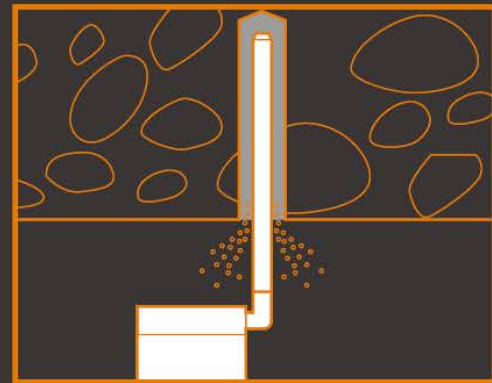
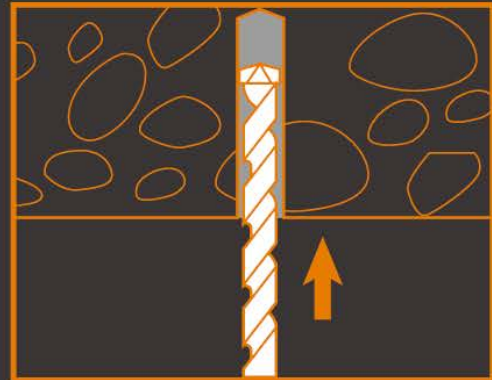
- Concrete
- Lindapter wedges
- Busbar
- Lighting trunking
- Ducting
- Cable management
- Signage

## THE TECHNICAL INFORMATION

- Key free release system
- Comes with 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

- For use in concrete, ensure that the drop in anchor is correctly fixed then thread the 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



# THE RANGE

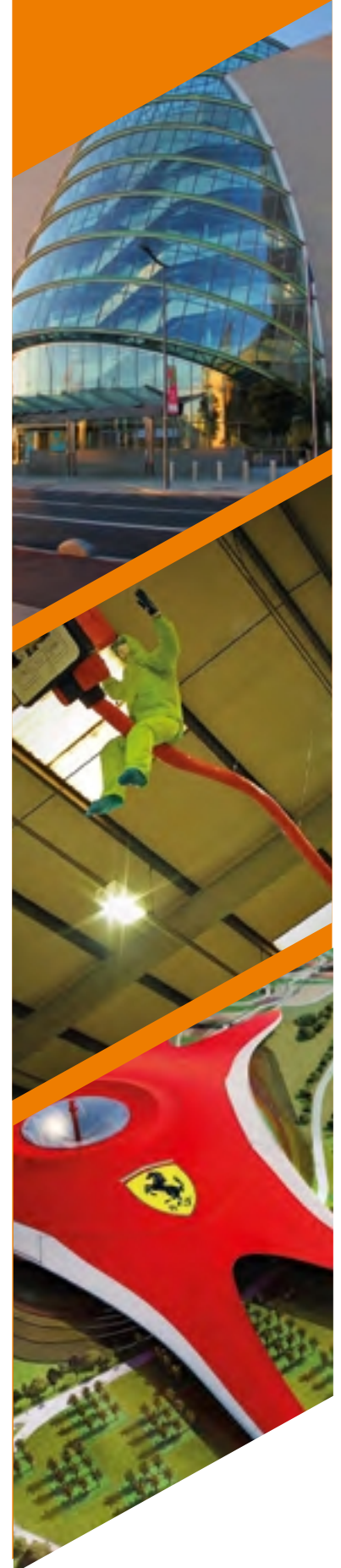
The system consists of wire and zip-clip with an M8 threaded termination.



## THREAD-IT



PRODUCT CODE	DESCRIPTION	SWL	PACK QTY.
PLTRK1S/M8X25	1 M standard M8x25 threaded suspension system	45kg	10
PLTRK2S/M8X25	2 M standard M8x25 threaded suspension system	45kg	10
PLTRK3S/M8X25	3 M standard M8x25 threaded suspension system	45kg	10
PLTRK5S/M8X25	5 M standard M8x25 threaded suspension system	45kg	10
PLTRK10S/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
PLTRK5Y/M8X25	5 M standard M8x25 threaded suspension system	90kg	5
PLTRK10Y/M8X25	10 M standard M8x25 threaded suspension system	90kg	5



# DEC-LOCK



## 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

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

## THE APPLICATIONS

Suitable for decking applications including:

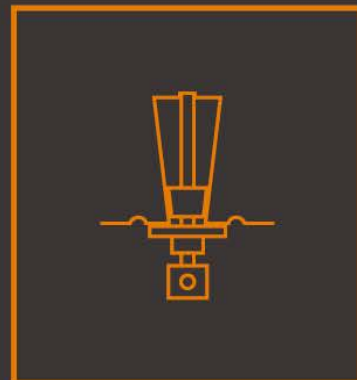
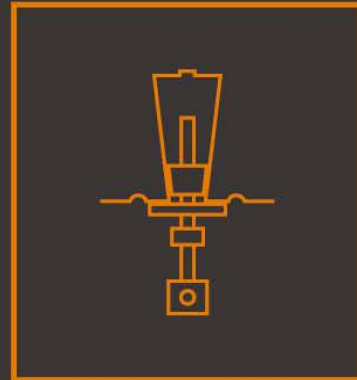
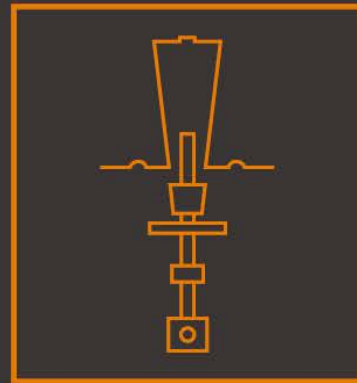
- Kingspan Structural Products
- Structural Metal Decks (SMD) and other steel decking manufacturers

## THE TECHNICAL INFORMATION

- 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





# THE RANGE

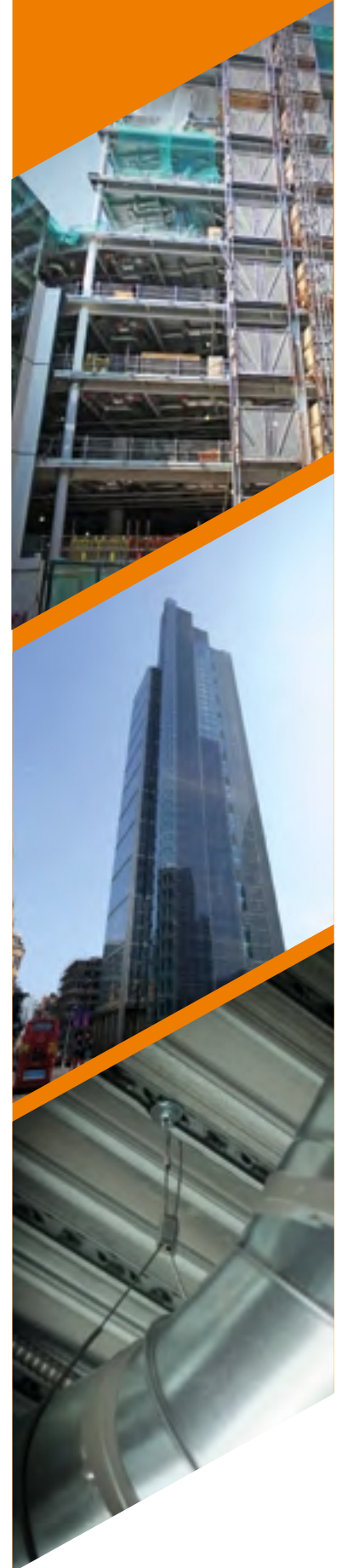
The system consists of wire and zip-clip with a decking fixing termination.



## DEC-LOCK



PRODUCT 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
DLS5	5 Mtr decking suspension system	50kg	10
DLS10	10 Mtr decking suspension system	50kg	10



# KNOCK-IT



## 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

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

## THE APPLICATIONS

Knock onto purlin

Suitable for:

- Lighting
- Plenum boxes
- Chilled Beams
- Radiant heat panels
- Metal cladding
- Thin tin roofs
- Cable tray
- Accoustic boards



## THE TECHNICAL INFORMATION

- Key free release system
- Available with both 1-5mm purlin 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 arrow's indicated

# THE RANGE

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



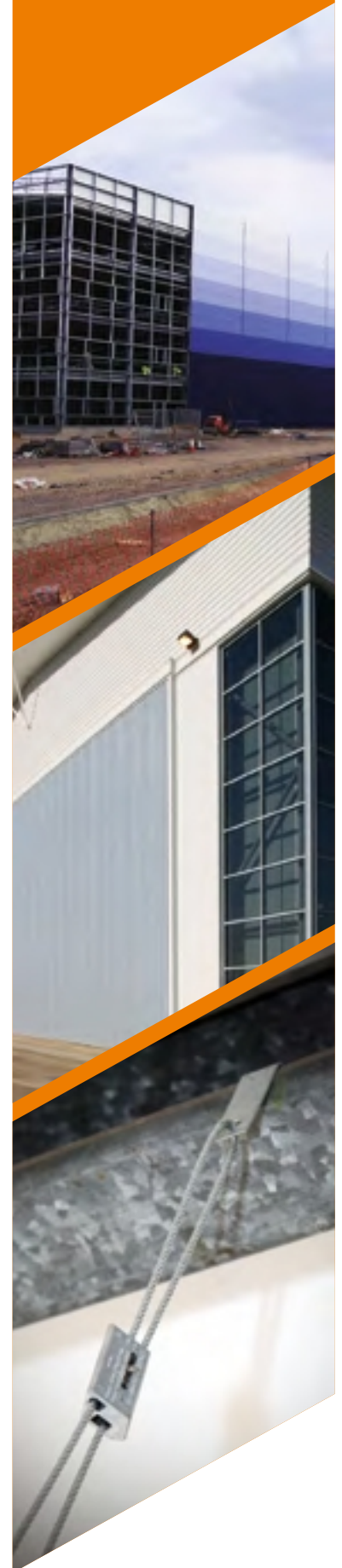
## KNOCK-IT



PRODUCT 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
VLS5	5 Mtr standard 1-5mm decking suspension system	35kg	10
VLS10	10 Mtr standard 1-5mm decking suspension system	35kg	10

Please ensure the loadings are within the purlin manufacturers Guidelines.

If a higher loading is required please refer to our wrap around systems.



# TOGGLE-IT



## THE SPECIFICS

The range consists of a predetermined 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 with a toggle termination.

## THE APPLICATIONS

Suitable for:

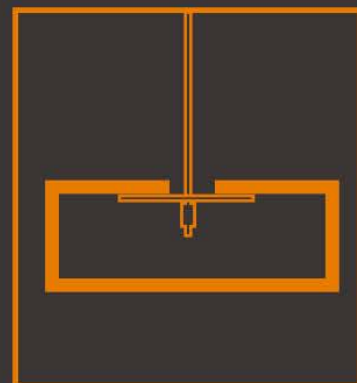
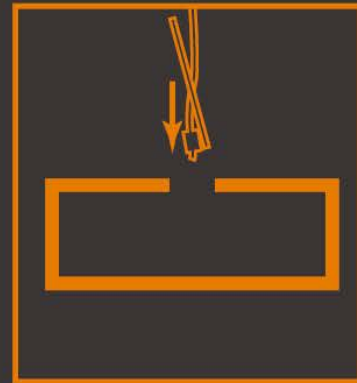
- Lighting
- Plenum boxes
- Chilled beams
- Radiant heat panels
- Metal cladding
- Thin tin roofs
- Cable tray
- Acoustic boards

## THE TECHNICAL INFORMATION

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

## 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



# THE RANGE

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



## TOGGLE-IT



PRODUCT 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
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
PTE5YK	5 Mtr standard toggle suspension system	90kg	5
PTE10YK	10 Mtr standard toggle suspension system	90kg	5



# SNAP-IT



## 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 with an eyelet carabiner termination.

## THE APPLICATIONS

Suitable for:

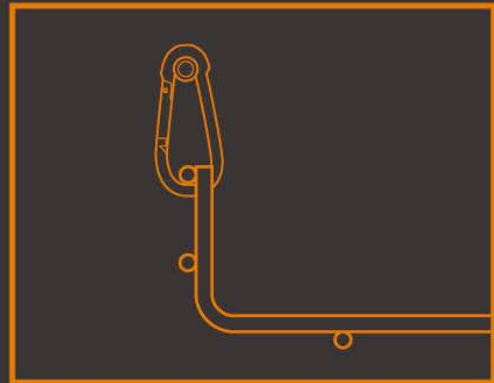
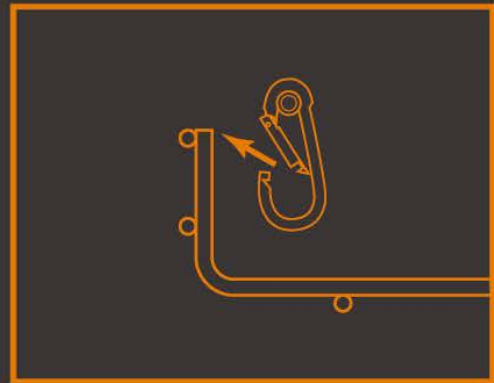
- Snapping onto purlin hangers
- Chilled beams
- Lighting
- Heating panels
- Signage
- Attaching to existing structures

## THE TECHNICAL INFORMATION

- Key free release system
- Simple to use
- 5 x 50 on S range and 6 x 60 on Y range BZP carabiner hook
- Eyelet prevents accidental un-hooking 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



# THE RANGE

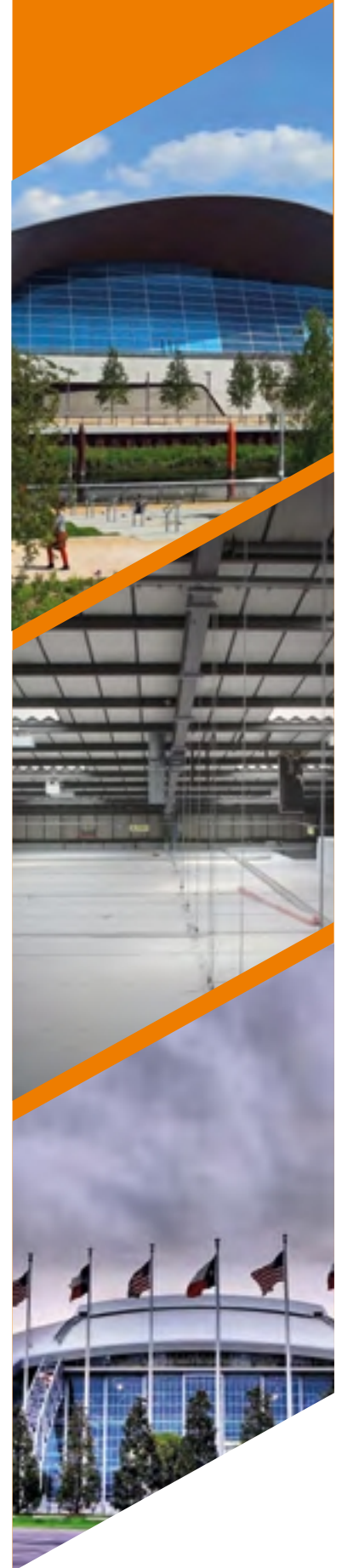
The system consists of wire and zip-clip with an eyelet carabiner termination.



## SNAP-IT



PRODUCT 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
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
PSEK5Y	5 Mtr standard eyelet carabiner suspension system	90kg	5
PSEK10Y	10 Mtr standard eyelet carabiner suspension system	90kg	5



# UNI-LOCK



## 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

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

## THE APPLICATIONS

Suitable for:

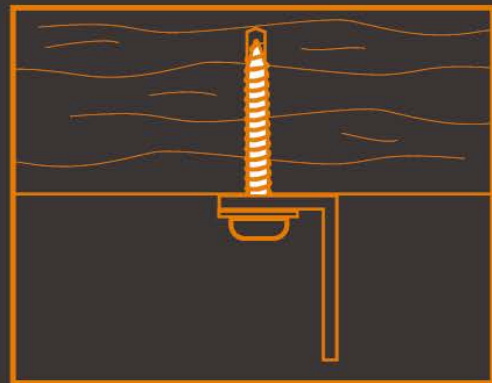
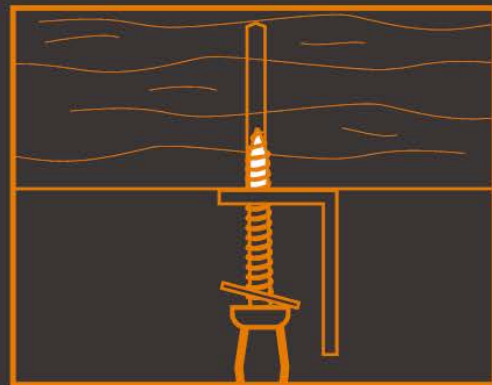
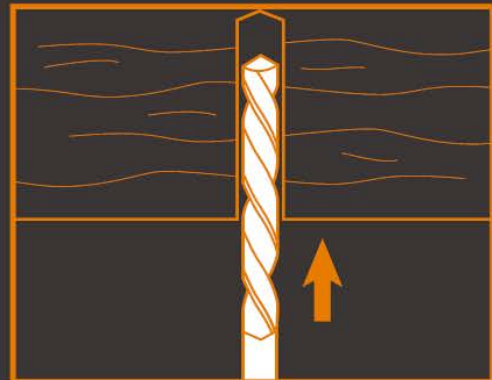
- Concrete Slab
- Metal decking and other steel structures
- Wooden structures

## THE TECHNICAL INFORMATION

- Key free release system
- Suitable for both plug and screw and shot fire applications
- Tear drop shape allows for wire to rotate through 180° in the bracket for angled applications
- Wire rotation reduces pressure on the nail when service is not directly below anchor point
- Trivalent zinc and clear galvanised
- 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





# THE RANGE

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



## UNI-LOCK



PRODUCT 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
ULS5	5 Mtr angle bracket suspension system	50kg	10
ULS10	10 Mtr angle bracket suspension system	50kg	0



# SHOT-LOCK



## 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 25kg

The system consists of wire and zip-clip with a shot fire termination complete with a ballistic point.

## THE APPLICATIONS

Suitable for fixing substrates including:

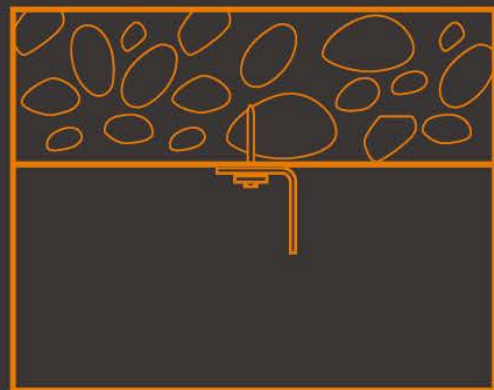
- Concrete slab
- Profile steel decking
- Steel Beams. SFN19 metal nail required

## THE TECHNICAL INFORMATION

- Key free release system
- Available in single or double wire drop
- Eliminates drilling
- Tear drop shape allows for wire to rotate through 180° in bracket for angled applications
- Wire rotation reduces pressure on nail when service is not directly below anchor point
- Ballistic point nail compatible with a range of Powder Actuated Tools (PAT)
  - » Hilti DX460
  - » Hilti DXA40
  - » Hilti DXA41
  - » Hilti DX351
  - » Spit P200
  - » Spit P370
  - » Iccons PX375
  - » Powers PA3500EX
- High tensile galvanised wire 1960 N/mm<sup>2</sup> grade 7 x 7 construction
- BSEN 12385 Standard

## 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 manufacturers' 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



# THE RANGE

The system consists of wire and zip-clip with shot fire termination complete with a ballistic point.



## SHOT-LOCK



PRODUCT 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
SLPS5	5 Mtr shot fire suspension system	25kg	10
SLPS10	10 Mtr shot fire suspension system	25kg	10



# PLUS ON-WIRE



## THE SPECIFICS

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

- 90kg SWL (concrete anchor)
- 100kg SWL (loop fixing)
- Locking C-Clip
- C-Clip to prevent upward movement
- High tensile wire rope 1-10m
- Red safety cap

The system consists of wire and plus clip with either a loop or concrete anchor termination

## THE APPLICATIONS

Suitable for supporting:

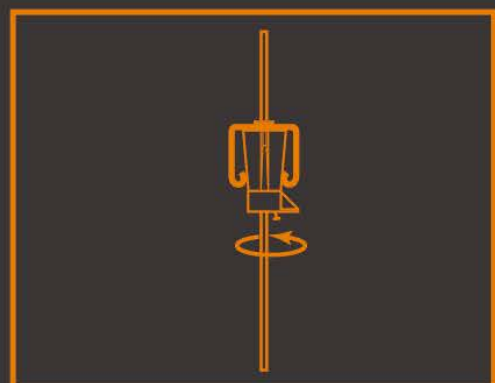
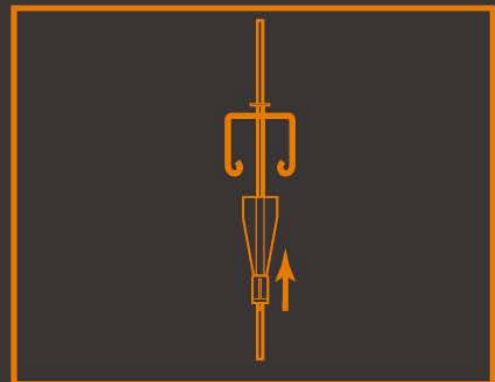
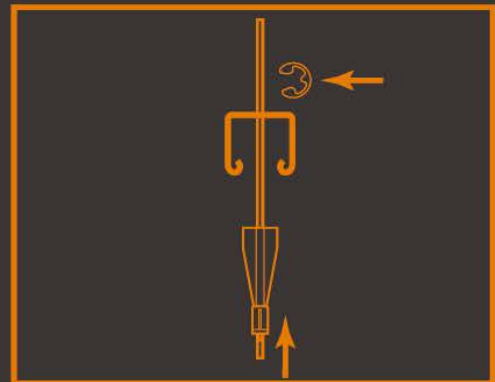
- Heavy duty single and multi-tier trapeze brackets
- Modular Systems
- Rectangular Ducting
- Ladder Rack

## THE TECHNICAL INFORMATION

- 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 or drill your end into or around your chosen anchor point
- Position, if required, the C-Clip onto your wire
- Position plus clip into channel and slide the wire through the clip
- To adjust simply remove the C-Clip and release the load from the Plus clip by pushing the clip up the wire. Then simply pull down on the release key at the same time



# THE RANGE

The system consists of wire and plus clip with either a loop or concrete anchor termination. Designed for heavy duty trapeze brackets.



## PLUS ON-WIRE



PRODUCT 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
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
PLR5C	5 Mtr concrete suspension system	90kg	5
PLR10C	10 Mtr concrete suspension system	90kg	5



# TRY-LOCK



## 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:

- S 50kg

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

## THE APPLICATIONS

Suitable for suspending containment and bracketry:

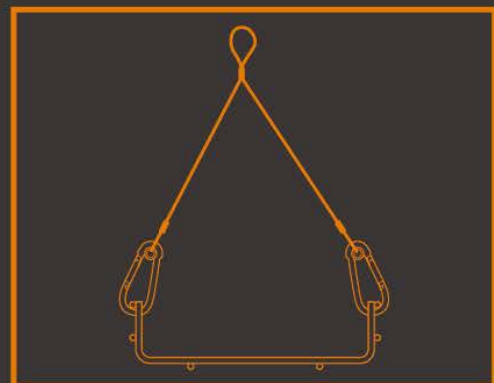
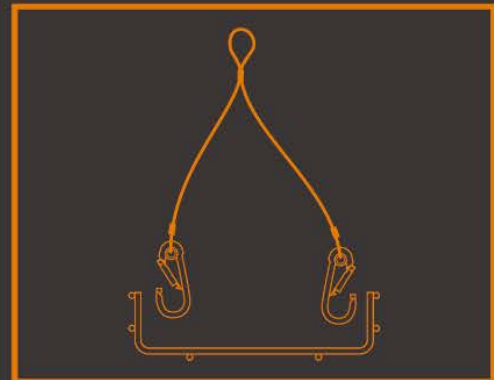
- Cable Basket
- Cable Tray
- Channel Supports
- Chilled Beams
- Radiant Heat Panels

## THE TECHNICAL INFORMATION

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

## THE INSTALLATION

- The attachment of the Try-Lock system can be done at ground level
- Clip the carabiner to one side of the basket or cable tray
- Clip the other carabiner to the other side of the basket or cable tray
- 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



# THE RANGE

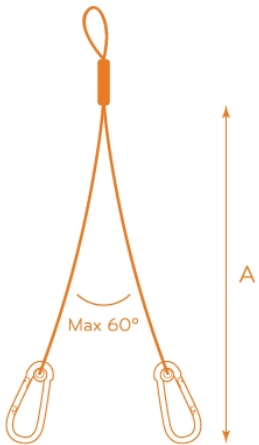
Service support to be used in conjunction with RIZE, Zip-Lock, Con-Lock, Dec-Lock, Shot-Lock and Uni-Lock, reducing the use studding and channel



## TRY-LOCK



PRODUCT 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



TRS50-200 A = 300mm  
 TRS300-400 A = 460mm



# LUMA-LOCK



## 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:

- S 35kg SWL

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

## THE APPLICATIONS

Suitable for primary and secondary support for suspending:

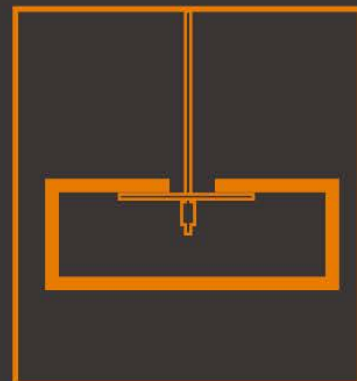
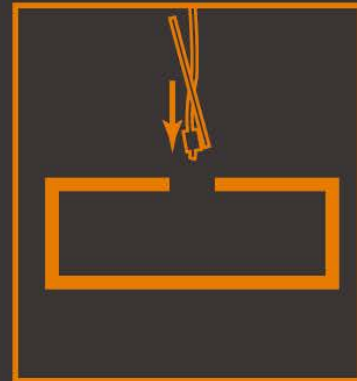
- Lighting Fittings
- Heat Panels
- Plenum Boxes
- Basket, Ladder and Tray

## THE TECHNICAL INFORMATION

- 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





# THE RANGE

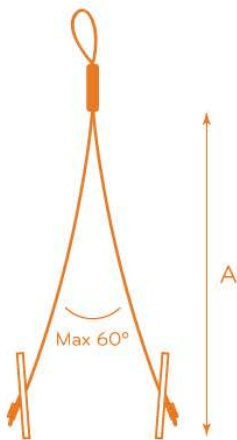
Service support to be used in conjunction with RIZE, Zip-Lock, Con-Lock, Dec-Lock, Shot-Lock and Unit-Lock, reducing the use studding and channel



## LUMA-LOCK

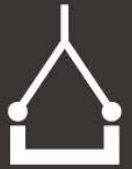


PRODUCT CODE	DESCRIPTION	SWL	PACK QTY.
LUM50-200	Toggle suspension system suitable for spans of 50-200mm	10kg	10
LUM300-400	Toggle suspension system suitable for spans of 300-400mm	10kg	10
LUM600	Toggle suspension system suitable for spans of 600mm	10kg	10



- LUMG50-200 A = 300mm
- LUMG300-400 A = 460mm
- LUMG600 A = 550mm
- LUM50-200 A = 300mm
- LUM300-400 A = 460mm
- LUM600 A = 550mm





## 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:

- Cable basket
- Cable tray
- Channel supports
- Chilled beams
- Radiant heat panels

Toggle end:

- Lighting fittings
- Heat panels
- Plenum boxes
- Basket, ladder and tray

## THE TECHNICAL INFORMATION

- 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

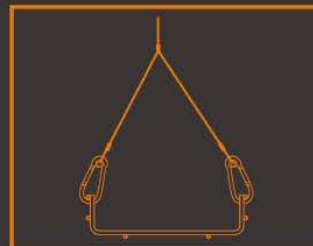
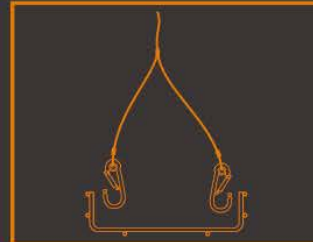
## THE INSTALLATION

Installing the carabiners:

- Clip one carabiner to one side of the basket or tray to be suspended
- Clip the other carabiner to the other side of the basket or tray

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 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



# THE RANGE

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



## Y-IT



PRODUCT 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



# ZIP-GRIP



## THE SPECIFICS

Span-Lock and Zip-Grip 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 choice of Safe Working Loads:

- S 35kg SWL
- Available in M6 to fit Y and P Span-lock range and M8 to fit the N range

## THE APPLICATIONS

Suitable for:

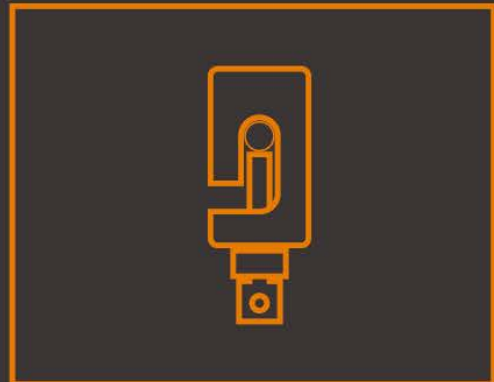
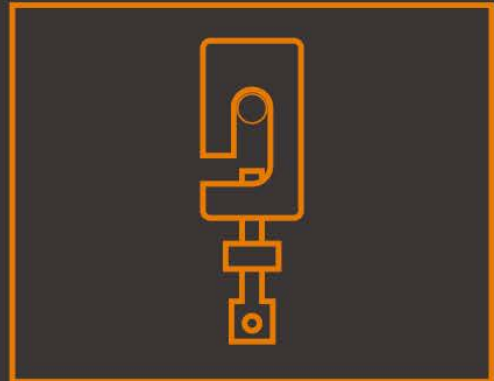
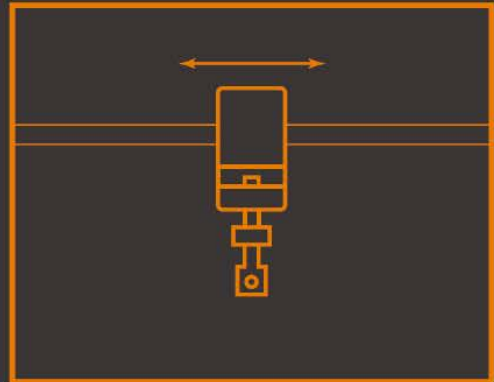
- Lighting
- Lighting trunking
- Bus bar
- Radiant heat panels
- Signage
- Fabric ducting
- Lightweight ductwork

## THE TECHNICAL INFORMATION

- 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 up to the SWL
- Can be simply 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 wire and slide into place
- Tighten the eye 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 zip-clip leaving 15cm of wire protruding
- Height can then be adjusted
- To reduce deflection in the wire the Zip-Grip can be inverted and fixed from 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



# THE RANGE

Span-Lock and Zip-Grip are designed to be used in conjunction to create a complete catenary system.



## ZIP-GRIP



M8



PRODUCT CODE	DESCRIPTION	SWL	PACK QTY.
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



# ACCESSORIES

IMAGE	PRODUCT 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
	PVC100S	PVC 100M Reel x 3mm Ø	1
	PVC100P	PVC 100M Reel x 6mm Ø	1
	CLA1	Universal Concrete Anchor	50



# SPECIFICATIONS

## GALVANISED WIRE

WIRE CODE	MBL OF WIRE ROPE	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>

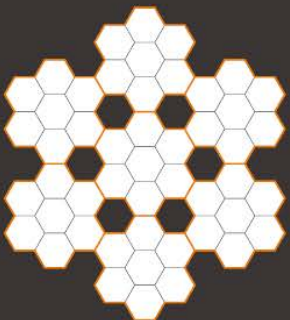
## STAINLESS STEEL WIRE

WIRE CODE	SWL OF WIRE ROPE	GRADE
G	8kg	AISI 316
S	45kg	AISI 316
Y	100kg	AISI 316
P	200kg	AISI 316

## ANGULAR PERFORMANCE

The table below shows the effect on the Safe Working Load when working at an angle from the vertical when using the professional choice range.

WIRE CODE	VERTICAL	15°	30°	45°	60°
G	10kg	9.6kg	8.6kg	7.0kg	5.0kg
S	50kg	48.0kg	43.0kg	35.0kg	25.0kg
Y	120.0kg	115.2kg	103.2kg	84.0kg	60.0kg
P	230kg	220.8kg	197.8kg	161.0kg	115.0kg
LOAD	100%	96%	86%	70%	50%

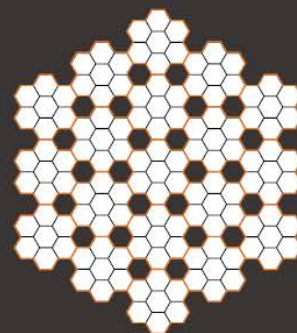


The high tensile wire we supply is galvanised and manufactured to the highest standards incorporating a 7 x 7 construction, meeting the BSEN 12385 standard.

BSMA 29/1983 standard also meeting the AISI 3136 requirements

The diagram to the left shows the construction of the 7x7 wire braids.

The diagram to the right shows the construction of the 7 x 19 wire braids.





# SPECIFICATIONS

## 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%

## ALTERNATIVE SUSPENSIONS

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

Listed below are alternative methods for supporting Mechanical and HVAC services using Zip-Clip wire supports.

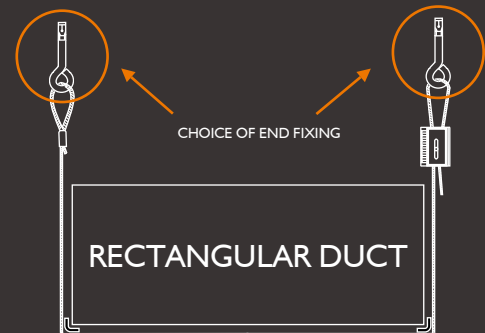
These include:

- Galvanised duct work (including spiral, rectangular & flat oval)
- Insulated duct (including spiral, rectangular & flat oval)
- Pipework

### GALVANISED DUCTWORK SYSTEMS

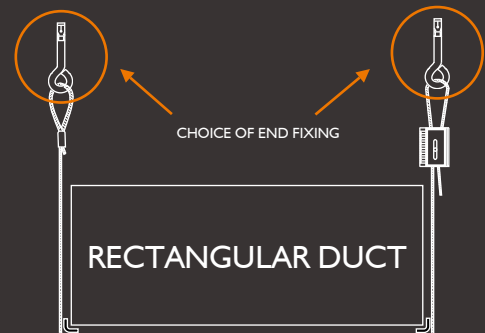
To support rectangular duct work with combined height and width measuring up to: 1150mm, utilise the following items in the following guise:

- Method of suspension: Cradle system
- S-System wire support - giving 50kg SWL, 5:1 SF - KL100 locking device
- Corner saddle wire protector( CPA1)
- Appropriate fixing of choice
- Equivalent to: M6 or M8 threaded rod

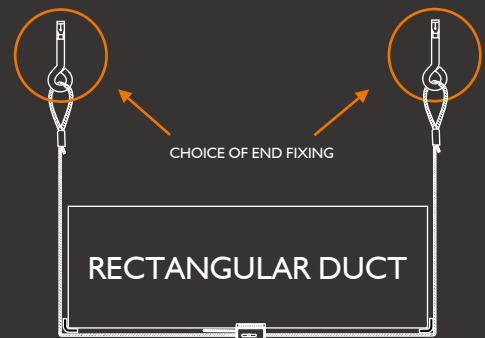


To support rectangular duct work with combined height and width measuring up to: 1600mm, utilise the following items in the following guise:

- Method of suspension: Cradle system
- Y-System wire support - giving 90kg SWL, 5:1SF - KL150 locking device
- Corner saddle wire protector (CPA1)
- Appropriate fixing of choice
- Equivalent to: M8 & M10 threaded rod

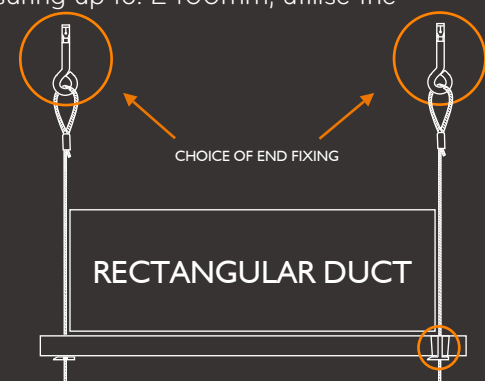


Due to the unique way in which a Zip-Clip locking device is made an "in-line joint" can also be utilised to create the above supports. This method involves joining together 2 free ends of wire using a Zip Clip.



To support rectangular duct work with combined height and width measuring up to: 2400mm, utilise the following items in the following guise:

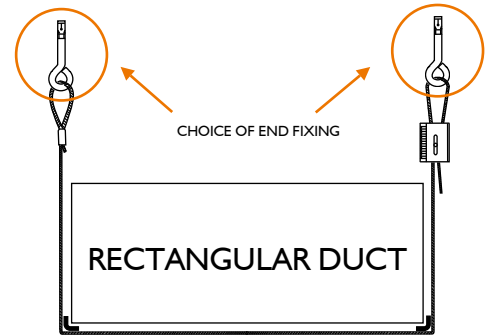
- Method: Trapeze bracket system
- Plus-on-wire support - giving 100kg SWL, 5:1SF per support
- PLU02 locking device
- Appropriate fixing of choice
- Equivalent to: M10 threaded rod



Zip-Clip wire supports are also approved for use in conjunction with insulated duct work. Supports can be utilised using the cradle method with the appropriate corner protectors, or supported by profile channel trapeze brackets.

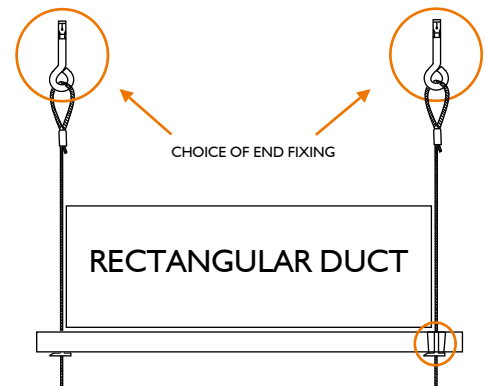
To support 50mm insulated rectangular duct work with combined height and width measuring up to: 1150mm, utilise the following items in the following guise:

- Method of suspension: Cradle system
- Y-System wire support - giving 90kg SWL, 5:1SF - KL150 locking device
- Corner saddle wire protector (CPA1)
- Appropriate fixing of choice
- Equivalent to: M8 & M10 threaded rod



To support 50mm insulated rectangular duct work with combined height and width measuring up to: 2400mm, utilise the following items in the following guise:

- Method: Trapeze bracket system
- Plus-on- wire support - giving 100kg SWL, 5:1SF per support
- PLU02 locking device
- Appropriate fixing of choice (Loop, concrete anchor, threaded eye bolt).
- Equivalent to: M10 threaded rod
- Cradle method also possible to save material (no profile channel)



Please note: for all other sizes larger than those listed, Zip-Clip can supply larger gauges systems giving a greater SWL capacity.

Corner protectors should be utilised to:

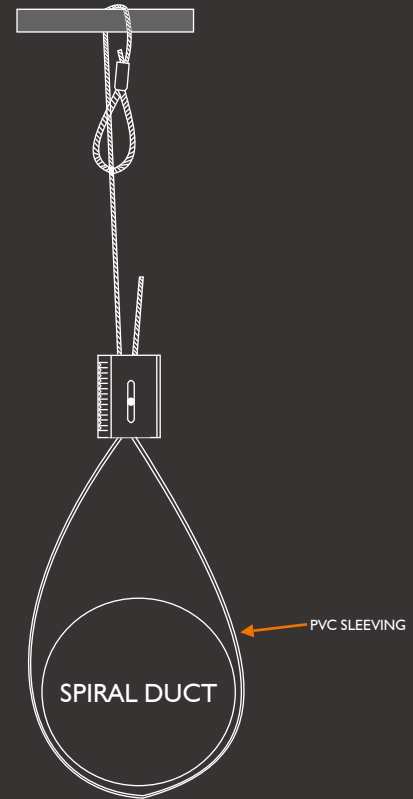
- a) protect the wire rope
- b) protect insulation from wire rope

PVC sleeve should be utilised to:

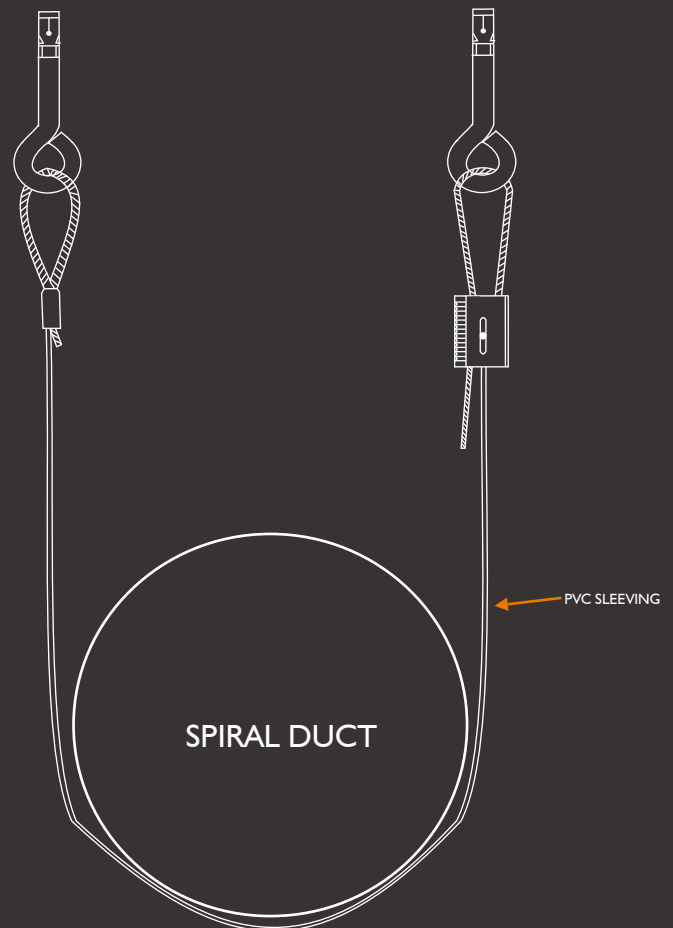
- a) protect insulation from wire rope
- b) provide an adequate condensation barrier

## SPIRAL DUCTWORK SYSTEMS

Zip clip supports can also be used in the following guises to support spiral duct work systems.



To support Spiral duct work up to 2000mm diameter:



PVC sleeve is utilised for the following:

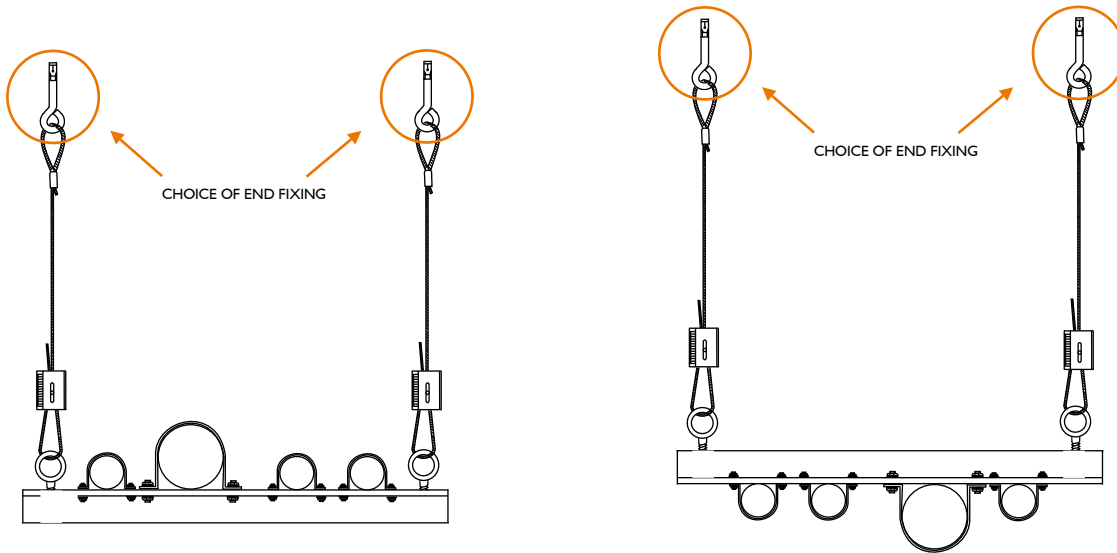
- to create a condensation barrier.
- to protect the duct work.
- to protect the wire rope.

Zip-Clip wire supports can also be utilised to build and support trapeze brackets for pipe work services.

Larger diameter supports are available offering a greater range of safe working load.

Alternative wire supports are available for the following threaded rod sizes: M8 M10 M12

Bracketry can be built in the following way:



50mm diameter pipe:

To support insulated (non sheathing) flow and return copper pipe work measuring up to 50mm diameter, utilise the above support method with an KL100 wire suspension - giving 50kg SWL with 5:1 SF per support.

65mm diameter pipe:

To support non insulated flow and return copper pipe work measuring up to 65mm diameter, utilise the above support method with an KL100 wire suspension giving 50kg SWL with 5:1 SF per support.

80mm diameter pipe:

To support insulated (non sheathing) flow and return copper pipe work measuring up to 80mm diameter, utilise the above support method with an KL100 wire suspension - giving 50kg SWL with 5:1 SF per support.

100mm diameter pipe:

To support non insulated flow & return copper pipe work measuring up to 100mm diameter, utilise the above support method with an KL150 wire suspension giving 90kg SWL with 5:1 SF per support.

Please note: for pipe work services larger than the above, larger gauges systems are available giving a greater SWL capacity.

Individual insulated pipe work can be supported by a wire rope suspension. Protective PVC sleeving should be used in this instance to protect the insulation.

## SUPPORTING AIR HANDLING UNITS

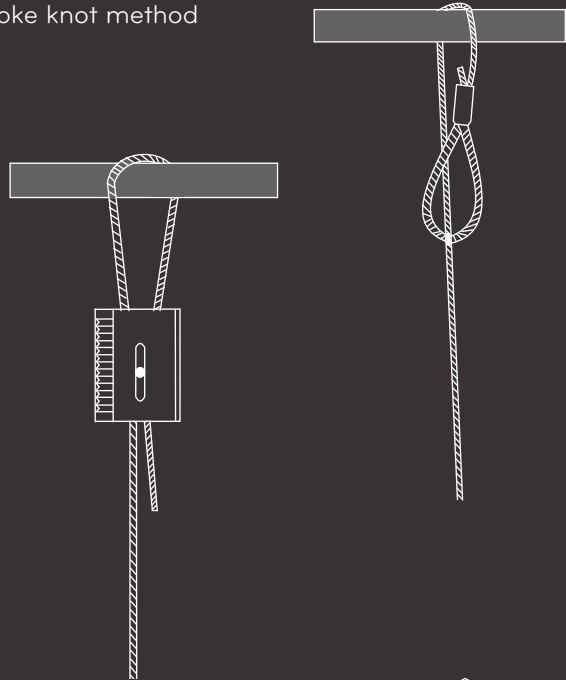
Larger gauge Zip-Clip wire supports can be utilized to produce bracketry for supporting AHU & FHU units.

### Attaching to the soffit:

The following methods should be used to create a fixture to the ceiling:

#### 1) Wrap around installations: supporting from existing steel work or anchor point.

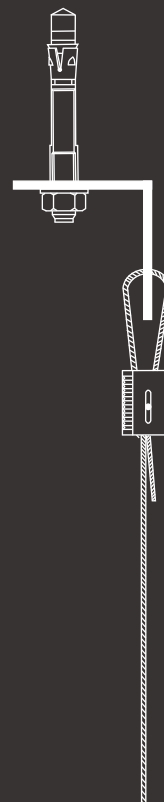
A Zip-Clip locking device can be used to loop the wire support around an existing feature such as a concrete beam or I-beam. A choke knot method can also be used to form a fixture in the same fashion.



#### 2) Concrete installations:

Due to the heavier nature of mechanical installations, and other factors to take into account such as vibration or dynamic loads, a suitable attachment into concrete like the one shown should be created.

This method of installation utilises a high load performance FAZ11 concrete anchor which carries an ETA option 1 approval. Used with a heavy duty HCB4 bracket both will give a suitable anchor point from which to attach a Zip-Clip locking device.



It is recommended that the following be used to support the weight of the services:

- profile channel rail

Other supporting bracketry is available such as angled steel. Installers must make sure that the supporting steel is fit for purpose.

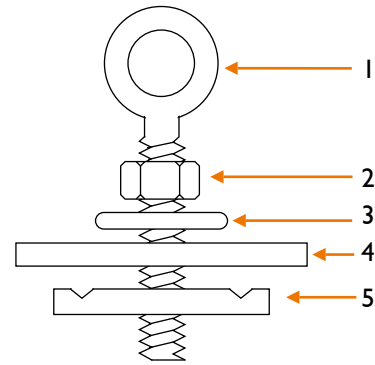
Attaching the wire suspension to the bracketry can be achieved using the following 2 methods:

1) eye bolt connection:

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

Components:

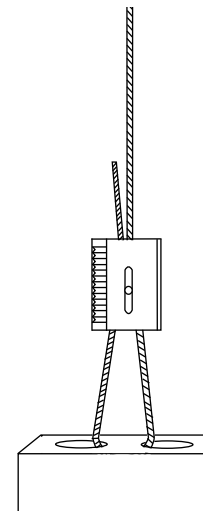
- 1 - Eyebolt
- 2 - Hex Nut
- 3 - Washer
- 4 - Square Plate Washer
- 5 - Channel Nut



2) directly looping the bracketry:

This method involves using the Zip-Clip locking device 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 deburred, and do not cause any abrasion to the wire support. The size of the hole must not effect the strength of the bracket or be too close to any edges.



# ENVIRONMENT

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.







**FLEXISTRUT**  
AUSTRALIA



Head Office

6/56 Keys Road  
Cheltenham VIC 3192

Phone: 03 9555 7700  
Fax: 03 9553 2742

NSW Office

Unit 7, 350 Edgar Street  
Bankstown NSW 2200

Phone: 02 9774 4228  
Fax: 02 9792 3021

QLD Office

1/85 Gosport St  
Hemmant QLD 4174

Phone: 07 3348 4533  
Fax: 07 3348 4633

WA Office

FM Building & Mining Services Pty Ltd

Phone: 08 9478 1377  
Fax: 08 9478 2783