



TECHNICAL REVIEW

LOOP-IT SYSTEM

FOR WRAP AROUND APPLICATIONS



LOOP-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:

- G 10kg SWL
- S 45kg SWL
- Y 90kg SWL
- P 200kg SWL
- N 500kg SWL

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

THE APPLICATIONS

Suitable for wrap around applications including:

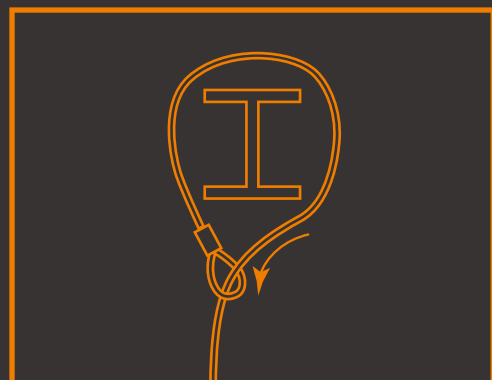
- Beams
- Purlins
- Roof Trusses
- And all other existing features

THE TECHNICAL INFORMATION

- Key free release system
- Simple to use
- Suspension can be inverted
- High tensile galvanised wire 1960N/mm² 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



THE RANGE

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



LOOP-IT



Product Code	Description	SWL	Pack
PLEKG	1 Mtr standard loop suspension system	10kg	10
PLEK2G	2 Mtr standard loop suspension system	10kg	10
PLEK3G	3 Mtr standard loop suspension system	10kg	10
PLEK4G	4 Mtr standard loop suspension system	10kg	10
PLEK5G	5 Mtr standard loop suspension system	10kg	10
PLEKD	10 Mtr standard loopsuspension system	10kg	10
PLEKS	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
PLEKDS	10 Mtr standard loopsuspension system	45kg	10
PLEKY	1Mtr 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
PLEKDY	10 Mtr standard loopsuspension system	90kg	5
PLEKP	1 Mtr standard loop suspension system	200kg	10
PLEK2P	2 Mtr standard loop suspension system	200kg	10
PLEK3P	3 Mtr standard loop suspension system	200kg	10
PLEK4P	4 Mtr standard loop suspension system	200kg	10
PLEK5P	5 Mtr standard loop suspension system	200kg	5
PLEKDP	10 Mtr standard loopsuspension system	200kg	5
PLEKN	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
PLEKDN	10 Mtr standard loopsuspension system	500kg	5



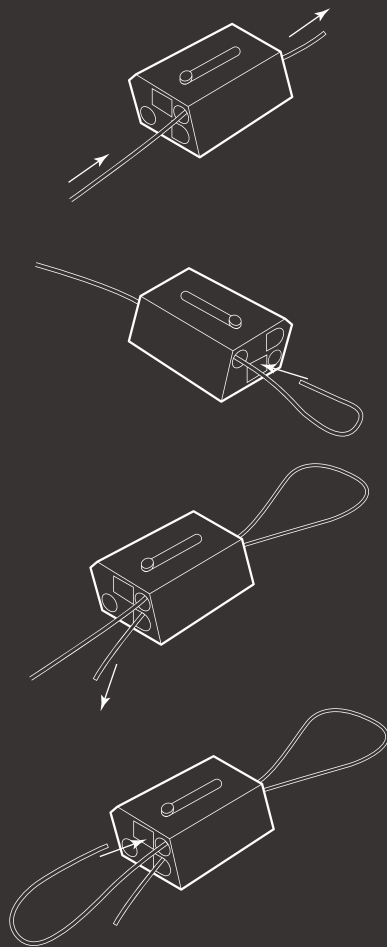
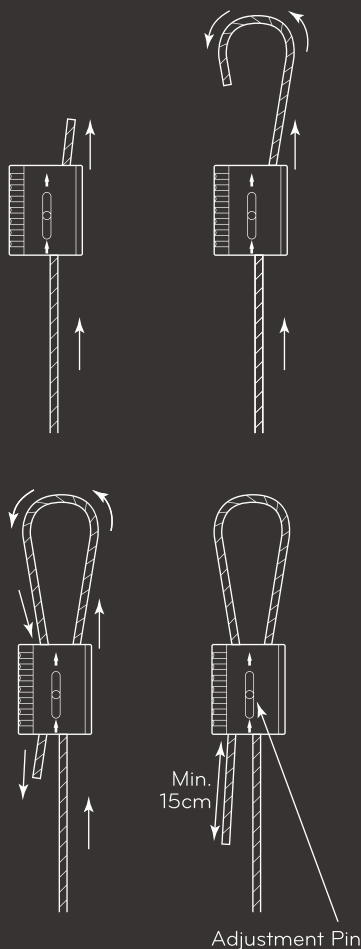
HOW IT WORKS

- 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.



KL LOCKING DEVICE - TECHNICAL REVIEW

The Zip-Clip KL clip is manufactured from a one piece die cast type Zamac 5 which combines major anti-corrosion properties with the strength and consistent manufacturing quality.

Zamac 5 can be cast by the hot chamber diecasting process. Zamac 5 is preferred where its slightly higher tensile strengths and hardness are desired or where maximum castability is required. Zamac 5 is easily machined and formed and can be readily finished by a variety of techniques including specialist painting, powder coating and electroplating where required.

PHYSICAL PROPERTIES	
Density	6.700 kg/m ³ at 21°C
Solidification Shrinkage	1.17 %
Casting Shrinkage	0.6 % (pressure diecast)
Freezing Range	-381 to -387°C
Melting Point	400 to 420°C
Specific Heat Capacity	418.7 J/kg/°C at 20 to 100°C
Thermal Expansion	27 x 10 ⁻⁶ linear per °C at 20 to 100 °C
Thermal Conductivity	108.9 W/m/hr/m ² /°C at 70 to 140°C
Electrical Conductivity	26 % IACS
Electrical Resistivity	6.5359 um ohm om at 20°C

MECHANICAL PROPERTIES		
	AS CAST	AGED
Tensile Strength (MPa)	328	26900.0%
Shear Strength (MPa)	262	
Elongation (% in 5 l mm)	7	13
Hardness (Brinell - 500kg)	91	80
Impact Strength (Energy, Joules)	65.1	84.2
Fatigue Strength 5 x 10 Cycles (MPa)	56.5	

TYPICAL ANALYSIS	
ALLOYING ELEMENTS	
Aluminium	4 %
Copper	1 %
Magnesium	0.05 %
IMPURITIES	
Iron	< 0.01 %
Lead	< 0.003 %
Cadmium	0.003 %
Tin	< 0.001 %
Nickel	< 0.001 %
Silicon	< 0.01 %

NATIONAL STANDARDS

Europe EN1774 ZL0410 - USA ASTM B86 AC4A - Japan JIS H2201 (Class I) - Australia AS 1881 - R301 (ZnAl4Cu1)

Certificate of Test



For Zip-Clip LTD
Dyffryn Industrial Estate
Newtown
Powys
SY16 3BD

Our reference: SPC0237347/1532/7 Issue 2
Date: 4 November 2015

Product LOOP-IT system 1.0mm -
LOOP-IT: [PLEKG] galvanised wire system, 7x7 construction, c/w KL50 wire locking device.

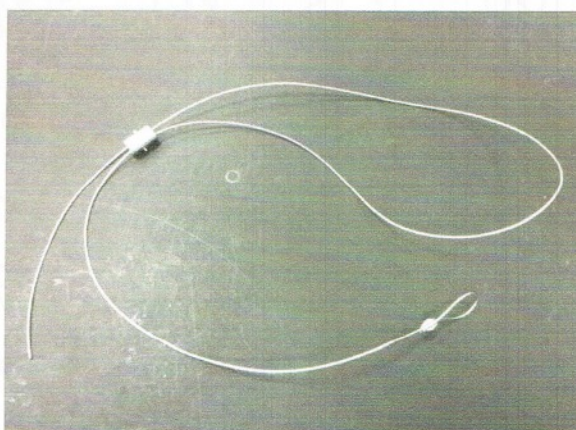
Object of test To provide a SWL: 10kg

Method of test 5 samples of system were tested to destruction using a 100kN tensile tester

Results	Sample	Destruction value (kg)
	1	79
	2	89
	3	47
	4	86
	5	90
	Mean	78

SWL = 15.6kg using 5:1 Factor of Safety

See test report reference SPC0237347/1532/B Issue 2 dated 4 November 2015 for more details



Description: 1.0mm LOOP-IT wire sample with feruled loop end c/w KL50 locking device.

1. This report is designed to indicate the performance of the sample tested by SATRA. SATRA have not approved the on-going quality control. It is the responsibility of purchasers to satisfy themselves that other production batches perform similarly.
2. Please refer to original test report stated above for terms and conditions
3. SATRA is an ISO 17025 UKAS accredited organisation.

SIGNATURE

Daniel Harrison
PPE Technologist
Safety Products Testing

D. Harrison

Certificate of Test



For Zip-Clip LTD
Dyffryn Industrial Estate
Newtown
Powys
SY16 3BD

Our reference: SPC0237347/1532/9 Issue 2
Date: 4 November 2015

Product LOOP-IT system 2.0mm
LOOP-IT: [PLEKS] galvanised wire system, 7x7 construction, c/w KL100 wire locking device.

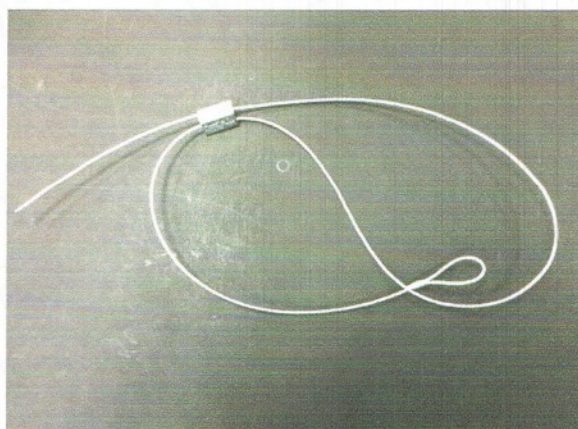
Object of test To provide a SWL: 45kg

Method of test 5 samples of system were tested to destruction using a 100kN tensile tester

Results	Sample	Destruction value (kg)
	1	254
	2	316
	3	281
	4	245
	5	269
	Mean	273

SWL = 54.6kg using 5:1 Factor of Safety

See test report reference SPC0237347/1532/B Issue 2 dated 4 November 2015 for more details



Description: 2.0mm LOOP-IT wire sample with feruled loop end c/w KL100 locking device.

1. This report is designed to indicate the performance of the sample tested by SATRA. SATRA have not approved the on-going quality control. It is the responsibility of purchasers to satisfy themselves that other production batches perform similarly.
2. Please refer to original test report stated above for terms and conditions
3. SATRA is an ISO 17025 UKAS accredited organisation.

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Certificate of Test



For Zip-Clip LTD
Dyffryn Industrial Estate
Newtown
Powys
SY16 3BD

Our reference: SPC0237347/1532/10 Issue 2

Date: 4 November 2015

Product LOOP-IT system 3.0mm
LOOP-IT: [PLEKY] galvanised wire system, 7x7 construction, c/w KL150 wire locking device.

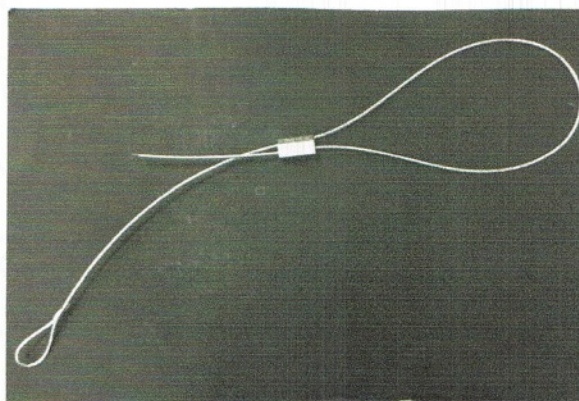
Object of test To provide a SWL: 90kg

Method of test 5 samples of system were tested to destruction using a 100kN tensile tester

Results	Sample	Destruction value (kg)
	1	562
	2	513
	3	541
	4	603
	5	544
	Mean	553

SWL = 110.6kg using 5:1 Factor Safety

See test report reference SPC0237347/1532/B Issue 2 dated 4 November 2015 for more details



Description: 3.0mm LOOP-IT wire sample with feruled loop end c/w KL150 locking device.

1. This report is designed to indicate the performance of the sample tested by SATRA. SATRA have not approved the on-going quality control. It is the responsibility of purchasers to satisfy themselves that other production batches perform similarly.
2. Please refer to original test report stated above for terms and conditions
3. SATRA is an ISO 17025 UKAS accredited organisation.

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PPE Technologist
Safety Products Testing

D. Harrison

Certificate of Test



For Zip-Clip LTD
Dyffryn Industrial Estate
Newtown
Powys
SY16 3BD

Our reference: SPC0237347/1532/11 Issue 2

Date: 4 November 2015

Product LOOP-IT system 3/16 inch
LOOP-IT: [PLEKP] galvanised wire system, 7x19 construction, c/w KL200 wire locking device.

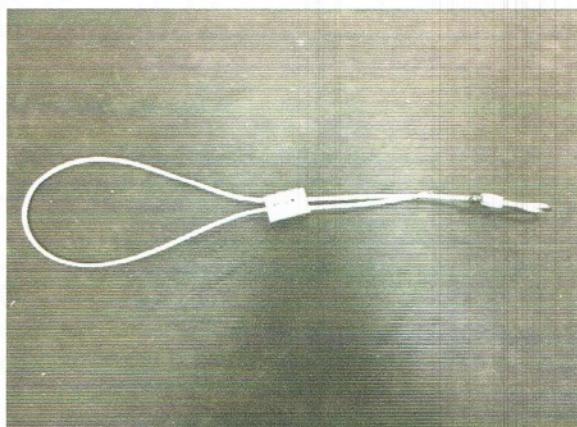
Object of test To provide a SWL: 200kg

Method of test 5 samples of system were tested to destruction using a 100kN tensile tester

Results	Sample	Destruction value (kg)
	1	1759
	2	1626
	3	1741
	4	1725
	5	1591
	Mean	1688

SWL = 337.6kg using 5:1 Factor of Safety

See test report reference SPC0237347/1532/B Issue 2 dated 4 November 2015 for more details



Description: 3/16th LOOP-IT wire sample with feruled loop end c/w KL200 locking device.

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2. Please refer to original test report stated above for terms and conditions
3. SATRA is an ISO 17025 UKAS accredited organisation.

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Certificate of Test



For Zip-Clip
Dyffryn Industrial Estate
Newtown
Powys
SY16 3BD

Our reference: SPC0235890/1525
Date: 3rd July 2015

Product 1 Meter suspension system with ferule loop end, 1/4 inch galvanised wire rope, 7x19 construction, coupled with KL600 Zip Clip locking device

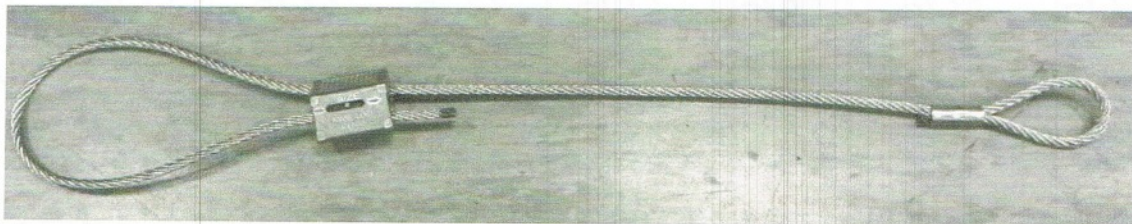
Object of test To provide a SWL with 5:1 Factor of Safety for a 1/4 inch dia 7x19 steel galvanised wire

Method of test 5 samples of 1/4 inch dia wire were tested to destruction using a 100kN tensile tester

Results	Sample	Destruction value (kg)
	1	2563.16
	2	2747.42
	3	2475.18
	4	2562.85
	5	2619.96
	Mean	2593.71

SWL (1/4 inch dia wire) = 518.74kg using 5:1 Factor of Safety

See test report reference SPC0235890/1525 dated 3rd July 2015 for more details



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2. Please refer to original test report stated above for terms and conditions

SIGNATURE

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PPE Technologist
Safety Products Centre

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.






*SAFETY | **SUSPENSION** | SPEED*

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