



THE LUMA-LOCK SYSTEM

THE LUMA-LOCK SYSTEM is designed to suspend services from a single point suspension. The aim of this support is to reduce the amount of material that is used to build a support.

Luma-Locks are fitted to the intended application using toggles and then coupled to a chosen Zip-Clip vertical suspension to hang from a variety of different base materials.

AVAILABILITY

Zip-Clip offer two different Luma-Lock systems each allocated a letter to differentiate between the available safe working loads (SWL). Each system comprises of a specific diameter of wire rope.

- **LUMG** system – 15 kg SWL
- **LUM** system – 35 kg SWL

Luma-Lock can also be produced using Y-wire rope, please consult with Zip-Clip.

Systems have a safety factor of 5:1.

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

Luma-Lock systems are available for spans from 50 mm up to 600 mm as standard, however, larger spans can be manufactured on request.

APPLICATIONS

- Long cable tray runs.
- Off-shoots from the main containment.
- Light fittings.
- Radiant heat panels.
- Chilled beams.
- Acoustic boards.
- Plenum boxes.
- Long suspensions up to 10 m.

FEATURES

- Hardened steel toggle with an aluminium stop termination.
- PVC covered loop for wire on wire protection
- Equal leg lengths, ensuring suspended services are supported level.



WHICH LUMA-LOCK TO USE

Span (mm)	LUMG	SWL	LUM	SWL
50 to 200	LUMG 50-200	15 kg	LUM 50-200	35 kg
200 to 300	LUMG 300-400	15 kg	LUM 300-400	35 kg
300 to 400	LUMG 300-400	15 kg	LUM 300-400	35 kg
400 to 600	LUMG 600	15 kg	LUM 600	35 kg

MATERIALS

Wire Rope:

Galvanised mild steel electro-galvanised wire rope, 1960 N/mm² grade, 7×7 IWRC construction, manufactured to BS EN 12385 with safety factor of 5:1.

The Toggles:

Annealed spring steel, electro-galvanised and austempered.

Toggle	G-System	S-System
Length	40.0 mm	40.0 mm
Width	5.0 mm	7.6 mm
Gauge	1.18 mm	1.49 mm
Slot length	20.0 mm	15.0 mm
Slot width	1.53 mm	2.72 mm

BENEFITS

- Can be fitted to the services on floor level prior to coupling with the vertical wire support.
- Allows for side loading of cable trays.
- Self-levelling.
- Variety of spans.
- Variety of SWL.
- PVC sleeve attachment loop prevents wire on wire abrasion when coupled with a Zip-Clip locking device.
- Removable.

INSTALLATION

Example installation into a light fitting:

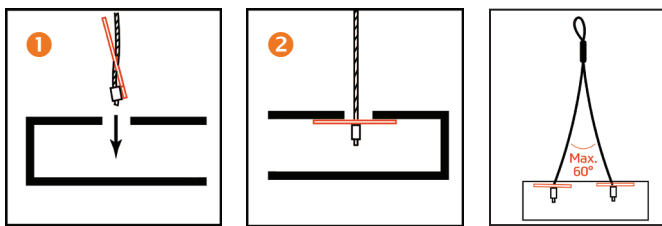
Note: Luma-Lock supports should be placed into through holes no bigger than 12 mm diameter.

STEP 1:

Select the first leg to be installed and position the toggle approx. 10 mm from the stop end. Invert the toggle so it is parallel with the wire rope.

STEP 2:

Place the stop-end into the selected through hole and then push the toggle into the hole. Repeat process for the other leg. Once the toggle and stop end have been installed, the toggle will swing through 90 degrees to span the hole.



IMPORTANT: Maintain an angle of 60 degrees for the Luma-Lock span.

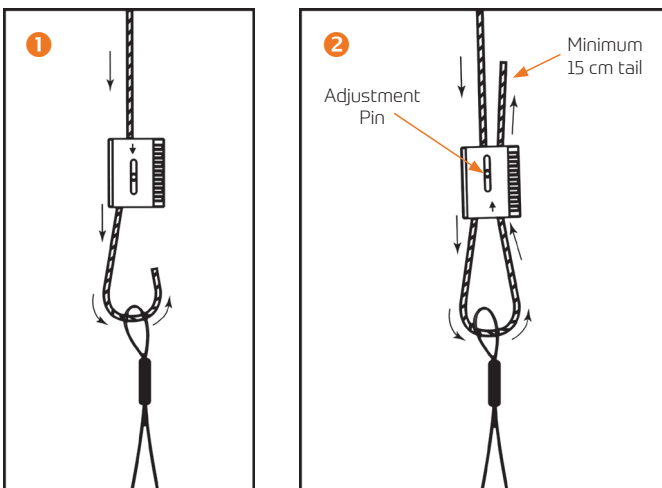
Example installation with a wire support:

STEP 1:

Offer the Luma-Lock up to a pre-installed wire support. Feed on Zip-Clip locking device and pull through required length of wire and feed wire through PVC loop of the Luma-Lock.

STEP 2:

Return wire back up into Zip-Clip locking device and when desired height is achieved, trim wire leaving a minimum 15 cm tail.



BEST PRACTICE

- Through-holes must be no bigger than 12 mm diameter.
- For static loads only.
- Ensure toggles are compatible with the through hole.
- Ensure the toggles are located correctly and not overloaded.
- Angle of the span should not exceed 60 degrees.
- If angle exceeds 60 degrees, use Luma-Lock with a larger span.

FIXING CENTRES

- Ensure adequate fixing centres are utilised for the intended application.
- Follow industry standards according to application.
- Do not overload.
- Do not go beyond safe working load.

TEST CERTIFICATES

Tensile testing certificates have been produced by SATRA Technology and are available on request.

MANUFACTURERS RECOMMENDATIONS

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

- Do not exceed the safe working load (SWL) of the product.
- Do not use locking devices with a coated wire.
- Do not paint or apply any other coating.
- Do not lubricate.
- Do not use for lifting applications.
- Remove any frayed cable prior to inserting into the locking devices.
- Do not shock load – Always take into account the nature of the install process and beware of dynamic or shock loading.
- Do not use for dynamic loads/installations.
- Do not overload.
- Do not mix Zip-Clip systems with other wire suspension manufacturers products.
- Do not use in corrosive environments, e.g. chlorinated environments.



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