



Aspöck LumEU Aqua

INSTRUCTIONS FOR INSTALLATION AND OPERATION

IP67+

In order to guarantee professional and safe operation, you must observe these operating instructions. These instructions for use apply only in connection with the abovementioned Aspöck LumEU products. They contain important notes on commissioning and handling. Please read the safety and installation instructions as well as the stated references. You can find technical data on the Aspöck LumEU products in the associated data sheet.

1. GENERAL INFORMATION:

The Aspöck LumEU LED strips are used for illumination and are highly flexible in use. It is important that sufficient cooling of the LED strips is guaranteed. LED profiles by Aspöck LumEU can support the necessary cooling process. The electrical installation of the LED strips is only to be carried out by qualified specialist personnel.



Caution - electrical voltage

Unsachgemäße Handhabung beim Anschließen des LED-Streifens kann lebensgefährlich sein. Die elektrische Installation der LED-Streifen ist nur durch qualifiziertes Fachpersonal durchzuführen.



Risk to eyesight

LED strips can be extremely bright. Looking directly into the light source may damage the eyes.

2. DISCLAIMER:

In case of damage to the product caused by non-observance of these operating instructions, the warranty and guarantee claims shall be rendered null and void. We cannot be held liable for consequential damages resulting from this. The same applies in case of injury to people and damage to property caused through improper handling or non-observance of the safety instructions.

3. SAFETY INSTRUCTIONS:

The safety of the lamp is guaranteed by properly following the instructions below:

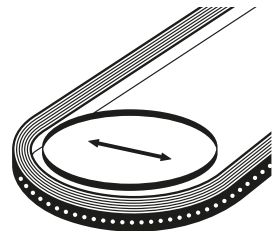
- Only trained electricians with appropriate vocational qualifications may be commissioned for installation and maintenance in alignment with the latest electrical installation and safety regulations.
- For professional operation, a suitably-dimensioned constant voltage power supply unit is required.
- It is essential that the network voltage is interrupted prior to starting any installation, inspection, maintenance or cleaning work.
- The national safety regulations must be observed during the installation or operation of the lamps. The manufacturer shall bear no liability in case of improper use or installation.
- If something on the lamp subsequently requires modification, certificates may lose their validity. In addition, the person undertaking these modifications is then viewed as the manufacturer.

- Should the lamps malfunction or fail, please contact Aspöck Systems GmbH.
- Under no circumstances may the maximum permitted ambient temperature be exceeded. Temperatures over this limit will reduce the lifetime; in extreme cases, premature failures will occur.
- Protective gloves should always be worn during installation in order to avoid contamination and fingerprints.
- Original packaging must be used for the transport and storage.
- We reserve the right to make technical and graphic changes.

4. INSTALLATION INSTRUCTIONS:

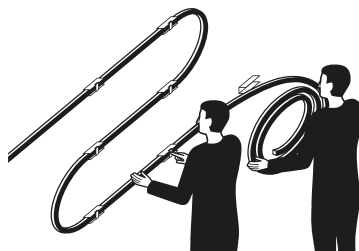
- The buyer is responsible for guaranteeing that the loads can be supported.
- Only those power supply units may be used which feature the following protective measures:
 - » Short-circuit protection
 - » Overload protection
 - » Overtemperature protection
- Prior to installation, it must be ensured that the lamps have been brought to room temperature (+18°C - +25°C).
- The surfaces must be clean and dry.
- In addition, it must be ensured that the surfaces remain free from dust, grease, oil and release agents.
- If coatings of house paint and top layers are not solidified, the consumer themselves must ensure a firm subsurface. In case of basic cleaning, ensure that only clean cloths, dry compressed air and compatible chemicals are used.
- During installation of the lamps, ensure that a contact pressure of 10 - 15 N/cm² is not exceeded.
- If products of more than 1m in length are installed, please work with increased caution. Ensure careful handling, as improper bending/torsion may damage the strip conductors.
- The minimum bend radius stipulated in the technical data sheet may not be underrun on Aqua products.

- If you intend to permanently fix our product, we recommend our Aspöck LumEU fixing clips.
- The significant difference between IP66 and IP67+ products with regard to the fixing possibilities is that the IP67+ tapes are delivered without adhesive tape. The processor should carry out proper installation.
- In case of large temperature differences, length expansion tolerances of up to +/- 5mm may result, and width expansion tolerances of +/- 1mm.
- Because the profile may expand, the product may never be installed edge to edge. Should two products be installed one after the other, it must be ensured that the appropriate tolerance clearance is provided.
- Install the lamp so that the lamp surface is not placed under mechanical load.
- It is possible to install the lamps as an individual module or a module chain. However, ensure that the maximum connected load is observed as stated in the respective product data sheet.
- Always ensure that the specified bend direction is never under any circumstances changed during installation. The product may not be twisted.
- Aqua Grande, Medium and Slim products may not be bent too severely.
- Under no circumstances may a bend radius of 20 cm on the Aqua Grande profiles, a bend radius of 15 cm on the Aqua Medium and a bend radius of 10 cm on the Aqua Slim profiles be underrun.
- Aqua Grande-, Medium- and Slim-Produkte products may not:
 - » Be placed under torsional stress
 - » Be dropped during installation
 - » Be kinked and bent over 90 degrees
 - » Be left hanging between two fixing points



5. TOOLS REQUIRED FOR INSTALLATION:

- 2 people
- Drill
- Drill bit
- Screwdriver/electric screwdriver
- Metal saw/chop and mitre saw



6. STEP BY STEP INSTRUCTIONS:

One basic prerequisite is that the package is opened with particular caution and is not damaged by pointed objects such as a knife, cutter or scissors. In addition, the completeness and intactness of the goods should be inspected.

Because the product is made from different plastics which possess different material properties, it should be brought to room temperature prior to installation (+18°C - +35°C). Low temperatures can have a negative effect on the flexibility of the products. The installation can be executed smoothly after the product has been warmed to room temperature.

If the product length exceeds 1m, it should be removed from the packaging by at least 2 people. Please plan 2 people for the installation of products with a length of over 1m in order to avoid damage (kinking).

It is particularly important to ensure that the product is neither kinked, nor bent at too severe an angle. In worst cases, the strip conductors may be damaged.

It is also important that the mounting profiles are installed in aligned state and secured against misalignment, so that no shear forces can affect the product.

Thermal length changes must be taken into account during installation. For this reason, we advise that sufficiently-large expansion joints are provided during installation. It can be assumed that the length expansion totals 1mm per metre with a temperature difference of approximately 10°C.

You can find the **TECHNICAL DETAILS** on our products on our website www.aspoeck-lumeu.com.

7. CLEANING:

Should cleaning prove necessary, this should be undertaken using a damp cloth or dry and clean compressed air. For this purpose, however, only solvent-free cleaning agents are permitted.

8. DISPOSAL:



- This product consists of many valuable raw substances which can be reused and should be taken to your collection point for electrical devices in case of disposal.



- This product fulfils the requirements laid down in the applicable European and national directives. The conformity has been verified; the manufacturer has filed the appropriate declarations and documents.

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