

AQUALUC W:AVE RGB

- fully encapsulated flexible LED light line with thermal conductive polyurethane-ceramic compound and IP 67* protection
- resistant to water, UV radiation, abrasion and chemicals
- rich color tones for impressive accent lighting
- small bending radius of 200 mm (only one axis)
- very bright and absolutely homogeneous illumination over the entire light-emitting surface in wave form (i.e. with upward light emittance the W:AVE can be vertically bent up and down in wave form)
- clear lines and light-emitting surface enables a flush installation in ceilings, walls and furniture
- specially designed in-feed system: cable feed from below/side which enables a shadow-free alignment of numerous modules for a homogeneous light line with uninterrupted illumination



NOTE

Please observe the installation and safety instructions at <https://www.barthelme.de/content/en/manuals.aspx> !

When ordering, please note the article number scheme at the end of the data sheet.

PHOTOMETRIC DATA



| AQUA-4003-ORGB | |
|------------------------------------|-------------------------|
| Type of color | RGB |
| Light color | RGB |
| Typ. total luminous flux per metre | 417 lm/m |
| Typ. luminous flux per metre red | 148 lm/m |
| Typ. luminous flux per metre green | 223 lm/m |
| Typ. luminous flux per metre blue | 46 lm/m |
| Efficiency | 26 lm/W |
| Energy efficiency class | B |
| Beam angle | 120 ° |
| Dimming | dimmable |
| LED strip used | LEDlight flex 15 8p RGB |
| L70 bei Ta < 35°C | >30000 h |

Note: The stated Energy Efficiency Class (EEK) refers to a product length of 1m. The EEK may differ for other lengths. Length tolerance +/- 5 mm at < 1 m and +/- 0.2 % at > 1 m

PHOTOMETRIC DATA TOLERANCES IN THE AQUALUC FAMILY: The stated photometric data of the AQUALUC products are typical values which in practice are influenced by the binning of the LED's as well as the individual production steps in the encapsulation process. Factors such as layer thickness, type of encapsulation and the light color of the uncoated LED's have an influence on the resulting color temperature of the finished AQUALUC product. As each of these factors are subject to process and production related tolerances the resulting photometric data of the AQUALUC products can deviate from the stated typical values.

ELECTRICAL DATA

| AQUA-4003-ORGB | |
|-------------------|---------|
| Operating voltage | 24 V DC |
| Power per meter | 16 W/m |

MECHANICAL DATA

| | AQUA-4003-ORGB |
|--------------------|----------------|
| Width | 17,5 mm |
| Height | 17,5 mm |
| Bending radius | 200 mm |
| Type of protection | IP 67 |

GENERAL DATA

| | AQUA-4003-ORGB |
|--------------------------------------|---|
| Ambient temperature Ta | -20 ° C ~ +35 ° C |
| Max. temperature Tc | 74 ° C |
| Max. operable length | 5600 mm |
| Max. buildable length with 1 m cable | 5602 mm |
| Connector cable | 0,35m cable with M8 connector |
| Remarks | Anschluß-/Weiterleitungskabel: wahlweise 1 - 6 m mit freien Drahtenden oder 0,35 m mit M8 Stecker |

ACCESSORIES

| | 40500023 | 40500024 | 40500027 | 40500028 | 40500061 | 40500062 |
|-------------|---|---|--|----------|---|----------|
| Description | AQUALUC W:AVE (17,5 x 17,5 mm) aluminium mounting profile, anodised | AQUALUC W:AVE (17,5 x 17,5 mm) aluminium mounting profile 2.0, anodised | AQUALUC W:AVE (17,5 x 17,5 mm); not gripping mounting profile, aluminium, anodized | | AQUALUC W:AVE (17,5 x 17,5 mm) mounting profile, PC plastic, UV resistant | |
| Material | Aluminium 6063 | | | | PC | |
| Length | 1000 mm | 2000 mm | | 3000 mm | 1000 mm | 2000 mm |
| Width | 22,8 mm | | 22,1 mm | | 22,8 mm | |
| Height | 15 mm | | 23,4 mm | | 15 mm | |
| Remarks | also suitable for AQUALUC C:URVE WIDE | | also suitable for AQUALUC C:URVE WIDE The Aqualuc is enclosed and can move freely. Strain and compression of the light line are avoided in the event of temperature fluctuations. | | also suitable for AQUALUC C:URVE WIDE | |

| | 40500025 | 40500026 |
|-------------|--|--|
| Description | AQUALUC W:AVE (17,5 x 17,5 mm) aluminium bracket set, 10 pieces 5 cm, 10 screws, 10 dowels | AQUALUC W:AVE (17,5 x 17,5 mm) bracket set, 10 pieces stainless steel 316L, 10 screws, 10 dowels |
| Material | Aluminium | 316L stainless steel |
| Length | 50 mm | 20 mm |
| Width | 22,8 mm | 19,5 mm |
| Height | 15 mm | 15,5 mm |
| Remarks | also for AQUALUC C:URVE WIDE, hole diameter 2.9 mm | also for AQUALUC C:URVE WIDE, hole diameter 6 mm |

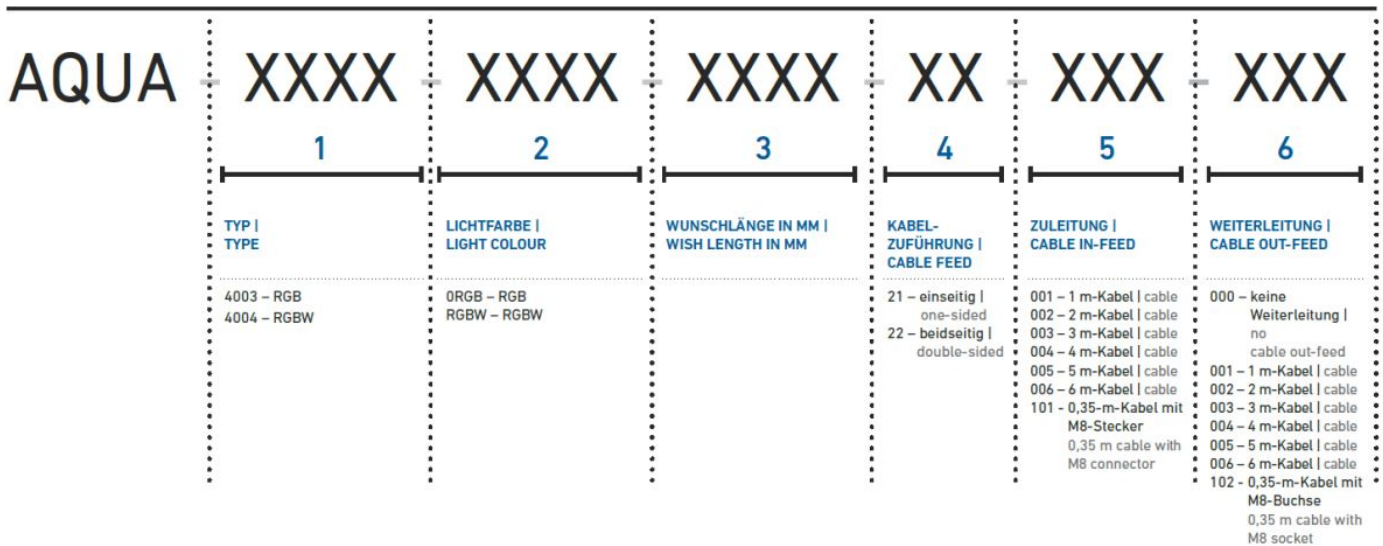


| | 30033009 | 40100111 | 63500022 | 63500030 |
|--------------------|--|--|--|---|
| Description | heat resistant double-sided tape, with excellent adhesive properties | dismounting tool, minimizes the mechanical stress on the product when removing | technical Vaseline, high purity, chemically neutral, 80 g bottle, suitable for all mounting profiles | construction one component glue, firm-elastic, white, cartridge 290ml |
| Material | Acryl | Poly lactide PLA | | 1K-Hybrid-Polymer |
| Length | 33000 mm | 210 mm | | |
| Width | 9 mm | 8 mm | | |
| Height | 0,4 mm | 62 mm | | |
| Remarks | 33 m x 9 mm | | For mounting AQUALUC strictly recommended | see separate data sheet |

| | 66313403 | 66313410 | 66313430 |
|------------------------------|--|----------|----------|
| Description | M8 connector STST, 4-pole, screwable, moulded on cable oval 1x0,5 mm ² + 3x0,34 mm ² | | |
| Indoor/Outdoor | Outdoor | | |
| Cable sheath material | PUR | | |
| Halogen-free | Yes | | |
| Color of cable | white | | |
| Wire cross-section | 1x0,5 mm ² + 3x0,34 mm ² | | |
| Length | 350 mm | 10000 mm | 3000 mm |



ARTICLE NUMBER SCHEME



IN INDIVIDUELLEN LÄNGEN, MIT BEIDSEITIGER UND RÜCKSEITIGER EINSPEISUNG ERHÄLTlich | AVAILABLE IN INDIVIDUAL LENGTHS, WITH OPTIONAL IN-FEED ON BOTH SIDES AND REAR SIDE

NOTE

During the production of encapsulated luminaires, air bubbles may be enclosed in the material. These bubbles are production-related and do not constitute a defect. If the bubbles are within the beam path of an LED, this can constitute a defect.

NOTE CHEMICALS

The AQUALUC encapsulation materials have successfully passed various test series in which resistance to salt, water, UV radiation, abrasion, dust and chemicals were tested. Each AQUALUC light line is ideally suited for indoor and outdoor illumination. For example on facades and bridges, in wellness oases and swimming pools, from maritime areas to industrial applications and vehicle technology - AQUALUC is already being used successfully everywhere. Despite the use of high quality materials and a robust design, there are chemical-related limitations in the areas of application. Please refer to the following link:

<https://www.barthelme.de/shared/download/katalog/AQUALUC-Chemische-Mittel-Chemical-Agents.pdf>