

# AQUALUC S:OLID MONOCHROME BRIGHT

- fully encapsulated rigid LED light line with thermal conductive polyurethane-ceramic compound and IP 68\* protection
- for underwater installations up to a depth of 1.2 m (at max. 1.2 m water depth; immersion time < 2 years)
- only one bin per color according to 3 step MacAdam
- protected by hard encapsulation against mechanical, physical and chemical influences
- resistant to water and UV radiation
- uniform, absolute homogeneous illumination over the entire light emitting surface
- as opposed to metal, no occurrence of oxidation (rust) as housing completely made of plastic
- current limiter and high amount of copper in FPC enable a long lifetime
- rear side in-feed possible for side-by-side installation of multiple modules



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-5004-0028	AQUA-5004-0031	AQUA-5004-0041	AQUA-5004-0050
Type of color	White			
Typ. color temperature	2800 K	3100 K	4100 K	5000 K
Typ. total luminous flux per metre	595 lm/m	671 lm/m	669 lm/m	588 lm/m
Efficiency	74 lm/W	84 lm/W		74 lm/W
Energy efficiency class	A+			
Typ. color rendering index	82			
Beam angle	120 °			
LED strip used	LEDlight flex 08 8 High Efficiency			
L80 bei Ta < 55°C	>60.000 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-5004-0028	AQUA-5004-0031	AQUA-5004-0041	AQUA-5004-0050
Operating voltage	24 V DC			
Power per meter	8 W/m			

## MECHANICAL DATA

	AQUA-5004-0028	AQUA-5004-0031	AQUA-5004-0041	AQUA-5004-0050
Width			17,5 mm	
Height			17,5 mm	
Type of protection			IP 68	

## GENERAL DATA

	AQUA-5004-0028	AQUA-5004-0031	AQUA-5004-0041	AQUA-5004-0050
Ambient temperature Ta	-20 ° C ~ +60 ° C			
Max. temperature Tc	66 ° C			
Max. operable length	2720 mm			
Max. buildable length with 1 m cable	2720 mm			
Remarks	Connection/forwarding cable: optionally 1 - 6 m with free wire ends			

## ACCESSORIES

	40100141	40100142
Description	AQUALUC S:OLID support profile, PC plastic, UV resistant	
Material	PC	
Length	1000 mm	2000 mm
Width	21,6 mm	
Height	13,5 mm	
Remarks	When the AQUALUC S:OLID is inserted, the holding profile expands to a dimension of up to 22.5 mm.	

	30033009	63500022	63500030
Description	heat resistant double-sided tape, with excellent adhesive properties	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		1K-Hybrid-Polymer
Length	33000 mm		
Width	9 mm		
Height	0,4 mm		
Remarks	33 m x 9 mm	For mounting AQUALUC strictly recommended	see separate data sheet



**ARTICLE NUMBER SCHEME**

AQUA	XXXX	XXXX	XXXX	XX	XXX	XXX
	1	2	3	4	5	6
	TYP   TYPE	LICHTFARBE   LIGHT COLOUR	WUNSCHLÄNGE IN MM   WISH LENGTH IN MM	KABEL-ZUFÜHRUNG   CABLE FEED	ZULEITUNG   CABLE IN-FEED	WEITERLEITUNG   CABLE OUT-FEED
	5004 – monochrome BRIGHT   monochrome BRIGHT 5001 – monochrome HIGH BRIGHTNESS   monochrome HIGH BRIGHTNESS	0028 – 2800 K 0031 – 3100 K 0040 – 4000 K 0041 – 4100 K 0050 – 5000 K 0057 – 5700 K 0625 – Rot   Red 0525 – Grün   Green 0470 – Blau   Blue 0593 – Amber		21 – einseitig   one-sided 22 – beidseitig   double-sided 23 – Rückseite, einseitig   one-sided, rear 24 – Rückseite, beidseitig   double-sided, rear	001 – 1 m-Kabel   cable 002 – 2 m-Kabel   cable 003 – 3 m-Kabel   cable 004 – 4 m-Kabel   cable 005 – 5 m-Kabel   cable 006 – 6 m-Kabel   cable	000 – keine Weiterleitung   no cable out-feed 001 – 1 m-Kabel   cable 002 – 2 m-Kabel   cable 003 – 3 m-Kabel   cable 004 – 4 m-Kabel   cable 005 – 5 m-Kabel   cable 006 – 6 m-Kabel   cable

**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>