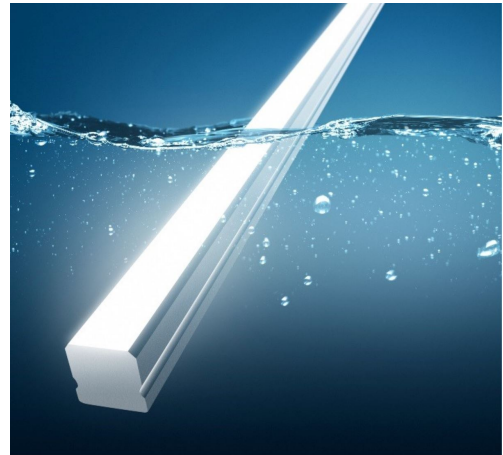


# AQUALUC S:OLID RGBW

- 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 (immersion time < 2 years, 1 ppm free chlorine at 35 °C, ptt value of 6.8-7.6)
- 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 completely made of plastic
- current limiter and high amount of copper in FPC enable a long lifetime



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-5003-RGBW
Type of color	RGBW
Typ. color temperature	3000 K
Light color	RGBW
Typ. total luminous flux per metre	492 lm/m
Typ. luminous flux per metre red	83 lm/m
Typ. luminous flux per metre green	170 lm/m
Typ. luminous flux per metre blue	35 lm/m
Typ. luminous flux per metre white	204 lm/m
Efficiency	30 lm/W
Energy efficiency class	B
Beam angle	120 °
Dimming	dimmable
LED strip used	LEDlight flex 12 10 RGBW
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.

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-5003-RGBW
Operating voltage	24 V DC
Power per meter	16,3 W/m

## MECHANICAL DATA

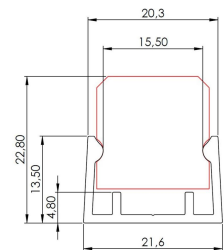
	AQUA-5003-RGBW
Width	17,5 mm
Height	17,5 mm
Type of protection	IP 68

## GENERAL DATA

	AQUA-5003-RGBW
Ambient temperature Ta	-20 °C ~ +35 °C
Max. temperature Tc	71 °C
Max. operable length	2680 mm
Max. buildable length with 1 m cable	2680 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



The AQUALUC S:OLID light line is walkable - however, it must be ensured that no plastic support profile is used, as the plastic support profile cannot be walked on. A flat installation of the light line with the floor is possible. However, to protect the light-emitting surface, a downward offset installation of approx. 1-2mm is recommended.

## 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
	5002 – RGB 5003 – RGBW	0RGB – RGB RGBW – RGBW		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 UND MIT BEIDSEITIGER EINSPEISUNG ERHÄLTlich | AVAILABLE IN INDIVIDUAL LENGTHS AND DUAL-SIDED FEED-IN

### 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>