

# AQUALUC W:AVE Bright

- fully encapsulated flexible LED light line with thermal conductive polyurethane-ceramic compound and IP 67\* protection
- only one bin per color according to 3 step MacAdam
- resistant to water, UV radiation, abrasion and chemicals
- small bending radius of only 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)
- 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



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-4001-0029	AQUA-4001-0032	AQUA-4001-0042	AQUA-4001-0065
Type of color	White			
Typ. color temperature	2900 K	3200 K	4200 K	6500 K
Light color	warm white	white	cold white	daylight
Typ. total luminous flux per metre	684 lm/m	687 lm/m	759 lm/m	740 lm/m
Efficiency	86 lm/W		94 lm/W	92 lm/W
Energy efficiency class	A+			
Typ. color rendering index	85			
Beam angle	120 °			
Dimming	dimmable			
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-4001-0029	AQUA-4001-0032	AQUA-4001-0042	AQUA-4001-0065
Operating voltage	24 V DC			
Power per meter	8 W/m			

## MECHANICAL DATA

	AQUA-4001-0029	AQUA-4001-0032	AQUA-4001-0042	AQUA-4001-0065
Width	13,5 mm			
Height	13,5 mm			
Bending radius	200 mm			
Type of protection	IP 67			

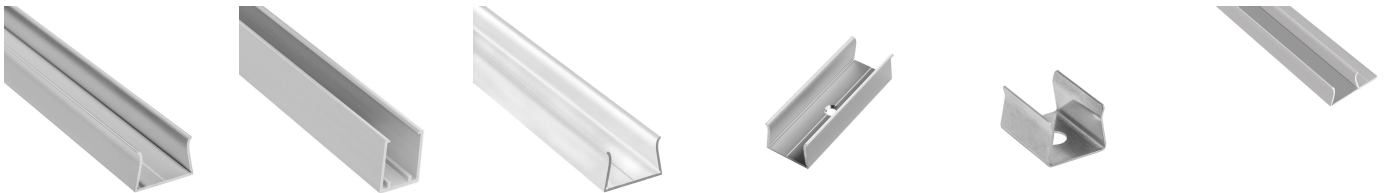
## GENERAL DATA

	AQUA-4001-0029	AQUA-4001-0032	AQUA-4001-0042	AQUA-4001-0065
Ambient temperature Ta	-20 ° C – +55 ° C			
Max. temperature Tc	69 ° C			
Max. operable length	7100 mm			
Max. buildable length with 1 m cable	7100 mm			
Remarks	Anschluß-/Weiterleitungskabel: wahlweise 1 - 6 m mit freien Drahtenden oder 0,35 m mit M8 Stecker			

## ACCESSORIES

	40500013	40500014	40500017	40500018	40500051	40500052
Description	AQUALUC W:AVE (13,5 x 13,5 mm) aluminium mounting profile, anodised		AQUALUC W:AVE (13,5 x 13,5 mm); not gripping mounting profile, aluminium, anodized		AQUALUC W:AVE (13,5 x 13,5 mm) mounting profile, PC plastic, UV resistant	
Material	Aluminium 6063				Plastics	
Length	1000 mm	2000 mm		3000 mm	1000 mm	2000 mm
Width	19 mm		18,1 mm		19 mm	
Height	13 mm		19,4 mm		13 mm	
Remarks			The Aqualuc is enclosed and can move freely. Strain and compression of the light line are avoided in the event of temperature fluctuations.			

	40500015	40500016	40500091	40500092
Description	AQUALUC W:AVE (13,5 x 13,5 mm) aluminium bracket set, 10 pieces 5 cm, 10 screws, 10 dowels	AQUALUC W:AVE (13,5 x 13,5 mm) bracket set, 10 pieces stainless steel 316L, 10 screws, 10 dowels	AQUALUC W:AVE (13,5 x 13,5 mm) mounting profile with fixing wing, aluminium, anodised	
Material	Aluminium 6063	316L stainless steel	Aluminium 6063	
Length	50 mm	20 mm	1000 mm	2000 mm
Width	19 mm	15,5 mm	31 mm	
Height	13 mm	11,5 mm	13 mm	
Remarks	hole diameter 2.9 mm	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

	66313203	66313210	66313230
<b>Description</b>	M8 connection cable, 316L stainless steel, 2 pole, screwable, molded on cable with cross section 2x 0.5 mm <sup>2</sup>		
<b>Indoor/Outdoor</b>	Outdoor		
<b>Cable sheath material</b>	PUR		
<b>Halogen-free</b>	Yes		
<b>Color of cable</b>	white		
<b>Wire cross-section</b>	2x0,5 mm <sup>2</sup>		
<b>Length</b>	350 mm	10000 mm	3000 mm



## 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
	4001 – Bright 4002 – High Brightness	0029 – 2900 K 0032 – 3200 K 0042 – 4200 K 0065 – 6500 K 0625 – Rot   Red 0525 – Grün   Green 0470 – Blau   Blue 0593 – Amber		21 – einseitig   one-sided 22 – beidseitig   double-sided	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 101 – 0,35-m-Kabel mit M8-Stecker 0,35 m cable with M8 connector	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 102 – 0,35-m-Kabel mit M8-Buchse 0,35 m cable with M8 socket

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>