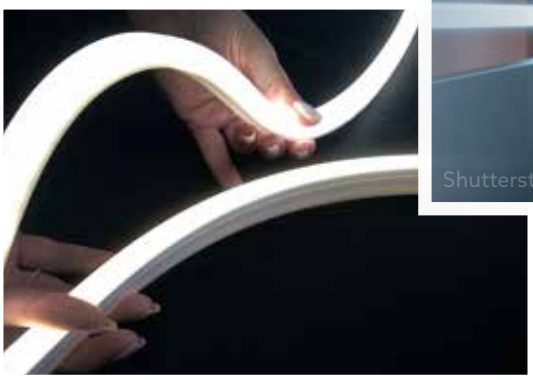
NEWS #3

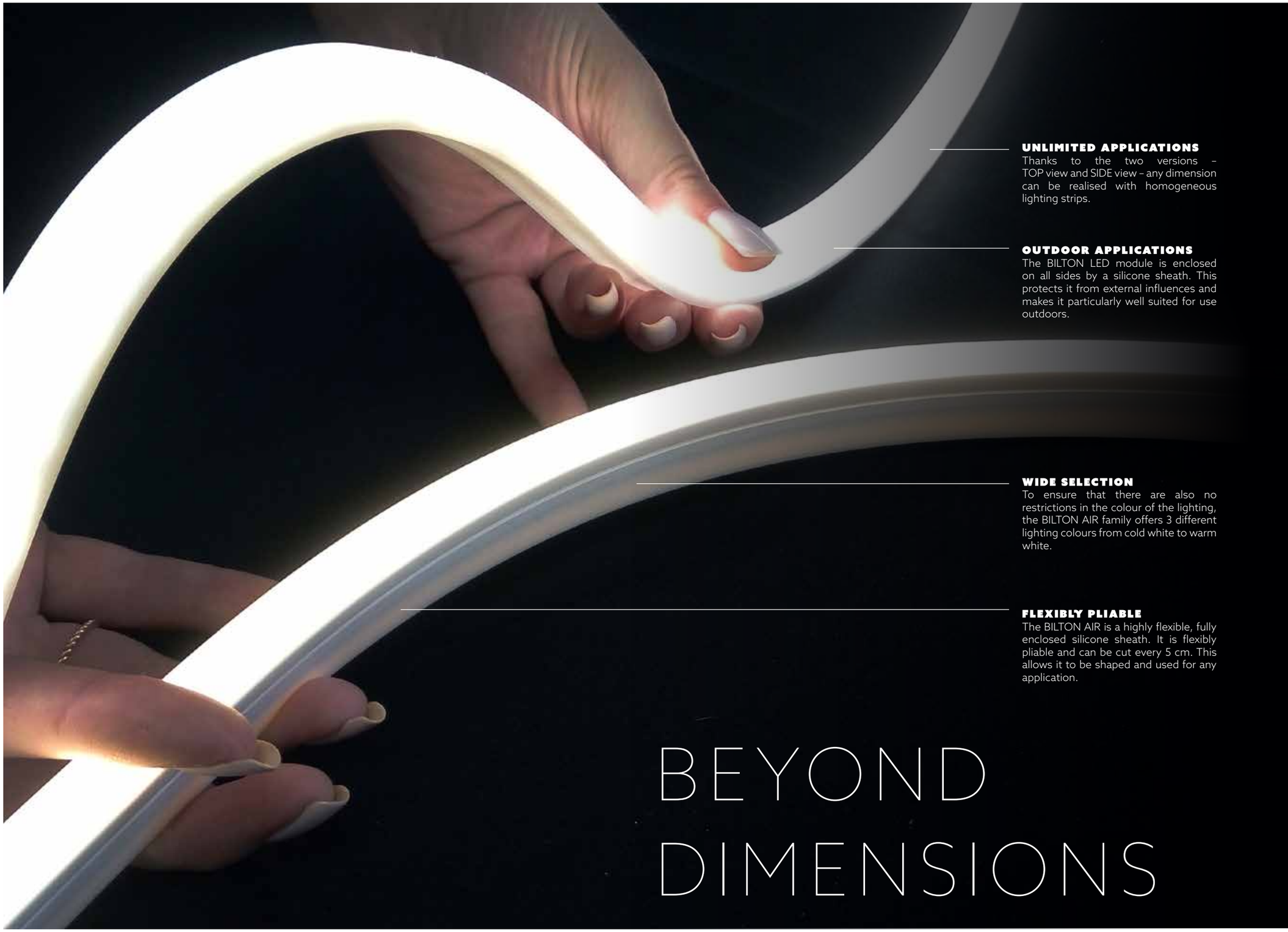
FOCUSED ON LINEAR LIGHT

BILTON AIR



BILTON
biltongroup.com

BILTON
PRODUCT HIGHLIGHTS



BEYOND DIMENSIONS

UNLIMITED APPLICATIONS
Thanks to the two versions – TOP view and SIDE view – any dimension can be realised with homogeneous lighting strips.

OUTDOOR APPLICATIONS
The BILTON LED module is enclosed on all sides by a silicone sheath. This protects it from external influences and makes it particularly well suited for use outdoors.

WIDE SELECTION
To ensure that there are also no restrictions in the colour of the lighting, the BILTON AIR family offers 3 different lighting colours from cold white to warm white.

FLEXIBLY PLIABLE
The BILTON AIR is a highly flexible, fully enclosed silicone sheath. It is flexibly pliable and can be cut every 5 cm. This allows it to be shaped and used for any application.

FOR LIMITLESS DESIGN FREEDOM

The new BILTON LED module series **BILTON** AIR is a highly flexible silicone sheath, closed on all sides. Thanks to the two versions with the **BILTON** AIR **SIDE** and the **BILTON** AIR **TOP** accent lighting can be created, that offers not only the highest degree of flexibility in a literal sense, but that can be used in almost any situation indoors or out. This is made possible thanks to the extremely pliable silicone sheath into which the **BILTON** AIR is installed. It guarantees extremely high protection against moisture as well as against numerous other external influences such as UV light, salt spray and chlorinated atmospheres. A homogeneously illuminated line of light that can be used in any orientation and that can be integrated into any object, thus eliminating any feasibility limits.

BILTON
AIR

BENDS FOR YOU IN EVERY POSITION

Linear LED lighting doesn´t need to be straight. This is nothing new. But what is new is that with BILTON AIR it is possible to create accent lighting that offers not only the highest degree of flexibility in a literal sense, but that can be used in almost any situation in- and outdoors. This is made possible thanks to the extremely pliable silicone profile into which the BILTON AIR is installed. It guarantees extremely high protection against moisture as well as against numerous other external influences such as UV light, salt, chlorine and many others.

HIGHEST LIGHTING QUALITY WITH THE SIMPLEST CONNECTION

It is also the silicone strip that guarantees the absolutely homogeneous illumination throughout the complete illuminated surface, as well as effective thermal dissipation – regardless of the curved shapes adopted by the BILTON AIR. Where previously such special solutions would have required complex connections, BILTON relies on a very simple system: a plug-in system suitable for outdoor use and which is fitted to every BILTON AIR that leaves the factory.

BEYOND THE LIGHT

BILTON
PRODUCT HIGHLIGHTS

Our innovation – Your advantage

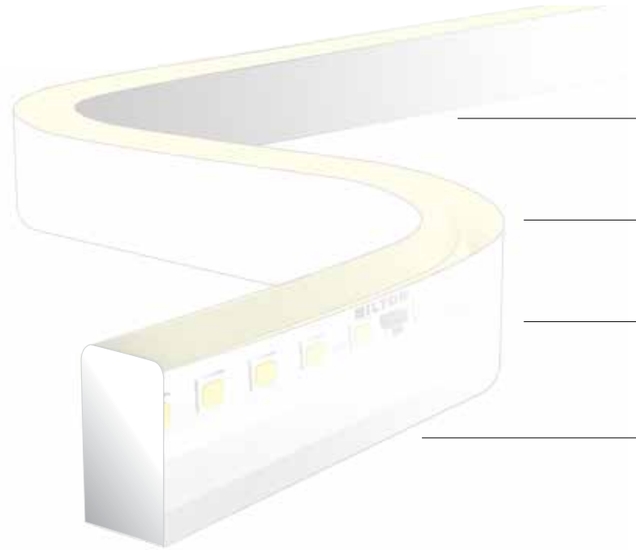
SEPARABILITY **5 CM**

IP67 PROTECTED BY SILICONE

LIGHT LINE WITHOUT VISIBLE LIGHT POINTS

ILLUMINATION UPWARDS OR TO THE SIDE

UP TO **5 M** MODULE LENGTH



IP67
SPECIALLY FOR OUTDOOR

FLEXIBLY PLIABLE
WAVES AND CURVED SHAPES

PATENTED SYSTEM
BILTON AIR MODULAR SYSTEM

CUSTOMER-SPECIFIC
FINISHING & CUSTOMER-SPECIFIC EXTERIOR SHEATH GEOMETRY POSSIBLE

MULTIFUNCTIONAL SHEATH
SILICONE PLASTIC

PATENTED AND UNBELIEVABLY FLEXIBLE

01___BILTON LED lighting strip, developed in-house
02___Homogeneous lighting strip with no visible light points thanks to 7 evenly distributed LEDs per segment
03___Patented system (patent pending)
04___IP67 thanks to closed silicone sheath
05___Customer-specific exterior sheath geometry possible
06___Few dark spots
07___Can be simply trimmed to length by the customer
08___Less colour location shifting due to optimised design
09___Use of high-quality "silicone" raw material with no fillers, "Made in Germany"
- //__ Finely finished sheath surface for reduced susceptibility to dirt
- //__ Temperature resistant to +200°C and so can also be sterilised
- //__ No yellowing, high UV-resistance
- //__ High resistance to numerous chemical substances, e.g. salt, chlorine, cleaning chemicals, etc.
- //__ Highly tolerant of temperature change
- //__ No air inclusions
- //__ Material non-combustible and non-dripping

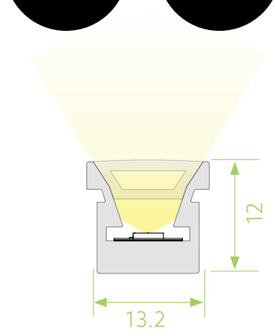
BILTON AIR

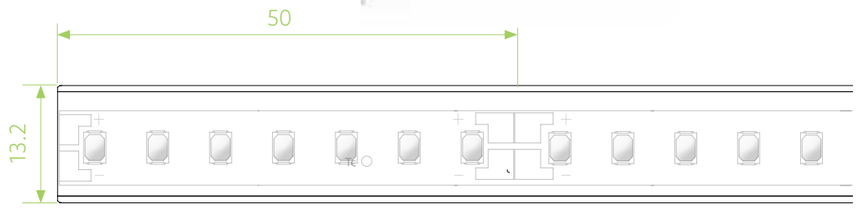
BILTON AIR is a linear LED lighting strip in a highly flexible silicone sheath. The LED module can be bent to form waves or curves in the direction of the light-emitting surface. It can be fitted with the associated mounting accessories. The LED module is fully controllable with a PWM dimmer (e.g. the BILTON LED dimmer). Binning selection per 3 SDCM (MacAdam) // Beam angle 120° // Lifetime 50,000 hrs. / L80B10 // Ambient temperature -20°C to +40°C // Storage temperature -25°C to +40°C // CE, LED RoHS-compliant.

Developed and manufactured by **BILTON** in Austria

BILTON AIR TOP

FIRE-resistant | IP67 PROTECTED BY SILICONE | Illumination UPWARDS | UP TO 5 M MODULE LENGTH





2,700 K | 3,000 K | 4,000 K | IP67 | LM80 | RoHS | CE

NAME	LUMINOUS FLUX/M*	VOLTAGE	POWER*	EFFICIENCY*	CRI	MODULE LENGTH**	EEC	IP CLASS	2,700 K	3,000 K	4,000 K
BLAIR **TOP**	450 lm/m	24 VDC	7.2 W/m	62 lm/W	> 80	5.0 m	A	IP67	101294	101297	101300
BLAIR **TOP**	850 lm/m	24 VDC	14.6 W/m	58 lm/W	> 80	5.0 m	A	IP67	101303	101306	101309

BILTON AIR is available in packaging units of 1.01 // 3.01 and 5.01 metres.

COMBINATION OPTIONS

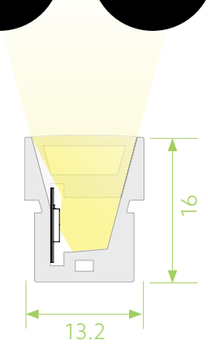
NAME	MOUNTING PROFILE		MOUNTING MATERIAL		SAFETY CLIP		END CAP PROFILE	
BLAIR **TOP 450** **BL**AIR **TOP 850**	Profile	170885	–		–		End cap TOP	170889
	Profile	170885	–		TOP Multi	170918	End cap TOP	170889
	–		–		TOP	170919	End cap TOP	170889
	–		Clip TOP	170887	TOP Multi	170918	End cap TOP	170889
	–		Clip TOP	170887	–		End cap TOP	170889

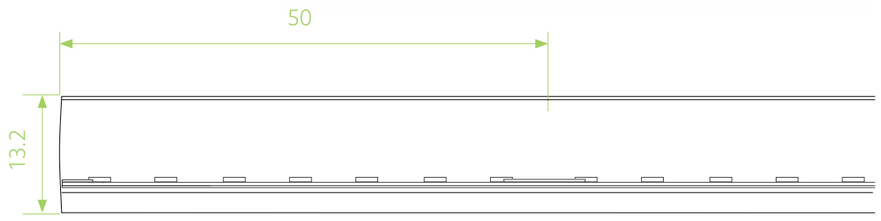
You can find more information at www.biltongroup.com

BILTON
TECHNICAL DATA

BILTON AIR SIDE

FIRE-RESISTANT | IP67 PROTECTED BY SILICONE | SIDE ILLUMINA-TION | UP TO 5 M MODULE LENGTH





2,700 K | 3,000 K | 4,000 K | IP67 | LM80 | RoHS | CE

NAME	LUMINOUS FLUX/M*	VOLTAGE	POWER*	EFFICIENCY*	CRI	MODULE LENGTH**	EEC	IP CLASS	2,700 K	3,000 K	4,000 K
BLAIR **SIDE**	450 lm/m	24 VDC	14.6 W/m	31 lm/W	> 80	5.0 m	B	IP67	101312	101315	101318

BILTON AIR is available in packaging units of 1.01 // 3.01 and 5.01 metres.

COMBINATION OPTIONS

NAME	MOUNTING PROFILE		MOUNTING MATERIAL		SAFETY CLIP		END CAP PROFILE	
BLAIR **SIDE 450**	Wall profile	170886	–		–		End cap SIDE	170890
	Profile	170885	–		–		End cap SIDE	170890
	Wall profile	170886	–		SIDE	170917	End cap SIDE	170890
	–		–		TOP Multi	170918	End cap SIDE	170890
			Clip SIDE	170888	SIDE	170917	End cap SIDE	170890
	–		Clip SIDE	170888	–		End cap SIDE	170890

* Details on the electrical and light-related measurements: Performance information measured after 1 min. at 25°C ambient temperature and light colour of 4000 K. These values are subject to a tolerance of –/+ 15%. The data can change at any time due to the rapid changes in the area of LED technologies. The most up-to-date data can be found on the website www.biltongroup.com.

** Module length at 24 V input voltage on the module and luminous flux drop < 10% over the specified length.

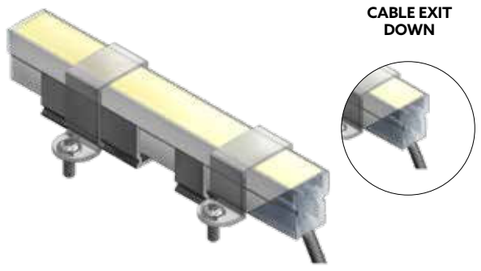
FLEXIBLE

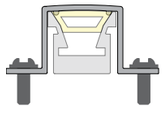
IN FORM, COLOUR AND APPLICATION

APPLICATION AREAS

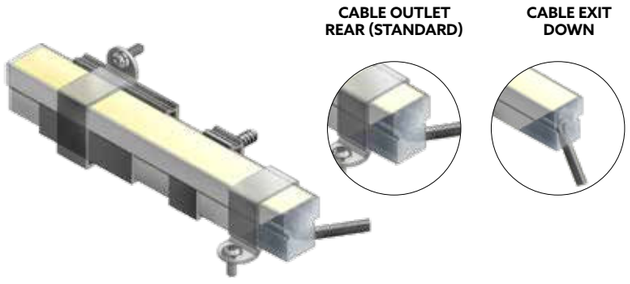
//___ Individual and customer-specific light configurations
//___ Unrestricted design freedom (can be flexibly shaped and trimmed)
//___ Object integration
//___ Illuminated advertising and illuminated lettering

ASSEMBLY PROFIEL / CLIP



PROFILE or CLIP	SAFETY CLIP TOP without profile	SAFETY CLIP MULTI with profile
		
BILTON AIR TOP + 170885	BILTON AIR TOP + 170919	BILTON AIR TOP + 170885 + 170918

ASSEMBLY WALLPROFILE / -CLIP



WALL PROFILE or -CLIP	PROFIL TOP or CLIP TOP	SAFETY CLIP MULTI without profile	SAFETY SIDE with profile
BILTON AIR SIDE + 170886	BILTON AIR SIDE + 170885 +	BILTON AIR SIDE + 170918	BILTON AIR SIDE + 170886 + 170917

You can find more information at www.biltongroup.com

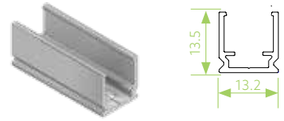
MOUNTING ACCESSORIES

The BILTON AIR family has a comprehensive range of accessories that are perfectly matched to one another. Both clips and specially matched profiles can be directly ordered at the same time so that only one thing remains to be done on site: the optimum staging of your new LED lighting solution. The combination of LED module with the associated profile guarantees very good mechanical protection. And, the BILTON AIR can be fitted to any surface with any orientation thanks to the screw-on mounting clips. Simple, quick and reliable.

PROFILE AIR

MATERIAL	DIMENSIONS (W x H x L) IN MM	ART. NO.
PC/white	12.5 x 13.5 x 2,000	170885

* Hole every 36 cm



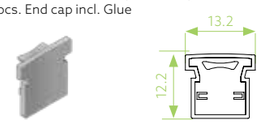
MOUNTING CLIP AIR

MATERIAL	DIMENSIONS (W x H x L) IN MM	ART. NO.
PC/white	13.2 x 13.5 x 10	170887

END CAP TOP

MATERIAL	DIMENSIONS (W x H x L) IN MM	ART. NO.
PC/white	13.2 x 12.2 x 4.2	170889

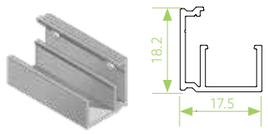
Accessory set consisting of cutting device and 10 pcs. End cap incl. Glue



WALL PROFILE

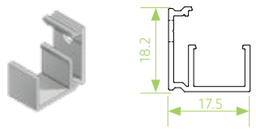
MATERIAL	DIMENSIONS (W x H x L) IN MM	ART. NO.
PC/white	17.5 x 18.2 x 2,000	170886

* Hole every 36 cm



MOUNTING CLIP AIR

MATERIAL	DIMENSIONS (W x H x L) IN MM	ART. NO.
PC/white	17.5 x 18.2 x 10	170888



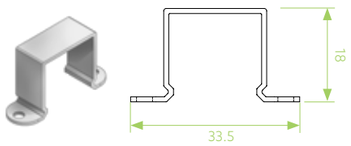
END CAP SIDE

MATERIAL	DIMENSIONS (W x H x L) IN MM	ART. NO.
PC/white	13.2 x 16.2 x 4.2	170890

Accessory set consisting of cutting device and 10 pcs. End cap incl. Glue

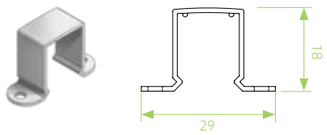
SAFETY CLIP SIDE

MATERIAL	DIMENSIONS (W x H x L) IN MM	ART. NO.
PC / transparent	29 x 16.7 x 10	170917



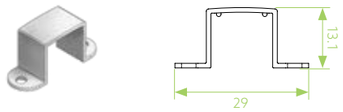
SAFETY CLIP TOP MULTI

MATERIAL	DIMENSIONS (W x H x L) IN MM	ART. NO.
PC / transparent	29 x 18 x 10	170918



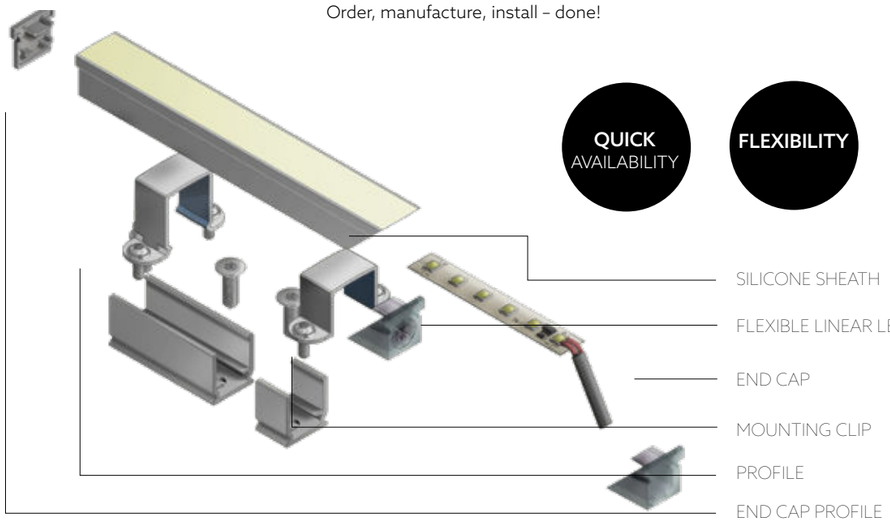
SAFETY CLIP TOP

MATERIAL	DIMENSIONS (W x H x L) IN MM	ART. NO.
PC / transparent	29 x 13.1 x 10	170919



CONFIGURATION
BILTON AIR MODULAR SYSTEM

To ensure that you can achieve your perfect light quickly and simply, the BILTON AIR family is matched to one another so that all parts fit together perfectly – just as with the rest of the range. You can construct your BILTON AIR light in just a few steps with the right tool. BILTON provides everything that you need, from the completed BILTON AIR through accessories and on to profiles, the mains power units and suitable controllers. Order, manufacture, install – done!



QUICK AVAILABILITY

FLEXIBILITY

CUSTOMER-**SPECIFIC**

CONFIGURA-TION IN **AUSTRIA**

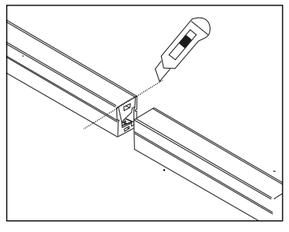
YOUR ROUTE TO PERFECT LIGHTING

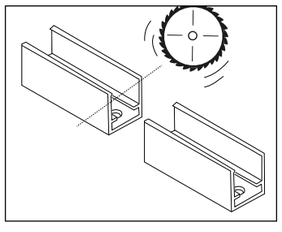
STEP 1
Trim the silicone sheath and LED module to the desired length with a cutter. Ensure that the cut is straight and perpendicular.
Note: A cold point will arise due to the shortening of the segment.

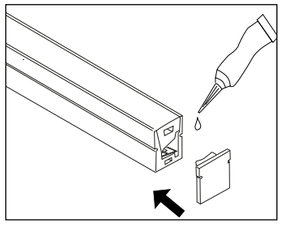
STEP 2
If a profile is to be used for mounting, trim this to the desired length. Ensure that the cut is straight and perpendicular.

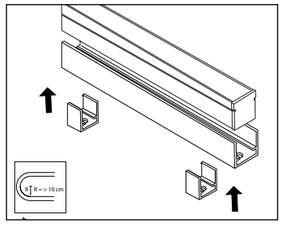
STEP 3
Glue the end cap to the silicone sheath with the adhesive provided.

STEP 4
Mount the BILTON AIR in place as desired (at points with clips for curved lighting strips, or by means of profile for straight). Note that the minimum bend radius of 100 mm must be complied with.







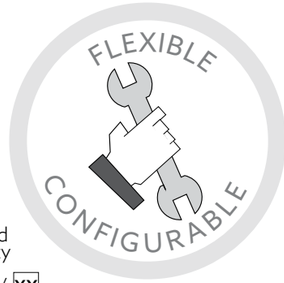


This illustration is intended only as a guide for the installation and does not replace the full installation instructions. The installation instructions can be found at www.biltongroup.com

You can find more information at www.biltongroup.com

CUSTOMER-SPECIFIC
CONFIGURATION

Would you prefer to have the BILTON AIR delivered directly in the correct dimensions? No problem! BILTON will deliver everything to enable you to install your desired light within 5 minutes. It's this simple: Select the desired article. Tell us the desired length for the light, the desired mounting system and the desired quantity. Done – that's it!



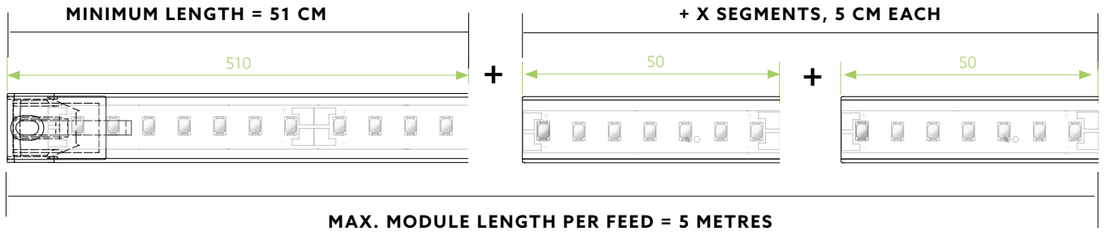
TOP / SIDE + Length* + Configuration + Mounting + Desired quantity

Beispiel

BILTON AIR TOP 850 2,700 Kelvin	+	Length	+	Pre-finishing TOP	+	Mounting material	+	Number of piece
Art.no.: 101303	+	151 cm Length	+	Art.no.: 169004	+	Art.no.: 170885	+	X piece

YOUR PROJECT – YOUR CHOICE

You have a free choice of length in order to ensure that you get the perfect size for your light. Let us know what length we should prepare for you and you will receive the light you want in the size you want, incl. connection cable. The minimum length for a BILTON AIR configuration is 51 cm. After that the light can be trimmed within the length of an LED module section. The max. module length per feed is 5 metres.



BILTON AIR CONFIGURATION

BILTON AIR CONIGURATION	ART. NO.
Pre-finishing TOP : IP67 to size, incl. 100 cm connection cable (2 x 0.5 mm²)	169004
Pre-finishing SIDE: IP67 to size, incl. 100 cm connection cable (2 x 0.5 mm²) Cable exit **down**	169005
Pre-finishing SIDE: IP67 to size, incl. 100 cm connection cable (2 x 0.5 mm²) Cable exit **rear**	169006

* BILTON AIR configuration min. 51 cm // max. 5 m possible. Custom lengths and custom products on request. Note that trimming tolerances may apply.

APPLICATIONS

IN SHAPE, COLOR AND APPLICATION

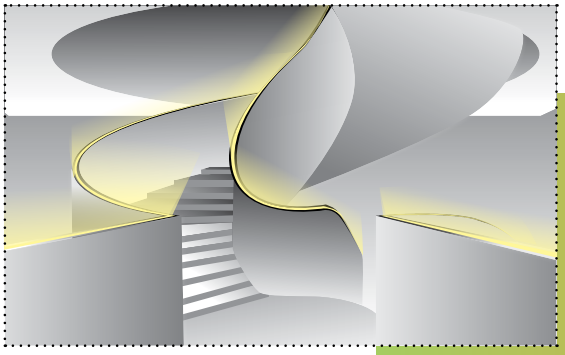
HANDRAIL LIGHTING

BILTON AIR SIDE 450 + Mounting clip SIDE + End cap SIDE

450 lm/m // 24 VDC //
14.6 W/m // IP67 // 3,000 K

PC / white
17.5 x 18.2 x 10 mm

PC /white
13.2 x 13.2 x 4.2 mm



EXTERIOR LIGHTING

BILTON AIR TOP 850 + Mounting profile TOP + Safety clip TOP

850 lm/m // 24 VDC //
14.6 W/m // IP67 // 4,000 K

PC / white
13.2 x 13.5 mm

PC / transparent
29 x 13.1 x 10 mm

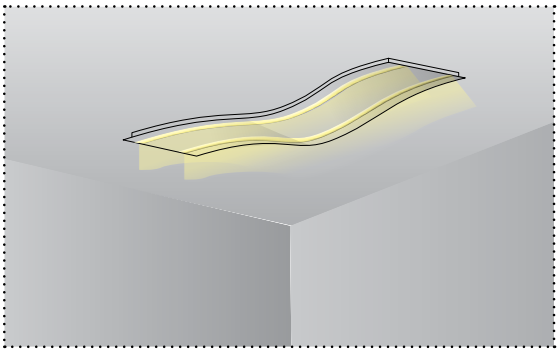
DIRECT LIGHTING

BILTON AIR TOP 450 + Mounting clip TOP + Safety clip MULTI

450 lm/m // 24 VDC //
7.2 W/m // IP67 // 2,700 K

PC / white
13.2 x 13.5 x 10 mm

PC / transparent
29 x 18 x 10 mm



BILTON INTERNATIONAL GMBH // Lofererstraße 23 // 5760 Saalfelden, Austria // Phone: +43 6582 71164 // www.biltongroup.com

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