

D DENCOP LIGHT & BUILDING

SIGNMAKING

LED TECHNOLOGY

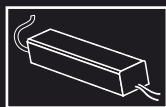
BOARD
MATERIALS

CONSTRUCTION
& ARCHITECTURE


NEON
ADVERTISING

TECHNOLOGIES
AND SERVICES

PRODUCT CATALOGUE




MATERIALS FOR ADVERTISEMENT AND CONSTRUCTION



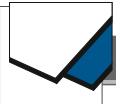
SIGNMAKING

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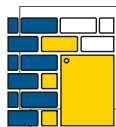
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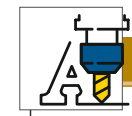
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SIGNMAKING



LED TECHNOLOGY



BOARD MATERIALS



CONSTRUCTION & ARCHITECTURE



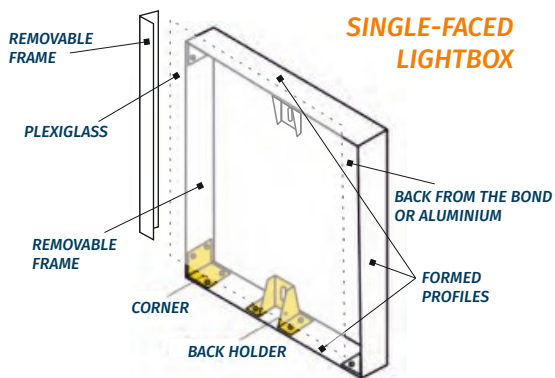
NEON ADVERTISING



TECHNOLOGIES AND SERVICES



ALUMINIUM PROFILES - LIGHTBOXES - SINGLE-FACED



SINGLE-FACED LIGHTBOX



LIGHTBOX CONFIGURATOR

EASY AND FAST CONFIGURATOR FOR YOUR LIGHT BOX

Single-faced profiles are those with their backs on the wall and **light from one side only**.

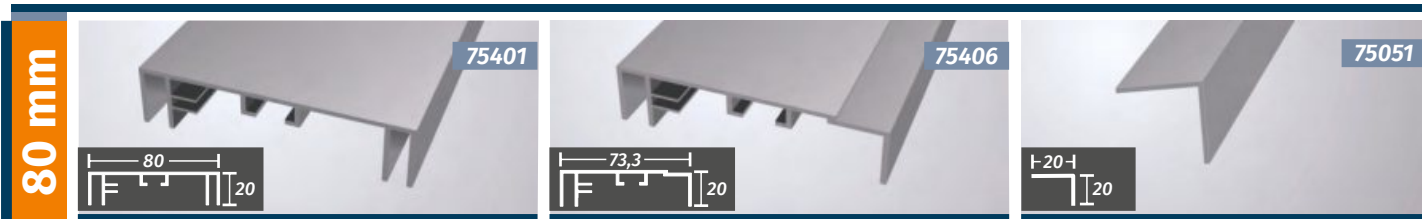
Aluminium profiles will ensure the quality construction of light boxes for illuminated advertising. The boxes are **easy to assemble** and have a high variability of use. They are characterized by a **stronger construction** than plastic. Other features are **long life, variability of assembly and aesthetic level of the finished product**.

To illuminate single-faced boxes up to a depth of 100 mm, we recommend our favorite range of DXS 2,8 W side light LED modules. DX-3 type modules with a power of 0,72 W and an angle of 160° are suitable for single-sided boxes with a depth of more than 100 mm.



CODE	WIDTH	NAME	ADDITIONAL INFORMATION
75101	72 mm	Profile locked <i>single-faced</i> anodized	
75106	72 mm	Profile for <i>removable frame single-faced</i> anodized	
75051		<i>Removable frame</i> anodized - 20 x 16,5 mm	To be used with 75106

ACCESSORIES	115143	115181	115270	116141	116140
	CORNER SHARP	REAR HOLDER	PROFILE CONNECTOR	NUT	SCREW



CODE	WIDTH	NAME	ADDITIONAL INFORMATION
75401	80 mm	Profile locked UNI anodized	
75406	80 mm	Profile for <i>removable frame single-faced</i> anodized	
75451		<i>Removable frame</i> anodized 20 x 20 mm	To be used with 75406

ACCESSORIES	115143	115181	115270	116141	116140
	CORNER SHARP	REAR HOLDER	PROFILE CONNECTOR	NUT	SCREW

110 mm



CODE	WIDTH	NAME	ADDITIONAL INFORMATION
75111	110 mm	Profile locked single-faced anodized	
75116	110 mm	Profile for removable frame single-faced anodized	
75056		Removable frame curved anodized - 21 x 23,5 mm	To be used with 75116

ACCESSORIES	115141	115180	115220	116141	116140
	CORNER SHARP	REAR HOLDER	PROFILE CONNECTOR	NUT	SCREW

120 mm



CODE	WIDTH	NAME	ADDITIONAL INFORMATION
75411	120 mm	Profile locked UNI anodized	
75416	120 mm	Profile for removable frame single-faced anodized	
75451		Removable frame anodized 20 x 20 mm	To be used with 75416

ACCESSORIES	115541	115483	116110	115220	116141	116140
	CORNER SHARP	REAR HOLDER	CONSTRUCTION HOLDER	PROFILE CONNECTOR	NUT	SCREW

130 mm



CODE	WIDTH	NAME	ADDITIONAL INFORMATION
75011	130 mm	Profile locked radius single-faced anodized	
75016	130 mm	Profile for removable frame radius single-faced anodized	
75056		Removable frame anodized - 21 x 23,5 mm	To be used with 75016

ACCESSORIES	115541	115583	115140	75220	116110	115220	116141	116140
	CORNER SHARP	REAR HOLDER	CORNER RADIUS	PLASTIC CORNER	CONSTRUCTION HOLDER	PROFILE CONNECTOR	NUT	SCREW

SIGNMAKING



LED TECHNOLOGY



BOARD MATERIALS



CONSTRUCTION & ARCHITECTURE



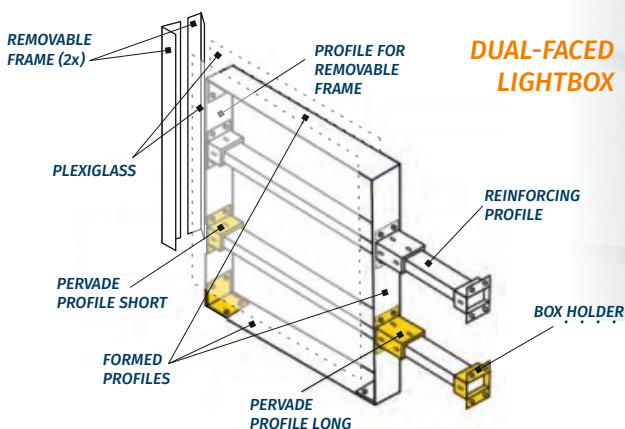
NEON ADVERTISING



TECHNOLOGIES AND SERVICES



ALUMINIUM PROFILES - LIGHTBOXES - DUAL-FACED



DUAL-FACED LIGHTBOX



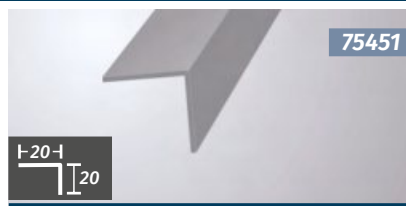
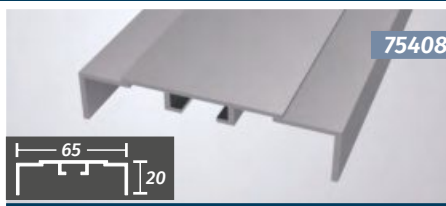
DUAL-FACED profiles are used for so-called protrusions, where the boxes are attached sideways to the wall and lit from both sides. Width profiles are produced for this use **80 mm, 120 mm, 140 mm, 150 mm a 156 mm.**

To illuminate **double-faced lightboxes DXS** modules or **DNH** modules are used on 230V. Their advantage is that you do not need to hide a transformer inside the box that could cast shadows in advertising.



VIDEO LINK HOW TO BUILD THE BOX CORRECTLY

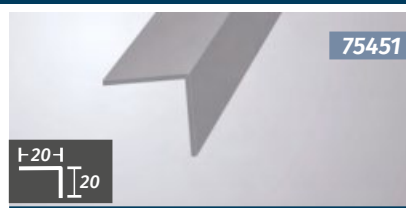
80 mm



CODE	WIDTH	NAME	ADDITIONAL INFORMATION
75401	80 mm	Profile locked UNI anodized	
75408	80 mm	Profile for removable frame dual-faced anodized	
75451		Removable frame anodized 20 x 20 mm	To be used with 75408

ACCESSORIES	115143	115027	115026	115022	115021	115191	115190	76000	115270	116141	116140
	CORNER SHARP	BOX HOLDER	BOX HOLDER	BOX HOLDER	BOX HOLDER	PERVADE SHORT	PERVADE LONG	REINFORCING PROFILE	PROFILE CONNECTOR	NUT	SCREW

120 mm



CODE	WIDTH	NAME	ADDITIONAL INFORMATION
75411	120 mm	Profile locked UNI anodized	
75418	120 mm	Profile for removable frame dual-faced anodized	
75451		Removable frame anodized 20 x 20 mm	To be used with 75418

ACCESSORIES	115541	115025	115024	115022	115021	116110	115191	115190	76000	115220	116141	116140
	CORNER SHARP	BOX HOLDER	BOX HOLDER	BOX HOLDER	BOX HOLDER	CONSTRUCTION HOLDER	PERVADE SHORT	PERVADE LONG	REINFORCING PROFILE	PROFILE CONNECTOR	NUT	SCREW

140 mm



CODE	WIDTH	NAME	ADDITIONAL INFORMATION
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75121 140 mm Profile locked dual-faced anodized
75126 140 mm Profile for removable frame dual-faced anodized
75056 Removable frame curved anodized - 21 x 23,5 mm To be used with 75126

ACCESSORIES		115541	115022	115021	115025	115024	116110	115191	115190	76000	115220	
		CORNER SHARP	BOX HOLDER	BOX HOLDER	BOX HOLDER	BOX HOLDER	BOX HOLDER	PERVADE SHORT	PERVADE LONG	REINFORCING PROFILE	PROFILE CONNECTOR	
		116141	116140									
		NUT	SCREW									

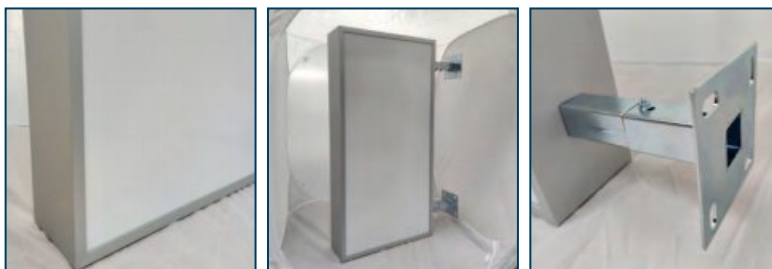
150 mm



CODE	WIDTH	NAME	ADDITIONAL INFORMATION
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75421 150 mm Profile locked dual-faced anodized
75426 150 mm Profile for removable frame dual-faced anodized
75451 Removable frame anodized - 20 x 20 mm To be used with 75426

ACCESSORIES		115541	115022	115021	115025	115024	116110	115191	115190	76000	115220	
		CORNER SHARP	BOX HOLDER	BOX HOLDER	BOX HOLDER	BOX HOLDER	BOX HOLDER	PERVADE SHORT	PERVADE LONG	REINFORCING PROFILE	PROFILE CONNECTOR	
		116141	116140									
		NUT	SCREW									



We offer aluminum profiles that are cutted to size or whole bars at a length of 6 meters.

Cutting also possible under specific angle, or straight cut.

156 mm

ALUMINIUM PROFILES















CODE	WIDTH	NAME	ADDITIONAL INFORMATION
75021	156 mm	Profile locked radius dual-faced anodized	
75026	156 mm	Profile removable frame radius dual-faced anodized	
75056		Removable frame curved anodized - 21 x 23,5 mm	To be used with 75026

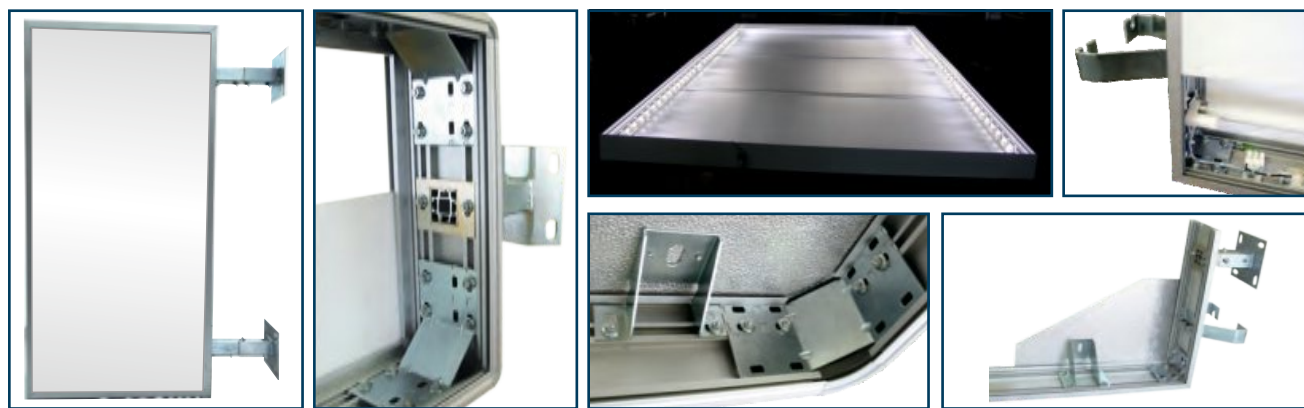
ACCESSORIES	115541	115140	75225	115022	115021	115191	115190	76000	115220	116110
	CORNER SHARP	CORNER RADIUS	CORNER PLASTIC	BOX HOLDER	BOX HOLDER	PERVADE SHORT	PERVADE LONG	REINFORCING PROFILE	PROFILE CONNECTOR	BOX HOLDER
	116141	116140								
	NUT	SCREW								

ACCESSORIES FOR ALUMINIUM PROFILES - ANCHORING MATERIAL

Anchoring materials for light boxes are made of galvanized steel. Assembly is very simple using special screws, which are inserted into the groove of the profile and tightened with a special nut M6. The screws are also protected by zinc chromate, which prevents corrosion. One type of nut and bolt is used for all anchoring elements.

	CODE: 115143 Metal corner - for a sharp corner		CODE: 115141 Metal corner - for a sharp corner		CODE: 115541 Metal corner - for a sharp corner
72 80		110		120 130 140 150 156	
	CODE: 115181 Rear holder of single-faced lightbox		CODE: 115180 Rear holder of single-faced lightbox		CODE: 115583 Rear holder of single-faced lightbox
72 80		110		130 140	
	CODE: 115483 Rear holder of single-faced lightbox		CODE: 115270 Profile connector 70 mm		CODE: 115220 Profile connector
120		72 80		110 120 130 140 150 156	
	CODE: 116110 Box holder for steel tube 40x20 mm		CODE: 115151 Reinforcing profile holder - vertical single-faced		CODE: 115150 Reinforcing profile holder - vertical
120 140 150 156		80 120 140 150 156		80 120 140 150 156	
	CODE: 115140 Metal corner - for a radius corner		CODE: 75220 Plastic corner single-faced R30 for profile 75016		CODE: 75225 Plastic corner single-faced R30 for profile 75026
130 156		130		156	

 <p>CODE: 76000 Reinforcing profile raw 35x35 mm</p> <p>80 120 140 150 156</p>	 <p>CODE: 115191 Pervade 50 mm Tube 40x40 mm, Inner 35x35 mm.</p> <p>80 120 140 150 156</p>	 <p>CODE: 115190 Pervade 100 mm Tube 40x40 mm, Inner 35x35 mm.</p> <p>80 120 140 150 156</p>
 <p>CODE: 115027 Box holder attachment to 115026</p> <p>80</p>	 <p>CODE: 115025 Box holder attachment to 115024</p> <p>120 140 150</p>	 <p>CODE: 115026 Box holder</p> <p>80</p>
 <p>CODE: 115024 Box holder</p> <p>120 140 150</p>	 <p>CODE: 115022 Box holder 150 mm</p> <p>80 120 130 140 150 156</p>	 <p>CODE: 115021 Box holder 100 mm</p> <p>80 120 130 140 150 156</p>
 <p>CODE: 116140 Screw for aluminium profiles</p> <p>72 80 110 120 130 140 150 156</p>	 <p>CODE: 116141 Nut M6</p> <p>72 80 110 120 130 140 150 156</p>	 <p>More information on anchoring material can be found at www.dencop.cz</p>



**EASY AND QUICK CONFIGURATOR
FOR YOUR LIGHTBOX**
**FIND OUT THE PRICE
AND A COMPLETE LIST OF MATERIAL REQUIRED**

**FOR SINGLE-FACED
AND DUAL-FACED
LIGHT BOXES**

QR CODE →



FLEX FACE - LARGE AREA BANNER ADVERTISING

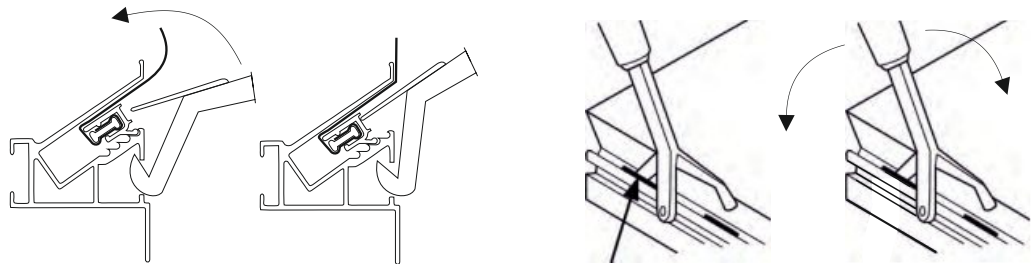
SUITABLE WHERE PLEXIGLASS CANNOT BE USED, IDEAL FOR LARGE ADVERTISING AND TOTEMS



In our offer you will find aluminum profiles in the length of 6 m, from which it is possible to put together **large advertising areas** with a depth of 20 cm and 25 cm. The Flex Face system is a **single-faced profile** that is used in combination with **vinyl film** to create large-scale advertising.

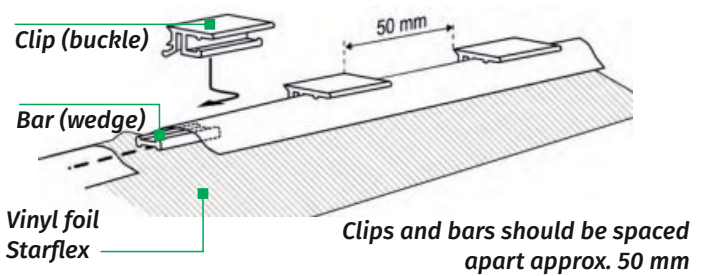
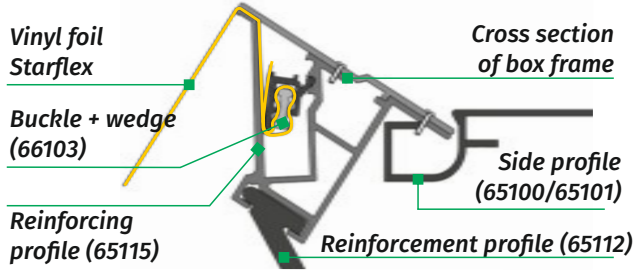
The great advantage of this system is its **low weight and flat surface** (dimensions 5 x 4 m or more). By removing the cover strips, the front side is simply opened and it is not necessary to un-stretch the vinyl. The profiles are joined by **welding, screwing or gluing** with a construction glue.

Information to the Flex face system can be found here →



CODE	WIDTH	NAME
65115		Flex face profile - rod 6 m
65100	200 mm	Flex face profile single-faced 20 cm - raw - 6 m
65113		Flex face cover strip - raw - 6 m

ACCESSORIES	CODE	NAME
	66103	Flex face buckle + wedge (clip+bar) to secure the foil width 50 mm
	65900	Flex face inner corner for side profile 20 cm
	65910	Flex face inner corner 1 for profile 65115 V = 19 mm
	65911	Flex face inner corner 2 for profile 65115 V = 13 mm
	65930	Flex face screw for inner corner side profile 3,9 x 9,5 mm
	65931	Flex face screw for inner corner profile 65115 3,9 x 13 mm
	65112	Flex face profile frame reinforcement (cut by 5 cm)



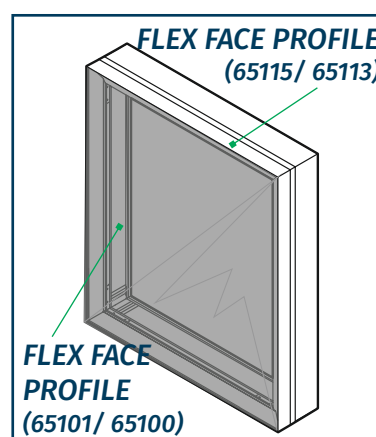
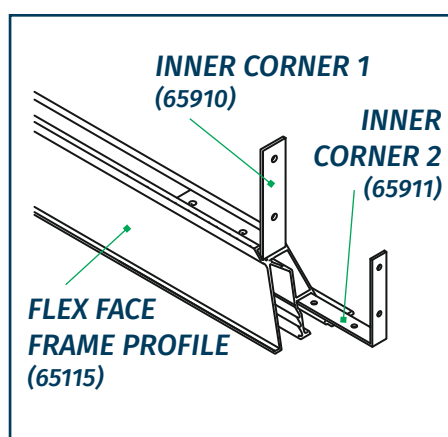
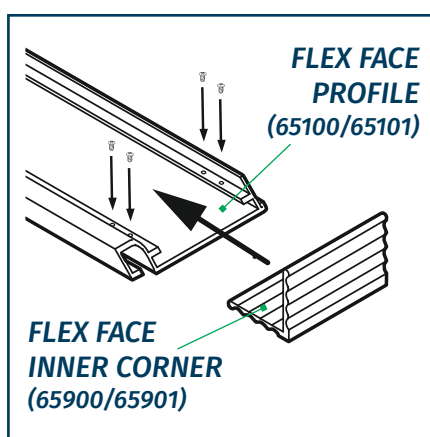
250 mm



FLEX FACE

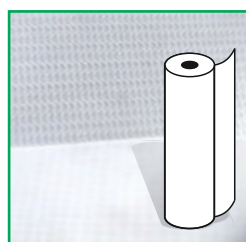
CODE	WIDTH	NAME
65115		Flex face profile - rod 6 m
65101	250 mm	Flex face profile single-faced 25 cm - raw - 6 m
65113		Flex face cover strip - raw - 6 m

ACCESSORIES	66103	65901	65910	65911	65930	65931	65112
	Flex face buckle + wedge (clip+bar) tu secure the foil width 50 mm	Flex face inner corner for side profile 20 cm	Flex face inner corner 1 for profile 65115 V = 19 mm	Flex face inner corner 2 for profile 65115 V = 13 mm	Flex face screw for inner corner side profile 3,9 x 9,5 mm	Flex face screw for inner corner profile 65115 3,9 x 13 mm	Flex face profile frame reinforcement (cut by 5 cm)



VINYL FILMS FOR THE FLEX FACE SYSTEM

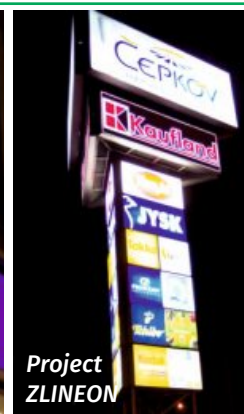
STARFLEX



CODE	NAME	SIZE	WEIGHT
62185	Starflex B1 SF-1000	1,80 x 50 m	680 g/m ²
62250	Starflex B1 SF-1000	2,50 x 50 m	680 g/m ²
62320	Starflex B1 SF-1000	3,20 x 50 m	680 g/m ²
62500	Starflex B1 SF-1000	5,00 x 50 m	680 g/m ²

680 g/m² - highest density on market

Starflex is a backlit banner with high value of light transmission. Suitable for attaching translucent foil or digital printing. PES fabric with 1000 x 1000 binding.



More information, technical manuals and current prices can be found at www.dencop.cz

SIGNMAKING



LED TECHNOLOGY



BOARD MATERIALS



CONSTRUCTION & ARCHITECTURE



NEON ADVERTISING



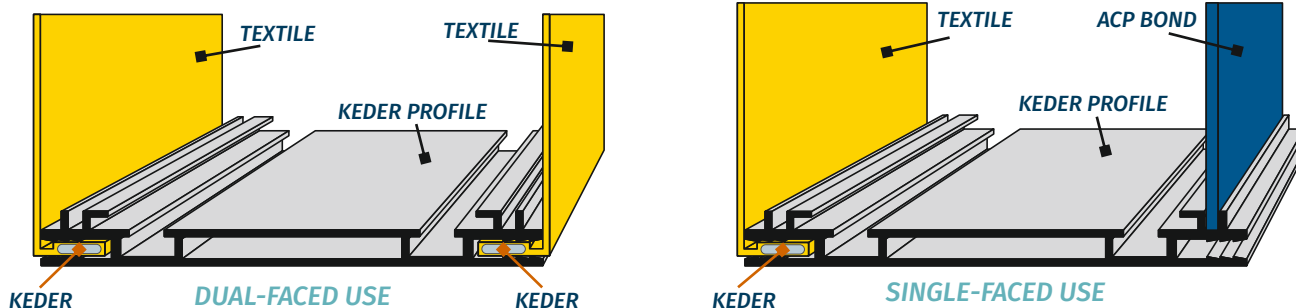
TECHNOLOGIES AND SERVICES



KEDER PROFILES FOR ADVERTISING

Aluminum profiles and accessories for the production of illuminated and non-illuminated panels with a textile banner with a keder. Keder aluminium profiles are our own design and complement the range of aluminum boxes for plexiglass and large-scale advertising with a banner.

ONE TYPE OF PROFILE FOR SINGLE FACED AND DUAL-FACED USE



60 mm

KEDER PROFILE



CODE 75510
NAME Keder profile UNI anodized
WIDTH 60 mm
DESCR. Profile suitable for single-faced or dual-faced use with textile+keder, profile length 6 m.

115149	115185	116141	116140	115189	951	950
CORNER SHARP	REAR HOLDER	NUT	SCREW	STEEL BASE FOR KEDER FRAME 490x120 mm	PVC KEDER FOR SEWING (TAPE) 14x3 mm	TX HAMMER KEDER silver, 14x7 mm

114 mm

KEDER PROFILE



CODE 75520
NAME Keder profile UNI anodized
WIDTH 114 mm
DESCR. Profile suitable for single-faced or dual-faced use with textile+keder, profile length 6 m.

115541	115187	115022	115021	115025	115024	115191	115190	76000	115220
CORNER SHARP	REAR HOLDER	HOLDER	HOLDER	HOLDER	HOLDER	PERVADE SHORT	PERVADE LONG	REINFORCING PROFILE	CONNECTOR
116141	116140	115189	951	950					
NUT	SCREW	STEEL BASE FOR KEDER FRAME 490x120 mm	PVC KEDER FOR SEWING (TAPE) 14x3 mm	TX HAMMER KEDER silver, 14x7 mm					

FURNITURE

KEDER PROFILE



CODE 75530
NAME Furniture profile raw
WIDTH 33 mm
DESCR. Profile suitable for exhibitions and furniture. Profile length 6 m.

ACCESSORIES	
951	950
PVC KEDER FOR SEWING (TAPE 14x3 mm)	TX HAMMER KEDER silver, 14x7 mm

SIGNMAKING



LED TECHNOLOGY



BOARD MATERIALS



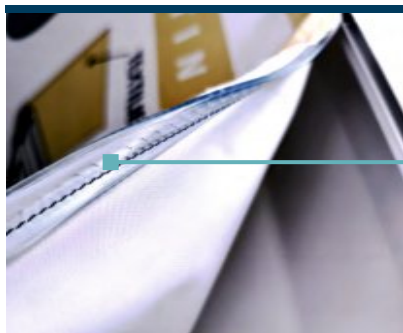
CONSTRUCTION & ARCHITECTURE



NEON ADVERTISING

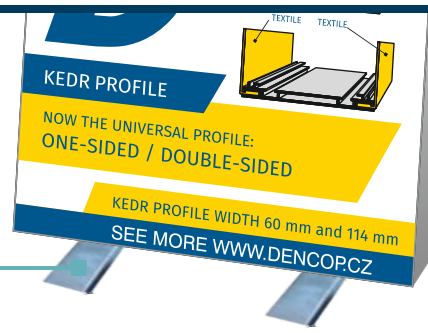


TECHNOLOGIES AND SERVICES



Keder tape (951) sewn to the fabric with graphics

Steel base (115189) for keder frame



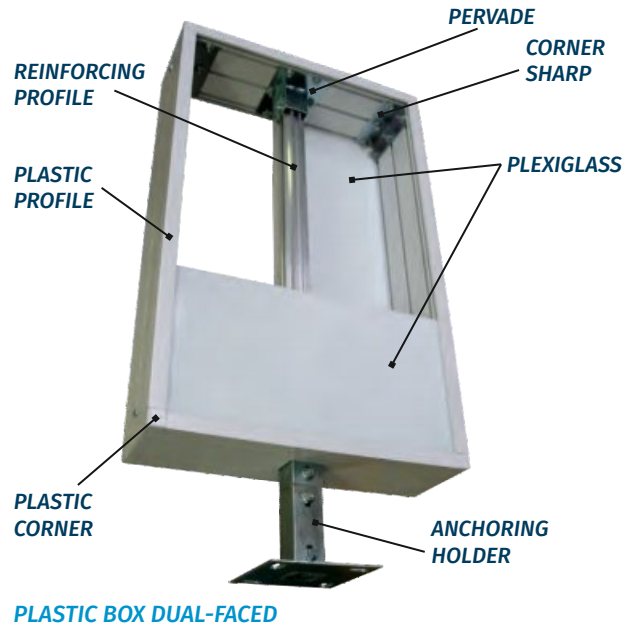
PLASTIC PROFILES FOR THE PRODUCTION OF LIGHT BOXES

PROFILES ARE UNIVERSAL (FOR SINGLE-FACED AND DUAL-FACED USE)

Thanks to their simplicity, advertising boxes made of plastic profiles are ideal for start-up companies in the field of illuminated advertising. No machinery is required during production. **The modular system speeds up assembly.** For larger dimensions of advertising panels, it is necessary to sufficiently strengthen the boxes with the help of reinforcing profiles or to assemble an auxiliary structure. Plastic profiles are lighter than aluminium, but have a lower load capacity, so they are not suitable for large dimensions and their service life is significantly shorter. We recommend using it indoors, where PVC is not subject to environmental influences, as well as outdoors. The profiles are **in widths of 90, 130 and 180 mm** and there are corresponding sharp corners, for 130 mm round ones are also available.

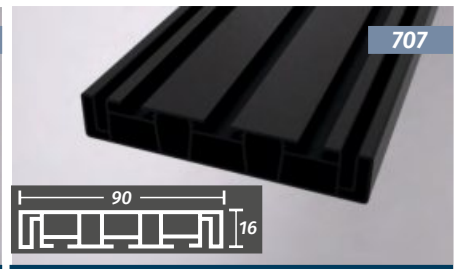
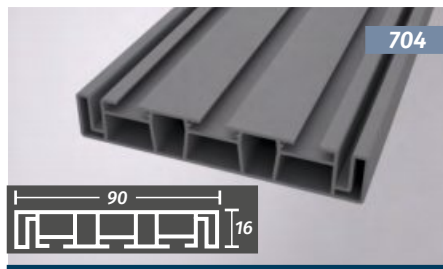
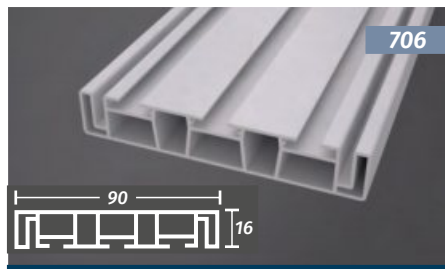
The maximum thickness of inserted plexiglass is 4 mm. All profiles have metal connecting parts made for quick assembly, which are modified by galvanizing (holders, corners, nuts, screws). **Assembly is very simple** thanks to special screws that are inserted into the groove of the profile and tightened with a special nut M6.

Use: for smaller advertisements indoors or outdoors. We will be happy to cut-to-size the profiles according to the dimensions need. The standard length of profiles is 4 m.



90 mm

PLASTIC PROFILE

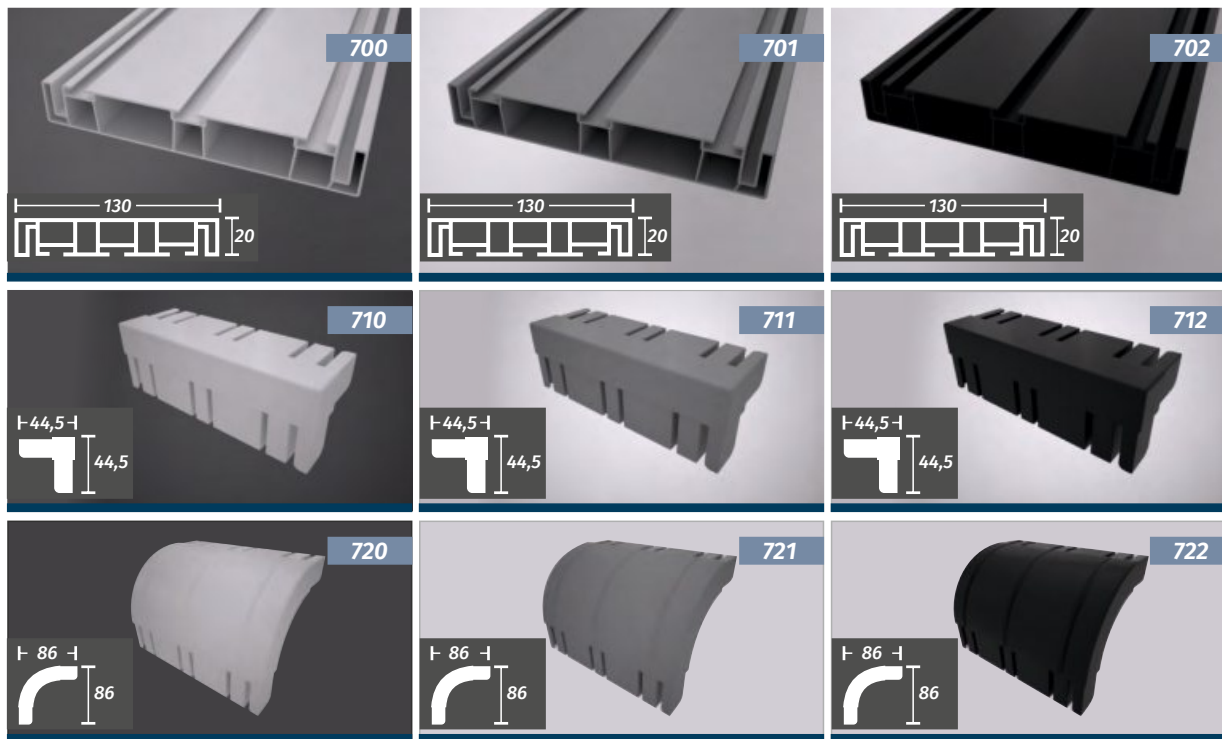


CODE	WIDTH	NAME	COLOR
706	90 mm	Plastic profile - length 4 m	white
716	90 mm	Sharp plastic corner	white
704	90 mm	Plastic profile - length 4 m	grey
713	90 mm	Sharp plastic corner	grey
707	90 mm	Plastic profile - length 4 m	black
717	90 mm	Sharp plastic corner	black

ACCESSORIES	115148	115021	115022	76000	115191	115190	729	730	733	731
	CORNER SHARP	HOLDER	HOLDER	REINFORCING PROFILE	PERVADE SHORT	PERVADE LONG	SCREW	SCREW + NUT	SCREW	SCREW + NUT
	116141	116140	732							
	NUT	SCREW	DESIGNED SCREW							

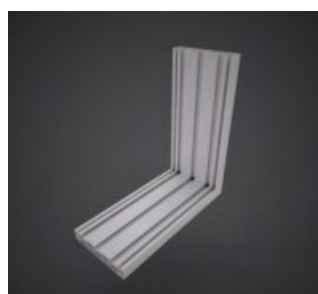
130 mm

PLASTIC PROFILE



CODE	WIDTH	NAME	COLOR
700	130 mm	Plastic profile - length 4 m	white
710	130 mm	Sharp plastic corner	white
720	130 mm	Round plastic corner	white
701	130 mm	Plastic profile - length 4 m	grey
711	130 mm	Sharp plastic corner	grey
721	130 mm	Round plastic corner	grey
702	130 mm	Plastic profile - length 4 m	black
712	130 mm	Sharp plastic corner	black
722	130 mm	Round plastic corner	black

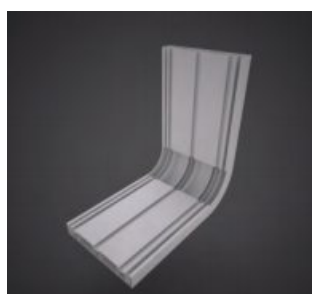
ACCESSORIES	115182	115145	115144	115021	115022	115192	76000	732	728	729
	CORNER SHARP	CORNER SHARP	CORNER	HOLDER	HOLDER	PERVADE SHORT	REINFORCING PROFILE	DESIGNED SCREW	SCREW	SCREW
	730	733	731	116141	116140					
	SCREW + NUT	SCREW	SCREW + NUT	NUT	SCREW					



PROFILE CONNECTION WITH SHARP CORNER



PROFILE CONNECTION WITH SHARP CORNER (DISASSEMBLED)



PROFILE CONNECTION WITH ROUND CORNER



PROFILE CONNECTION WITH ROUND CORNER (DISASSEMBLED)

More information, technical manuals and current prices can be found at www.dencop.cz

SIGNMAKING



LED TECHNOLOGY



BOARD MATERIALS



CONSTRUCTION & ARCHITECTURE

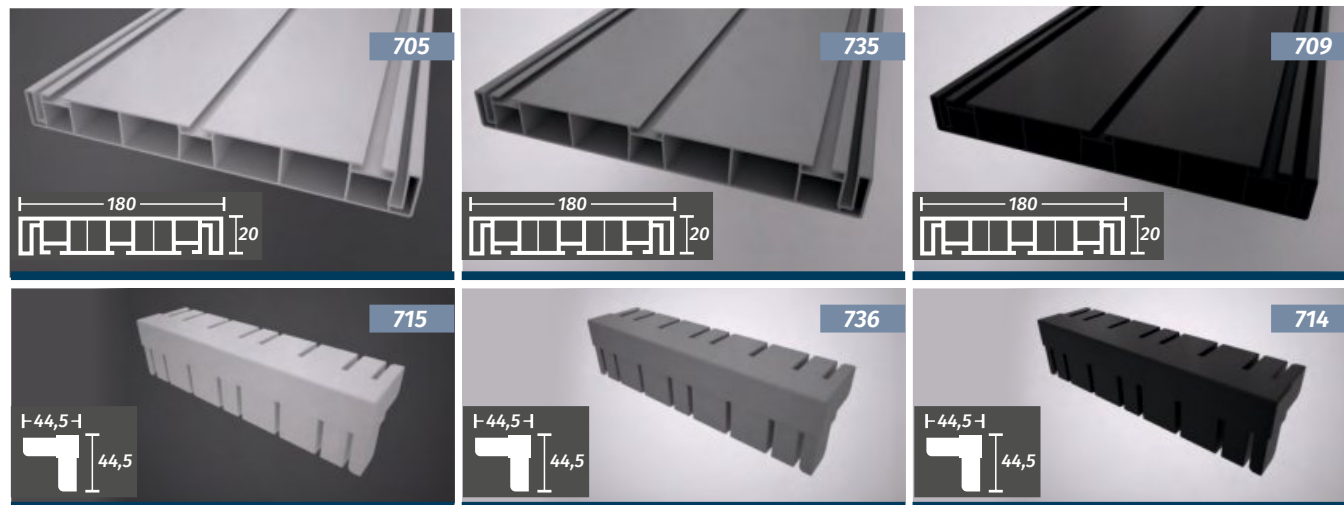


NEON ADVERTISING



TECHNOLOGIES AND SERVICES
















CODE	WIDHT	NAME	COLOR
705	180 mm	Plastic profile - length 4 m	white
715	180 mm	Sharp plastic corner	white
735	180 mm	Plastic profile - length 4 m	grey
736	180 mm	Sharp plastic corner	grey
709	180 mm	Plastic profile - length 4 m	black
714	180 mm	Sharp plastic corner	black

The 180 mm plastic profile is supplied *without accessories*. Used only for cladding the box structure.

ACCESSORIES FOR PLASTIC PROFILES - ANCHORING MATERIAL

 <p>CODE: 115182 Metal wall holder for single-faced plastic profile 130</p>	 <p>CODE: 115148 Metal wall holder for single-faced plastic profile 90</p>	 <p>CODE: 115145 Sharp metal corner for plastic profile 130</p>
 <p>CODE: 115144 Radius metal corner for plastic profile 130</p>	 <p>CODE: 115192 Short pervade for plastic profile 50 mm 130</p>	 <p>CODE: 730 Screw for plastic profile + nut 15 mm 90 130 180</p>
 <p>CODE: 731 Screw for plastic profile - long + nut 40 mm 90 130</p>	 <p>CODE: 729 Screw for plastic profile, without nut 15 mm 90 130 180</p>	 <p>CODE: 728 Screw for plastic profile - medium without nut, 25 mm 130</p>
 <p>CODE: 732 Designed screw for plastic profile 30 mm 90 130 180</p>	 <p>CODE: 733 Screw for plastic profile - long, without nut, 40 mm 90 130</p>	




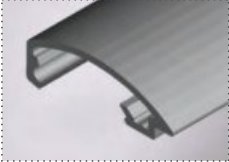

SNAP FRAME PROFILES

Snap frame profiles and accessories of high quality and durability are the ideal choice for hanging leaflets or other important messages. We offer a **wide range of profiles** that can be prepared according to your requirements. In the offer you will also find poster clamp snap frames, which we supply in a length of up to 6 meters. We can cut to size the profiles to the dimensions you need.

PROFILES FOR ILLUMINATED APPLICATIONS

We offer a **wide range of shapes and dimensions of aluminum profiles** for the production of snap frames, which are used for **non-illuminated applications**. Together with the accessories, you will get the ideal means for simple processing, easy assembly and manipulation of your advertisement. ideal for design of posters, information messages and promotional materials.

SNAP FRAME PROFILES **20/25 mm**

	CODE: 237115 Base profile raw 20/25 mm - length 6 m		CODE: 137029 Top profile radius anodized, double-sided 156 mm - length 6 m
	CODE: 237117 Base profile anodized 18/20 mm - length 6 m		CODE: 237086 Top profile angled top anodized 21 mm - length 6 m
			CODE: 237027 Top profile anodized 20 mm - length 6 m for 45° cut

ACCESSORIES

	CODE: 237146 Corner radius chrome for 25 mm profile		CODE: 237350 Hanging hook pro snap frames
	CODE: 137151 Metal corner 18-20 mm for profiles		CODE: 237999 Tool to open the snap frame
			CODE: 237191 Tension spring 18-20/25 (2-3 pcs for 1 m)





CODE: [237122](#)
Base profile anodized
 32/45 mm - length 6 m



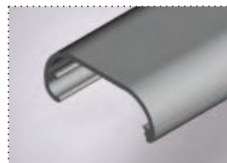
CODE: [237120](#)
Base profile raw
 single-faced
 32/45 mm - length 6 m



CODE: [137125](#)
Base profile raw
 dual-faced
 32/45 mm - length 6 m



CODE: [237042](#)
Top profile anodized
 32 mm - length 6 m
 can be used with corners
 237180 and 237186



CODE: [237052](#)
Top profile anodized
 32 mm - length 6 m
 for 45° cut



CODE: [137062](#)
Top profile anodized
 45 mm - length 6 m
 can be used with corners
 137170 and 137176

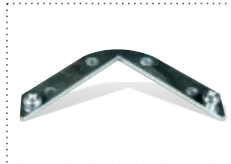


CODE: [137072](#)
Top profile anodized
 45 mm - length 6 m
 for 45° cut



CODE: [137070](#)
Top profile raw
 45 mm - length 6 m
 for 45° cut

ACCESSORIES



CODE: [237155](#)
Metal corner
 for profile 32/45 mm



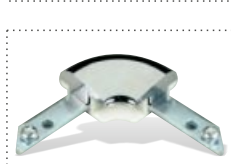
CODE: [137154](#)
Metal corner - sharp
 for profile 32/45 mm



CODE: [237180](#)
Radius plastic gray corner
 for 32 mm profile



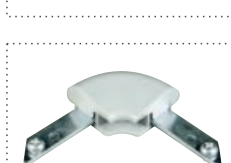
CODE: [237192](#)
Tension spring 32
 28 x 22 mm (2-3 pcs for 1 m)
 (6 mm plexiglass + 1 mm PVC)



CODE: [237186](#)
Radius chrome corner
 for 32 mm profile



CODE: [137194](#)
Tension spring 45
 (2-3 pcs for 1 m)



CODE: [137170](#)
Radius plastic grey corner
 for 45 mm profile



CODE: [237350](#)
Hanging hook
 for snap frames




CODE: [137176](#)
Radius chrome corner
 for 45 mm profile



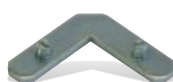




CODE: [237999](#)
Tool to open snap frames






PROFILES FOR ILLUMINATED APPLICATIONS

SNAP FRAME PROFILES		32/45 mm
	<p>CODE: 237132</p> <p>Base profile LED anodized 32/45 mm - length 6 m, 9 mm groove (8 mm plexiglass + 1 mm PVC)</p>	
	<p>CODE: 75058</p> <p>Profile for illuminated snap frames - length 6 m For top profile is recommended profile 237052</p>	<p>CODE: 237052</p> <p>Top profile anodized 32 mm, cut 45° - length 6 m</p>
	<p>CODE: 237192</p> <p>Tension spring 32 (2-3 pcs for 1 m) 28 x 22 mm</p>	<p>CODE: 237155</p> <p>Metal corner for profiles 32/45 mm</p>
	<p>Top profile (237052)</p> <p>Snap frame profile (75058)</p> <p>Top profile (75406, 75416, 75426 - double-sided)</p>	<p>CODE: 237255</p> <p>Metal corner for profile 237132</p>
		<p>CODE: 237250</p> <p>Hanging hook</p>
		<p>Profile for snap frame (237132)</p> <p>Top profile (237052)</p>

FRAME PROFILES

FRAMING PROFILE NON-ILLUMINATED	FRAMING PROFILE ILLUMINATED	
		
<p>CODE: 237905</p> <p>Framing profile decorative anodized, 5 mm groove for plexiglass and PVC, length 6 m</p>	<p>CODE: 237902</p> <p>Framing LED profile anodized, 6 mm groove for plexiglass and PVC, length 6 m</p>	
		
<p>CODE: 237255</p> <p>Metal corner for profiles 32/45 mm</p>	<p>CODE: 237155</p> <p>Metal corner for profiles 32/45 mm</p>	
	<p>FINISHED SNAP FRAMES PRODUCT (READY TO HANG) on page 58</p>	
<p>CODE: 237250</p> <p>Hanging hook</p>		

SNAP FRAMES - POSTER CLAMP

	<p>CODE: 237234</p> <p>Poster clamp base profile anodized width 30 mm; length 6 m</p>	
	<p>CODE: 237233</p> <p>Poster clamp top profile anodized width 30 mm; length 6 m</p>	
	<p>CODE: 137233</p> <p>Side cover L+R</p>	
	<p>CODE: 137234</p> <p>Plastic holder profile</p>	

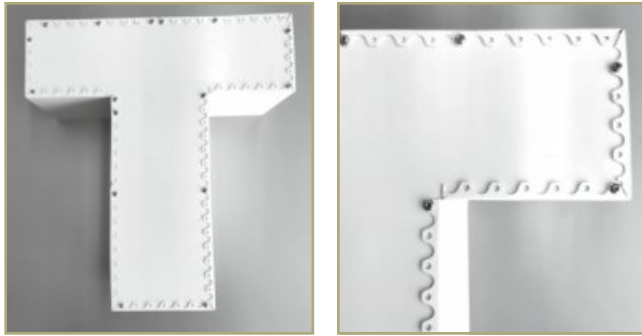
PRODUCTION OF 3D LETTERS - SAMI PROFILE

SAMI PROFILE SYSTEM

The profiles are made of a soft aluminum alloy, where the surface in the case of the white variant is treated with PE spray, which guarantees perfect adhesion, without the risk of cracking the paint during bending.

The profiles are provided on the front side with a protective foil against deterioration during handling and processing.

To anchor the plexiglass, an Elkamet frame is used, into which the plexiglass is glued and placed on the produced letter.

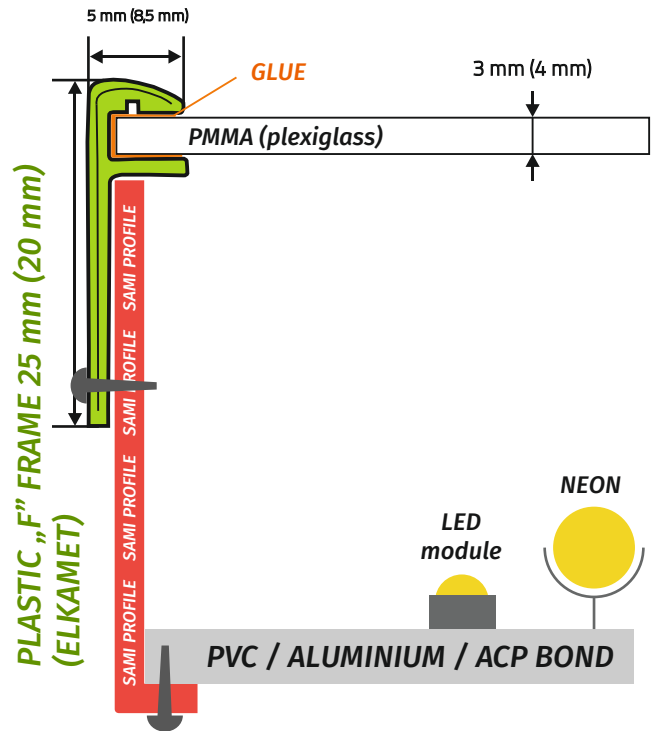


Body of letter "T" from Sami profile, attached to the back of aluminum sheet.

Construction:

Plexiglass is glued with an "F" frame and forms a so-called lid. The body itself from the Sami profile is firmly mounted on the wall via a back plate made of PVC, aluminum sheet or ACP bond, which is part of the body and is also equipped with a LED modules.

The profiles are supplied in two-meter lengths.



Summary: simpler production, no special tools needed. Easy to repair the broken signs, thanks to removable Elkamet frame.

SAMI PROFILE

The profile for the production of plastic channel letters is provided in its rear part with a serrated edge with holes for mounting the back plate.

The back is fitted with 10 mm PVC, 1-2 mm aluminum sheet or ACP bond plate.

Thickness: 0.6 mm (for letters up to approx. 60 cm high) and 0.8 mm (for applications up to 1 m height).

Note: the difference between the size of the forehead (plexiglass) and the size of the back (PVC) must be at least + 1,2 mm on each side. The plexiglass must therefore always be 2,4 mm larger.

The profile for the production of plastic letters, plexiglass is covered with an Elkamet frame, which is then anchored to the SAMI profile by screwing, so that it is possible to repair the electrical installation inside the letter at any time.

The back is usually fitted with PVC.

	CODE: 850
	Thickness 0,6 mm
	Width 130 mm
	Length 2000 mm
	Color white gloss

	CODE: 851
	Thickness 0,6 mm
	Width 130 mm
	Length 2000 mm
	Color raw

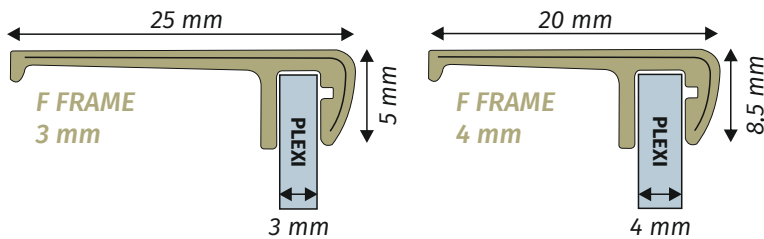
	CODE: 847
	Thickness 0,8 mm
	Width 130 mm
	Length 2000 mm
	Color white gloss

	CODE: 843
	Thickness 0,8 mm
	Width 130 mm
	Length 2000 mm
	Color raw

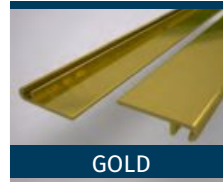
Other sizes and colors on request.

PLASTIC „F” FRAMES (ELKAMET)

Elkamet F frames are an essential part of the rim of light letters and advertising signs. They are suitable for anchoring plexiglass or PVC in thicknesses of 3 and 4 mm to plastic letters or other more complex shapes. Elkamet F frames are made of cellulose acetobutylate (CAB), which guarantees extreme resistance to weathering. We supply F frames also in rolls of 50 meters, which will significantly increase your usability and minimize any cuttings. On request, we are able to produce in these coils and other colors. We also offer F frames in piece profiles with a length of 4 m.



We recommend F frames with Crystal plexiglass 3 mm (4 mm) and Mafix glue.



GOLD



BRONZE



SILVER GLOSS



SILVER MATT

COLORS / SIMILAR TO RAL		STANDARD ELKAMET		DENCOP	
		ROD LENGTH 4 m FOR PLEXI WIDTH 3 mm	COIL 50 m FOR PLEXI WIDTH 3 mm	ROD LENGTH 4 m FOR PLEXI WIDTH 4 mm	ROD LENGTH 4 m FOR PLEXI WIDTH 3 mm
RAL 9003	WHITE	88100	88100R	88200	88500
RAL 9005	BLACK	88101	88101R	88201	88501
RAL 3020	RED	88102	88102R	88202	88502
RAL 5017	BLUE	88103	88103R	88203	88503
RAL 6032	GREEN	88108	88108R	88208	88508
	GOLD	88105	88105R	88205	88505
	SILVER GLOSS	88106	88106R	88206	88506
RAL 5002	BLUE	88113	88113R		88513
RAL 1004	YELLOW	88104	88104R	88204	
	BRONZE	88107	88107R	88207	
	SILVER MATT	88106M	88106MR		88506M
RAL 1023	YELLOW	88109	88109R		
RAL 3000	RED	88122	88122R		
RAL 5013	BLUE	88123	88123R		
RAL 2004	ORANGE				88509
RAL 3001	RED				88512
RAL 7043	GREY				88516
RAL 6029	GREEN				88508
RAL 1018	YELLOW				88504
RAL 5015	BLUE				88523
RAL 2009	ORANGE	88110			
RAL 7022	DARK GREY	88111			

The color of the F-frames is always approximate to the indicated RAL color.

More information, technical manuals and current prices can be found at www.dencop.cz



PRODUCTION OF 3D LETTERS - ALUROL

ALUROL SYSTEM

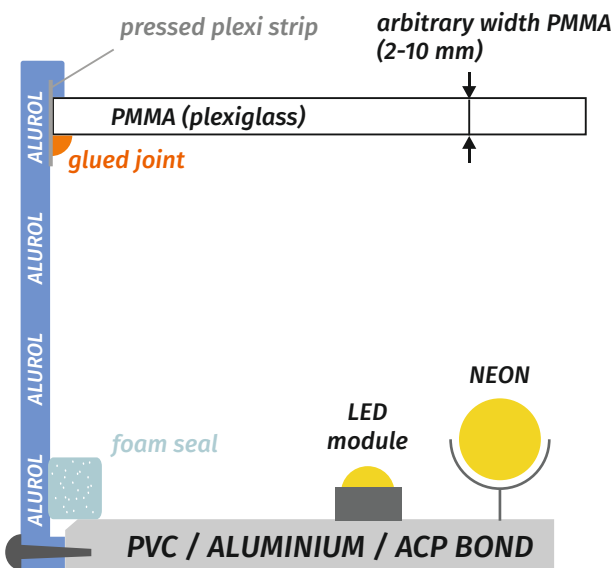
The basic difference from the system of Sami profile is in the placement of plexiglass, where you do not have to use an "F" frame, because the plexiglass is glued directly in the body.

The ideal solution for plastic letters from 30 to 200 cm high, depending on the width used and the reinforcing construction.

The profiles with a thickness of 0.5 mm are provided with a protective foil. The front side of the plexiglass and the back side of the PVC 10 mm are produced in the same size.







The difference in construction: the plexiglass is **glued directly to the Alurol profile** and thus forms the body of the letter, which is mounted on a PVC board fitted with a light source - LED modules or neon, anchored to the wall.







The aluminum profile is rolled on both sides, provided on the front side with a PE edging, which fulfills the purpose of joining the profile and plexiglass and to stabilize the front edge in the case of sawing the rebate in bending. The back is fitted with an anti-dust foam tape, which prevents dirt from entering the letter. The advertisement is anchored via PVC to the wall or placed on the structure. With this system, the plexiglass together with the body is removable and only the PVC board on the wall remains under it.



Summary: more time and tool consuming, during repair only PVC board remains on the wall.

ALUROL 3D - roll 50 m

	Width	*30 mm	60 mm	80 mm	100 mm
	Code	8030	8060	8080	8100
WHITE GLOSS	Width	120 mm	140 mm	167 mm	217 mm
	Code	8120	8140	8160	8210
	Width	*30 mm	60 mm	80 mm	100 mm
	Code	8036	8066	8086	8106
SILVER RAL 9006	Width	120 mm	140 mm	167 mm	217 mm
	Code	8126	8146	8166	8216
	Width	*30 mm	60 mm	80 mm	100 mm
	Code	-	-	-	8109
CREAM	Width	120 mm	140 mm	167 mm	217 mm
	Code	8129	8149	-	-
	Width	*30 mm	60 mm	80 mm	100 mm
	Code	8038	8068	8088	8108
GREEN RAL 6029	Width	120 mm	140 mm	167 mm	217 mm
	Code	8128	8148	8168	8218
	Width	*30 mm	60 mm	80 mm	100 mm
	Code	8031	8061	8081	8101
BLACK RAL 9005	Width	120 mm	140 mm	167 mm	217 mm
	Code	8121	8141	8161	8211
	Width	*30 mm	60 mm	80 mm	100 mm
	Code	8330	8360	8380	8300
GREY RAL 7024	Width	120 mm	140 mm	167 mm	217 mm
	Code	8320	8340	8370	8310

	Width	*30 mm	60 mm	80 mm	100 mm
	Code	8030M	8060M	8080M	8100M
WHITE MATT	Width	120 mm	140 mm	167 mm	217 mm
	Code	8120M	8140M	8160M	8210M
	Width	*30 mm	60 mm	80 mm	100 mm
	Code	8034	8064	8084	8104
YELLOW RAL 1023	Width	120 mm	140 mm	167 mm	217 mm
	Code	8124	8144	8164	8214
	Width	*30 mm	60 mm	80 mm	100 mm
	Code	8032	8062	8082	8102
RED RAL 3020	Width	120 mm	140 mm	167 mm	217 mm
	Code	8122	8142	8162	8212
	Width	*30 mm	60 mm	80 mm	100 mm
	Code	8033	8063	8083	8103
BLUE RAL 5002	Width	120 mm	140 mm	167 mm	217 mm
	Code	8123	8143	8163	8213
	Width	*30 mm	60 mm	80 mm	100 mm
	Code	8035L	8065L	8085L	8105L
GOLDEN GLOSS	Width	120 mm	140 mm	167 mm	217 mm
	Code	8125L	8145L	8165L	8215L
	Width	*30 mm	60 mm	80 mm	100 mm
	Code	8036L	8066L	8086L	8106L
SILVER GLOSS	Width	120 mm	140 mm	167 mm	217 mm
	Code	8126L	8146L	8166L	8216L

	Width	*30 mm	60 mm	80 mm	100 mm
	Code	8035B	8065B	8085B	8105B
	Width	120 mm	140 mm	167 mm	217 mm
GOLDEN BRUSH	Code	8125B	8145B	8165B	8215B
	Width	*30 mm	60 mm	80 mm	100 mm
	Code	8036B	8066B	8086B	8106B
	Width	120 mm	140 mm	167 mm	217 mm
SILVER BRUSH	Code	8126B	8146B	8166B	8216B
	Width	*30 mm	60 mm	80 mm	100 mm
	Code	-	-	-	8107
	Width	120 mm	140 mm	167 mm	110 mm
BRONZE	Code	8127	8147	-	804
	Width	*30 mm	60 mm	80 mm	100 mm
	Code	-	-	-	8107L
	Width	120 mm	140 mm	167 mm	217 mm
BRONZE GLOSS	Code	8127L	8147L	-	-

ALUROL 3D PROFILES non-standard color MOQs:

We can supply you with profiles of any width and RAL color. The following minimum order quantities apply:


WIDTH	MOQ
30 mm	5000 m
60 mm	3200 m
80 mm	2600 m
100 mm	2200 m
120 mm	1800 m
140 mm	1600 m
167 mm	1500 m
217 mm	1500 m


* quantity is approximate, may vary slightly depending on color

The color of Alurol is always approximate. The real color may vary slightly from RAL.


ALLUMINIUM CHANNEL LETTER PROFILE FOR BENDING MACHINES


ALUMINIUM PROFILE roll 100 m **Al 0,6**


	Width	60 mm	80 mm	100 mm
	Code	9266061	9266081	9266101
	Aluminium width: 0,6 mm Package: roll 100 m			
WHITE RAL 9016				


	Width	60 mm	80 mm	100 mm
	Code	9266060	9266080	9266100
	Aluminium width: 0,6 mm Package: roll 100 m			
RAW				

ALUMINIUM PROFILE roll 100 m **Al 0,5**

	Width	72 mm	110 mm
	Code	9286071	9286111
	Aluminium width: 0,5 mm Package: roll 100 m		
WHITE RAL 9016			

	Width	72 mm	110 mm
	Code	9286072	9286112
	Aluminium width: 0,5 mm Package: roll 100 m		
BLACK RAL 9005			

	Width	72 mm	110 mm
	Code	9286074	9286114
	Aluminium width: 0,5 mm Package: roll 100 m		
RED RAL 3020			





	Width	72 mm	110 mm
	Code	9286073	9286113
	Aluminium width: 0,5 mm Package: roll 100 m		
SILVER METALLIC			

Profiles are supplied with a protective foil on the front side. The color is approximate to the indicated RAL color.

LED BLOCK

We offer complete solutions for systems for the production of 3D letters from a PMMA LED block. Special LED modules for plexiglass blocks, which are used for milled 3D letters are inserted into milled grooves and further encapsulated with a special compound - you can find it with us under the name **Wepuran (code: 140)**

MATERIAL REQUIRED FOR THE PRODUCTION OF THE LED BLOCK:

 <p>551921</p>	+	 <p>140</p>	+	 <p>35720 / 35730</p>	=	
<p>MINI LED MODULE PMMA 7000 K, 12 V DC, 0,2W, IP67 distance between modules 18 mm</p>		<p>WEPURAN VT 3402 KK sealing compound 2-component, 1+1 kg</p>		<p>PMMA PRO LED opal LED 3050x2030; 1010x2030 thickness 20 and 30 mm</p>		

ACCESSORIES FOR THE PRODUCTION OF CHANNEL LETTERS

CHANNEL LETTER SPACERS



To hold and offset letters from the base

- plastic
- 1 pcs/2 components



EXAMPLE MEASUREMENT

Code	Size	For size of letters
240712	7 x 12 mm	up to 100 mm
241414	14 x 14 mm	up to 250 mm
242017	20 x 17 mm	up to 400 mm
242420	24 x 20 mm	up to 400 mm



CODE: 894
Pneumatic bender



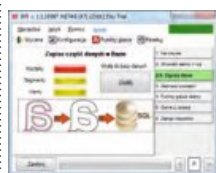
CODE: 897
Hand forming roller for 3D letters
1 cylinder for 3D letters

For the production of 3D letters using the **Alurol method** and the profile itself in combination with "F" **Elkamet frames**. The tool guarantees precise bending of profiles without defects with maximum accuracy.

ADHESIVES FOR THE PRODUCTION OF 3D LETTERS CAN BE FOUND ON PAGE 25



CODE: 857
Magnets for shaping 3D letters
Sizes:
Ø 26 mm
height 30 mm



CODE: 8701
PROGRAM BENDING POINT INDICATOR for making 3D letter bends
Software for marking bends on aluminum profiles 3D Alurol. Replaces classic measuring with measuring tape. Significantly speeds up the production process of 3D letter creation while eliminating potential sizing errors.



CODE: 873
Mounting desk
1250 x 1250 mm



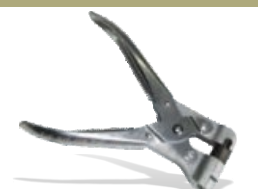
CODE: 852
Bending pliers
For:
SAMI PROFILE
ALUROL



CODE: 858
Punching pliers
For:
ELKAMET



CODE: 854
Pliers for water holes
For:
SAMI PROFILE
ALUROL



CODE: 855
Corner pliers single groove
For Aluminium to the thickness 0,8 mm



CODE: 859
Cutting pliers
For:
ELKAMET



CODE: 856
Corner pliers
For:
ELKAMET



CODE: 862
TOOL SET
Includes pliers for making 3D letters: bending, for water holes, corner, punching cutting



CODE: 872
Mounting wedges
Pack of 100 pcs



CODE: 870
Measuring tape
10 m roll



CODE: 871
Mounting pins
Pack of 100 pcs

PRODUCTION OF 3D LETTERS

PREPARATION OF 3D LETTERS

We now offer a service for bending the sides of 3D letters according to your data. We bend on an automatic controlled machine.

We can offer you a **comprehensive range of PVC + PLEXIGLASS + ALUROL 3D + LED + power supplies**, including machining services.

How does it work?

Send us data in curves, on the basis of which we will prepare an offer for side panels, front plexiglass, the back of the letter made of PVC and also for LED modules and sources. If you are interested, we will also suggest the assembly of LED modules into the sent data using the LED wizard program and we will hand over everything in graphical form. We then adjust the data for the bending machine and use them to mill plexiglass and PVC. Finally, we carefully package the individual parts and deliver them to the address of your choice.

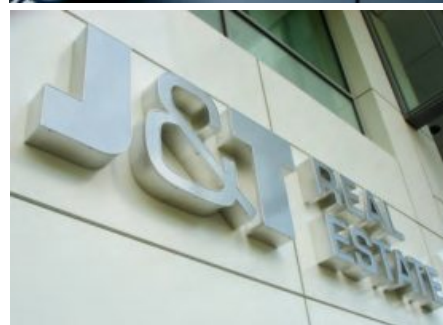
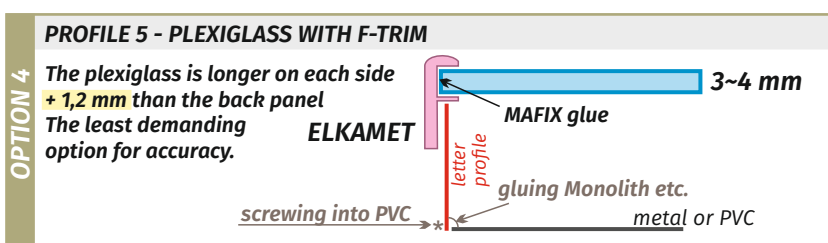
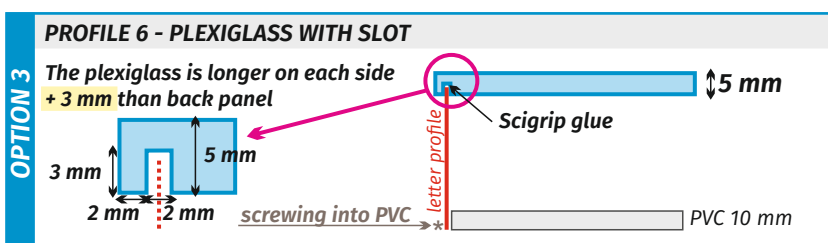
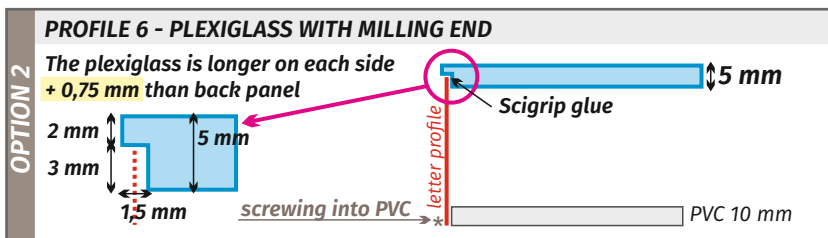
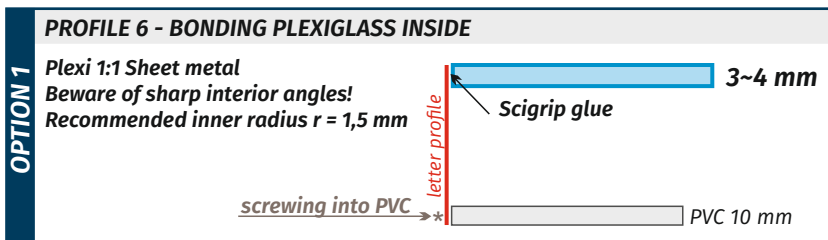
What will you do?

Letters assemble! I.e. you will need to glue the side panel with plexiglass, our mounting plate (873), wedges (872) and pins (871) for 3D letters can help you with that. Furthermore, the milled PVC back can be fitted with LED modules (our LED Wizard software can help you), prepare the cabling and



MANUAL - METHOD OF MANUFACTURING 3D LETTERS (MACHINE SIDE)

WARNING! The minimum radius must be 6 mm, for smaller radius, we recommend a sharp corner.



SIGNMAKING



LED TECHNOLOGY



BOARD MATERIALS



CONSTRUCTION & ARCHITECTURE



NEON ADVERTISING



TECHNOLOGIES AND SERVICES



SPECIAL GLUES FOR SIGNMAKING



In the offer you will find **highly effective adhesives** for gluing **plexiglass, aluminum, glass, PVC, polycarbonates**, etc. Also guns for gluing in various designs. Our adhesives are able to fully replace mechanical connections.

[MORE INFORMATION ON GLUES](#) ➔

GLUES

MEGA-FIX	UNIVERSAL	
	CODE: 112 For: SAMI PROFILE ALUROL Universal glue MEGA-FIX - 290 ml (based on ms polymer). Glues LED modules, PC polycarbonate, PS polystyrene, PUR polyurethane, PVC and other materials. Replaces nails, screws, rivets,...	 CODE: 8901 Scigrip 42, 230 ml Two-component, clear acrylic adhesive. Glues plexiglass to polyester, cellulose, polycarbonate and other materials. It is applied with a dosing gun (code: 8933)
MONOLITH 342 - 1	UNIVERSAL	MAFIX 2 MCL
 Monolith is blue colored!	CODE: 8900 3D glue Monolith 342-1 - 380 ml Two-component, reinforcing methacrylate adhesive developed for structural joints of metals, thermoplastics and mixed materials. Mixed in a ratio of 10: 1, it can be opened 4 to 6 minutes and handling time is 25 mins.	CODE: 111 For: ELKAMET Mafix 2 MCL - 250 ml Glues PMMA and PVC together. Suitable for connecting Elkamet F frames with plexiglass.
FENOPLAST PVC	PVC	MAFIX ALKAFEN PVC
	CODE: 116 Mafix Alkafen PVC - transparent 200 ml Used for structural joints using swelling penetration of parts of all kinds PVC. Suitable for ABS bonding. Not suitable for PMMA and acrylic.	 CODE: 117 Mafix Alkafen PVC - white 200 ml Used for structural joints using swelling penetration of parts of all kinds PVC. Suitable for ABS bonding. Not suitable for PMMA and acrylic.
MAFIX ALKACRYL PMMA	PLEXIGLASS	COLLAKRYL KD PLASTIDITE
	CODE: 118 Alkacryl PMMA glue on plexiglass 200 ml tube Crystal clear adhesive, quick drying, for gluing plexiglass and profiles.	 CODE: 110 Collakryl KD plastidite glue 1 kg Clear for gluing plexiglass with ALUROL. Suitable for smaller letters, very fast hardening. It also bonds PMMA with PMMA.
PMMA	PLEXIGLASS	ALTUGLAS S2003/E
	CODE: 115 0,5 l For: ALUROL CODE: 135 0,25 l For: ALUROL PMMA glue for 3d letters Glues plexiglass with Alurol 3D profiles	 CODE: 106 Altuglas S2003/E adhesive for gluing plexiglass in various applications of signmaking. Transparent, one-component glue.
ACRIFIX 192	PLEXIGLASS	ACRIFIX 192
	CODE: 114 ACRIFIX 192 - tube 200 ml Light curing - by UV lamp, fluorescent lamp or daylight. For gluing joints, edges and surfaces. Clear, moderately viscous. Suitable for gluing clear cast and extruded plexiglass, or plexiglass with other materials (ABS, CAB, PVC)	 CODE: 124 ACRIFIX glue 192 - 1 kg bottle Light curing - by UV lamp, fluorescent lamp or daylight. For gluing joints, edges and surfaces. Clear, moderately viscous. Suitable for gluing clear cast and extruded plexiglass, or plexiglass with other materials (ABS, CAB, PVC)

PLEX 9021

CHANNEL LETTERS



CODE: 112

Plex 9021 glue for 3D letters 1 l

The thick glue is one-component, colorless glue with intensive fragrance. Used for gluing tape on the front of the letter during construction letters up to a maximum height of 80 cm.

SEALING COMPOUNDS

WEPURAN VT 3402 KK

SEALING COMP.



CODE: 140

For: LED BLOCK

Wepuran VT 3402 KK sealing compound 2 component 1+1 kg

Crystal clear transparent, high optical properties, excellent UV stability, weather resistant.

CRYSTALGEL

SEALING COMP.



CODE: 141

For: LED BLOCK

Crystalgel sealing comp. 2-component 1+1 L.

Clear silicone for insulating fillings and closing of junction boxes and cabinets containing electrical connections up to 1 kV, or electronic components. The package contains a measuring cup.

PLASTIC CLEANER

VUPLEX



CODE: 121

VuPlex spray 235 ml

Cleaner suitable for clear and colored plastics, polished metals, and glass surfaces. After application, surfaces are polished and protected, keeps them in great condition, and prevents them from aging. VuPlex spray forms a polymer film, repels water, removes salt and stains from pores. It is antistatic.

GLUE GUNS

GUN FOR MONOLITH

GUN



CODE: 8923

Metal gun extruder for **Monolith** and others adhesives
Color: red

GUN FOR SCIGRIP

GUN



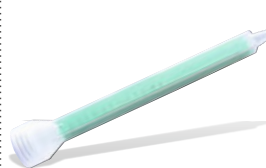
CODE: 8933

Metal gun extruder for **Scigrip 42** and others adhesives
Color: blue

MIXERS

MIXER FOR MONOLITH

MIXER



CODE: 8902

3D Mixer for **Monolith** glue
Attachment for mixing two components of Monolith adhesive.
After use and curing, it is no longer possible to use again.

MIXER FOR SCIGRIP

MIXER

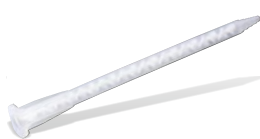


CODE: 8912

3D Mixer for **Scigrip 42** glue
After use and curing, it is no longer possible to use again.

MIXER FOR MONOLITH

MIXER



for tube 50 ml

CODE: 8904

3D Mixer for **Monolith** glue
Attachment for mixing two components of Monolith adhesive.
After use and curing, it is no longer possible to use again.

DISPENSER FOR PMMA

DISPENSER



CODE: 874 250 ml

CODE: 875 50 ml

Special **dispenser** for **PMMA** adhesive



ALUMINIUM PROFILES FOR TOTEMS

Components for the production of illuminated and non-illuminated pylons, totems and protrusions with rounded plexiglass. Perfect shape, stable and durable construction. We offer aluminum profiles for totems in various designs in a length of 6,1 m. The construction profiles can be adjusted to the length you require. The profiles are mounted on a steel supporting structure.



CONSTRUCTION:

- 1 Pylon
- 2 Steel square tube
20 x 20 x 2 mm
30 x 20 x 2 mm

No.	CODE	LENGTH / SIZE	NAME
1	133114	6100 mm	Pylon profile 20S anodized



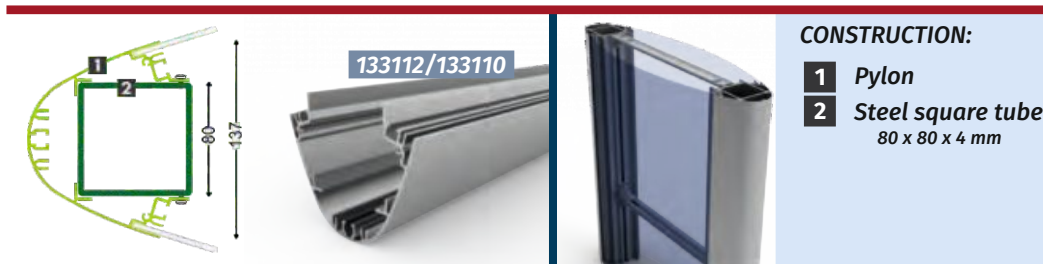
CONSTRUCTION:

- 1 Pylon
- 2 Steel tube
Ø 50 mm/
thickness 5 mm
- 3 Steel square tube
80 x 80 x 4 mm

No.	CODE	LENGTH / SIZE	NAME
1	133117	6100 mm	Pylon profile 50R anodized
1	133115	6100 mm	Pylon profile 50R raw



Project Luna Ateliér



CONSTRUCTION:

- 1 Pylon
- 2 Steel square tube
80 x 80 x 4 mm

No.	CODE	LENGTH / SIZE	NAME
1	133112	6100 mm	Pylon profile 80V anodized
1	133110	6100 mm	Pylon profile 80V raw



CONSTRUCTION:

- 1 Pylon
- 2 Steel square tube
20 x 20 x 2 mm
30 x 20 x 2 mm
- 3 5 Tension springs
- 4 6 Snap frame

No.	CODE	LENGTH / SIZE	NAME
1	133134	6100 mm	Pylon profile 20S/2S raw
3	137195	42 x 25 mm	Tension spring FL20 (2-3 pcs per 1 m)
4	137612	6100 mm	Snap frame FL20/49 SL anodized
5	137196		Tension spring
6	137632	6100 mm	Pylon profile FL30/57 SL anodized

NUMBER FLAPS

NUMBER FLAPS FOR TOTEMS AT PETROL STATIONS

You can download the exact layout of the number flaps "templates for number flaps" on our website www.dencop.cz

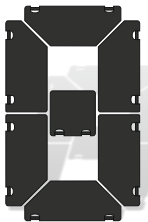
Suitable for material up to 3 mm thick (PMMA - plexiglass, sheet metal, debond).



← DOWNLOAD LINK FOR TEMPLATE

TEMPLATES AVAILABLE:
FORMAT .pdf .cdr .dxf
SIZES 15, 23, 30 cm


NUMBER OF FLAPS SET



CODE	SIZE
8103370	6"/15 cm
8103270	9"/23 cm
8103170	12"/30 cm

The set includes flaps included pivots needed for one digit

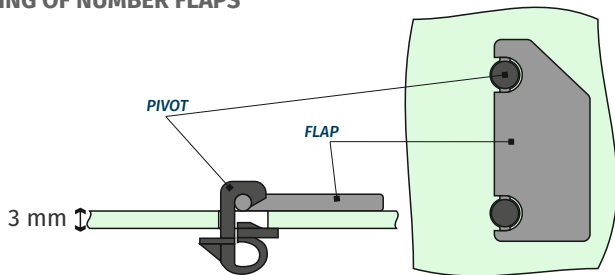
PIVOT FOR NUMBER FLAPS



CODE 8103201

Spare pivot for number flaps

DRAWING OF NUMBER FLAPS



DIGITAL DISPLAYS

DIGITAL DISPLAYS FOR GAS STATIONS

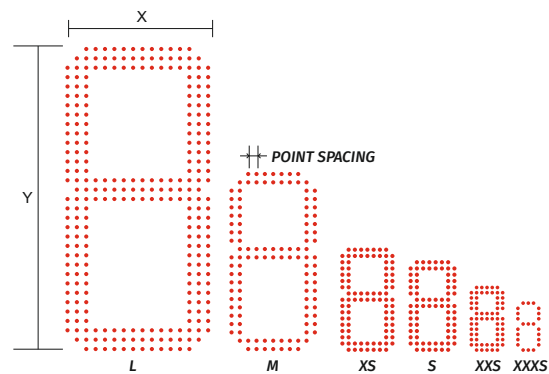


Active Overheat Protection over 80°C



High readability in direct sunlight
Uses the most advanced LED technology
Constant current (max. @ 20mA)
Simple, reliable and easy installation
Multi-segment font RV1e Shell
Elliptical viewing angle
(vertical width 100°, horizontal 40°)
Overheat protection
Automatic light switch
Moisture protection

Input voltage: 100-254 VAC
Operating temperature: -20°C to +50°C
Material: aluminum
Display dimensions: height 170-688 mm, depth 55 mm



	L	M	S	XS	XXS	XXXS
Y (mm)	576	336	238	168	120	90
X (mm)	270	160	126	84	60	40
Point spacing	18	16	14	12	10	10
LED #	288	130	108	84	70	29

	Dot32	Dot30	Dot11
Y (mm)	30	28,5	11
X (mm)	26	27,1	11
Point spacing	15	15	11
LED #	7	6	4

More information, technical manuals and current prices can be found at www.dencop.cz

SIGNMAKING



LED TECHNOLOGY



BOARD MATERIALS



CONSTRUCTION & ARCHITECTURE



NEON ADVERTISING



TECHNOLOGIES AND SERVICES



INTERIOR TURNTABLES

230V turntables or can be alternatively powered by batteries for indoor use.

Turntables are suitable for both the standing flat or for hanging on the ceiling or wall. We also have a speed controller for selected types of stands. If you need advice on choosing the most suitable solution, do not hesitate to contact us. On request, we also supply heavy-duty turntables for outdoor presentations.

ATTENTION:

For turntables, it is important to observe the **maximum load and even weight distribution** of the rotating object! It is also necessary to take into account the dimensions of the rotating surface, which generates additional torque. It is also important to **prevent blocking of the turntable** by external objects, or manual manipulation (stopping / pushing).

CURRENT OFFER OF TURNTABLES



TURNTABLES



SP 1022 SERIES - compact, clockwise rotation, load 1 kg - hinged 0,5 kg

CODE	NAME / INFORMATION
542	Turntable motor for 12V AC SP 1022 2,5 rpm, 70 N.cm
522	Turntable motor for 230 V AC SP 1022 5 rpm, up to 100 N.cm

POSSIBLE MODIFICATION:
Very variable, options according to query requirements

TURNTABLES FOR 230V



S 080 SERIES - compact, very quiet, for interior use

CODE	NAME / INFORMATION
524	Rotary motor stand S 080/15 cm - max. Load 5 kg, 2 rpm. clockwise rotation; 4 W; 150 x 65 mm

POSSIBLE MODIFICATION:
Opposite direction of rotation, speed rotation, version with rod for bulb, battery version



SWD 100 SERIES - galvanized, compact, double ball bearings, quiet, interior

CODE	NAME / INFORMATION
529	Rotary motor stand SWD 100 - max load 10 kg, 2.5 rpm. clockwise rotation; 4 W; 130 x 72 mm; weight 1.2 kg

POSSIBLE MODIFICATION:
Opposite direction of rotation, speed rotation, version with el. outlet ceiling design, white, battery version option



SW 200/300/500 SERIES - for horizontal placement in the interior, robust, noiseless

CODE	NAME / INFORMATION
525	SW 200 - load 20 kg; 2.5 rpm; clockwise 4W; weight 2.3 kg;
577	SW 300 - load 30 kg; 2 rpm; clockwise; 6W; weight 3 kg;
519	SW 500 - load 50 kg; 2.5 rpm; clockwise; 6W; weight 3.9 kg;

POSSIBLE MODIFICATION:
Opposite direction of rotation, speed rotation, version with el. outlet, ceiling design, rod version for bulb, reverse operation, timer, direction switch



SW 1000/2000/3000 SERIES - interior, robust, ground/ wall/ ceiling, triple ball bearings

CODE	NAME / INFORMATION
541	SW 1000 - load 100 kg; 2.5 rpm; clockwise; 30W; weight 16.5 kg
544	SW 2000 - load 200 kg; 2.5 rpm; clockwise; 30W; weight 16.5 kg
568	SW 3000 - load 300 kg; 2.5 rpm; clockwise; 30W; weight 16.5 kg

POSSIBLE MODIFICATION:
Opposite direction of rotation, speed rotation, version with el. outlet, ceiling design, super quiet version, reverse operation, timer, direction switch, speed



U 5000/7500 SERIES - through hollow shaft, universal use, indoor and outdoor use

CODE	NAME / INFORMATION
574	U 5000 - load 500 kg; 1 rpm; clockwise; 14W; weight 24 kg
575	U 7500 - load 750 kg; 1 rpm; clockwise; 14W; weight 24 kg

POSSIBLE MODIFICATION:
Opposite direction of rotation, speed rotation, version with el. outlet, ceiling design, reversible operation, timer

FOILS AND ACCESSORIES

QR codes are linked to our e-shop www.dencop.cz

BANNERS FOR DIGITAL PRINTING



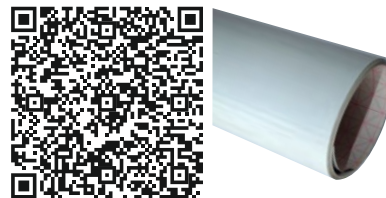
IN THE OFFER:
STARFLEX
With anti-fungal treatment of fibers

FOILS FOR DIGITAL PRINTING



IN THE OFFER:
IMAGIN JT, IMAGIN FL, PERMAGRAD,
PERMAPRINT, PRINTVINYL, UNIFOL,
UNIFOL BF, UNIFOL ECO, UNIFOL POLY

FOILS FOR ILLUMINATED ADVERTISING



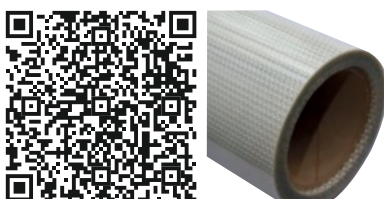
IN THE OFFER:
ASLAN CT 116, MACAL 9700 PRO,
ASLAN W 15

MAGNETIC FOILS



IN THE OFFER:
unmodified, white matt, self-adhesive

LIGHTFIELD TECHNICAL FOILS



IN THE OFFER:
LIGHTFIELD

WINDOW AND DECORATIVE FOILS



IN THE OFFER:
ASLAN CT 113, ASLAN SF, UNIFOL

PLOTTER SELF-ADHESIVE FOILS



IN THE OFFER:
MACAL 8200 PRO, MACAL 8300 PRO,
MACAL 9800 PRO, MACAL 9800 PRO SL

TRANSFER FOILS



IN THE OFFER:
MAC TRANSFER

TEMPLATE FOILS



IN THE OFFER:
MACK MASK, ASLAN S 79

SPECIAL PLOTTER FOILS



IN THE OFFER:
MACAL 8000, MACLITE 5700,
ASLAN CA 23, ASLAN C60, ASLAN C61

SIGNMAKING TOOLS AND ACCESSORIES



CODE NAME / DESCRIPTION

801050	Onka application liquid 5 l
801005	Onka application liquid 0.5 l with spray
800050	Offka glue remover 5 l
800005	Offka glue remover 0.5 l with spray
50003	Plastic soft spatula 70 x 100 mm
2751	Double-sided tape MACmount 25 x 66 mm

FLUORESCENT LAMPS



COMPLETE OVERVIEW
FLUORESCENT LAMP
AND ACCESSORIES

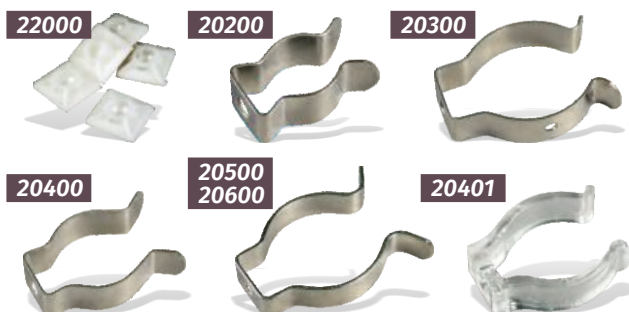
We offer fluorescent lamps, which are characterized by a very long life and immediate start of light. We offer fluorescent lamps in the shape of tubes and rounds.



CODE	NAME	LENGTH	COLOR	POWER	DIAMETER	SPECTRUM
52030	Fluor. lamp 30 NARVA	285 mm	865 - cold daily 6500K	8W	T5/16 mm	
52032	Fluor. lamp 30 NARVA	288 mm	865 - cold daily 6500K	10W	T8/26 mm	3 band
52042	Fluor. lamp 45 NARVA NBB	438 mm	865 - cold daily 6500K	15W	T8/26 mm	
52043	Fluor. lamp 45 NARVA	438 mm	827 - warm comfort 2700K	15W	T8/26 mm	
52052	Fluor. lamp 50 NARVA	517 mm	865 - cold daily 6500K	13W	T5/16 mm	3 band
52061	Fluor. lamp 60 NARVA	590 mm	840 - cold white 4000K	18W	T8/26 mm	3 band
52062	Fluor. lamp 60 NARVA	590 mm	865 - cold daily 6500K	18W	T8/26 mm	3 band
52071	Fluor. lamp 70 NARVA	717 mm	840 - cold white 4000K	16W	T8/26 mm	3 band
52091	Fluor. lamp 90 NARVA	895 mm	840 - cold white 4000K	30W	T8/26 mm	3 band
52092	Fluor. lamp 90 NARVA	895 mm	865 - cold daily 6500K	30W	T8/26 mm	3 band
52101	Fluor. lamp 97 NARVA	958 mm	840 - cold white 4000K	36W	T8/26 mm	3 band
52102	Fluor. lamp 97 NARVA	968 mm	865 - cold daily 6500K	36W	T8/26 mm	3 band
52121	Fluor. lamp 120 NARVA	1199 mm	840 - cold white 4000K	36W	T8/26 mm	3 band
52122	Fluor. lamp 120 NARVA	1199 mm	865 - cold daily 6500K	36W	T8/26 mm	3 band
52151	Fluor. lamp 150 NARVA	1499 mm	840 - cold white 4000K	58W	T8/26 mm	3 band
52152	Fluor. lamp 150 NARVA	1499 mm	865 - cold daily 6500K	58W	T8/26 mm	3 band
52520	Fluor. lamp 22 NARVA round		865 - cold daily 6500K	22W	T9/29 mm	3 band
52530	Fluor. lamp 32 NARVA round		865 - cold daily 6500K	32W	T9/29 mm	3 band
52540	Fluor. lamp 40 NARVA round		865 - cold daily 6500K	40W	T9/29 mm	3 band
52541	Fluor. lamp 40 NARVA round		840 - cold white 4000K	40W	T9/29 mm	3 band
53082	Fluor. lamp 82 SYLVANIA	818 mm	865 - cold daily 6500K	25W	T8/26 mm	
56062	Fluor. lamp 60 OSRAM	590 mm	865 - cold daily 6500K	18W	T8/26 mm	

FLUORESCENT TUBE HOLDERS

CODE	NAME
22000	HW-3AC self-adhesive 0,5 cm 19x19 cm
20200	AAG - metal holder for T5 (16 mm)
20300	AAG - metal holder for T9 (29 mm)
20400	AAG - metal holder for T8 (26 mm)
20500	AAG - metal holder for T12 (32 mm)
20600	AAG - metal holder for 38 mm
20401	AAG - metal holder for T8 (26 mm)



WIRES FOR FLUORESCENT LAMPS

CODE	NAME
2104	IEC conductor yellow-green 0,75 mm
2105	IEC wire white 0,75 mm
2106	IEC wire blue 0,75 mm
2108	IEC wire black 0,75 mm
2109	IEC wire brown 0,75 mm
3077	Flex cord 3x0,75 mm; length 2 m; black
97147	Cable clamp



SOCKETS



20704
for **T5** (16 mm)
+ alu plate



41000
G5
for **T5** (16 mm)
horizontal
attachment



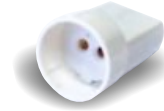
41001
G5
for **T5** (16 mm)
vertical
attachment



47107
G5
for **T5** (16 mm)
+ alu plate



47263
G5
for **T5** (16 mm)
plug-in



46263
G5
for **T5** (16 mm)
plug-in



45140
G13
for **T8** (26 mm)
+ starter socket
plug-in
transparent



46140
G13
for **T8** (26 mm)
+ starter socket
plug-in



47200
G13
for **T8** (26 mm)
and **T12** (38 mm)
+ starter socket



47205
G13
for **T8** (26 mm)
and **T12** (38 mm)
+ starter socket



47206
G13
for **T8** (26 mm)
and **T12** (38 mm)
+ starter socket
+ alu plate



47600
G13
for **T8** (26 mm)
and **T12** (38 mm)
+ starter socket
narrow



47606
G13
for **T8** (26 mm)
and **T12** (38 mm)
+ starter socket
+ alu plate, narrow



47102
G13
for **T8** (26 mm)
and **T12** (38 mm)
screw-in



47105
G13
for **T8** (26 mm)
and **T12** (38 mm)



47106
G13
for **T8** (26 mm)
and **T12** (38 mm)
+ alu plate



47506
G13
for **T8** (26 mm)
and **T12** (38 mm)
+ alu plate



49500
G13
pro **T8** (26 mm)
special



47700
G13
for **T12** (38 mm)
plug-in



47943
for **T12** (38 mm)
plug-in



47940
G13
for **T8** (26 mm)
plug-in



35007
G23
horizontal DZ



35008
G23
vertical DZ



43300
Extended
starter socket



42000
FA8
for slimline



438
Silicone
socket cover

Sockets with aluminium plate are suitable for applications in walls of a greater thickness, or into plastic profiles.

BUSHINGS

CODE	NAME
1000	PVC - transparent - cable \varnothing 8/10 mm
1001	PVC - white - cable \varnothing 8/10 mm
1002	PVC - black - cable \varnothing 8/10 mm
22205	PVC - black 5 mm - cable \varnothing 5,2/7,9 mm
22206	PVC - black 6 mm - cable \varnothing 6,3/9,5 mm
22208	PVC - black 8 mm - cable \varnothing 8,2/13 mm
22212	PVC - black 12 mm - cable \varnothing 12,2/15,9 mm



1000 1001 1002 22205 22206 22208 22212

ELECTRONIC BALLASTS

CODE	NAME
138114	Ballast Helvar T5 1*8-14W
138124	Ballast Helvar T5 1*24W - high power
138139	Ballast Helvar T5 1*39W - low power
138154	Ballast Helvar T5 1*54W - high power
138214	Ballast Helvar T5 2*14-35W - high power
138224	Ballast Helvar T5 2*24W - high power
138239	Ballast Helvar T5 2*39/36W - high power
880158	Ballast Helvar T5 1*58W
880170	Ballast Helvar T5 1*70W
880218	Ballast Helvar T5 2*18W NGN
880418	Ballast Helvar T5 3/4*18W



BALLAST

TWILIGHT SWITCHES

CODE	NAME
921000	Light relay Paladin 11 lux 8A(4A) IP44
922030	Switch with regulation AWZ-30 30A IP65
922116	Switch with outdoor regulation AZH-106 16A IP65
51201120	Smart ad dimmer + light sensor see page 56



921000 922030 922116

Twilight switches can be combined with a timer.

STARTERS / TERMINALS

CODE	NAME
90480	Starter Narva 4-80W
93422	Starter Sylvania 4-22W TANDEM
48000	Cable holder for terminal block
48002	Terminal block white 2 P
48003	Terminal block 3 P with earth contact
48004	Terminal block 4 P with earth contact



48000 48002 48003 48004

THE FULL OFFER CAN BE FOUND AT www.dencop.cz



Project Polylight



Project Neon Zlín



Project Blažek Design

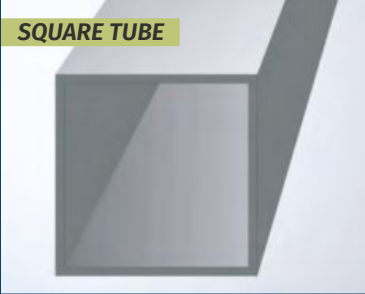



Prague Airport

CONSTRUCTIONAL ALUMINIUM PROFILES

We offer construction profiles for the production of totems, anchoring of ACP Bonds and other sandwich materials in the cladding of buildings. Wide application in various industries is possible especially with aluminum steels and L-profiles. In the overall assortment you will also find rivets, which serve as a quick replacement for screws and nuts. Aluminum profiles, steel and strip are sold in bars in length of 6 meters.


SQUARE TUBE

CODE	NAME	WEIGHT	SIZE	
712010015	Aluminium square tube	0,22 kg / 1 m	20 x 10 x 1,5 mm	 <p>SQUARE TUBE</p>
712020010	Aluminium square tube	0,21 kg / 1 m	20 x 20 x 1 mm	
712020015	Aluminium square tube	0,26 kg / 1 m	20 x 20 x 1,5 mm	
712020020	Aluminium square tube	0,4 kg / 1 m	20 x 20 x 2 mm	
712525020	Aluminium square tube	0,51 kg / 1 m	25 x 25 x 2 mm	
713030020	Aluminium square tube	0,61 kg / 1 m	30 x 30 x 2 mm	
713535020	Aluminium square tube	0,73 kg / 1 m	35 x 35 x 2 mm	
714020020	Aluminium square tube	0,6 kg / 1 m	40 x 20 x 2 mm	
714020030	Aluminium square tube	0,85 kg / 1 m	40 x 20 x 3 mm	
714040020	Aluminium square tube	0,84 kg / 1 m	40 x 40 x 2 mm	
714040030	Aluminium square tube	1,2 kg / 1 m	40 x 40 x 3 mm	
715050025	Aluminium square tube	1,42 kg / 1 m	50 x 50 x 2,5 mm	
715050030	Aluminium square tube	1,42 kg / 1 m	50 x 50 x 3 mm	
716040020	Aluminium square tube	1,04 kg / 1 m	60 x 40 x 2 mm	
712020020E	Al. sq. tube anodized	0,39 kg / 1 m	20 x 20 x 2 mm	

L PROFILES (VINKELS)

CODE	NAME	SIZE	
722020020	Aluminium profile L	20 x 20 x 2 mm	 <p>PROFILE L</p>
722525020	Aluminium profile L	25 x 25 x 2 mm	
723030020	Aluminium profile L	30 x 30 x 2 mm	
723030030	Aluminium profile L	30 x 30 x 3 mm	
724020020	Aluminium profile L	40 x 20 x 2 mm	
724040020	Aluminium profile L	40 x 40 x 2 mm	
725050020	Aluminium profile L	50 x 50 x 2 mm	
PR870	Aluminium profile L	80 x 80 x 4 mm	

ALUMINIUM STRIP

CODE	NAME	WEIGHT	SIZE	
740100100	Aluminium strip	2,77 kg / 1 m	100 x 10 mm	 <p>ALU STRIP</p>
740040020	Aluminium strip	0,22 kg / 1 m	40 x 2 mm	

ALUMINIUM PROFILES OMEGA, Z, S - FOR BOND CASSETTE SYSTEM

CODE	NAME			
39659660	Al profile OMEGA - rod 6 m	 <p>PROFILE OMEGA</p>	 <p>PROFILE S</p>	 <p>PROFILE Z</p>
39659860	Al profile S - rod 6 m			
39659760	Al profile Z - rod 6 m			

We offer blind rivets (pack of 100 pcs): 3*6 mm; 3*8 mm; 3,2*6 mm; 3,2*8 mm; 3,2* 12 mm; 4*6 mm; 4*8 mm; 4*10 mm; 4*12 mm; 4*14 mm; 4*16 mm; 4,8*8 mm

GLOSSARY OF TERMS USED WITH LED TECHNOLOGIES

LED

Light Emitting Diode - a semiconductor that emits light.

LED module

An electronic component containing several LEDs

Luminous flux

Light energy emitted by a source per unit time (1 second). The basic unit is a lumen.

Lumen (lm) - a unit of luminous flux

Candela (cd) - a unit of luminosity

Color temperature / chromaticity temperature (K)

Characterizes the spectrum of white light. Light of a certain color temperature has the color of thermal radiation emitted by a black body heated to this temperature (600K: red diode, 6000K: bright noon light)

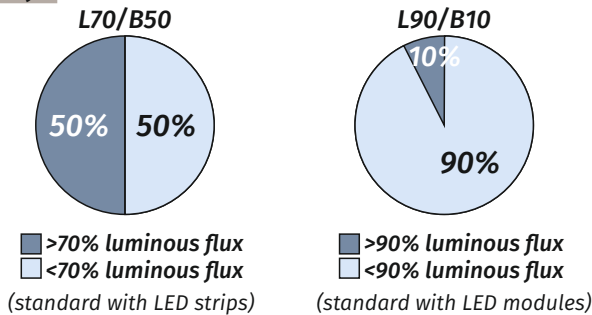
CRI

Color Rendering Index - an evaluation of the fidelity of a color perception that is created by lighting from a source, compared to what color perception would be created in the light of the sun. The value of Ra can have a value of 0-100. The value Ra = 0 means that it is not possible to recognize colors under this lighting, Ra = 100 - a light source that allows natural color rendering.

Light source efficiency (lm / W)

The value of the total light output per 1W of energy consumed. It is used to compare the energy efficiency of different types of light sources - LED, fluorescent, discharge lamp, light bulb

LED life



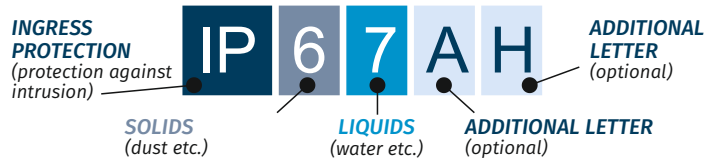
L defines the percentage of luminous flux after a certain period of time (for example after 50 000 hours)

B defines the percentage of light sources that did not reach such a luminous flux after this time period

L90 / B10 therefore means that after 50 000 hours, the LEDs maintain 90% or more of the luminous flux and only 10% of the light sources do not reach this flux.

Degree of protection (IP)

The IPXX designation expresses the degree of resistance of electrical equipment or individual components against the ingress of foreign bodies and liquids on the "living" part, see the following tables: →



Degree of coverage

Degree	Effective against	Intrusion of foreign objects
IP0x	without protection	without protection
IP1x	back of hand	large
IP2x	finger	small
IP3x	tool (> 2.5 mm)	small
IP4x	tool, wire (> 1 mm)	very small
IP5x	dust protected	dust partially
IP6x	dust tight	dust completely

Degree	Protection description
IPx0	without protection
IPx1	Protected against falling rain water, equivalent of 3-5 mm falling water per minute for 10 minutes. The unit is placed in its working position.
IPx2	Protected against water when the appliance is in position 15 degrees. Same as IPx1, only with the difference that unit is tested in 4 positions, tilted by 15° in each position from the normal operating position.
IPx3	Protected against water splinters. Water sprays on the device at an angle 60° vertically, at a rate of 10 liters per minute and at a pressure 80-100 kN/ m ² for 5 minutes.
IPx4	Protected against splashing water. Same as IP x3, only with the difference that water sprays at all angles.
IPx5	Protected against water jets. The water is directed at the 6,3 mm nozzle at all angles at a flow rate of 12,5 l/min at pressure 30 kN/ m ² for 3 minutes from a distance of 3m.
IPx6	Protected against waves. The water is directed at a 12,5 mm nozzle in all angles at a flow rate of 100 l/min at a pressure of 100 kN/ m ² after 3 minutes from a distance of 3 meters.
IPx7	Protected against immersion in water. Immersion for 30 minutes until depth of 1 meter.
IPx8	Protected against sinking in water. The device is capable continuous immersion in water under conditions to be determined product manufacturer.
IPx9K	Protected against high pressure + temperature DIN 40050-9. Pressure 8-10 MPa from 10-15 cm, temperature 80 ° C.

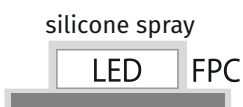
Overview of additional letters

Letter	Protection of touch from:
A	back of hand
B	finger
C	tool
D	wire

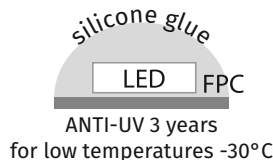
Overview of additional letters

Letter	Additional information intended for:
H	high voltage equipment
M	movement during water test
S	steady during the water test
W	wind conditions

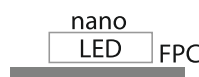
POSSIBLE CONSTRUCTIONS



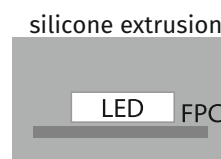
IP55



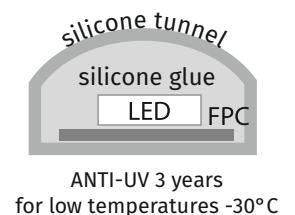
IP65



IP65



IP67



IP68

HOW MANY LUMENS PER SQM IS RECOMMENDED FOR EACH ROOM

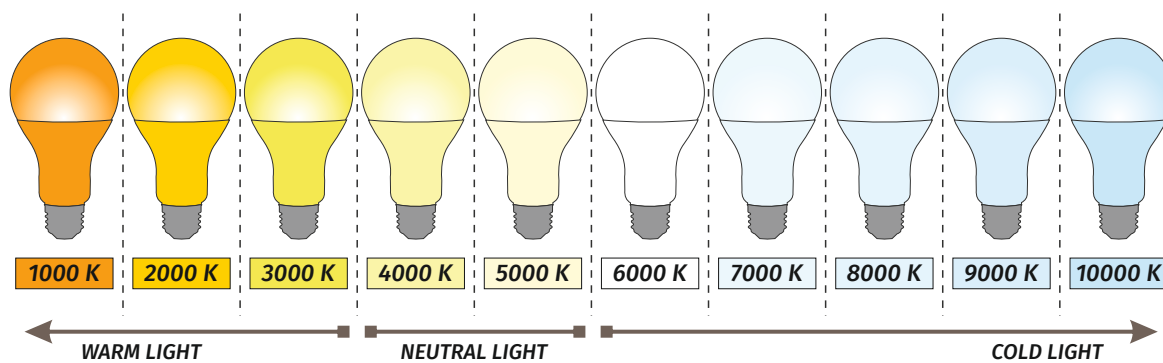
For living rooms, according to common instructions, 100 lumens per m² are recommended. In workrooms such as kitchens, offices or bathrooms, the luminous flux is up to 300 lumens per m². We can take the living room as an example measuring 6x5 m (30 m²). From the above condition, therefore, the sum of the luminous fluxes of all ceilings and wall lamps should reach the level of 3000 lm.

Degree	Space of illumination
50 lx	cellars, underground tunnels
75 lx	parking spaces and garages
100 lx	communication spaces, corridors, rest rooms, warehouses
150 lx	stairs, hall with mirrors, garage with workshop
200 lx	changing rooms, bathrooms, toilets, dining rooms
300 lx	reading, children's room, classroom, laundry, offices
500 lx	kitchen units, classrooms with blackboards, infirmaries
1000 lx	operating rooms
1500 lx	fine production (watches, jewelry)

LED LIGHT EFFICIENCY

It is the **efficiency expressed by Lumens per Watt** describing how much luminous flux a given source radiates per 1 Watt of input electricity. An example is a classic light bulb with a wattage of 60 W that produces a luminous flux of 700 lm. In order to achieve nominally comparable lighting in the case of LED strips, a power input of 7 W is enough, so **we save more than 85% of electricity**. In our offer you will find LED modules with a light efficiency of up to 200 lm per watt.

COLOR TEMPERATURE



GENERAL INSTRUCTIONS FOR INSTALLING LED SYSTEM

Installation instructions can be found here:

The largest share among LED products supplied by our company are types with a supply voltage of 12V; some 5V or 24V, DC / AC. These groups are considered a common standard and their installation is also commonplace.

Another variant are the so-called power versions, which are mostly built on current supply, which means that a constant current with variable voltage must be supplied to the circuit. Significantly more experience and knowledge is needed here.

For all installations, it is absolutely necessary to observe the values stated on the products and in the enclosed documentation. Failure to observe the voltage or power supply may cause complete damage to the LED application. **No wiring changes should be made to the products, except for shortening or lengthening the connecting wires and LED strips.** It is also necessary to correctly design the power structure of the circuits and connect to the power supply the corresponding used load with a reserve of about 20% higher.

With questions or for technical support you can contact us by e-mail: export@dencop.cz

Before the installation itself, we recommend testing the functionality, especially for components that are susceptible to mechanical damage due to their construction. In practice, these are mainly LED strips, which you test by unrolling them and connecting them to the correct supply voltage.

The supply voltage is always fixed and indicated on the product, it is also important to observe the polarity.

Before connecting the power supply to the mains, make sure that the secondary circuit is connected. If the LED modules are connected to an electronic power supply that is live, there is a risk of damage to the LED chips. If it happens that you connect the power supply "without end product", it is necessary to short-circuit the secondary output after disconnecting it from the mains before connecting it to the LED. This will ensure that the accumulated electricity is discharged energy that could damage the connected LED modules.

CAUTION: Failure to observe the correct supply voltage or polarity can dramatically reduce the life of the product and, in extreme cases, cause irreversible damage. For current-supplied circuits, never connect current sources empty.

NOTICE: If you are installing LED components at a safe voltage interface, no special certification or electrical training is required for this installation. However, if you connect a power supply that is not equipped from the factory with a power cord terminated with a suitable connection plug on the terminal board, you must have electrical training with the appropriate test from Decree 50/78 Coll.

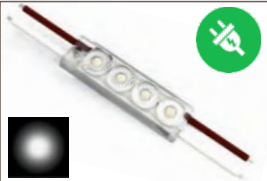







For accurate marking of light sources and their energy labels, please visit our website www.dencop.cz or contact the sales department.



LED MODULES

Waterproof LED modules designed for signmaking and applications can be used not only in light and 3D advertising, their use is versatile and can be used, for example, in architectural and decorative lighting of interiors and exteriors.

LED modules are compact and mechanically anchored to the substrate, so they are resistant to all shocks and other external influences. The LED modules can be powered alternately or DC as specified.

LED MODULES 230V		DNH SERIES			
<p>No need for power source Linearly dimmable CC (constant current) - first and last module shines the same Certified electricians only</p>					
Name	DHN 4 LED	DHN - 3 LED	DHN - 3 LED	DHN - 1 LED	
Code	571104	571143	571123	581121	
Type of LED	SMD 2835	SMD 2835	SMD 2835	SMD 2835	
Max. 1 chain seq.	50 pcs	100 pcs	100 pcs	100 pcs (divisible by 2 pcs)	
Center distance	200 mm	220 mm	350 mm	200 mm	
Color	6500 K	6500 K	6500 K	6500 K	
Power	1 W	1,6 W	2,5 W	3 W	
Size	57 x 16 x 10,5 mm	88 x 21,5 x 11,1 mm	110 x 28 x 8,5 mm	75 x 45 x 20 mm	
IP coverage	IP68	IP67	IP67	IP67	
Voltage	230 V AC 50/60 Hz	230 V AC 50/60 Hz	230 V AC 50/60 Hz	230 V AC 50/60 Hz	
Lumens	99 lm	160 lm	220 lm	280 lm	
Angle	160°	160x160°	155°	12x50°(assymetrical lens)	
Efficiency	99 lm/W	100 lm/W	88 lm/W	93 lm/W	
Lifespan L70B50	50 000 hours	50 000 hours	50 000 hours	50 000 hours	
Warranty	5 years	5 years	4 years	4 years	
LED MODULES 12V		D165 SERIES			
<p>CC (constant current) - first and last module shines the same Powerful LED modules</p>					
Name	D165 - 1 LED	D165 - 2 LED	D165 - 3 LED	D165 - 4 LED	
Code	531321	531322	531323	531324	
Type of LED	SMD 2835	SMD 2835	SMD 2835	SMD 2835	
Max. 1 chain seq.	50 pcs	25 pcs	25 pcs	25 pcs	
Center distance	123 mm	205 mm	230 mm	270 mm	
Color	7000 K	7000 K	7000 K	7000 K	
Power	0,36 W	0,72 W	1 W	1,44 W	
Size	35 x 16 x 6 mm	49 x 16 x 6 mm	70 x 16 x 6 mm	45 x 38 x 6,6 mm	
Weight	4,84 g	6,81 g	9,93 g	14 g	
IP Coverage	IP65	IP65	IP65	IP65	
Voltage	12 V DC	12 V DC	12 V DC	12 V DC	
Lumens	42 lm	93 lm	128 lm	172 lm	
Angle	160°	160°	160°	160°	
CRI	>75 Ra	>75 Ra	>75 Ra	>75 Ra	
Application depth	3 - 8 cm	6 - 15 cm	6 - 25 cm	8 - 30 cm	
Lifespan L70B50	22 000 hours	22 000 hours	22 000 hours	22 000 hours	
P/D ratio	1,67	1,67	1,67	1,67	
Working temperature	-25 to + 60°C	-25 to + 60°C	-25 to + 60°C	-25 to + 60°C	
Efficiency	117 lm/W	129 lm/W	128 lm/W	119 lm/W	
Warranty	5 years	5 years	5 years	5 years	

LED MODULES 12V

DX3 SERIES

For 3D illuminated advertising
Balanced luminosity
CC (constant current)
- first and last module shines the same



High resistance to external influences predestines them for versatile use (eg letters, panels, architectural decorative lighting of interiors and exteriors...). The 160° beam angle guarantees easier unloading and supports the homogeneity of the illuminated surface even with higher transmittances of plexiglass or other diffuser.

Name	DX3 - 3 LED	DX3 - 3 LED	DX3 - 3 LED	DX3 - 3 LED	DX3 - 3 LED	DX3 - 3 LED
Code	551313	556313	554313	552313	553313	558313
Type of LED	SMD 2835					
Max. 1 chain seq.	25 pcs					
Center distance	185 mm					
Color	white 7000 K	white 4000 K	yellow	red	blue	green
Power	0,72 W					
Size mm	70 x 16 x 6 mm					
Weight	9,93 g					
IP coverage	IP65					
Voltage	12 V DC					
Lumens	92 lm	87 lm	23 lm	27 lm	10 lm	53 lm
Angle	160°					
CRI	>75 Ra	>75 Ra	N/A	N/A	N/A	N/A
Application depth	8 - 12 cm					
Lifespan L70B50	22 000 hours					
P/D ratio	1,67					
Working temperature	-25 to + 60°C					
Efficiency	128 lm/W	120 lm/W	32 lm/W	38 lm/W	14 lm/W	74 lm/W
Warranty	5 years					

LED MODULES 12V SIDE-LIGHT

DXS SERIES

LED FOR PMMA

High performance, good color matching, even light
CC (constant current)
- first and last module shines the same



For illumination 3D letters



Picture in 1:1 ratio

Name	DXS - 1 LED	DXS - 3 LED	DXS - 3 LED	PB - 1 LED
Code	511211	511213	501323	551921
Type of LED	SMD 3030	SMD 3030	SMD 3030	SMD 2835
Max. 1 chain seq.	20 pcs	20 pcs	20 pcs	100 pcs
Center distance	125 mm	250 mm	220 mm	18 mm
Color	7000 K	7000 K	7000 K	7000 K
Power	1,32 W	2,5 W	2,88 W	0,2 W
Size	43 x 23 x 11,6 mm	74 x 20 x 9,8 mm	120 x 23 x 11,5 mm	9 x 6,8 x 4,8 mm
Weight	9,8 g	12,5 g	25 g	0,5 g
IP Coverage	IP66	IP66	IP65	IP67
Voltage	12 V DC	12 V DC	12 V DC	12 V DC
Lumens	125 lm	250 lm	250 lm	20 lm
Angle	15° x 37°	29° x 34°	17° x 28°	120°
CRI	>75 Ra	>75 Ra	>70 Ra	>70 Ra
Application depth	8 - 20 cm	8 - 20 cm	5 - 10 cm	3 - 10 cm
Lifespan	50 000 hours	50 000 hours	22 000 hours	50 000 hours
P/D Ration	N/A	N/A	N/A	1,1
Working temperature	-25 to +60°C	-25 to +60°C	-25 to +60°C	-25 to +60°C
Efficiency	95 lm/W	100 lm/W	86 lm/W	100 lm/W
Warranty	5 years	5 years	5 years	5 years



LED MODULES 12V **NEW 200 lm/W****D175 SERIES****SUPER POWERFUL****2x MORE EFFICIENT
AGAINST COMPETITION****CC (constant current)**

Name	D175 - 1 LED	D175 - 2 LED	D175 - 3 LED	D175 - 4 LED
Code	541221	541222	541223	541224
Type of LED	SMD 2835	SMD 2835	SMD 2835	SMD 2835
Max. 1 chain seq.	20 pcs	20 pcs	20 pcs	20 pcs
Center distance	124 mm	200 mm	226 mm	198 mm
Color	7000 K	7000 K	7000 K	7000 K
Power	0,36 W	0,72 W	1,08 W	1,2 W
Size	25 x 20 x 10,3 mm	50 x 14,6 x 10,3 mm	76 x 14,6 x 10,3 mm	48 x 44 x 10,3 mm
Weight	5,1 g	6,75 g	10,6 g	15,8 g
IP Coverage	IP66	IP66	IP66	IP66
Power	12 V DC	12 V DC	12 V DC	12 V DC
Lumens	72 lm	144 lm	216 lm	240 lm
Angle	170°	170°	170°	170°
CRI	>70 Ra	>70 Ra	>70 Ra	>70 Ra
Application depth	4 - 15 cm	4 - 15 cm	4 - 15 cm	4 - 15 cm
Lifespan L70B50	50 000 hours	50 000 hours	50 000 hours	50 000 hours
P/D ration	1,7	1,7	1,7	1,7
Working temperature	-25 to +60°C	-25 to +60°C	-25 to +60°C	-25 to +60°C
Efficiency	200 lm/W	200 lm/W	200 lm/W	200 lm/W
Warranty	5 years	5 years	5 years	5 years

LED MODULES 12V

DNW / DXW SERIES - CLEARANCE**Long life
High luminosity
For "C" modules -
protection
against overvoltage
or undervoltage**

DXW-3-C



DNW-3-C

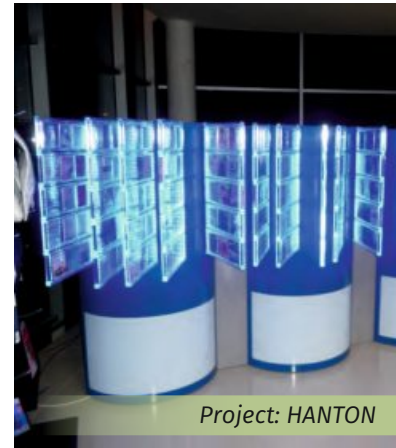


DNW-3-S RGB

Name	DXW-3-C	DNW-3-C	DNW-3-C	DNW-3-C	DNW-3-C	DNW-3-C	DNW-3-S
Code	541513	541523	544523	542523	543523	548523	549423
Type of LED	SMD 2835	SMD 2835	SMD 2835	SMD 2835	SMD 2835	SMD 2835	SMD 5050
Max. 1 chain seq.	50 pcs						
Center distance	25/212 mm						
Color	white 6500 K	white 6500 K	yellow	red	blue	green	RGB
Power	0,72 W						
Size mm	72 x 17 x 8						
Weight	10 g						
IP Coverage	IP68						
Voltage	12 V DC						
Lumens	70 lm	70 lm	49 lm	16,4 lm	6,2 lm	27,7 lm	22 lm
Angle	140°						
CRI	85 Ra	85 Ra	N/A	N/A	N/A	N/A	N/A
Application depth	7 - 20 cm						
Lifespan L70B50	50 000 hours						
P/D ratio	1,3						
Working temperature	-20 to + 60°C						
Efficiency	97 lm/W	97 lm/W	68 lm/W	22,7 lm/W	8,6 lm/W	38 lm/W	68 lm/W
Warranty	5 years						3 years

LED MODULES 12V

CLEARANCE



Project: HANTON



Name	DXF-3-C	D170-1
Code	521513	541901
Type of LED	SMD 2835	SMD 2835
Max. 1 chain seq.	30 pcs	30 pcs
Center distance	25/212 mm	200 mm
Color	6500 K	7000 K
Power	1,2 W	0,96 W
Size	72 x 17 x 10,4 mm	30 x 21,5 x 7 mm
Weight	10 g	4 g
IP Coverage	IP68	IP67
Voltage	12 V DC	12 V DC
Lumens	110 lm	110 lm
Angle	140°	170°
CRI	85 Ra	>70 Ra
Application depth	13 - 30 cm	4 - 20 cm
Lifespan L70B50	40 000 hours	50 000 hours
P/D ration	1,3	1,67
Working temperature	-20 to +50°C	-25 to +55°C
Efficiency	83 lm/W	115 lm/W
Warranty	5 years	3 years

LED PIXEL

SKY LINE

Low power consumption
To create a stellar
sky effect



A special type of LED modules ideal for creating a starry sky or other applications with an emphasis on low power consumption and a high number of point light sources. Offered **with selectable spacing** from 4 cm to 100 cm, with 9 and 12 mm diameter head (for mounting holes 9,2 and 12,2 mm).

Possible choice of colors: red, yellow, blue, green, white and RGB.

Name	LED PIXEL	LED PIXEL	LED PIXEL
Code	911000	911002	911005
Voltage	5 V DC	5 V DC	5 V DC
Power	0,1 W	0,1 W	0,1 W
Color	white 6500 K	red	16 000 K
Diameter of LED	9 mm	9 mm	9 mm
Center distance	60 mm	60 mm	60 mm

Pond lighting
and waterfall.

Installation with LED
modules DNW - 3 - C (IP68)



LED STRIPS

LED strips are designed not only for professional use in illuminated advertising.

In combination with our moldings and sources, you will create impressive, safe and ecological lighting. **LED strips are suitable for interiors and exteriors, for edge lighting of stairs, bending walls, handrails, line lighting of shelves, display cases or shop windows.**

They can also be used to illuminate work surfaces.
For kitchens and bathrooms, we recommend LED strips with IP protection 65, resistant to water and foreign bodies.

The LED strips we offer are selected high quality products, verified by our own technical department.



SPECIAL LED STRIPS

NEW / SPECIAL

Special LED strips: we offer extra narrow LED strips with a width of 5 mm, NANO strip, equipped with a special protective NANO spray, COB strip shining along its entire length without the effect of dots and S LED strip, which thanks to its flexible structure shapes well and bends to the sides, which makes it easy to create logos and inscriptions.



Name	5 mm LED STRIP	NANO - 4000 K	NANO - 6000 K	S LED STRIP	COB LED STRIP
Code	51550e	51693	51694	54333S	58012C
Voltage	12 V	12 V	12 V	12 V	24 V
Color	6000 K	4000 K	6000 K	6500 K	4000 K
Power / 1 m	4,8 W	9,6 W	9,6 W	4,8 W	15 W
CRI		>80 Ra	>80 Ra	>80 Ra	>90 Ra
IP Coverage	IP20	IP65	IP65	IP54	IP20
LED / 1 m	60	120	120	60	-
Type of LED	SMD 3528	SMD 3528	SMD 3528	SMD 2835	COB
Width	5 mm	8 mm	8 mm	8 mm	10 mm
Lumens / m	400 lm/m	940 lm/m	960 lm/m	480 lm/m	1400 lm/m
Package	5 m	6 m	6 m	5 m	5 m

Ideal for edge lighting plexiglass ->



Name	5 mm STRIP - 24 V	LED STRIP - 24 V	LED STRIP - 24 V
Code	55813	55412	55413
Power	24 V	24 V	24 V
Color	6200 K	4000 K	6000 K
Power / 1 m	16 W	12 W	12 W
CRI	>80 Ra	>80 Ra	>80 Ra
IP Coverage	IP20	IP20	IP20
LED / 1 m	126	60	60
Type of LED	SMD 2835	SMD 2835	SMD 2835
Width	5 mm	10 mm	10 mm
Lumens / m	2240 lm/m	1300 lm/m	1320 lm/m
Package	5 m	5 m	5 m



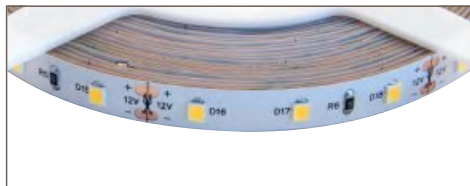
LED strips are characterized by low operating temperatures and light output **11% higher** than the previous generation with a consumption of **17% lower**. High efficiency and low operating temperatures guarantee a long service life of up to 35 000 hours.

We also recommend choosing proven MEAN WELL sources for LED lighting from our offer.

INTERIOR LED STRIPS WITH DIRECT LIGHT

DIRECT LIGHT

LOW POWER LED strips



Voltage	12 V
Power / 1 m	4 W
IP Coverage	IP20
LED / 1 m	60
Type of LED	SMD 2835

Width	8 mm
Package	5 m roll
Warranty	2 years

Name	LED STRIP	LED STRIP	LED STRIP	LED STRIP	LED STRIP	LED STRIP	LED STRIP
Code	54311	54312	54313	54315	54316	54317	54318
Color	3000 K	4000 K	6000 K	red	green	blue	yellow
CRI	>80 Ra	>80 Ra	>80 Ra	N/A	N/A	N/A	N/A
Lumens	510 lm/m	520 lm/m	550 lm/m	130 lm/m	220 lm/m	60 lm/m	130 lm/m

HIGH POWER LED strips

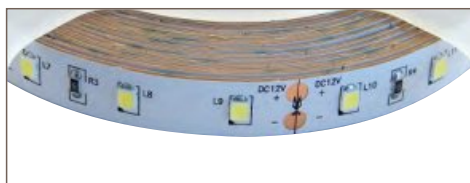


Voltage	12 V
Power / 1 m	8 W
IP Coverage	IP20
LED / 1 m	120
Type of LED	SMD 2835

Width	8 mm
Package	5 m roll
Warranty	2 years

Name	LED STRIP	LED STRIP	LED STRIP	LED STRIP	LED STRIP	LED STRIP	LED STRIP
Code	54611	54612	54613	54615	54616	54617	54618
Color	3000 K	4000 K	6000 K	red	green	blue	yellow
CRI	>80 Ra	>80 Ra	>80 Ra	N/A	N/A	N/A	N/A
Lumens	1000 lm/m	1030 lm/m	1080 lm/m	260 lm/m	440 lm/m	120 lm/m	260 lm/m

HIGH POWER LED strips



Voltage	12 V
Power / 1 m	12 W
IP Coverage	IP20
LED / 1 m	60
Type of LED	SMD 2835

Width	10 mm
Package	5 m roll
Warranty	2 years

Name	LED STRIP	LED STRIP	LED STRIP	LED STRIP	LED STRIP	LED STRIP	LED STRIP
Code	54411	54412	54413	54415	54416	54417	54418
Color	3000 K	4000 K	6000 K	red	green	blue	yellow
CRI	>80 Ra	>80 Ra	>80 Ra	N/A	N/A	N/A	N/A
Lumens	1510 lm/m	1560 lm/m	1630 lm/m	380 lm/m	630 lm/m	170 lm/m	380 lm/m

HIGH POWER LED strips



Voltage	12 V
Power / 1 m	12 W
IP Coverage	IP20
LED / 1 m	120
Type of LED	SMD 2835

Width	8 mm
Package	5 m roll
Warranty	2 years

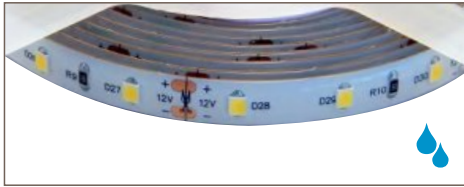
Name	LED STRIP	LED STRIP	LED STRIP	LED STRIP	LED STRIP	LED STRIP	LED STRIP
Code	54711	54712	54713	54715	54716	54717	54718
Color	3000 K	4000 K	6000 K	red	green	blue	yellow
CRI	>80 Ra	>80 Ra	>80 Ra	N/A	N/A	N/A	N/A
Lumens	1510 lm/m	1560 lm/m	1740 lm/m	390 lm/m	640 lm/m	175 lm/m	390 lm/m



LED STRIPS WITH WATERPROOF COVER AND DIRECT LIGHT

DIRECT LIGHT

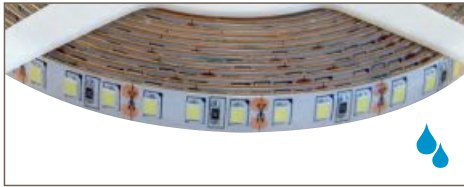
LED strips with direct light and high efficiency. Waterproof.



Voltage	12 V	Width	8 mm
Power / 1 m	4 W	Package	5 m roll
IP Coverage	IP55	Warranty	2 years
LED / 1 m	60		
Type of LED	SMD 2835		

Name	LED STRIP	LED STRIP	LED STRIP	LED STRIP	LED STRIP	LED STRIP	LED STRIP
Code	54331	54332	54333	54335	54336	54337	54338
Color	3000 K	4000 K	6000 K	red	green	blue	yellow
CRI	>80 Ra	>80 Ra	>80 Ra	N/A	N/A	N/A	N/A
Light output	510 lm/m	520 lm/m	550 lm/m	130 lm/m	220 lm/m	60 lm/m	130 lm/m

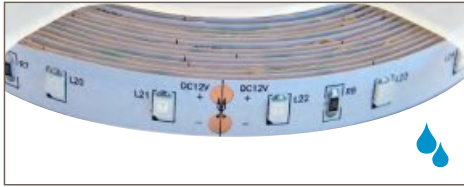
LED strips with direct light and high efficiency. Waterproof.



Voltage	12 V	Width	8 mm
Power / 1 m	8 W	Package	5 m roll
IP Coverage	IP55	Warranty	2 years
LED / 1 m	120		
Type of LED	SMD 2835		

Name	LED STRIP	LED STRIP	LED STRIP	LED STRIP	LED STRIP	LED STRIP	LED STRIP
Code	54631	54632	54633	54635	54636	54637	54638
Color	3000 K	4000 K	6000 K	red	green	blue	yellow
CRI	>80 Ra	>80 Ra	>80 Ra	N/A	N/A	N/A	N/A
Light output	1000 lm/m	1020 lm/m	1080 lm/m	260 lm/m	440 lm/m	120 lm/m	260 lm/m

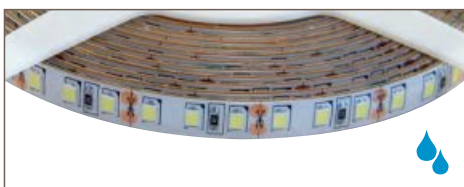
LED strips with direct light and high efficiency. Waterproof.



Voltage	12 V	Width	10 mm
Power / 1 m	12 W	Package	5 m roll
IP Coverage	IP55	Warranty	2 years
LED / 1 m	60		
Type of LED	SMD 2835		

Name	LED STRIP	LED STRIP	LED STRIP	LED STRIP	LED STRIP	LED STRIP	LED STRIP
Code	54431	54432	54433	54435	54436	54437	54438
Color	3000 K	4000 K	6000 K	red	green	blue	yellow
CRI	>80 Ra	>80 Ra	>80 Ra	N/A	N/A	N/A	N/A
Light output	1510 lm/m	1540 lm/m	1630 lm/m	380 lm/m	630 lm/m	170 lm/m	380 lm/m

LED strips with direct light and high efficiency. Waterproof.

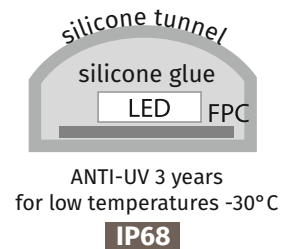
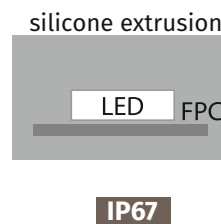
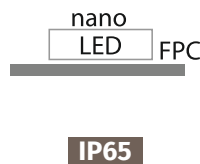
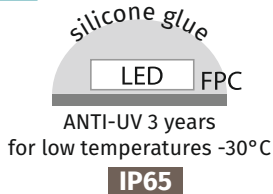


Voltage	12 V	Width	8 mm
Power / 1 m	12 W	Package	5 m roll
IP Coverage	IP55	Warranty	2 years
LED / 1 m	120		
Type of LED	SMD 2835		

Name	LED STRIP	LED STRIP	LED STRIP	LED STRIP	LED STRIP	LED STRIP	LED STRIP
Code	54731	54732	54733	54735	54736	54737	54738
Color	3000 K	4000 K	6000 K	red	green	blue	yellow
CRI	>80 Ra	>80 Ra	>80 Ra	N/A	N/A	N/A	N/A
Light output	1520 lm/m	1530 lm/m	1680 lm/m	390 lm/m	640 lm/m	175 lm/m	390 lm/m

IP55 LED strips use "silicone spray" technology, which is resistant to splashing water and at the same time does not affect the color

THE DEGREE OF COVERAGE



DIGITAL RGB LED STRIPS

DIGI RGB

SPI DIGI strip with built-in IC for uninterrupted operation in case of breakage of 1 LED



RGB LED STRIPS

RGB

UV stable
Adjustable IR driver or DMX / SPI regulator



Name	DIGI RGB STRIPS WITH BUILT-IN IC			RGB STRIPS			
	51419	51449	51469	54219	54419	54239	54439
Code	51419	51449	51469	54219	54419	54239	54439
Voltage	12 V	12 V	12 V	12 V	12 V	12 V	12 V
Color	DIGI RGB	DIGI RGB	DIGI RGB	RGB	RGB	RGB	RGB
Power / 1 m	14,4 W	14,4 W	14,4 W	7,2 W	14,4 W	7,2 W	14,4 W
IP Coverage	IP20	IP65	NANO (IP 65)	IP20	IP20	IP65	IP65
LED / 1 m	60	60	60	30	60	30	60
Type of LED	SMD 5050	SMD 5050	SMD 5050	SMD 5050	SMD 5050	SMD 5050	SMD 5050
Width	10 mm	10 mm	10 mm	10 mm	10 mm	10 mm	10 mm
Package	5 m	5 m	5 m	5 m	5 m	5 m	5 m

RGB LED STRIPS

RGB

Available on request

Very narrow 5 mm compatible with many controllers



LED strip with high density RGB LEDs



LED strip with extra high density RGB LEDs



Name	RGB STRIP - 5 mm		RGB STRIP - 168 LED / 1 m			RGB STRIP - 240 LED / 1 m		
	53619	53669	53819	53849	53869	53919	53949	53969
Code	53619	53669	53819	53849	53869	53919	53949	53969
Voltage	24 V	24 V	24 V	24 V	24 V	24 V	24 V	24 V
Color	RGB	RGB	RGB	RGB	RGB	RGB	RGB	RGB
Power / 1 m	9 W	9 W	17,3 W	17,3 W	17,3 W	18 W	18 W	18 W
IP Coverage	IP20	NANO (IP 65)	IP20	IP65	NANO (IP 65)	IP20	IP65	NANO (IP 65)
LED / 1 m	120	120	168	168	168	240	240	240
Type of LED	SMD 3838	SMD 3838	SMD 3838	SMD 3838	SMD 3838	SMD 3838	SMD 3838	SMD 3838
Width	5 mm	5 mm	10 mm	10 mm	10 mm	12 mm	12 mm	12 mm
Package	5 m	5 m	5 m	5 m	5 m	5 m	5 m	5 m

Available on request

40 m long LED strip, powered from one side, with the same intensity of light along its entire length



LED strip 5 in 1: R, G, B, WW (2300 K) W (6000 K) Displays 65 536 colors



Name	RGB STRIP - length of strip 40 m			RGB WW W STRIP - 5 IN 1		
	59419	59469	59479	53519W	53569W	53539W
Code	59419	59469	59479	53519W	53569W	53539W
Voltage	48 V	48 V	48 V	24 V	24 V	24 V
Color	RGB	RGB	RGB	RGB WW W	RGB WW W	RGB WW W
Power / 1 m	15 W	15 W	15 W	18 W	18 W	18 W
IP Coverage	IP20	NANO (IP 65)	IP67 EXT	IP20	NANO (IP 65)	IP55
LED / 1 m	54	54	54	60	60	60
Type of LED	SMD 2835	SMD 2835	SMD 2835	SMD 5050	SMD 5050	SMD 5050
Width	12 mm	12 mm	12 mm	12 mm	12 mm	12 mm
Package	40 m	40 m	40 m	5 m	5 m	5 m

LED STRIPS WITH SIDE LIGHT

SIDE LIGHT

On request is possible to make any kind of LED strip.
MOQ = 100 m.

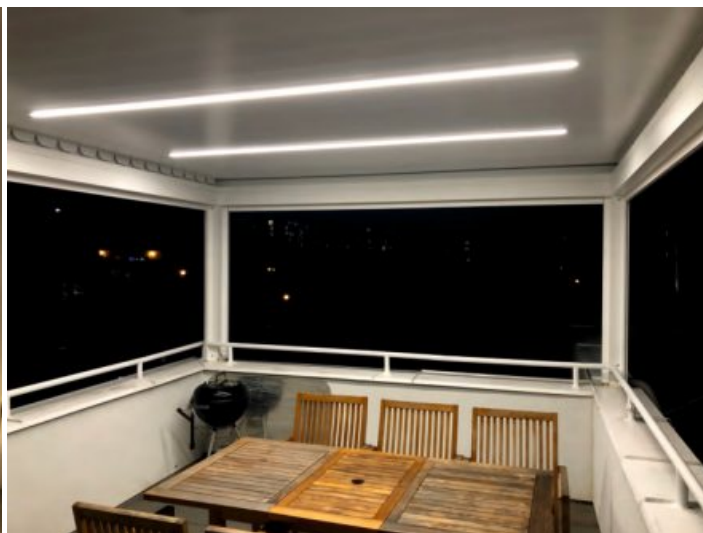
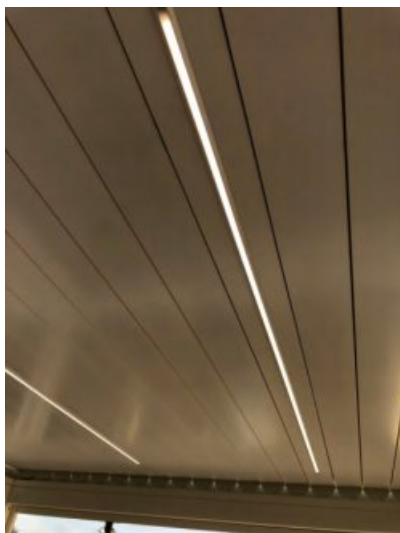


Name	INTERIOR LED STRIPS - SIDE LIGHT				WATERPROOF LED STRIPS - SIDE LIGHT				
	Code	51300	51382	51320	51322	51301	51303	51321	51323
Voltage	12 V	12 V	12 V	12 V	12 V	12 V	12 V	12 V	12 V
Color	6500 K	3000 K	6500 K	3000 K	6500 K	3000 K	6500 K	3000 K	3000 K
Power / 1 m	4,8 W	4,8 W	9,6 W	9,6 W	4,8 W	4,8 W	9,6 W	9,6 W	9,6 W
CRI	>70 Ra	>70 Ra	>70 Ra	>70 Ra	>70 Ra	>70 Ra	>70 Ra	>70 Ra	>70 Ra
IP Coverage	IP20	IP20	IP20	IP20	IP65	IP65	IP65	IP65	IP65
LED / 1 m	60	60	120	120	60	60	120	120	120
Type of LED	SMD 3014	SMD 3014	SMD 3014	SMD 3014	SMD 3014	SMD 3014	SMD 3014	SMD 3014	SMD 3014
Width	8 mm	8 mm	8 mm	8 mm	8 mm	8 mm	8 mm	8 mm	8 mm
Light output	300 lm/m	280 lm/m	600 lm/m	560 lm/m	300 lm/m	280 lm/m	600 lm/m	560 lm/m	560 lm/m
Package	5 m	5 m	5 m	5 m	5 m	5 m	5 m	5 m	5 m

LED strips can also be made with 24 V on request.

The use of LED strip is an environmentally efficient solution and its flexible properties with minimal dimensions allow installation in places unavailable to conventional luminaires. We can use LED strips for decorative and furniture lighting, edge lighting of stairs, bending of walls, handrails, line lighting of shelves, display cases or shop windows. Furthermore, our LED diodes and strips can be used to illuminate work surfaces, kitchen units, bathrooms or to illuminate swimming pools.

→
Lighting of pergola
NANO Led strip (51693)
installed in the profile
STOSALU (73B43693)



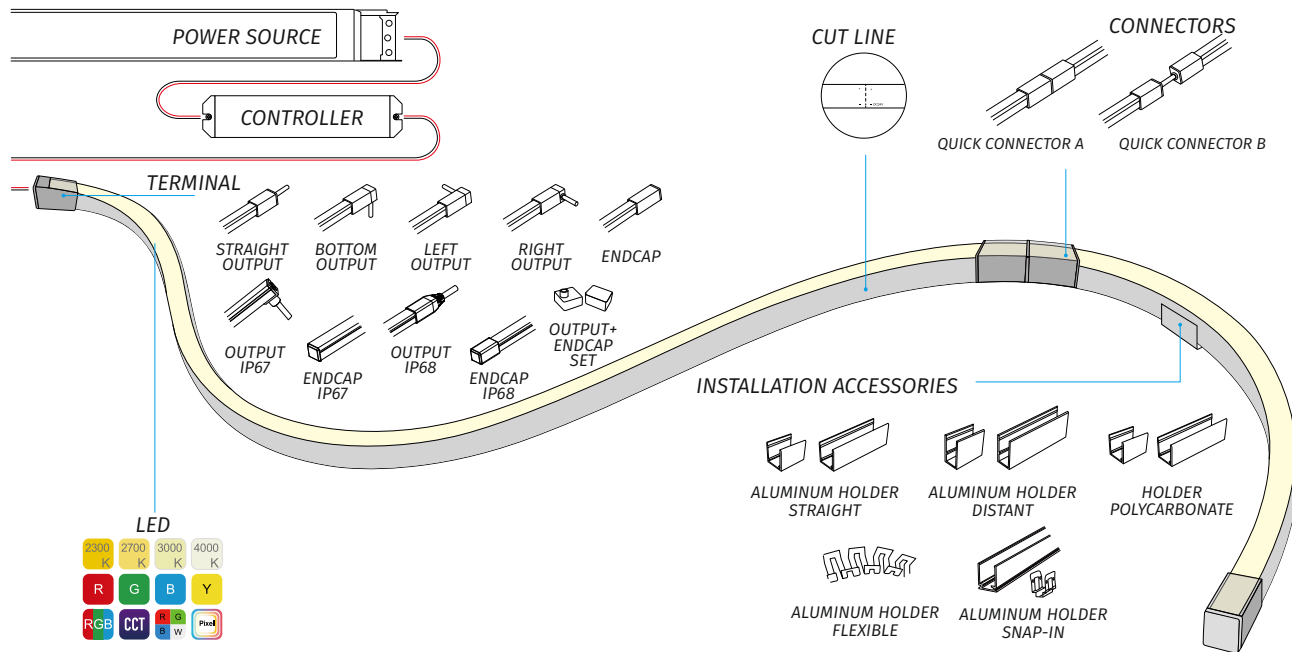
Use of LED strips
Household



LED FLEX NEON

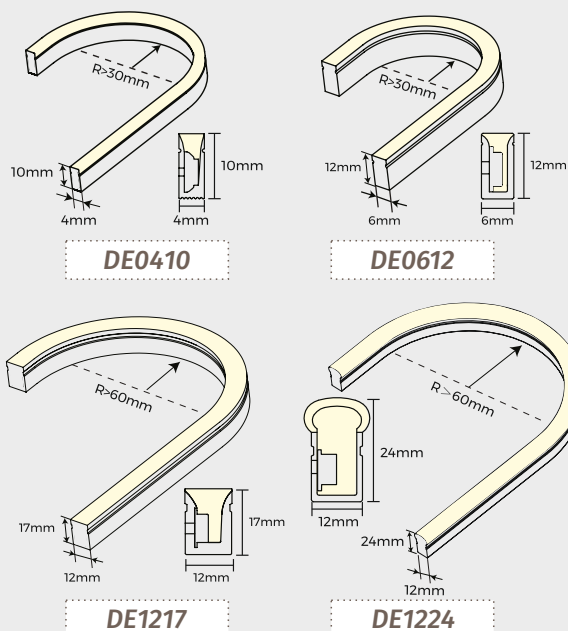
FLEX LED NEONS are a durable and economical replacement for classic neon tubes. It is very easy to achieve the effect of conventional neon lighting with them. The system consists of **high quality LEDs** encapsulated in PVC and a silicone housing. Unlike conventional neon tubes, it does not suffer from shortcomings such as fragility and high power consumption. The high efficiency of the LEDs used guarantees **low operating temperatures and thus a long service life**. It has excellent resistance to weathering, saline, acids and alkalis, corrosive gases and UV radiation.

FLEX LED NEONS are easy to shape, unbreakable and waterproof. It is available in a wide range of colors. Thanks to their high **uniform luminosity**, perfect workmanship and easy installation, they are suitable for a very wide range of uses, especially in the field of **illuminated advertising and decoration**.



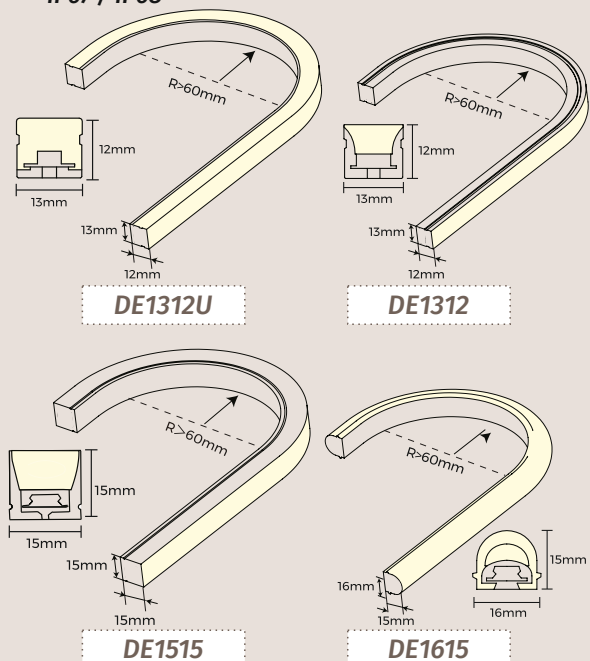
SIDE BEND - FRONT LIGHT

- 12 V or 24 V DC
- straight, round or arched diffuser
- bending radius 60 mm
- colors: W, Y, R, B, G, or RGB
- use: letters, logos, characters
- IP67 / IP68



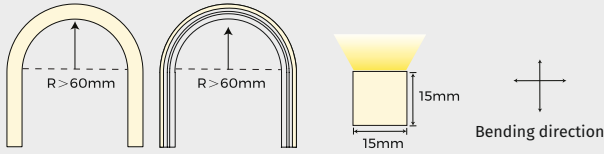
FRONT BEND - FRONT LIGHT

- 12 V or 24 V DC
- straight, round or arched diffuser
- bending radius 60 mm
- colors: W, Y, R, B, G, or RGB
- use: line, lighting around top of buildings
- IP67 / IP68



3D BEND

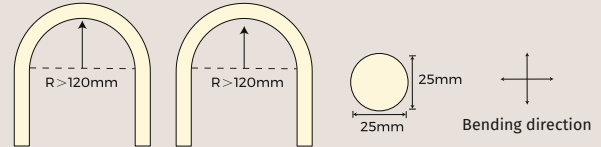
- 24 V DC
- straight diffuser
- bending radius 60 mm horizontally and vertically
- colors: W, Y, R, B, G
- use: various applications, twisting possibility
- IP67



DE15153D

360° BEND

- 24 V DC
- round diffuser
- bending radius 120 mm horizontally and vertically
- colors: W, Y, R, B, G
- use: various applications, 360° bending possibility
- IP65



DER25



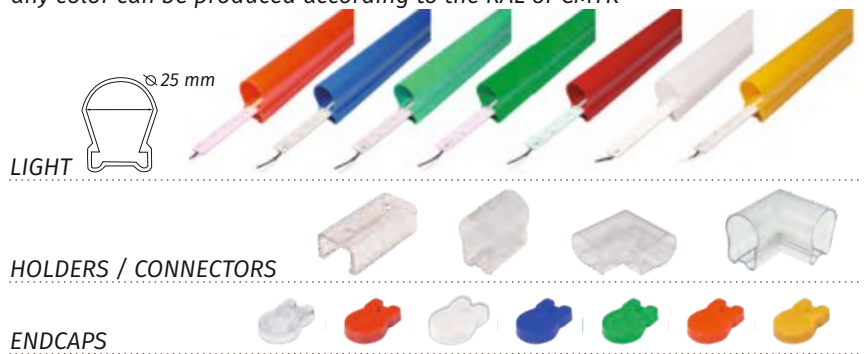
BORDER LED LIGHTS - OUTDOOR LIGHT LINES

The **BORDER LED** lights offer an innovative approach to **external lighting** that can highlight a given illuminated object and attract attention. These light lines have an output of **7 W / m**, while the standard on the market ranges from 3,2 - 4,0 W / m. This is why **BORDER LED** lights are much brighter than other light lines in the same category.



- attractive appearance - strong light outline
- energy saving, easy and safe installation
- resistance to climatic conditions, mechanical damage, UV radiation
- CE and RoHS certificates
- consistent brightness and color of light, on request it is possible to produce an RGB version
- any color can be produced according to the RAL or CMYK

Power	14W
IP Coverage	IP68
Voltage	12 V DC
Type of LED	SMG 3528
Size mm	2000 x 37 x 25 (21 mm)
Angle	180°
Light output	up to 1120 lm
Cut each mm	35
Working temp.	-40 to +60°C



Available in a length of 2 m or 3 m. The maximum supplied length is up to 6 m.

MEAN WELL POWER SUPPLIES

TECHNICAL SHEET FOR RESOURCES
YOU CAN FIND AT www.dencop.cz



As the official partner of MEAN WELL for the Czech Republic,
we can arrange any source from their offer upon request

LP SERIES



- input voltage range 90 ~ 264 V AC (except 18 W and 150 W models)
- narrow plastic case with IP67 cover
- economical design
- overvoltage resistant 300 V AC for 5 seconds (LPV / C-20/35/60/100)
- wide operating temperature range -30 to +70 ° C
- Suitable for economical LED applications and illuminated advertising
- 2 year warranty

CODE	NAME	POWER	VOLTAGE	CURRENT	IP	WEIGHT	SIZE (mm)	WORKING TEMP.
8601812	LPH-18-12	18 W	12 V	1,5 A	IP67	175 g	140 x 30 x 22	-30°C to +70°C
8601824	LPH-18-24	18 W	24 V	0,75 A	IP67	175 g	140 x 30 x 22	-30°C to +70°C
8603512	LPV-35-12	36 W	12 V	3 A	IP67	340 g	148 x 40 x 30	-30°C to +65°C
8603524	LPV-35-24	36 W	24 V	1,5 A	IP67	340 g	148 x 40 x 30	-30°C to +65°C
8606012	LPV-60-12	60 W	12 V	5 A	IP67	400 g	162,5 x 42,5 x 32	-30°C to +70°C
8606024	LPV-60-24	60 W	24 V	2,5 A	IP67	400 g	162,5 x 42,5 x 32	-30°C to +70°C
8610012	LPV-100-12	100 W	12 V	8,5 A	IP67	630 g	190 x 52 x 37	-25°C to +70°C
8610024	LPV-100-24	100 W	24 V	4,2 A	IP67	630 g	190 x 52 x 37	-25°C to +70°C
200789	LPC-35-700	33,6 W	9-48 V	700 mA	IP67	340 g	148 x 40 x 30	-30°C to +70°C

HLG SERIES



- full input voltage range 90 ~ 305 V AC, active PFC
- metal housing with IP67 / IP65 protection for indoor or outdoor installations
- optionally available: output with controllable potentiometer (version A); 3 in 1 dimming (1 ~ 10 V DC or 10 V PWM signal, or resistive) (version B)
- protection class I device with earth terminal
- suitable for street LED lighting, illuminated advertising and outdoor applications
- Optionally versions with IP68/-55°C/10 G vibration resistance can be ordered
- 5 year warranty

CODE	NAME	POWER	VOLTAGE	CURRENT	IP	WEIGHT	SIZE (mm)	WORKING TEMP.
8812012A	HLG-120H-12A	120 W	12 V	10 A	IP65	1120 g	220 x 68 x 38,8	-40°C to +80°C
8815012A	HLG-150H-12A	150 W	12 V	12,5 A	IP65	1150 g	228 x 68 x 38,8	-40°C to +90°C
8824012A	HLG-240H-12A	192 W	12 V	16 A	IP65	1300 g	244,2 x 68 x 38,8	-40°C to +90°C
8824054	HLG-240H-54	240,3 W	54 V	4,45 A	IP67	1300 g	244,2 x 68 x 38,8	-40°C to +90°C
8832012A	HLG-320H-12A	264 W	12 V	22 A	IP65	1880 g	252 x 90 x 43,8	-40°C to +90°C
8860012A	HLG-600H-12A	480 W	12V	40 A	IP65	3900 g	280 x 144 x 48,5	-40°C to +90°C
8880350B	HLG-80H-C350B	90 W	167-257 V	350 mA	IP67	840 g	195,6 x 61,5 x 38,8	-40°C to +80°C

More information, technical manuals and current prices can be found at www.dencop.cz

SIGNMAKING



LED TECHNOLOGY



BOARD MATERIALS



CONSTRUCTION & ARCHITECTURE



NEON ADVERTISING



TECHNOLOGIES AND SERVICES



XLG SERIES



- constant power mode
- wide input range 100 ~ 305VAC (class I)
- construction of a metal housing with a functional frame
- built-in active PFC function, class 2 source
- overvoltage protection with 6KV / 4KV
- India version (EESL) with input overvoltage protection, handles 440 VAC for 48 hours
- 5 year warranty

CODE	NAME	POWER	VOLTAGE	CURRENT	IP	WEIGHT	SIZE (mm)	WORKING TEMP.
9007512A	XLG-75-12A	60 W	12 V	5 A	IP67	580 g	140 x 63 x 32	-40°C to +90°C
9010012A	XLG-100-12A	96 W	12 V	8 A	IP67	580 g	140 x 63 x 32	-40°C to +90°C
9015012A	XLG-150-12A	150 W	12 V	12,5 A	IP67	800 g	180 x 63 x 35,5	-40°C to +90°C
9020012A	XLG-200-12A	192 W	12 V	16 A	IP67	850 g	199 x 63 x 35,5	-40°C to +90°C

NPF SERIES



- full input voltage range 90 ~ 305 V AC, active PFC
- Fully insulated plastic housing with IP67 protection, protection class II device, without earthing
- no-load consumption <0.15 W (<0.5 W for type D)
- on request with built-in 3 in 1 dimming (0 ~ 10 V dc or 10 V PWM signal or resistive, zero dimming - version D)
- Suitable for LED applications and illuminated advertising

CODE	NAME	POWER	VOLTAGE	CURRENT	IP	WEIGHT	SIZE (mm)	WORKING TEMP.
8304012	NPF-40-12	40 W	12 V	3,34 A	IP67	490 g	150 x 53 x 35	-40°C to +70°C
8306012	NPF-60-12	60 W	12 V	5 A	IP67	490 g	150 x 53 x 35	-40°C to +85°C
8309012	NPF-90-12	90 W	12 V	7,5 A	IP67	770 g	171 x 63 x 37,5	-40°C to +85°C

PWM SERIES



- full input voltage range 90 ~ 305 V AC, active PFC, no-load consumption <0.15 W
- Fully insulated plastic housing with IP67 protection, protection class II device, without earthing
- built-in 3 in 1 dimming (0 ~ 10 V dc or 10 V PWM signal or resistive, zero dimming)
- constant PWM voltage output (continuous regulation of voltage LEDs)
- suitable for continuous regulation of voltage LED products, eg. LED strips
- 5 year warranty

CODE	NAME	POWER	VOLTAGE	CURRENT	IP	WEIGHT	SIZE (mm)	WORKING TEMP.
8209012	PWM-90-12	90 W	12 V	7,5 A	IP67	770 g	171 x 63 x 37,5	-40°C to +85°C
8212012	PWM-120-12	120 W	12 V	10 A	IP67	970 g	191 x 63 x 37,5	-40°C to +90°C

ELG SERIES



- input voltage range 100 ~ 305 V AC, active PFC, no-load consumption <0.5 W
- metal housing with IP67 / IP65 protection for indoor or outdoor installations
- output by controllable potentiometer (version A); programmable and dimmable versions to order
- Suitable for illuminated signs and advertisements, LED street and outdoor lighting

CODE	NAME	POWER	VOLTAGE	CURRENT	IP	WEIGHT	SIZE (mm)	WORKING TEMP.
8915012APL	ELG-150-12APL	132 W	12 V	11 A	IP65	880 g	219 x 63 x 35,5	-40°C to +70°C

APV SERIES



- input voltage range 90 ~ 264 V AC
- rectangular plastic housing with IP30 protection
- equipment of protection class II, without earthing
- economical, small and compact resource
- suitable for indoor applications and indoor LED advertising

CODE	NAME	POWER	VOLTAGE	CURRENT	IP	WEIGHT	SIZE (mm)	WORKING TEMP.
8601212	APV-12-12	12 W	12 V	1 A	IP42	80 g	77 x 40 x 29	-30°C to +70°C
8601224	APV-12-24	12 W	24 V	0,5 A	IP42	80 g	77 x 40 x 29	-30°C to +70°C
8601612	APV-16-12	15 W	12 V	1,25 A	IP42	100 g	77 x 40 x 29	-30°C to +70°C
8601624	APV-16-24	16 W	24 V	0,67 A	IP42	100 g	77 x 40 x 29	-30°C to +70°C
8602512	APV-25-12	25,2 W	12 V	2,1 A	IP42	130 g	84 x 57 x 29,5	-30°C to +70°C

PLN SERIES



- wide input voltage range 90 ~ 295 V AC (90 ~ 277 V AC for PLN-20), active PFC
- fully insulated plastic housing with IP64 protection
- suitable for indoor applications and indoor LED advertising
- 2 year warranty

CODE	NAME	POWER	VOLTAGE	CURRENT	IP	WEIGHT	SIZE (mm)	WORKING TEMP.
8502012	PLN-20-12	19 W	12 V	1,6 A	IP64	180 g	148,5 x 38,5 x 28	-30°C to +60°C
8503024	PLN-30-24	30 W	24 V	1,25 A	IP64	220 g	145 x 47 x 30	-30°C to +50°C
8506012	PLN-60-12	60 W	12 V	5 A	IP64	500 g	181 x 61,5 x 35	-30°C to +50°C
8510024	PLN-100-24	96 W	24 V	4 A	IP64	520 g	200 x 70,5 x 35	-30°C to +50°C

RS SERIES



- no-load power consumption <0.5 W (RS-15 ~ 75)
- contains 105°C long-life electrolytic capacitors
- protects against: Short circuit/Overload/Overvoltage/Overheating (RS-15)
- meets EMS EN50082-2 / EN61000-6-2 industrial level (35 ~ 150 W)
- shock resistant 300 VAC for 5 seconds.
- withstands high operating temperatures up to 70° C
- resistant to vibration test 5G
- miniature size
- long service life and high reliability
- LED indicator for switching on
- Suitable for critical applications
- 3 year warranty

CODE	NAME	POWER	VOLTAGE	CURRENT	IP	WEIGHT	SIZE (mm)	WORKING TEMP.
8405012	RS-50-12	50 W	12 V	4,2 A	-	410 g	99 x 97 x 36	-25°C to +70°C
8407512	RS-75-12	75 W	12 V	6 A	-	410 g	129 x 98 x 38	-25°C to +70°C
8410012	RS-100-12	100 W	12 V	8,5 A	-	600 g	159 x 97 x 38	-25°C to +70°C
8515012	RS-150-12	150 W	12 V	12,5 A	-	700 g	199 x 98 x 38	-25°C to +70°C

LRS SERIES



- PFC-free, the most economical model
- Ultra compact, 1U low profile
- no-load consumption: 0.2 W ~ 0.75 W
- 5G vibration, 70 ° C operating temperature
- operation possible up to 5000 meters above sea level
- complete safety certification: IEC / EN60335-1 (Pd3), IEC / EN61558-1, -2-16; IEC / EN / UL60950-1 and Gb4943
- 3 year warranty

CODE	NAME	POWER	VOLTAGE	CURRENT	IP	WEIGHT	SIZE (mm)	WORKING TEMP.
8415012	LRS-150-12	150 W	12 V	12,5 A	-	480 g	159 x 97 x 30	-30°C to +70°C



SD CONVERTERS



- 2: 1 wide input voltage range
- 1.5 ~ 2 K V AC insulation according to model
- Ideal solution for battery-powered LED applications
- 2 year warranty

CODE	NAME	POWER	VOLTAGE	CURRENT	IP	WEIGHT	SIZE (mm)	WORKING TEMP.
8902512	SD-25B-12	25,2 W	12V	2,1 A	-	380 g	99 x 97 x 36	-10°C to +60°C

POWER SUPPLIES BY APPLICATIONS:

SERIES: APV, LP

- INDOOR
- LED BARS
- LED MODULES
- LED STRIPS
- MR 16 BULBS
- AR 111 BULBS
- CEILING LIGHTS
- RECESSED LIGHTS
- ATTACHED LIGHTS
- ATTACHED LIGHTS

SERIES: PLN, NPF, PWM

- INDOOR
- LED BARS
- LED MODULES
- LED STRIPS
- CEILING LIGHTS
- AR 111 BULBS
- MOVING LIGHTS
- RECESSED LIGHTS
- RECESSED LIGHTS
- ATTACHED LIGHTS
- TRI-PROOF LIGHTS
- LINEAR LIGHTS
- CEILING LIGHTS
- LIGHT BOXES

SERIES: XLG, HLG, ELG

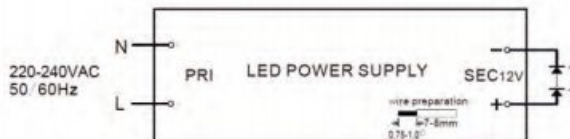
- OUTDOOR
- STREET LIGHTS
- REFLECTORS
- LIGHTS FOR PLANTS
- LED MODULES
- LED STRIPS
- LINEAR LIGHTS
- ATTACHED LIGHTS
- TRI-PROOF LIGHTS
- HIGH-BAY
- ANTI-EXPLOSIVE LIGHTS
- LUMINAIRES FOR AQUATIC ANIMALS

POWER SUPPLIES

SUPER SLIM



- extremely slim power sources
- the output DC voltage is 12 V
- suitable for mounting on normally flammable surfaces such as wood (> 2mm)
- can be installed in a wooden material such as a wooden cabinet



CODE	NAME	POWER	VOLTAGE	CURRENT	IP	WEIGHT	SIZE (mm)
7006012	SUPER SLIM	60 W	12 V	5 A	IP20	162 g	15 x 30 x 298
7010012	SUPER SLIM	100 W	12 V	8,3 A	IP20	216 g	16,5 x 30 x 298

POWER ADAPTERS

CODE	NAME	POWER	VOLTAGE	CURRENT
841212	POWER ADAPTER	12 W	12 V	1 A
842412	POWER ADAPTER	24 W	12 V	2 A

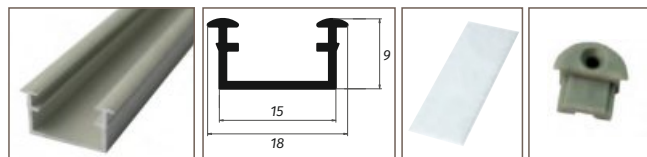


Find a complete overview of power supplies and adapters at www.dencop.cz

ALUMINIUM PROFILES AND ACCESSORIES FOR LED

ALU profile OPEN

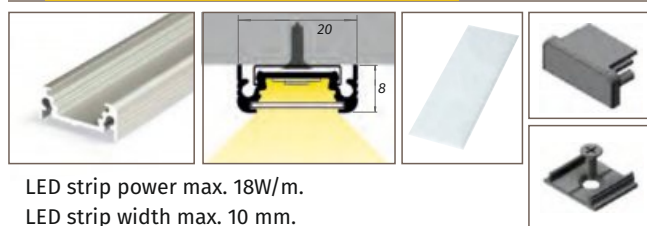
- for milling into furniture



CODE	NAME
73010	ALU profile anod. - 15x9 mm (length 6 m)
73500	Matt diffuser - length 2 m
200721	Plastic end cap

ALU profile LOADED W11

- for universal use

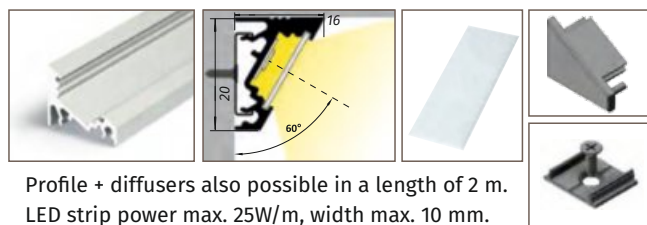


LED strip power max. 18W/m.
LED strip width max. 10 mm.

CODE	NAME
3209013120	ALU profile anod. - 20x8 mm (length 4 m)
3209012600	Matt diffuser - length 4 m
3209013600	Opal diffuser - length 4 m
3202012602	Terminal gray (pair)
3202106120	Mounting bracket

ALU profile 60° CORNER

- universal, for kitchen lighting, line lighting of corridors, etc.

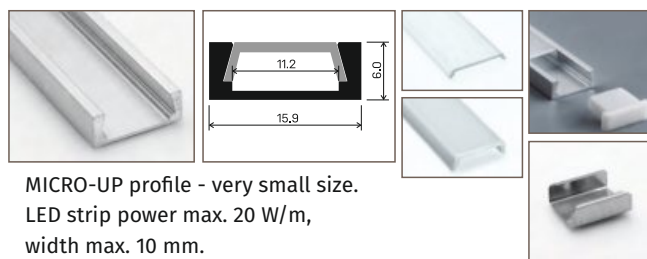


Profile + diffusers also possible in a length of 2 m.
LED strip power max. 25W/m, width max. 10 mm.

CODE	NAME
3202101120	ALU profile anod. - 20x16 mm (length 2 m)
3209014120	ALU profile anod. - 20x16 mm (length 4 m)
3209012600	Matt diffuser - length 4 m
3209013600	Opal diffuser - length 4 m
3202014602	End cap gray corner (pair)
3202106120	Mounting bracket

ALU profile MICRO UP

- for installation into thin furniture boards, lighting of stairs, showcase, bars, ...

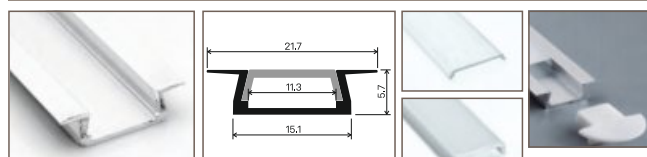


MICRO-UP profile - very small size.
LED strip power max. 20 W/m,
width max. 10 mm.

CODE	NAME
7311021506	Profile MICRO-UP anod. - 15.9x6 mm, 2 m
731016	Clear diffuser - length 2 m
731017	Opal diffuser - length 2 m
731018	Ceramic diffuser - length 2 m
7311021507	End cap without hole
731000	Profile clip

ALU profile MICRO IN

- for installation in thin furniture boards, lighting of stairs, showcases, bars,...

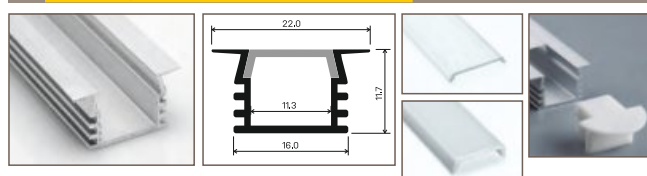


MICRO-IN - overlap covers unevenness after milling.
LED strip - power max. 20W/m, width max. 10 mm.

CODE	NAME
7311042206	Profile MICRO-IN anod. - 21.7 x 5.7 mm, 2 m
731016	Clear diffuser - length 2 m
731017	Opal diffuser - length 2 m
731018	Ceramic diffuser - length 2 m
7311042207	End cap without hole

ALU profile PDS BOX IN

- for milling, attachment to furniture or walls, also suitable for plasterboard



LED strip max. 25W / m, width max. 10 mm.

CODE	NAME
7311052212	PDS BOX IN anod. profile - 22 x 11.7 mm, 2 m
731016	Clear diffuser - length 2 m
731017	Opal diffuser - length 2 m
731018	Ceramic diffuser - length 2 m
7311052213	End cap without hole

SIGNMAKING



LED TECHNOLOGY



BOARD MATERIALS



CONSTRUCTION & ARCHITECTURE



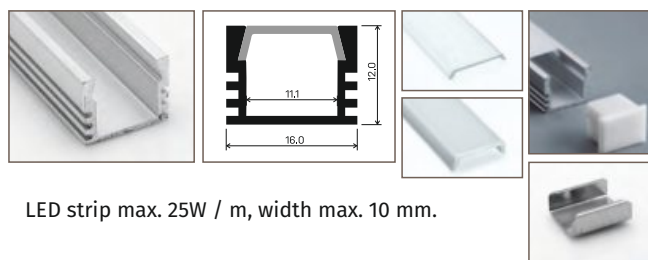
NEON ADVERTISING



TECHNOLOGIES AND SERVICES



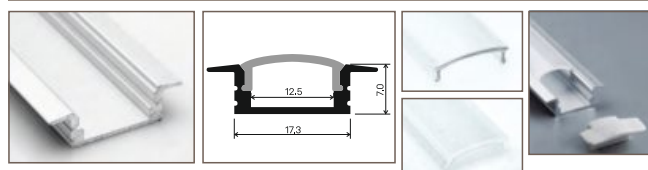
ALU profile PDS BOX UP - universal, for milling, attachment to furniture or walls, also suitable for plasterboard



LED strip max. 25W / m, width max. 10 mm.

CODE	NAME
7311031612	PDS BOX UP anod. profile - 16 x 12 mm, 2 m
731016	Clear diffuser - length 2 m
731017	Opal diffuser - length 2 m
731018	Ceramic diffuser - length 2 m
7311031613	End cap without hole
731000	Profile clip

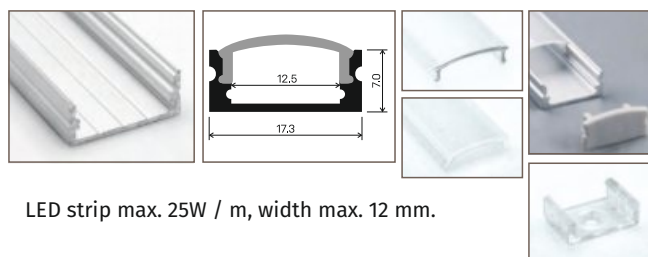
ALU profile MICRO WIDE IN - suitable for milling into thin plates



LED strip max. 25W / m, width max. 12 mm.

CODE	NAME
7312042507	Profile MICRO WIDE IN anod. - 25 x 7 mm, 2 m
731004	Clear diffuser - length 2 m
731005	Opal diffuser - length 2 m
731003	Frost diffuser - length 2 m
7312042508	End cap without hole

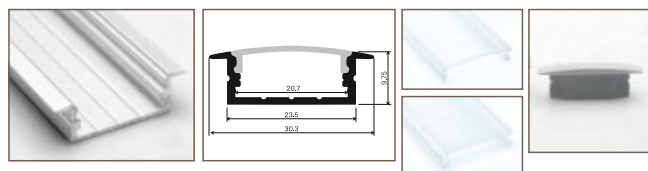
ALU profile MICRO WIDE UP - suitable for thin boards, for lighting furniture, stairs, showcases, bars



LED strip max. 25W / m, width max. 12 mm.

CODE	NAME
7312051707	Profile MICRO WIDE UP anod. - 17.3 x 7 mm, 2 m
731004	Clear diffuser - length 2 m
731005	Opal diffuser - length 2 m
731003	Frost diffuser - length 2 m
7312051708	End cap without hole
7312051710	Profile clip

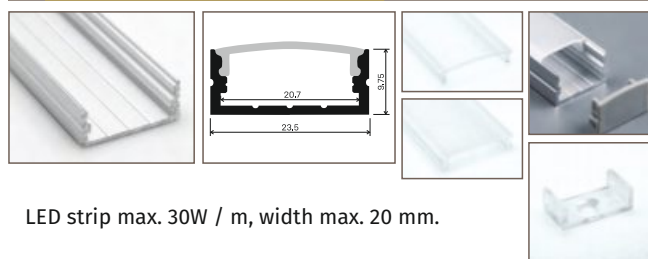
ALU profile WIDE IN - suitable for milling into thin furniture boards and plasterboard



LED strip max. 25W / m, width max. 12 mm.

CODE	NAME
7320013010	WIDE IN anod. profile - 30.3 x 9.75 mm, 2 m
731011	Clear diffuser - length 2 m
731012	Opal diffuser - length 2 m
731013	Frost diffuser - length 2 m
7320013012	End cap without hole

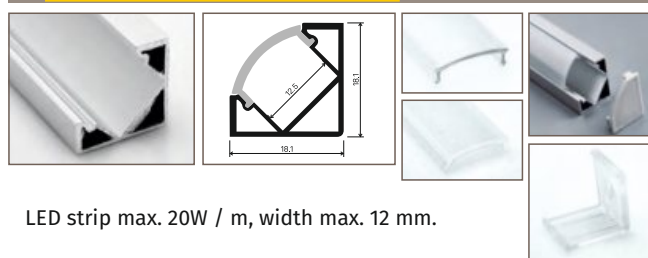
ALU profile WIDE UP - for surface mounting, for lighting furniture, stairs, showcases, bars, hotels,...



LED strip max. 30W / m, width max. 20 mm.

CODE	NAME
7320022310	WIDE UP anod. profile - 23.5 x 9.75 mm, 2 m
731011	Clear diffuser - length 2 m
731012	Opal diffuser - length 2 m
731013	Frost diffuser - length 2 m
7320022312	End cap without hole
7320022314	Profile clip

ALU profile CORNER 12 - for the manufacture of pendant or surface-mounted luminaires

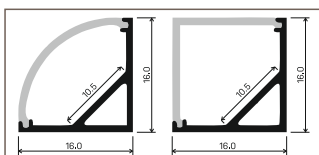
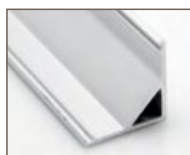


LED strip max. 20W / m, width max. 12 mm.

CODE	NAME
7312031818	CORNER 12 anod. profile - 18.1 x 18.1 mm, 2 m
731004	Clear diffuser - length 2 m
731005	Opal diffuser - length 2 m
731003	Frost diffuser - length 2 m
7312031822	End cap without hole
7312031821	Profile clip

ALU profile CORNER 16

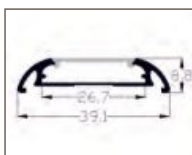
- for classic use and installation of LED strips, for surface mounting

LED strip
max. 10W / m,
width max. 10 mm.

CODE	NAME
7310021616	CORNER 16 anod. profile - 16 x 16 mm, 2 m
7310021617	Clear diffuser ROUND - length 2 m
7310021618	Opal diffuser ROUND - length 2 m
7310011618	Rectangular opal diffuser - length 2 m
7310021619	End cap without hole ROUND
7310011619	End cap without hole SQUARE
7310021621	Profile clip

ALU profile BIG STOS

- for surface mounting, for classic use of LED strips

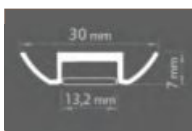


LED strip - max. 20W / m, width max. 26 mm.

CODE	NAME
73260140093	BIG STOS anod. profile - 39.1 x 8.8 mm, 2 m
73260140103	Clear diffuser - length 2 m
73260140113	Opal diffuser - length 2 m
7326014012	End cap without hole

ALU profile STOS ALU

- low profile designed for surface mounting, without milling the furniture



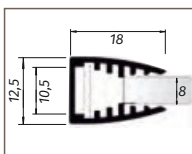
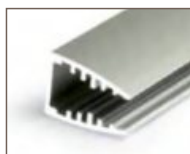
CODE	NAME
73B43693	Profile STOS ALU ELOX - 30 x 7 mm, 3 m
73170663	Opal diffuser KA-PRO-12 - length 3 m
7300085	End cap without hole

ILLUMINATED PROFILES

We recommend the 55813 LED strip for illuminated profiles - thanks to its width of only 5 mm, it is easy to install, powerful and has a high density of LEDs. The 24V voltage ensures a lower current load. Its 6200K color temperature is optimized for use with illuminated plexiglass.

**ALU profile MICRO 10**

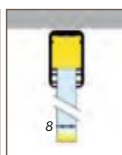
- as a light clip for glass shelves up to 6 mm thick



CODE	NAME
3202001122	Profile anod. MICRO 10 - 12,5x18 mm, 2m
3209038120	Al profile MICRO 10 - cooling, 2 m
3202009600	End cap with cut-out for glass transp. (pair)

ALU profile MICRO LINE 12

- as a light clip for glass shelves up to 8 mm thick

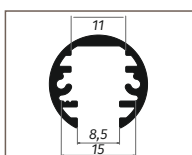


CODE	NAME
3202102120	Profile MICRO LINE 12 - 27x16,5 mm, 2m
32021021203	Profile MICRO LINE 12 - 27x16,5 mm, 3m
3209039120	Profile MICRO LINE 12, 2 m
3202010600	End cap with cut-out for glass transp. (pair)
3209008600	End cap without hole

Also suitable for creating a continuous line of light.

ALU profile for edge lighting

- use as a clothes rail, hanging sign or other design lamp



CODE	NAME
73015	ALU profile anodized - 20 mm (length 6 m)
73505	Matt diffuser - length 2 m
73110	LED profile cover - hanging
73115	Cap screw

8 mm thick plexiglass can be inserted into the profile.



LED ACCESSORIES

SETS - CONTROLLERS/ RECEIVERS

SETS



CODE: 67

SET - DIMMER WITH CONTROLLER
12-24V = 2x6A RF (max 10A)
Buttons for low, medium and maximum light.
Touch ring for continuous light control.



CODE: 80036

SET - LED TOUCH DRIVER AND RGB RECEIVER
RF 3x6A (type A5) (max 10 A)
Three functional areas for intensity control light, color effect, and transition speed. Rainbow circle for light color selection.



CODE: 80037

SET - LED TOUCH DRIVER AND RECEIVER RGBW
RF 4x6A (type A4) (max 10 A)
Can control RGB LED strips and one LED strip with white light or one RGBW LED strip.



CODE: 80034

TOUCH CONTROLLER HOLDER
Wall mount for controllers: 67, 80036, 80037
In the package 2 screws with a dowel and adhesive tape.



CODE: 71

SET - M7 DRIVER AND RGB RECEIVER
RF 12-24V 3x3A
Allows any setting color and its storage under programmable buttons 1-6.
Receiver size: 13.5 x 3 x 2 cm



CODE: 80063

SET - CONTROLLER AND RECEIVER
RGB button driver for one zone.
Switching on / off and green brightness control, red and blue channels separately.
Rainbow circle for touch color adjustment.
Dynamic effects button.
Receiver for controlling 3 channels (3x5A).
Receiver dimensions: 14.5 x 4.7 x 1.6 cm

CONTROLLERS/ DIMMERS

ZONE/CHANNEL



CODE: 203209

RF CONTROLLER
1 zone

Stylish controller with touch control.
10 levels of intensity lights.



CODE: 203208

RF CONTROLLER
10 zones

Controller with physical buttons
10 independent zones (up to 250 receivers per zone).



CODE: 203207

RF CONTROLLER
4 zones

Controller with physical buttons
4 independent zones (up to 250 receivers per zone).



CODE: 203206

RF CONTROLLER
4 channels

Controller with physical buttons
1 receiver and 4 channels.

RECEIVERS

ZONE/CHANNEL



CODE: 203212

RF RECEIVER
1 zone - 1x8A
Receiver of independent channel (zone). Suitable for pairing with controller for zones.

Dimensions: 10 x 3.8 x 2 cm



CODE: 203205

RF RECEIVER
4 channels - 4x8A
Receiver of independent channels. Suitable for pairing with controller 203206, with other controllers works as one zone.

Dimensions: 17 x 6 x 3 cm



CODE: 80050

RECEIVER RF INTELLIGENT
1 zone - 1x8A
Receiver for controlling 1 independent channel (zone). Suitable for pairing with the zone controller.
0-10V / PWM, 100-240VAC, 60mA
Dimensions: 5.9 x 17 x 2.9 cm



CODE: 80051

RECEIVER WI-FI RF INTELLIGENT
4 channels - 4x5A
Receiver for controlling of 4 independent channels. 12-36V
Receiver for telephone, WiFi router and RF remote control for brightness control of LED strips. IP20
Dimensions: 18 x 6 x 2 cm

DIMMER



CODE: 80054

UNIVERSAL RF DIMMER
12-36 VDC 4x5A

Waterproof with IP67, compatible with a number of controllers for switching and dimming of monochrome LEDs. Can control multiple zones separately or synchronized with infinite number of receivers in each zone. Smooth dimming from 0.1% to 100%. With IP67 it can also be used outdoors and in a humid environment. Range over 20 meters.

Dimensions: 18 x 7.3 x 3.8 cm

COMPATIBILITY TABLE OF CONTROLLERS AND RECEIVERS

	RECEIVER - 203212	RECEIVER - 203205	RECEIVER - 80054	RECEIVER - 80050	RECEIVER - 80051
CONTROLLER - 203209 1 ZONE	YES	YES	YES	YES	YES
CONTROLLER - 203208 10 ZONES	YES	NO	YES	YES	YES
CONTROLLER - 203207 4 ZONES	YES	NO	YES	YES	YES
CONTROLLER - 203206 4 CHANNELS	NO	YES	NO	NO	NO

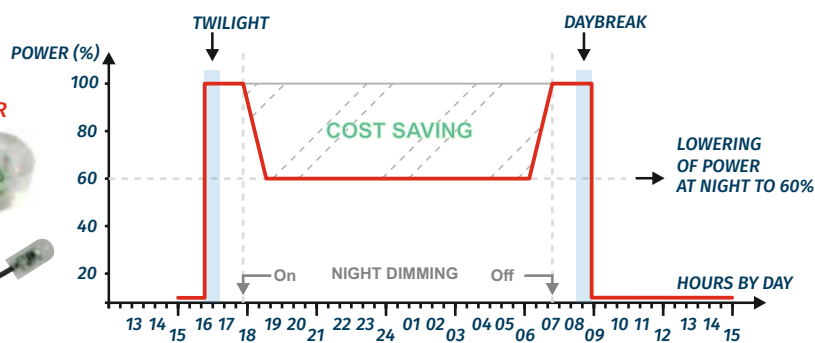
TWILIGHT SWITCH - INTELLIGENT DIMMING

INTELLIGENT TWILIGHTING OF ADVERTISING DEPENDING ON THE OUTDOOR LIGHT - when the twilight of the advertisement is lit to the maximum, the dimmer automatically lowers the light level at night. Control **0-10 V**. IP65. The dimmer is equipped with two switches - one sets the sensitivity and the other the light intensity. The set includes: control unit, outdoor light sensor.

Dimensions: 90 x 90 x 45 mm

Weight: 0.308g

Code: 51201120



OTHER TWILIGHT SWITCHES ON PAGE 33

LED FLASHERS

**LED FLASHERS 432**

CODE: 66

2 x 6 A [8 - 24 Vdc]

ABS waterproof box **IP55** • Bipolar terminal block • Sufficient internal space for cable Electronics in resin • 8-24 VDC power supply for low voltage source • Auto-adaptive voltage Reverse polarity protection • Adjustable speed from 0,1 s to 1,5 s • Easy installation between low voltage source and LED modules • **Dimensions:** 150 x 86 x 58 mm

**LED FLASHERS 434**

CODE: 64

3/4 x 5 A [8 - 24 Vdc]

64 programs for 3 to 4 channels • Fuse protection • ABS waterproof box **IP55** • Easy and fast installation • Terminal for remote switching • 8-24 VDC power supply for low voltage source Auto-adaptive voltage • Reverse polarity protection • Overload protection • Adjustable speed from 60 ms to 1,5 s • Possible brightness control by external sensor ref.: 3123
Dimensions: 177 x 175 x 90 mm; **Weight:** 1,2 kg

**LED FLASHERS 436**

CODE: 63

5/6 x 3 A [8 - 24 Vdc]

64 programs for 5 to 6 channels • Automatic protection • ABS waterproof box **IP55** • Easy and fast installation between low voltage source and LED modules • Terminal for remote switching 8-24 VDC power supply for low voltage source • Auto-adaptive voltage • Reverse polarity protection • Overload protection • Adjustable speed from 60 ms to 1,5 s
Dimensions: 177 x 175 x 90 mm; **Weight:** 1,2 kg



AMPLIFIERS / CONNECTORS



80038



80040



80600



80601



80604



80700

CODE	NAME
80038	RGBW amplifier 4 channels 12V =/6A/channel - for extension of LED strips over 5 m to power 4x6A, 288W
80040	RGB amplifier 3 channels 12V =/8A/channel - repeats or amplifies the signal of RGB control units
80600	Power connector - 2,5 mm screw socket - "female" for LED strip, not suitable for RGB
80601	Power connector - 2,5 x 5,5 x 14 mm plug - "male" for LED strip, not suitable for RGB
80604	Power connector - 2,1 mm socket for adapter
80700	Fuse box - SX-32V for blade fuse - for safe installation of LED strip

TERMINAL BOARDS



48004



222213



222212



48000



48002



48003



221412



221413



221415

CODE	NAME
48004	Terminal block 4P 4-pole with earth contact
48000	Cable holder for terminal block
222213	Cable 3-wire terminal block with Scotchlok UR-2 sealing gel
222212	Cable 2-wire terminal block with Scotchlok UY-2 sealing gel
221412	WAGO clamp compact 2 x 4 mm ² , transparent, 20 A, 300 V
221413	WAGO clamp compact 3 x 4 mm ² , transparent, 20 A, 300 V
221415	WAGO clamp compact 5 x 4 mm ² , transparent, 20 A, 300 V
48002	Terminal block 2P, white, 2-pole
48003	Terminal block 3P, white, 3-pole, with earth contact

TWIN CABLES



CODE

NAME

244205

Twin cable 2 x 0,5 mm - connecting for LED, max 9A

244210

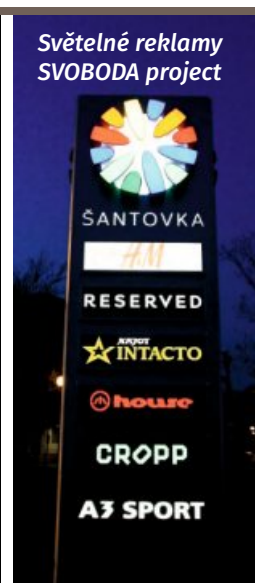
Twin cable 2 x 1 mm - supply and branching LED



LOFT DESIGN STUDIO project



ZLINEON project

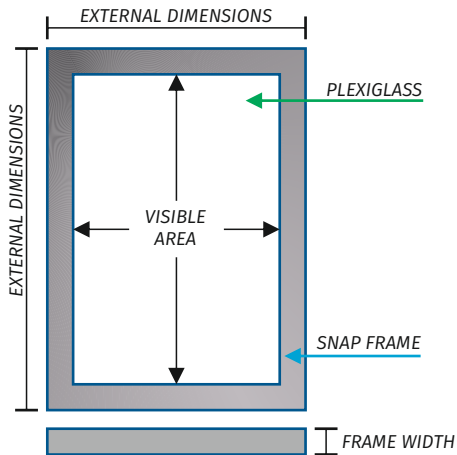


Světelné reklamy SVOBODA project

LED SLIM SNAP FRAMES

We supply **ultra-thin LED snap frames** in standard and non-standard sizes. Normally in stock sizes A3-A0, or double-sided versions.

Aluminum frame with snap-on profiles, after which the inserted poster, leaflet or price list **can be replaced very easily and quickly**. The frame simply snaps into place to attach the poster. **Snap frames are the ideal solution for a very effective presentation of graphics, messages, photographs, posters and paintings in the environment of offices, shops, public spaces and the home.** The frame is suitable for the installation of graphics, printed on eg CLV paper, Backlite foil, but also ordinary photo paper. **The snap frame is fitted with powerful LED strips on the sides, thanks to which the user obtains high surface luminosity and a long service life (up to 50,000 hours).**



EFFECTIVE AND POPULAR ADVERTISEMENT

FRAME IS READY TO INSTALL

QUICK AND EASY CHANGE

OF ADVERTISEMENT



ALL 4 SIDES
OPENABLE
INTERIOR SNAP FRAME



YOU SAVE

70% OF COST



ECOLOGICAL AND ECONOMICAL PRODUCT
DOES NOT CONTAIN MERCURY,
HEAVY METALS
WITHOUT UV AND IR RADIATION

CODE	SIZE	TOTAL SIZE	VISIBLE AREA	PRINT SIZE	POWER	WEIGHT
4133013	one-sided A3	430 x 307 x 15 mm	267 x 390 mm	297 x 420 mm	3,8 W	1,2 kg
4133012	one-sided A2	604 x 430 x 15 mm	550 x 376 mm	594 x 420 mm	7,6 W	1,9 kg
4133011	one-sided A1	860 x 613 x 19 mm	561 x 808 mm	594 x 841 mm	15 W	3,2 kg
4133010	one-sided A0	1209 x 860 x 19 mm	1157 x 808 mm	1189 x 841 mm	33 W	5,8 kg
4133213	double-sided A3	339 x 462 x 30 mm	275 x 398 mm	297 x 420 mm	8 W	2,4 kg
4133211	double-sided A1	883 x 636 x 30 mm	572 x 819 mm	594 x 841 mm	31 W	6,5 kg

Size: from A3 to A0
custom size and color on request
one-sided or two-sided
Material: Aluminium + Plexiglass
Long service life, modern design
Resistance: -20°C to +60°C
Safe voltage: 24 V DC
Warranty: 2 years
DC 24V transformer included

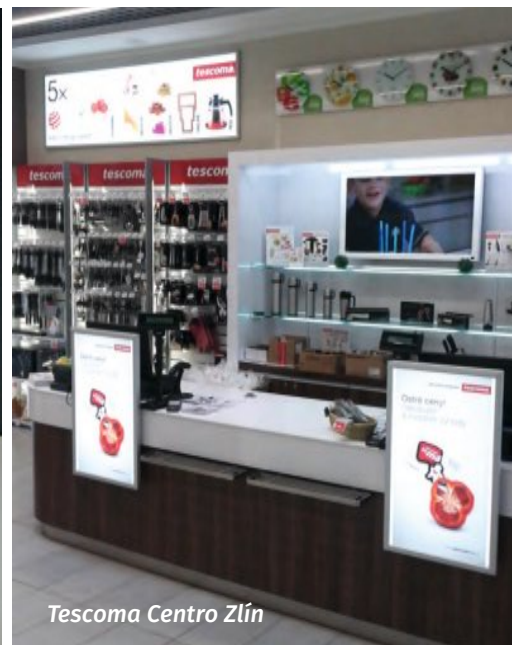


Project EFF, spol. s r.o.
for SBERBANK



PERFECT DISPERSION
OF LIGHT

ULTRA SLIM
DESIGN



Tescoma Centro Zlín

More information, technical manuals and current prices can be found at www.dencop.cz

SIGNMAKING



LED TECHNOLOGY



BOARD
MATERIALS



CONSTRUCTION
& ARCHITECTURE



NEON
ADVERTISING



TECHNOLOGIES
AND SERVICES



PROFESSIONAL LED REFLECTORS FOR OUTDOOR LIGHTING

- **Ultra slim design**
- **New design** prevents the accumulation of moisture and dirt
- **Significant increase in heat dissipation**
- **Corrosion resistant** - stable die-cast aluminum holder, th. 4 mm
- **Specially developed tempered glass for high light transmission and scattering**
- **Optionally in silver and black**
- **Increased LED chip life**
- Cree / Osram power chip
- MEAN WELL power supply inside



A new generation of LED spotlights with an **ultra-thin design**. Every part of the reflector has been improved. **Does not contain places where water and dirt could accumulate and thus the life of the LED chip has been significantly increased.** The handles and chassis are made of high-quality non-corrosive die-cast aluminum. Comes with **specially developed glass for optimal light transmission and scattering.**

NAME	LED REFLECTOR	LED REFLECTOR	LED REFLECTOR	LED REFLECTOR	LED REFLECTOR
CODE	45501641	45502441	45503241	45504841	45507241
Light source	32x SMD2835	40x SMD2835	48x SMD2835	88x SMD2835	112x SMD2835
LED chip	Cree/Osram	Cree/Osram	Cree/Osram	Cree/Osram	Cree/Osram
Input voltage	100-240VAC 50/60Hz	100-240VAC 50/60Hz	100-240VAC 50/60Hz	100-240VAC 50/60Hz	100-240VAC 50/60Hz
Power	13,5 - 14,5 W	20 - 21 W	27 - 28 W	48 - 50 W	65 - 68 W
Input	15 - 17 W	24 - 25 W	30 - 32 W	53 - 56 W	72 - 75 W
Power factor	>0,9	>0,9	>0,9	>0,9	>0,9
Lumens	1,840-2,000 lm	3,050-3,300 lm	3,900-4,200 lm	6,800-7,400 lm	9,200-9,900 lm
IP Coverage	IP66	IP66	IP66	IP66	IP66
Color	5700K	5700K	5700K	5700K	5700K
CRI	>80	>80	>80	>80	>80
Angle	120°	120°	120°	120°	120°
Weight	1,08 kg	1,62 kg	1,62 kg	3,08 kg	4,8 kg

Light transmission 93%
Opal glass, does not dazzle,
can also be clear
Thickness 415 mm

Silicone seal
Thickness 10 mm
UV resistant
Temperature (-65°C - 250°C)

Pure aluminum
reflects 99% of light

Waterproof, PF> 0,95
MEAN WELL power supply

VDE cable, UV resistant
H05RN-F 3x1.0mm²; 1,4 m

LED: Cree / Osram
CRI: >80, typical 85Ra
High efficiency: 160lm/W
Lm80

Cast case
Excellent heat dissipation
Self-cleaning surface
Sandblasted painting
IK08 & IP66

4 mm aluminum support
corrosion resistant

System efficiency:
up to 130 lm / W

16W: 135mm x 205mm x 42mm

24W/32W: 170mm x 251mm x 45mm

48W: 225mm x 330mm x 55mm

72W: 250mm x 372mm x 75mm

LED TRI-PROOF LIGHTS

CODE	PR1057	Number of LED	325
Voltage	230 V	Angle	120°
Color	6000 K	Lumens	5000 lm
Power	40 W	Size mm	1500 x 83,8 x 72,8
Účinnost	125 lm/W	Weight	3100 g
IP Coverage	IP65	Working temp.	-15° to +50°C



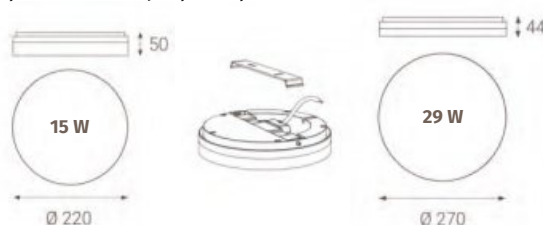
High quality and efficient dustproof LED luminaire. Built-in robust radiator ensures low operating temperatures with high light and long life.

LED DESIGN CEILING LIGHTS

LED ceiling **high quality and modern design**. Easy installation on the ceiling or wall in bathrooms, toilets, corridors and entrance halls. LED design ceiling lights are made of aluminum and polycarbonate. The luminaire has an integrated source, package contains mounting kit. LED luminaires are characterized by a constant luminous flux and immediate but smooth ramp-up to 100% power. IP44 protection. Lifespan up to 50,000 hours.



ROUND



CODE	VOLTAGE	POWER	LUMENS	COLOR	CURRENT	CRI	IP	VERSION
LS01015300	220 - 240 V	15 W	1000 lm	3000 K	150 mA	> 82 Ra	IP44	NON-DIMMABLE
LS01015400	220 - 240 V	15 W	1000 lm	4000 K	150 mA	> 82 Ra	IP44	NON-DIMMABLE
LS01029300	220 - 240 V	29 W	1950 lm	3000 K	150 mA	> 82 Ra	IP44	NON-DIMMABLE
LS01029400	220 - 240 V	29 W	1950 lm	4000 K	150 mA	> 82 Ra	IP44	NON-DIMMABLE



SQUARE



CODE	VOLTAGE	POWER	LUMENS	COLOR	CURRENT	CRI	IP	VERSION
LS01115300	220 - 240 V	15 W	1050 lm	3000 K	150 mA	> 82 Ra	IP44	NON-DIMMABLE
LS01115400	220 - 240 V	15 W	1050 lm	4000 K	150 mA	> 82 Ra	IP44	NON-DIMMABLE
LS01129300	220 - 240 V	29 W	1950 lm	3000 K	150 mA	> 82 Ra	IP44	NON-DIMMABLE
LS01129400	220 - 240 V	29 W	1950 lm	4000 K	150 mA	> 82 Ra	IP44	DIMMABLE

CEILING LIGHTS

Ceiling luminaires made of aluminum and polycarbonate with integrated transformer. Immediate start-up to 100%, IP20.



CODE	VOLTAGE	POWER	LUMENS	COLOR	VERSION	INSTALLATION HOLE (mm)	SIZE (mm)
LS00012300	220 - 240 V	12 W	700 lm	3000 K	DIMMABLE	95	115 x 115 x 80
LS00014400	220 - 240 V	14 W	700 lm	4000 K	DIMMABLE	99	125 x 125 x 80
LS00018300	220 - 240 V	18 W	1000 lm	3000 K	DIMMABLE	125	145 x 145 x 80
LS00028400	220 - 240 V	28 W	1600 lm	4000 K	DIMMABLE	175	195 x 195 x 80

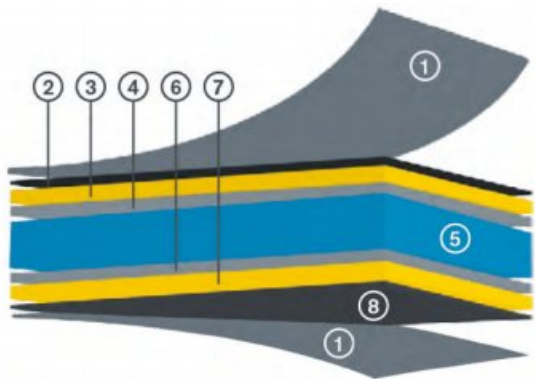
More information, technical manuals and current prices can be found at www.dencop.cz



DEBOND / ACP BOND (ALUMINIUM COMPOSITE PANEL)

DEBOND / ACP BOND composite boards - are modern sandwiches composed of two outer aluminum layers, between which there is a core of low-density polyethylene, LDPE (low-density polyethylene) or mineral material with reduced flammability. They are characterized by **low weight, dimensional stability, excellent resistance to weather and a perfectly smooth PVDF surface in color and design.**

They are processed by cutting, drilling, grooving, rolling on rollers, milling, bending and joining by gluing, riveting, and screwing.



MATERIAL CUT

1. protective foil
2. color film (PVDF, PE / PES)
3. aluminum sheet 0.12 - 0.5 mm
4. adhesive bridge
5. LDPE core
6. adhesive bridge
7. aluminum sheet
8. color film (PVDF, PE / PES)

USE IN SIGNMAKING:

- ADVERTISING BANNERS AND PYLONS
- INFORMATION BOARDS
- POP DISPLAYS
- SHEATHING AND DECORATION
- 3D OBJECTS
- GAS STATION ROOF
- EXHIBITION STANDS
- MECHANICALLY EXTREMELY STRESSED ADVERTISING

USE IN CONSTRUCTION:

- FACADE TILES
- BUILDING COVERINGS
- BUILDING FILLING
- INSIDE OF BUILDING CELLS
- BALCONY FILLS

BENEFITS:

Perfectly smooth and flat surface, resistant to weather conditions, UV. Wide range of colors according to RAL and designs, imitation of natural materials, metallic, brushed. Possibility of advertising printing, digital printing, screen printing, lamination. High flexural and fracture strength, dampens vibrations - no anti-vibration treatment required. Dimensional stability, easy handling. Easy to work with conventional methods.

DEBOND / ACP BOND FOR SIGNMAKING

	ACP BOND	ECONOMY BOND	DIGI BOND
WIDTH	1000 / 1220 / 1500 / 2000 mm	1220 / 1500 mm	1500 mm
LENGTH	3000 - 6000 mm	2440 / 3050 mm	3050 mm
TOTAL THICKNESS	2 / 3 / 4 mm	2 / 3 mm	3 mm
ALU THICKNESS	0,12 / 0,18 / 0,21 / 0,3 / 0,5 mm	0,15 / 0,18 mm	0,21 mm
SOUND ISOLATION	25 dB	25 dB	25 dB
FIRE REACTION CLASS	E - not fire resistant (LDPE core)	E - not fire resistant (LDPE core)	E - not fire resistant (LDPE core)
THERMAL RESISTANCE	- 50°C to + 80°C	- 50°C to + 80°C	- 50°C to + 80°C
COLOR	according to RAL	according to RAL	WHITE / WHITE

We are able to arrange all processing for you on own milling machines and cutting saw.

Plates with a thin layer of aluminium, suitable for prints

FOR DIGITAL PRINTING
Board with a special surface for a better color adhesion

DEBOND / ACP BOND FOR CONSTRUCTION

	DEBOND / ACP BOND	ALP BOND
WIDTH	1000 / 1250 / 1500 / 2000 mm	1500 mm
LENGTH	3000 - 6000 mm	3050 mm
TOTAL THICKNESS	3 / 4 mm	4 mm
ALU THICKNESS	0,3 / 0,4 / 0,5 mm	front 0,7 mm/ back 0,5 mm
SOUND ISOLATION	25 / 26 dB	22 dB
FIRE REACTION CLASS	B (FR) / A2	A2
THERMAL RESISTANCE	- 50°C to + 80°C	- 50°C to + 80°C
COLOR	according to RAL	WHITE/PRIMER and SILVER/PRIMER

Classification of reaction to fire:

- B** - self-extinguishing (LDPE core + FR additive)
- A2** - non-flammable (mineral core, in ALP 100% Al)



We are able to arrange all processing for you on own milling machines and cutting saw.

ACP/ALP Bond A2 must always have its edges bent! (to prevent water going inside)

ALP BOND
100% Al structure CORE
- aluminium sheet in the shape of cardboard, **2x lighter than A2 panel with mineral core**

PANEL WEIGHT m²:

PE CORE	
THICKNESS Al / PANEL	kg/m ²
0,12/3 mm	3,4
0,18/3 mm	3,5
0,21/2 mm	2,5
0,21/3 mm	3,6
0,3/3 mm	3,9
0,3/4 mm	4,8
0,5/4 mm	5,5

FR CORE (self-extinguishing)	
THICKNESS Al / PANEL	kg/m ²
0,3/3 mm	8,4
0,3/4 mm	6,8
0,3/5 mm	5,3
0,4/3 mm	5,5
0,4/4 mm	7
0,4/5 mm	8,6
0,5/3 mm	5,8
0,5/4 mm	7,2
0,5/5 mm	8,8

MINERAL CORE A2	
THICKNESS Al / PANEL	kg/m ²
0,4/4 mm	7,8
0,5/4 mm	8,2

CORE 100% Al A2	
THICKNESS Al / PANEL	kg/m ²
0,7 - 0,5/4 mm	4,3

ALP panel is 50% lighter than A2 panel with mineral core



COLORS SAMPLES

WHITE PREMIUM	WHITE RAL 9003	SILVER RAL 9006	SILVER RAL 9007	SILVER BRUSH
SILVER MIRROR	GRAY RAL 7012	GRAY RAL 7035	BLACK RAL 9005	BLACK GLOSS RAL 9005
RED RAL 3020	RED GLOSS RAL 3020	RED RAL 3000	ORANGE RAL 2004	YELLOW RAL 1021
YELLOW RAL 1003	DARK GREEN RAL 6007	GREEN RAL 6018	GREEN RAL 6029	BLUE RAL 5002
GOLD RAL 1036	BROWN RAL 8011	GRAY RAL 7016	GOLD BRUSH	IVORY RAL 1015
WOODEN DECOR	<p>Protective foil DEBOND/ ACP Bond boards are covered with a special foil that provides protection during transport, storage and processing</p> <p style="text-align: right;">Warning: There may be a difference between the RAL code and the real color of aluminium composite panel.</p>			

SIGNMAKING



LED TECHNOLOGY



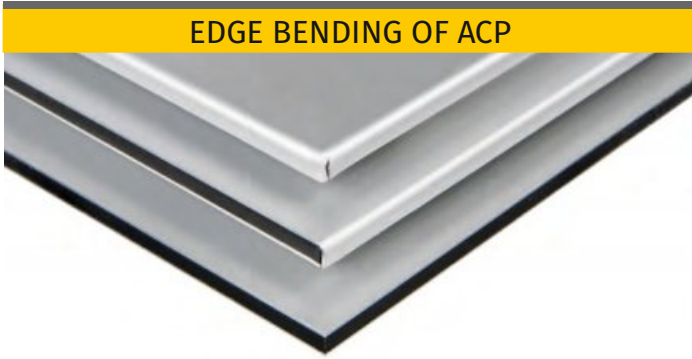
BOARD MATERIALS

CONSTRUCTION & ARCHITECTURE

NEON ADVERTISING

TECHNOLOGIES AND SERVICES

EDGE BENDING OF ACP

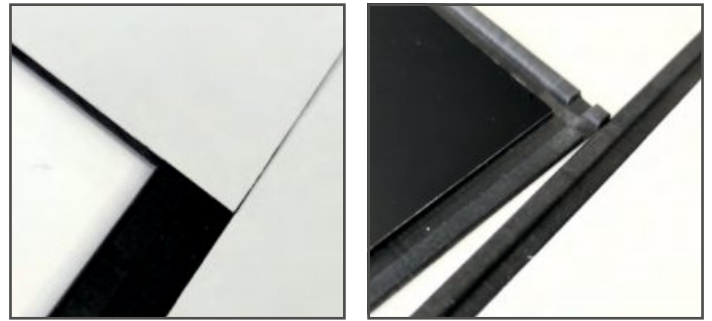


Bending of ACP edges is used in both advertising and construction. The embedded edges of the bonds are not only decorative but also functional. Protects the core from dust and the negative effects of external influences and thus prolongs the life of the panel. For A2 bonds, bended edges are a must, otherwise the customer loses the manufacturer's warranty.

We offer bending of all types of ACP Bonds and Debonds in three different types:



CONNECTING (LOCKING) ACP

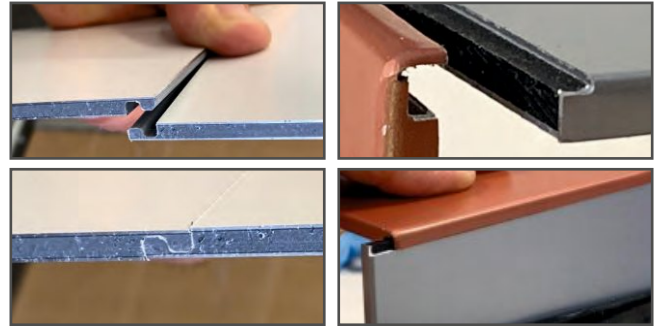


Bond locking is solved by a system (joining) of stacking bonds together.

We offer locking of all types of ACP Bonds and Debonds in two different formats:

STRAIGHT LOCKING

LOCKING TO THE SIDE



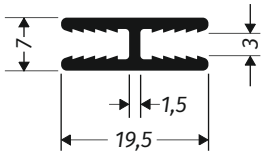
PROFILES FOR ACP AND DEBOND

CODE	NAME	FOR WIDTH	ROD LENGHT	SURFACE
7245556	Connecting H profile for ACP Bond	3 mm	6 m	raw
7245516	Connecting H profile for ACP Bond	4 mm	6 m	raw
7245566	Connecting L profile for ACP Bond	3 mm	6 m	raw
7245526	Connecting L profile for ACP Bond	4 mm	6 m	raw
7244936	Drain L profile for ACP Bond	4 mm	6 m	raw
7245546	Framing U profile for ACP Bond	3 mm	6 m	raw
7244946	Framing U profile for ACP Bond	4 mm	6 m	raw

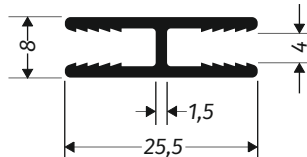
Debond (ACP bond) profiles excel in simple design, quick installation and strong durability.

We offer profiles in a length of 6 m. We will be happy to cut to size them to the required length.

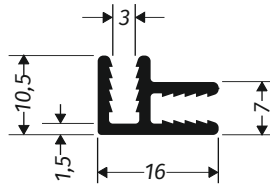
Connecting H profile/ 3 mm



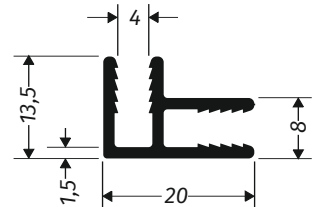
Connecting H profile/ 4 mm



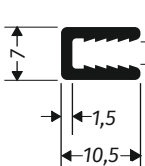
Connecting L profile/ 3 mm



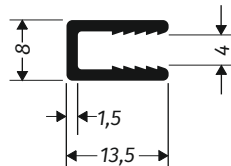
Connecting L profile/ 4 mm



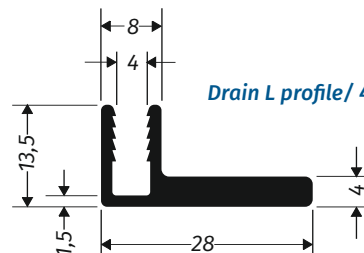
Framing U profile/ 3 mm



Framing U profile/ 4 mm



Drain L profile/ 4 mm



USE OF PMMA BOARD MATERIALS:

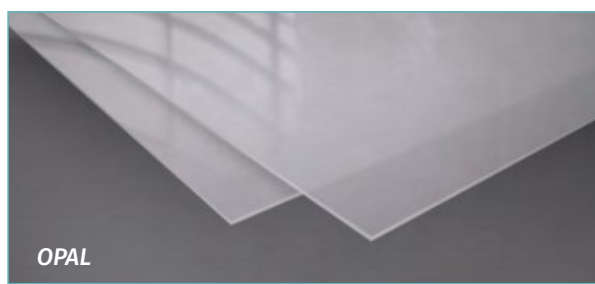
Noise barriers, machine fairings, illuminated advertising, balcony glazing, ship windows, advertising banners, roofing terraces, caravan glazing, stands, skylights, shelving systems, light / illuminated showcases, tunnel corridors, showcases, lighting, partitions, furniture.

PMMA - EXTRUDED PLEXIGLASS - CRYSTAL

EXTRUDED PLEXIGLASS - CRYSTAL

are transparent / translucent extruded polymethyl methacrylate sheets. They have excellent **optical properties and are characterized by high light transmission**, resistance to environmental influences and high resistance to temperatures ranging from -40°C to +80°C.

Processing is shown by **simple formability, cutting and drilling**.



CODE	THICKNESS	SIZE (mm)	COLOR
30702*	2 mm	3050 x 2050	clear
30703*	3 mm	3050 x 2050	clear
30704*	4 mm	3050 x 2050	clear
30705*	5 mm	3050 x 2050	clear
30706*	6 mm	3050 x 2050	clear
30708*	8 mm	3050 x 2050	clear
30710*	10 mm	3050 x 2050	clear
30721*	20 mm	3050 x 2050	clear
30742	2 mm	6000 x 2000	clear
30743	3 mm	6000 x 2000	clear
30744	4 mm	6000 x 2000	clear
30745	5 mm	6000 x 2000	clear
30746	6 mm	6000 x 2000	clear

CODE	THICKNESS	SIZE (mm)	COLOR
30712*	2 mm	3050 x 2050	opal
30713*	3 mm	3050 x 2050	opal
30714*	4 mm	3050 x 2050	opal
30715*	5 mm	3050 x 2050	opal
30716*	6 mm	3050 x 2050	opal
30718*	8 mm	3050 x 2050	opal
30720*	10 mm	3050 x 2050	opal
30734	4 mm	4050 x 2050	opal
30722	2 mm	6000 x 2000	opal
30723	3 mm	6000 x 2000	opal
30724	4 mm	6000 x 2000	opal
30725	5 mm	6000 x 2000	opal
30726	6 mm	6000 x 2000	opal

* Also offered in sizes:

- 2050 x 1010 mm → code+ /1/
- 2030 x 2050 mm → code+ /2/
- 3050 x 1020 mm → code+ /3/
- 1010 x 1020 mm → code+ /4/

Example: plexiglass code 2 mm thick, clear, in dimensions 2050 x 1010 is 307021

1 sheet = 6,25 m² or 12 m²

Sheet size:

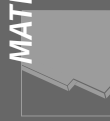
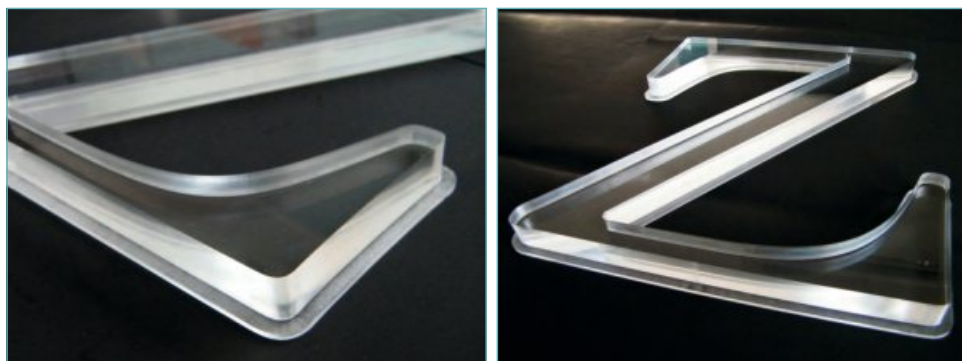
2050×3050 mm up to 10 mm thickness we offer either in uncutted sheets or by cut-to-size

6000×2000 mm and 4050×2050 mm only in uncutted sheets!



Plexiglass can be always cutted to your required size.

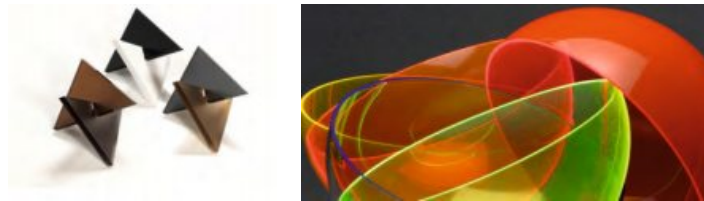
EXAMPLE OF MILLING TO PLEXIGLASS →



PMMA - CAST PLEXIGLASS - PERSPEX



PERSPEX® clear plexiglass is characterized by **excellent light transmission (92%)**, which is comparable to glass, **impact resistance** (5 × more resistant than glass of the same thickness) and **low weight** (1,19 g / cm³). The surface hardness is the highest of all common plastics. PERSPEX® cast plexiglass has **low surface tension** and **is resistant to UV radiation**. The boards are provided with a protective foil on both sides. PERSPEX® cast plexiglass is suitable for more complex mechanical or heat treatment. The material can be very well drilled, milled, laser cut, glued, polished, hot bent or vacuum formed.



PERSPEX FEATURES/CERTIFICATES:

- **Specific gravity** (ISO 1183) 1,19 g/c³
- **Rockwell hardness** (ISO 2039-2) 102 M Scale
- **Water absorption** (ISO 62) 0,2%
- **Tensile strength** (ISO 527 (a)) 75 Mpa
- **Tensile strength** (ISO 178 (b)) 3210 Mpa
- **Charpy impact strength** (ISO 179 ©)) 12 kj.m⁻²
- **Elongation at break** (ISO 527) 4%
- **VICAT Softening point** (ISO 306A) >110°C
- **Coefficient of thermal expansion** (ASTM D696) 7,7 X 10⁻⁵ K⁻¹
- **Combustibility** (DIN 4102) B2
- UL94 HB
- BS 476, Pt7 3 Class
- ČSN C3
- **Light transmission** (ASTM D1003) 92%
- **Refractive index of light** (ISO 489/A) 1,49

PERSPEX CLASSIC

CLEAR CAST

Thickness (mm): 2 / 2,5 / 3 / 4 / 5 / 6 / 8 / 10 / 12 / 15 / 20 / 25
Sheet size (mm): 3050 x 2030 / 2550 x 2030

*92%
000

OPAL

Thickness (mm): 3 / 4 / 5 / 6 / 8 / 10 / 12 / 15 / 20 / 25
Sheet size (mm): 3050 x 2030

*26% 028 *70% 030 *51% 040 *37% 050 *9% 069

TRANSPARENT

Thickness (mm): 3 / 5
Sheet size (mm): 3050 x 2030



TRANSLUCENT

Thickness (mm): 3 / 5
Sheet size (mm): 3050 x 2030



PERSPEX FROST

FROST CLEAR

Thickness (mm): 3 / 4 / 5 / 8 / 10
Sheet size (mm): 3050 x 2030

S2 000

FROST OPAL

Thickness (mm): 3 / 4 / 5 / 8 / 10
Sheet size (mm): 3050 x 2030

S2 030

FROST COLOR

Thickness (mm): 3 / 5
Sheet size (mm): 3050 x 2030



* LIGHT TRANSMISSION MEASURED WITH A PERSPEX THICKNESS OF 3 mm

SPECTRUM LED

SPECTRUM LED

Thickness (mm): 3
Sheet size (mm): 3050 x 2030



FLUORESCENT

FLUORESCENT

Thickness (mm): 3
Sheet size (mm): 3050 x 2030



Boards with a strong edge color

SPECIAL

BLACK & WHITE

Thickness (mm): 3 / 5
Sheet size (mm): 3050 x 2030



The color is black, white when illuminated

GLASS LOOK

Thickness (mm): 3 / 4 / 5 / 6 / 8 / 10 / 12
Sheet size (mm): 3050 x 2030



Glass imitation (slightly green color)

S-LUX

Thickness (mm): 8 / 10
Sheet size (mm): 3050 x 2030



Has a special surface treatment with texture, which creates even illumination over the entire area.

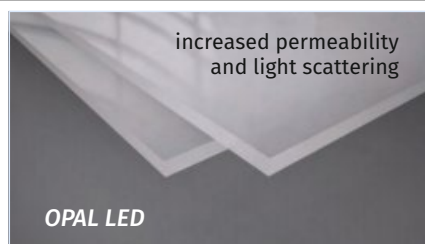
DUO

Thickness (mm): 3
Sheet size (mm): 3050 x 2030



For small area engraving applications. Two - layer cast plexiglass with black core and gold or a silver top layer that allows black engraving.

SPECIAL PMMA FOR LED APPLICATIONS - LED BLOCKS



CODE	THICKNESS	SIZE (mm)	COLOR
35720	20 mm	3050 x 2030	opal LED
35720D	20 mm	1010 x 2030	opal LED
35730	30 mm	3050 x 2030	opal LED
35730D	30 mm	1010 x 2030	opal LED

We are able to provide all processing for you on our own milling machines and cutting saw.

Opal cast plexiglass allows creators of advertising letters and signs, to take advantage of LEDs and create elegant solutions that are cost-effective and environmentally efficient. Cast plexiglass has excellent scattering performance, it can be used not only for LED applications, but also with alternative light sources.

MATERIAL REQUIRED FOR THE PRODUCTION OF THE LED BLOCK:

551921

140

WEPURAN VT 3402 KK sealing liquid 2-component, 1+1 kg

PMMA FOR LED opal LED 3050x2030; 1010x2030 thickness 20 and 30 mm

SIGNMAKING



LED TECHNOLOGY



BOARD MATERIALS

CONSTRUCTION & ARCHITECTURE

NEON ADVERTISING



TECHNOLOGIES AND SERVICES



SOLID AND MULTIWALL POLYCARBONATE

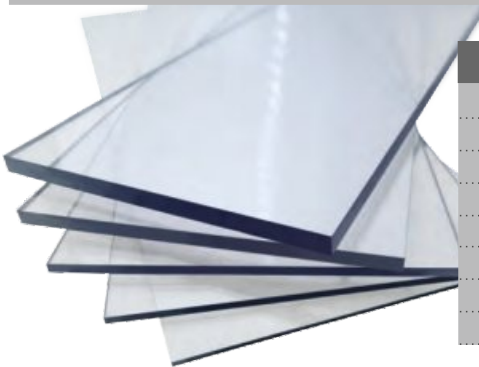
Thermal insulation stable boards with UV protection, are made of high quality thermoplastic material - polycarbonate. Polycarbonate combines several properties that do not occur to any other material. They offer optimal safety and protection - they are number one in unbreakable glazing.



USE:

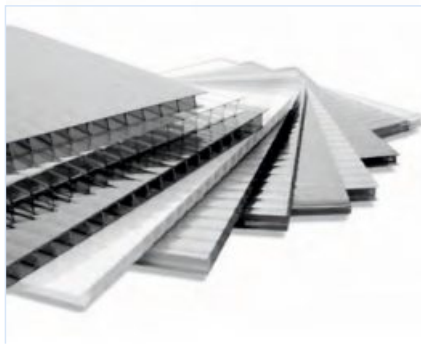
all flat and arched glazing - roofing of terraces, glazing of windows and doors, skylights and light strips, conservatories and greenhouses, pergolas, swimming pools, fillings, partitions and screens, advertising panels and banners, elements of urban furniture, noise walls, but also large roofing and cladding (sports stadiums, etc.)

SOLID POLYCARBONATE

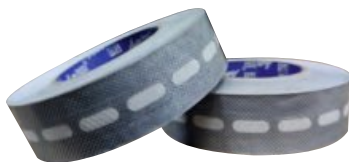


CODE	NAME	THICKNESS	SIZE (mm)	COLOR
35601	Solid polycarbonate 2UV	1 mm	2050 x 1250	clear
35602	Solid polycarbonate 2UV	2 mm	3050 x 2050	clear
35603	Solid polycarbonate 2UV	3 mm	3050 x 2050	clear
35604	Solid polycarbonate 2UV	4 mm	3050 x 2050	clear
35605	Solid polycarbonate 2UV	5 mm	3050 x 2050	clear
35606	Solid polycarbonate 2UV	6 mm	3050 x 2050	clear
35608	Solid polycarbonate 2UV	8 mm	3050 x 2050	clear
35610	Solid polycarbonate 2UV	10 mm	3050 x 2050	clear

MULTIWALL POLYCARBONATE



THICKNESS mm	4 / 4,5 / 6 / 8 / 10 / 16 / 25
SIZE mm	width: 1050 / 2100 mm length: 1000 - 7000 mm
COLOR	clear / bronze
DESCRIPTION	Double-sided UV protection, weather resistance, very good impact resistance, high light transmission, low weight. The boards are provided with a double-sided protective layer, which protects the boards from ultraviolet radiation and thus prevents deterioration of the material. Double-sided UV protection has the advantage of glazing walls outdoors, where both sides of the wall are exposed to sunlight. This eliminates the risk of incorrect mounting by turning the board. And when cutting, for example, into triangles, it allows the boards to be turned over, thus minimizing any waste.



ANTIDUST

Tape for closing open edges and edging hollow polycarbonates. Prevents dirt from entering the cavity space.

CODE	NAME	WIDTH (mm)	LENGTH (m)
39312550	Aluminium tape ANTIDUST	25	roll 50 m
39313850	Aluminium tape ANTIDUST	38	roll 50 m
39322533	Aluminium tape ANTIDUST	25	roll 33 m
39323833	Aluminium tape ANTIDUST	38	roll 33 m

Properties:

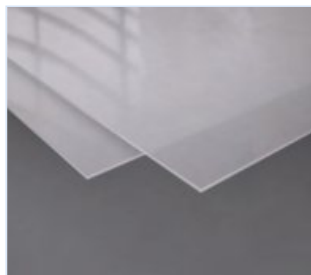
Polycarbonate boards are transparent and at the same time extremely impact resistant (impact toughness) in the temperature range from -40°C to +120°C. The material is characterized by low specific weight, high light transmission (over 80% - depending on the type and thickness of the board) and excellent resistance to weathering. In conjunction with a single-sided or double-sided extruded layer of UV filter, it has a high resistance to aging and ensures the preservation of optical and mechanical properties.

Sheets of smaller thicknesses have a double-walled structure, sheets of larger thicknesses have a multi-walled structure, with cross (X) reinforcements or the so-called honeycomb structure. They can be installed straight or cold bent.

If the bending radius of the polycarbonate is not smaller than the minimum recommended radius, the bending does not have a negative effect on the mechanical properties of the boards, but on the contrary, the load-bearing capacity increases due to the resulting vault.

POLYESTER PET-G

MATERIALS FOR VACUUM PROCESSING



CODE	NAME	THICKNESS	SIZE (mm)	COLOR
35502	Polyester PETG	2 mm	3050 x 2050	clear
355021	Polyester PETG	2 mm	2050 x 1250	clear
35513	Polyester PETG UV	3 mm	3050 x 2050	opal 30%
35602	Polyester PETG UV	2 mm	3050 x 2050	clear
36513	VIVAK UV	3 mm	3050 x 2050	opal 30%
36514	VIVAK UV	4 mm	3050 x 2050	opal 30%
36515	VIVAK UV	5 mm	3050 x 2050	opal 30%

PETG extruded boards offer **many options** to designers and manufacturers, from simple shapes to the most complex shapes. PETG is **easy to shape** (using a vacuum) and does **not require drying before processing**. This material allows the use of thinner boards for the same purpose than other common plastics. PETG material **meets hygienic requirements** and can be used in direct contact with food.

Application: protection of vending machines, 3D packaging, bus shelters, kiosks, protection of banners, ...

Other PET-G materials:

VERALITE 200/ VIVAK / LUMEX G/ HIPEX G

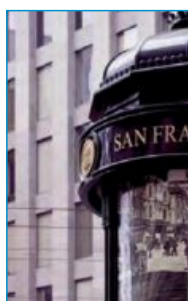
COLOR: clear/ opal

THICKNESS: from 0,75 mm to 10 mm

SIZE: 1250 x 2050 / 1250 x 2500/ 2050 x 3050 mm

DENSITY: 1,27 g/m³

LIGHT TRANSMISSION: 90% (with clear color)



3D moldings / packaging

COVER FOILS

PVC - PENTAPRINT/ VIKUNYL

Strong and durable PVC foil. For a **wide range of applications in signmaking**. It is simply thermoformed, bent cold, it can be welded. It is resistant to weathering and UV radiation.

Usage: credit cards, name tags, security features, packaging,...

COLOR CLEAR (gloss/ gloss)

THICKNESS: 0,15/ 0,2/ 0,25/ 0,3/ 0,4/ 0,5/ 0,6/ 0,75 mm

SIZE: 1000 x 1400 mm

THICKNESS: 1 mm

SIZE: 1000 x 2000 mm / 1200 x 2000 mm

COLOR CLEAR ANTIREFLEX (matte/ gloss)

THICKNESS: 0,3/ 0,4/ 0,5/ 0,6/ 0,75 mm

SIZE: 1000 x 1400 mm

THICKNESS: 1 mm

SIZE: 1200 x 2000 mm

COLOR WHITE (matte/ matte)

THICKNESS: 0,15/ 0,2/ 0,3/ 0,4/ 0,5/ 0,75/ 1 mm

SIZE: 1000 x 1400 mm

COLOR WHITE (gloss/ gloss)

THICKNESS: 0,2/ 0,3/ 0,4/ 0,5/ 0,75/ 1 mm

SIZE: 1000 x 1400 mm

APET

VERALITE 100 / LUMEX A/ AXPET/ HIPEX A

Extruded clear film based on **APET** with excellent rigidity and excellent chemical resistance.

Application: protection of posters and graphics in clapperboards, machine protection, decorations, displays, labels, packaging, ...

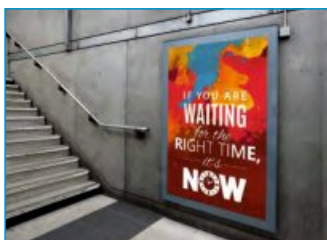
COLOR: clear/ clear antireflex

THICKNESS: from 0,6 mm to 8 mm

SIZE: 1250 x 2050 / 1250 x 2500/ 2050 x 3050 mm

DENSITY: 1,33 g/m³

LIGHT TRANSMISSION: 89%



FOAMED PVC

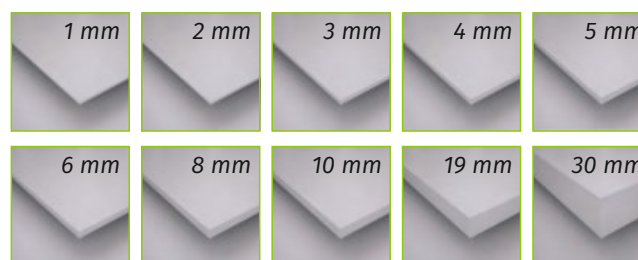
Board material for advertising and exhibitions, production of advertising signs and stands, fillings for prefabricated structures, etc. **PVC boards are suitable for gluing foil graphics, screen printing, direct digital printing,...**

Advantages:

- for common indoor and outdoor use
- low weight
- wide range of sizes, thicknesses and colors
- easy machining - gluing, drilling, milling
- after heating, can be vacuum or pressure formed
- very good durability in the exterior
- high resistance to UV radiation
- high temperature resistance up to + 60 ° C
- low moisture absorption
- good resistance to chemicals
- poorly flammable (does not burn without flame)
- very popular and used material

Use:

Advertising, construction, industry (trade fair stands, etc.), the back of 3D letters, as a background material for LEDs or neon lights, or as board information boards (exterior, interior).



PALFOAM LW (LIGHT WEIGHT)

Palfoam density: 0,45 g/m³ (3 mm)

Palfoam density: 0,47 g/m³ (10 mm)

- smooth foam light PVC board with matt surface

CODE	NAME	THICKNESS	SIZE (mm)
30202L	PALFOAM LW	2 mm	3050 x 1560
30302L	PALFOAM LW	2 mm	3050 x 2030
532L	PALFOAM LW	2 mm	2000 x 1000
30203L	PALFOAM LW	3 mm	3050 x 1560
30303L	PALFOAM LW	3 mm	3050 x 2030
533L	PALFOAM LW	3 mm	2000 x 1000
30204L	PALFOAM LW	4 mm	3050 x 1560
30304L	PALFOAM LW	4 mm	3050 x 2030
534L	PALFOAM LW	4 mm	2000 x 1000
30205L	PALFOAM LW	5 mm	3050 x 1560
30305L	PALFOAM LW	5 mm	3050 x 2030
535L	PALFOAM LW	5 mm	2000 x 1000
30206L	PALFOAM LW	6 mm	3050 x 1560
30306L	PALFOAM LW	6 mm	3050 x 2030
536L	PALFOAM LW	6 mm	2000 x 1000
30208L	PALFOAM LW	8 mm	3050 x 1560
30308L	PALFOAM LW	8 mm	3050 x 2030
538L	PALFOAM LW	8 mm	2000 x 1000
30210L	PALFOAM LW	10 mm	3050 x 1560
30310L	PALFOAM LW	10 mm	3050 x 2030
539L	PALFOAM LW	10 mm	2000 x 1000

PALIGHT/ PALIGHT PRINT

Palight density: 0,57 g/m³ (3 mm)

- smooth foam light PVC board with matt surface

Palight Print density: 0,52 g/m³ (3 mm)

- smooth foam PVC board for even surface coverage by printing and higher adhesion of printing, sheets with bright white color

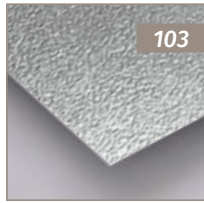
CODE	NAME	THICKNESS	SIZE (mm)
30401	PALIGHT	1 mm	2440 x 1220
30213	PALIGHT	13 mm	3050 x 1560
30219	PALIGHT	19 mm	3050 x 1560
30530	PALIGHT	30 mm	3050 x 1220
30202P	PALIGHT PRINT	2 mm	3050 x 1560
30302P	PALIGHT PRINT	2 mm	3050 x 2030
30203P	PALIGHT PRINT	3 mm	3050 x 1560
30303P	PALIGHT PRINT	3 mm	3050 x 2030
30204P	PALIGHT PRINT	4 mm	3050 x 1560
30304P	PALIGHT PRINT	4 mm	3050 x 2030
30205P	PALIGHT PRINT	5 mm	3050 x 1560
30305P	PALIGHT PRINT	5 mm	3050 x 2030
30210P	PALIGHT PRINT	10 mm	3050 x 1560
30310P	PALIGHT PRINT	10 mm	3050 x 2030

We also offer Palight boards in color to order (thickness 3, 5, 10 mm):



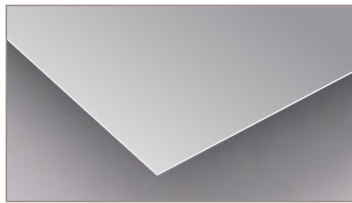
OTHER PVC SIZES ARE AVAILABLE ON REQUEST

ALUMINIUM SHEETS



CODE	NAME	THICKNESS	SIZE (mm)	TYPE	
102	Aluminium sheet	0,6 mm	2000 x 1000	white painted	m ²
103	Aluminium sheet	0,63 mm	2000 x 1000	embossed	m ²

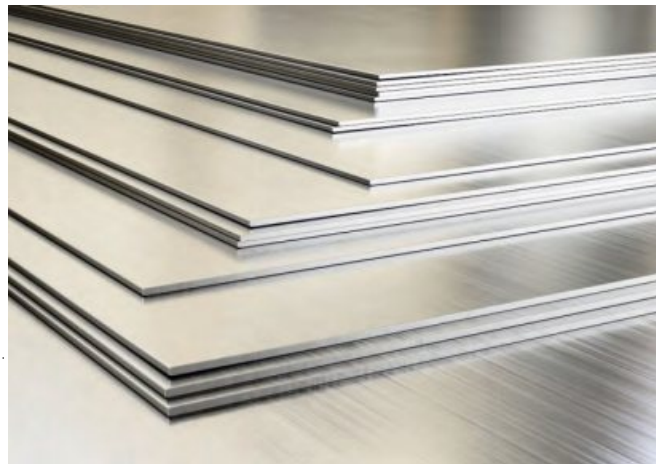
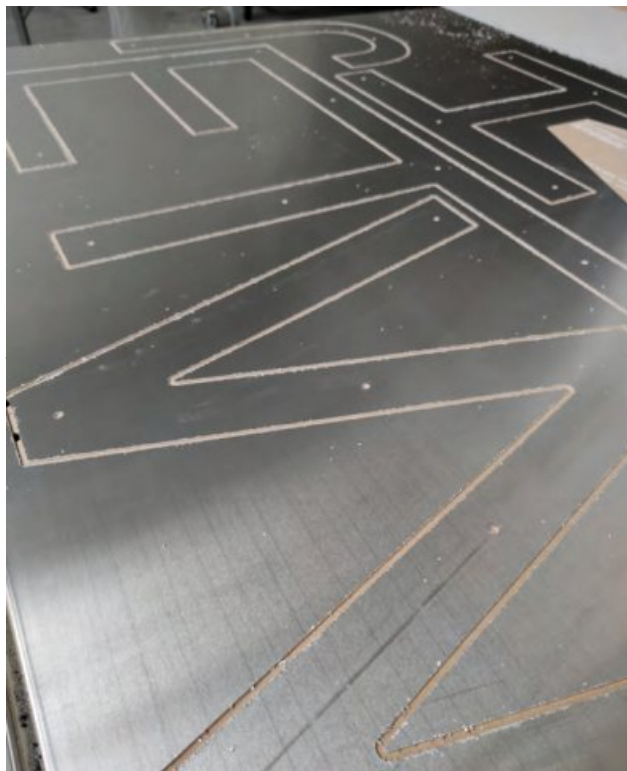
Reflecting aluminum sheets made of 10/50 H24 alloy.
Bends, cuts, welds and rivets well.



Alloy EN AW-1050 H24.
bends, cuts and welds well.
Excellent corrosion resistance,
suitable for anodizing and
others surface finishes.

CODE	NAME	THICKNESS	SIZE (mm)	TYPE	WEIGHT	
41101530	Aluminium sheet	1 mm	1500 x 3000	raw	11,61 kg	pcs
41121020	Aluminium sheet	1,2 mm	1000 x 2000	raw	6,6 kg	pcs
41121230	Aluminium sheet	1,2 mm	1250 x 3000	raw	12,3 kg	pcs
41121530	Aluminium sheet	1,2 mm	1500 x 3000	raw	14,6 kg	pcs
41151020	Aluminium sheet	1,5 mm	1000 x 2000	raw	6,09 kg	pcs
41151225	Aluminium sheet	1,5 mm	1250 x 2500	raw	12,41 kg	pcs
41151230	Aluminium sheet	1,5 mm	1250 x 3000	raw	15,2 kg	pcs
41151530	Aluminium sheet	1,5 mm	1500 x 3000	raw	17,73 kg	pcs
41201020	Aluminium sheet	2 mm	1000 x 2000	raw	10,6 kg	pcs
41201225	Aluminium sheet	2 mm	1250 x 2500	raw	15,56 kg	pcs
41201530	Aluminium sheet	2 mm	1500 x 3000	raw	24,3 kg	pcs

Application: production of chemical equipment, pipelines, in locksmithing, construction, pressure vessels, lampshades,...



We are able to mill the sheets we offer according to your requirements.

STAINLESS STEEL



CODE	NAME	THICKNESS	SIZE (mm)	WEIGHT	DESCRIPTION
2125025	Stainless steel	2 mm	1250 x 2500	50 kg	1.4301/2B + Laser foil
4125025	Stainless steel	4 mm	1250 x 2500	100 kg	1.4301/1.4307/2B + Laser foil

Cold rolled stainless steel sheets, resistant to corrosion and oxidation up to 870°C. Suitable for hot and cold forming and are suitable for machining. Common use in construction and advertising, but also in the food industry.



MILLING CUTTERS / DIAMOND CUTTERS

We offer **high-quality** milling cutters that have **optimized geometry** directly on our Debond composite materials, however, they are also suitable for milling plexiglass and foamed PVC. For mineral core it is recommends to use only **diamond cutters**. For our cutters, we are happy to advise you on cutting speeds.

CUTTERS FOR ACP BOND AND PLEXIGLASS



CODE	DIAMETER	BLADE LENGTH	TOTAL LENGTH	TOOL DIAMETER	NO. OF CUTS
PR1472	3 mm	22 mm	50 mm	6 mm	1
PR1473	4 mm	22 mm	50 mm	6 mm	1
PR1474	6 mm	22 mm	50 mm	6 mm	1
PR216	2 mm	7 mm	58 mm	6 mm	1
PR244	3 mm	12 mm	58 mm	6 mm	1
PR976	4 mm	15 mm	58 mm	6 mm	1
PR1411	5 mm	17 mm	58 mm	6 mm	1
PR115	6 mm	22 mm	58 mm	6 mm	1
PR1408	8 mm	26 mm	64 mm	8 mm	1
PR1352	10 mm	32 mm	73 mm	10 mm	1

CUTTERS FOR LED BLOCKS



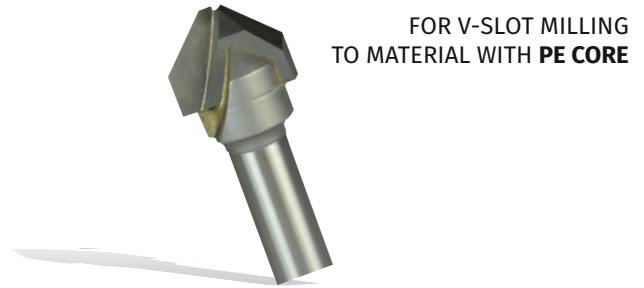
CODE	DIAMETER	BLADE LENGTH	TOTAL LENGTH	TOOL DIAMETER	NO. OF CUTS
PR1201	4 mm	20 mm	60 mm	4 mm	1
PR1202	4 mm	30 mm	70 mm	4 mm	1

DIAMOND CUTTER



CODE	DIAMETER	BLADE LENGTH	TOTAL LENGTH	TOOL DIAMETER	NO. OF CUTS
PR1201	8 mm	12 mm	50 mm	8 mm	1

V CUTTER

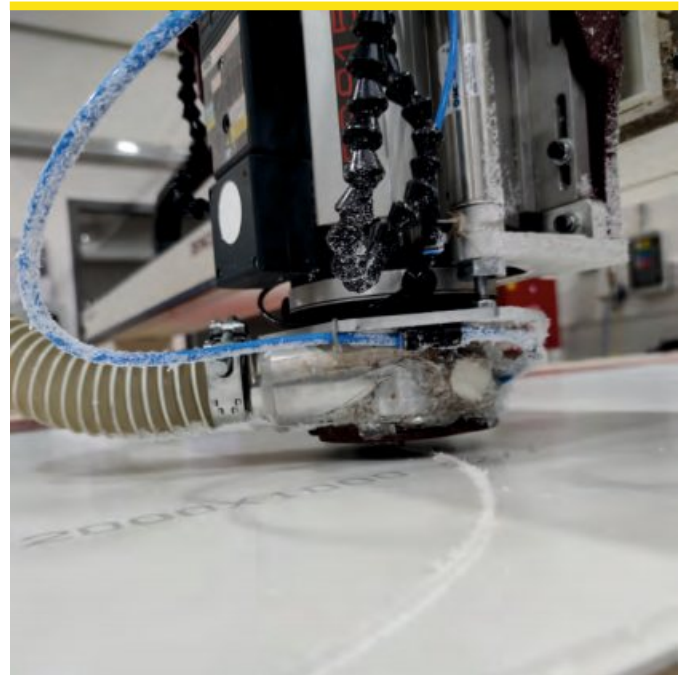


CODE	ANGLE	TOTAL LENGTH	TOOL DIAMETER
PR1147	90°	50 mm	1/2 inches

DIAMOND V CUTTER



CODE	ANGLE	TOTAL LENGTH	TOOL DIAMETER
NF246	90°	60 mm	12 mm





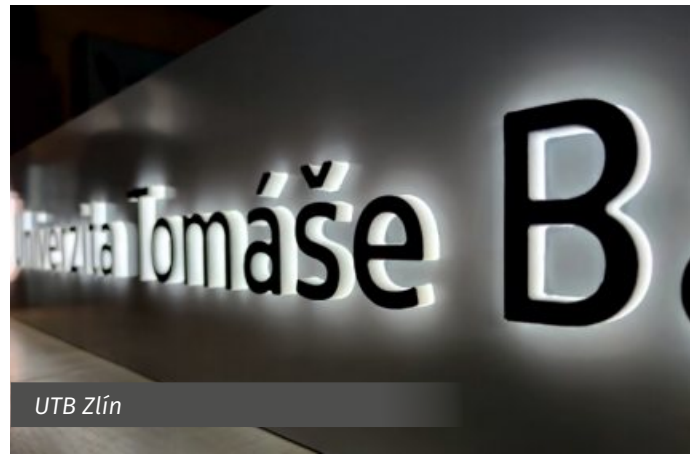
Kolín nad Rýnem



Green Point



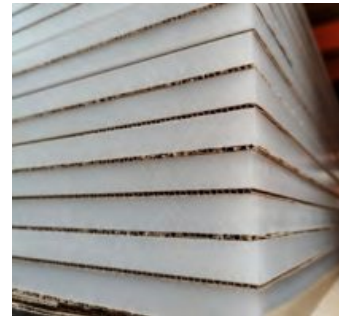
Unitech, Slovensko



UTB Zlín



AMO Invest, Zlín



Golf club, Switzerland



Family house entrance



Golf club, Switzerland

SIGNMAKING



LED TECHNOLOGY



BOARD MATERIALS



CONSTRUCTION & ARCHITECTURE



NEON ADVERTISING



TECHNOLOGIES AND SERVICES



USE OF ACP BOND/ DEBOND

VENTILATED FACADES SYSTEMS

DENCOP is one of the largest importers and suppliers of aluminum composite bonds for modern ventilated facade systems. ACP bonds can be shaped by bending, bending or processed into facade cassettes.

Ventilated facades are used on almost all types of commercial buildings, but they are also used in modern apartment and family houses in the form of cassettes, railings and various types of cladding of building structures.



Kodys company headquarters

INTERIOR TILES, DECORATION, 3D DESIGN

ACP Bond materials look great in the interior. They are therefore often installed especially in common areas of office buildings, institutions or retail parks in places such as entrances, receptions, meeting rooms, canteens, halls, atriums, rest areas and more.

ACP Bonds adapt well to various building details and structural elements and have a minimum longitudinal expansion. They are easy to maintain and clean. They are suitable for flat installations and 3D spatial design solutions.



Green Point

BALCONY AND FENCE INSERTS

We supply decorative balcony and fence panels. Aluminium composite panels guarantee a modern look and a number of practical advantages. It is light, resistant to mechanical damage and weathering, dimensionally and dimensionally stable. Bond fillings are almost maintenance-free. They can be milled/bent very well.



AMO Invest - balconies in Malenovice

CITY MOBILIARIES AND STOPS

ACP bonds look good, work, last a long time when used on urban furniture.

The dimensional and dimensional stability, strength - durability, relatively low weight are essential. They require minimal maintenance. They can be easily adapted for 3D applications.



mmcité - train station in Spain

CLADDING OF PETROL STATIONS

ACP bond materials are ideal for cladding of gas stations, they meet a number of specific requirements, for example in terms of fire resistance, volatile substances, maintenance, etc.

An integral part of each station are advertising totems, light and information panels, where ACP bonds are also used, they are very well shaped.



SHEATHING AND COVERING OF MACHINES

In many cases, it is necessary to separate the handling and work zones with regard to dust, noise, safety, logistics or other requirements. ACP bonds are a practical solution. They are flexible, meet most requirements. They are durable, guarantee long life, favorable price / performance ratio. We also supply them in a self-extinguishing or non-flammable design. Assembly and eventual disassembly is easy and fast.



RESIDENTIAL AND SANITARY CONTAINERS

For container cladding, ACP bond panels are offered thanks to their properties and design. Using a cassette system, we are able to offer a product with diametrically different design features than a classic container.

They can be easily combined with other materials with respect to the required functionality. They are easy to machine with common tools for wood and metal, they are easy to install. The durability and the associated long service life of the cladding are significant.



SIKA, INVISIBLE ANCHORAGE

DENCOP supplies a comprehensive professional system for the installation of facade panels by gluing. The basis is the permanently flexible adhesive SikaTack® - Panel, double-sided adhesive mounting tape, cleaners and other materials for surface preparation before gluing and installation. The Sika system replaces common constructions with the acknowledged anchoring of thin-walled boards or decorative elements.



SIGNMAKING



LED TECHNOLOGY



BOARD MATERIALS



CONSTRUCTION & ARCHITECTURE



NEON ADVERTISING



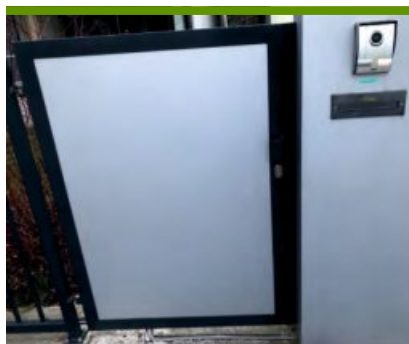
TECHNOLOGIES AND SERVICES



BOND PROCESSING

We offer the following processing options of bond plates:

- CUTTING-TO-SIZE ON SAW CUTTER**
- CNC MILLING MILLING**
- EDGE BENDING**
- SLOTTING**
- LOCKING - BOND CONNECTION SYSTEM**
- PAINTING**





Ploty Zlín project



Ploty Zlín project



Entrance of company KODYS



VD Integra project - Hotel Davídek



Montáže 24 project - Hyundai Zlín



ADTV project



Montáže 24 project - Hyundai Zlín

SIGNMAKING



LED TECHNOLOGY



BOARD MATERIALS



CONSTRUCTION & ARCHITECTURE



NEON ADVERTISING

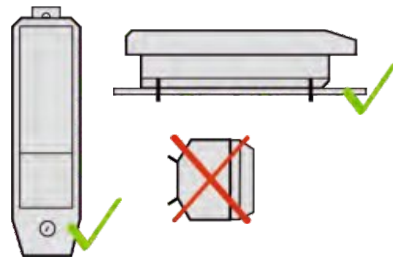
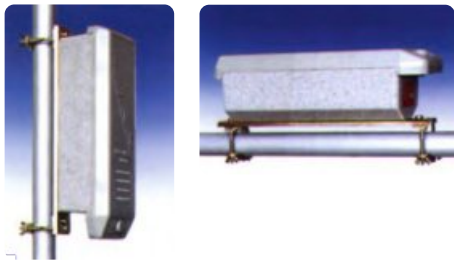


TECHNOLOGIES AND SERVICES



TRANSFORMER INSTALLATION

CORRECT MOUNTING OF TRANSFORMERS



CORRECT MOUNTING MORE TRANSFORMERS



When mounting multiple transformers on a wall, make sure that the transformers are not stacked on top of each other to prevent them from heating up.

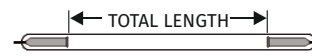
CALCULATION OF TRANSFORMER IGNITION VOLTAGE

$$\text{IGNITION VOLTAGE} = (\text{VOLT/METR} \times \text{TUBE LENGTH}) + (\text{ELECTRODE VOLTAGE} \times \text{NUMBER OF SYSTEMS})$$

Required ignition voltage in Volts per meter of neon tube

	Diameter of glass mm (outer diameter)						
	7	10	12	15	18	20	22
Blue gas (interior)	925	620	500	410	350	325	300
Blue gas (exterior)	1100	730	590	480	410	380	350
Neon (interior/ exterior)	1600	1140	930	750	625	580	550

The total length of all neon systems (in meters)
Electric shock only
(measured between electrode outputs)



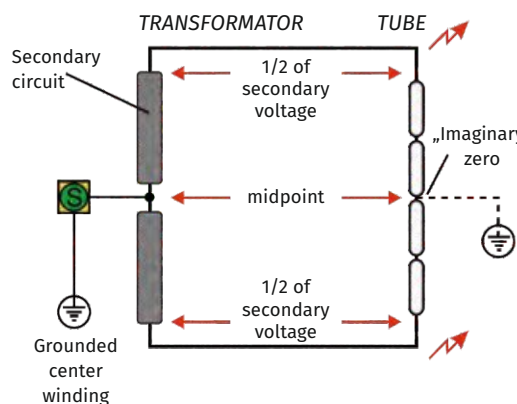
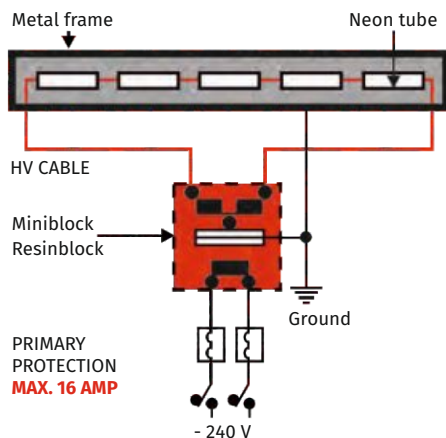
Ignition voltage for a pair of electrodes

Blue gas (interior)	250 V
Blue gas (exterior)	300 V
Neon (interior/ exterior)	300 V

Example: The neon font consists of 5 tube systems with a light length of 4.2 m and a tube diameter of 15 mm. The device is to be installed indoors, the current in the tube should be 37mA.

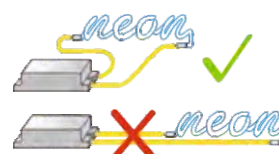
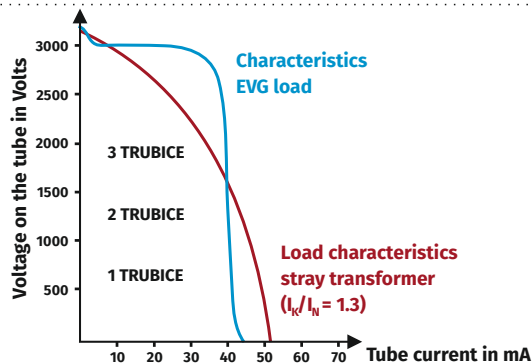
Calculation: $410 \text{ V/m} \times 4,2 \text{ m} = 1722 \text{ V}$
 $250 \text{ V/system} \times 5 \text{ systems} = 1250 \text{ V}$
2972 V

Result: You will need a transformer with **3000 V** and 37 mA rated current.



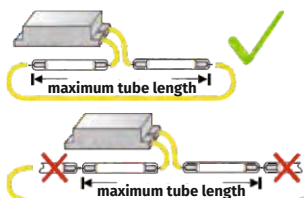
ELECTRODE TYPE	GLASS DIAMETER	RECOMMENDED TRANSFORMATOR CURRENT
	10	max. 20 mA
	12	20-30 mA
	14-15	20-40 mA
	15-20	40-50 mA
	18-22	50-80 mA

ELECTRONIC TRANSFORMERS



WARNING

Cables should not be unnecessarily long. Do not lay cables next to each other, due to induction between them occurs current peaks that significantly reduce service life of electrodes and thus the whole system!



WARNING

For electronic transformers do not exceed the maximum length of the tubes. The transformer may be overloaded and lead to consequent damage!



Use a separate EVG for each letter.

Do not connect/ chain more letters!



WARNING

Ensure sufficient ventilation when mounting in a panel to prevent overheating. **Maximum temperature inside the box 65°C.**

OVERVIEW OF MAXIMUM TUBE LENGTH FOR A GIVEN VOLTAGE

FOR ELECTRONIC TRANSFORMERS



The length of the tube is defined by electrode spacing.

Values in tables define the maximum length of the tube connected to EVG.

Tube \emptyset values are given in millimeters and length tubes in meters.

990 V TRANSFORMER						
Blue discharge (exterior)						
\emptyset TUBE	10	12	15	18	20	22
1 Tube	0,9	1,1	1,4	1,7	1,8	2,0
2 Tubes	0,5	0,6	0,8	0,9	1,0	1,1

Blue discharge (exterior)						
\emptyset TUBE	10	12	15	18	20	22
1 Tube	1,2	1,5	1,8	2,1	2,3	2,5
2 Tubes	0,8	1,0	1,2	1,4	1,5	1,6

Red discharge						
\emptyset TUBE	10	12	15	18	20	22
1 Tube	0,6	0,7	0,9	1,1	1,2	1,2
2 Tubes	0,3	0,4	0,5	0,6	0,6	0,7

1 500 V TRANSFORMER						
Blue discharge (exterior)						
\emptyset TUBE	10	12	15	18	20	22
1 Tube	1,6	2,0	2,5	2,9	3,1	3,4
2 Tubes	1,2	1,5	1,8	2,1	2,3	2,5
3 Tubes	0,8	1,0	1,2	1,4	1,5	1,7

Blue discharge (exterior)						
\emptyset TUBE	10	12	15	18	20	22
1 Tube	2,0	2,5	3,0	3,5	3,8	4,1
2 Tubes	1,6	2,0	2,4	2,8	3,0	3,3
3 Tubes	1,2	1,5	1,8	2,1	2,3	2,5

Red discharge						
\emptyset TUBE	10	12	15	18	20	22
1 Tube	1,0	1,2	1,6	1,9	2,0	2,1
2 Tubes	0,7	0,9	1,2	1,4	1,5	1,6
3 Tubes	0,5	0,6	0,8	0,9	1,0	1,0

2 000 V TRANSFORMER						
Blue discharge (exterior)						
\emptyset TUBE	10	12	15	18	20	22
1 Tube	2,3	2,8	3,5	4,1	4,4	4,8
2 Tubes	1,9	2,3	2,9	3,4	3,6	4,0
3 Tubes	1,5	1,8	2,2	2,6	2,8	3,1
4 Tubes	1,0	1,3	1,6	1,9	2,1	2,2
5 Tubes	0,6	0,8	1,0	1,2	1,3	1,4

Blue discharge (exterior)						
\emptyset TUBE	10	12	15	18	20	22
1 Tube	2,8	3,5	4,2	5,0	5,3	5,8
2 Tubes	2,4	3,0	3,6	4,3	4,6	5,0
3 Tubes	2,0	2,5	3,0	3,5	3,8	4,1
4 Tubes	1,6	2,0	2,4	2,8	3,0	3,3
5 Tubes	1,2	1,5	1,8	2,1	2,3	2,5

Red discharge						
\emptyset TUBE	10	12	15	18	20	22
1 Tube	1,5	1,8	2,2	2,7	2,9	3,0
2 Tubes	1,2	1,5	1,8	2,2	2,4	2,5
3 Tubes	0,9	1,1	1,4	1,7	1,8	2,0
4 Tubes	0,7	0,8	1,0	1,2	1,3	1,4
5 Tubes	0,4	0,5	0,6	0,8	0,8	0,9

2 500 V TRANSFORMER						
Blue discharge (exterior)						
\emptyset TUBE	10	12	15	18	20	22
1 Tube	3,0	3,7	4,5	5,3	5,7	6,2
2 Tubes	2,6	3,2	3,9	4,6	5,0	5,4
3 Tubes	2,1	2,7	3,3	3,9	4,2	4,5
4 Tubes	1,7	2,2	2,7	3,1	3,4	3,7
5 Tubes	1,3	1,6	2,2	2,4	2,6	2,8

Blue discharge (exterior)						
\emptyset TUBE	10	12	15	18	20	22
1 Tube	3,6	4,5	5,4	6,4	6,9	7,5
2 Tubes	3,2	4,0	4,8	5,7	6,1	6,6
3 Tubes	2,8	3,5	4,2	5,0	5,3	5,8
4 Tubes	2,4	3,0	3,6	4,2	4,6	5,0
5 Tubes	2,0	2,5	3,0	3,7	3,8	4,1

Red discharge						
\emptyset TUBE	10	12	15	18	20	22
1 Tube	1,9	2,3	2,9	3,5	3,7	4,0
2 Tubes	1,6	2,0	2,5	3,0	3,2	3,4
3 Tubes	1,4	1,7	2,1	2,5	2,7	2,9
4 Tubes	1,1	1,3	1,7	2,0	2,2	2,3
5 Tubes	0,8	1,0	1,3	1,6	1,7	1,8

3 000 V TRANSFORMER						
Blue discharge (exterior)						
\emptyset TUBE	8	10	12	15	18	20
2 Tubes	3,2	4,0	5,0	5,8	6,3	6,8
3 Tubes	2,8	3,5	4,3	5,1	5,5	6,0
4 Tubes	2,4	3,0	3,7	4,3	4,7	5,1
5 Tubes	2,0	2,5	3,1	3,6	3,9	4,2
6 Tubes	1,6	2,0	2,5	2,9	3,1	3,4

Blue discharge (exterior)						
\emptyset TUBE	8	10	12	15	18	20
2 Tubes	4,0	5,0	6,0	7,1	7,6	8,3
3 Tubes	3,6	4,5	5,4	6,4	6,9	7,5
4 Tubes	3,2	4,0	4,8	5,7	6,1	6,6
5 Tubes	2,8	3,5	4,2	5,0	5,3	5,8
6 Tubes	2,4	3,0	3,6	4,2	4,6	5,0

Red discharge						
\emptyset TUBE	8	10	12	15	18	20
2 Tubes	2,1	2,5	3,2	3,8	4,1	4,3
3 Tubes	1,8	2,2	2,8	3,3	3,6	3,8
4 Tubes	1,5	1,9	2,4	2,8	3,1	3,2
5 Tubes	1,3	1,6	2,0	2,4	2,5	2,7
6 Tubes	1,0	1,2	1,6	1,9	2,0	2,1

4 000 V TRANSFORMER						
Blue discharge (exterior)						
\emptyset TUBE	8	10	12	15	18	20
2 Tubes	3,1	4,6	5,7	7,0	8,2	8,9
3 Tubes	2,8	4,2	5,2	6,4	7,5	8,1
4 Tubes	2,5	3,8	4,7	5,8	6,8	7,3
5 Tubes	2,2	3,4	4,2	5,2	6,0	6,5
6 Tubes	1,9	2,8	3,5	4,3	5,1	5,5

Blue discharge (exterior)						
\emptyset TUBE	8	10	12	15	18	20
2 Tubes	4,3	5,6	7,0	8,5	10,0	10,7
3 Tubes	4,0	5,2	6,5	7,9	9,2	10,0
4 Tubes	3,7	4,8	6,0	7,3	8,5	9,2
5 Tubes	3,4	4,4	5,5	6,7	7,8	8,4
6 Tubes	3,1	4,0	5,0	6,0	7,1	7,6

Red discharge						
\emptyset TUBE	8	10	12	15	18	20
2 Tubes	2,4	2,9	3,6	4,5	5,4	5,8
3 Tubes	2,2	2,7	3,3	4,1	4,9	5,3
4 Tubes	2,0	2,4	3,0	3,7	4,4	4,8
5 Tubes	1,7	2,1	2,6	3,3	4,0	4,3
6 Tubes	1,5	1,9	2,3	2,9	3,5	3,7

5 000 V TRANSFORMER						
Blue discharge (exterior)						
\emptyset TUBE	8	10	12	15	18	20
2 Tubes	5,6	7,2	9,0	10,9	12,8	13,8
3 Tubes	5,3	6,8	8,5	10,3	12,1	13,0
4 Tubes	5,0	6,4	8,0	9,7	11,4	12,3
5 Tubes	4,6	6,0	7,5	9,1	10,7	11,5
6 Tubes	4,3	5,6	7,0	8,5	10,0	10,8
7 Tubes	4,0	5,2	6,5	7,9	9,2	10,0
8 Tubes	3,7	4,8	6,0	7,3	8,5	9,2
9 Tubes	3,4	4,4	5,5	6,7	7,8	8,4

Red discharge						
\emptyset TUBE	8	10	12	15	18	20
2 Tubes	3,1	3,8	4,7	5,8	7,0	7,5
3 Tubes	2,9	3,5	4,4	5,4	6,5	7,0
4 Tubes	2,7	3,3	4,0	5,0	6,0	6,5
5 Tubes	2,5	3,0	3,7	4,6	5,6	6,0
6 Tubes	2,2	2,8	3,4	4,2	5,1	5,5
7 Tubes	2,0	2,5	3,1	3,8	4,6	5,0
8 Tubes	1,8	2,2	2,7	3,4	4,1	4,4
9 Tubes	1,6	2,0	2,4	3,0	3,6	3,9

8 000 V TRANSFORMER						
Blue discharge (exterior)						
\emptyset TUBE	8	10	12	15	18	20
2 Tubes	9,3	12,0	15,0	18,2	21,4	23,0
3 Tubes	9,0	11,6	14,5	17,6	20,7	22,3
4 Tubes	8,7	11,2	14,0	17,0	20,0	21,5
5 Tubes	8,4	10,8	13,5	16,4	19,2	20,7
6 Tubes	8,1	10,4	13,0	15,8	18,5	20,0
7 Tubes	7,8	10,0	12,5	15,2	17,8	19,2
8 Tubes	7,5	9,6	12,0	14,6	17,1	18,4
9 Tubes	7,1	9,2	11,5	14,0	16,4	17,6

Red discharge						
\emptyset TUBE	8	10	12	15	18	20
2 Tubes	5,2	6,4	7,9	9,8	11,8	12,7
3 Tubes	5,0	6,2	7,6	9,4	11,3	12,2
4 Tubes	4,8	5,9	7,3	9,0	10,8	11,7
5 Tubes	4,6	5,7	6,9	8,6	10,4	11,2
6 Tubes	4,4	5,4	6,6	8,2	9,9	10,6
7 Tubes	4,2	5,1	6,3	7,8	9,4	10,1
8 Tubes	4,0	4,9	6,0	7,4	8,9	9,5
9 Tubes	3,7	4,6	5,6	7,0	8,4	9,1

MARKING OF EVGs

EVG 20/5 KV D R

secondary current in mA secondary voltage in v KV D - regulation of secondary current
R - for neon

F/ART TRANSFORMERS

F/ART RESINBLOCK 2000 / RESINBLOCK 2000 COMPACT transformers are designed and manufactured in accordance with the European standards IEC61050 and EN61050 and meet the standards for CE certification. All transformers also comply with electromagnetic compatibility (EMC) regulations.

Some models have received ENEC or ENV certification.

Transformers with voltages above 10 000V are not permitted by European standards. 12-15 kV transformers are on request.



F/ART
FEED FOR ART / LIGHT / POWER /



More information
about transformers
F/ART - www.dencop.cz



F/ART - RESIN BLOCK ARGON/NEON - Icc 1.3

Transformers designed for ARGON / NEON are housed in a vacuum polymerized epoxy resin. They are suitable for indoor and outdoor use, even in the harshest climatic conditions and without the use of additional weather protection when installed in accordance with the installation instructions meets the requirements of IP44.

- 18 mA** → SHORT CIRCUIT CURRENT 23 mA (Icc = 1.3 x I OPERATING CURRENT)
- 25 mA** → SHORT CIRCUIT CURRENT 32,5 mA (Icc = 1.3 x I OPERATING CURRENT)
- 37 mA** → SHORT CIRCUIT CURRENT 48 mA (Icc = 1.3 x I OPERATING CURRENT)
- 50 mA** → SHORT CIRCUIT CURRENT 65 mA (Icc = 1.3 x I OPERATING CURRENT)
- 75 mA** → SHORT CIRCUIT CURRENT 97,5 mA (Icc = 1.3 x I OPERATING CURRENT)
- 100 mA** → SHORT CIRCUIT CURRENT 130 mA (Icc = 1.3 x I OPERATING CURRENT)
- 170 mA** → SHORT CIRCUIT CURRENT 200 mA (Icc = 1.3 x I OPERATING CURRENT)

100% ARGON (or ARGON/ NEON mixture) - blue light

TYPE (V/mA)	OPERATING CURRENT 18 mA	OPERATING CURRENT 25 mA	OPERATING CURRENT 37 mA	OPERATING CURRENT 50 mA	OPERATING CURRENT 75 mA	OPERATING CURRENT 100 mA
	ORANGE LABEL	RED LABEL	GREEN LABEL	BLUE LABEL	YELLOW LABEL	BLACK LABEL
1 000 V	CODE: 820118 0,12A/ 14W 66×76×247mm/ 2,40kg	CODE: 822125 0,18A/ 21W 66×76×247mm/ 2,40kg	CODE: 822137 0,24A/ 31W 66×76×247mm/ 2,50kg	CODE: 820150 0,33A/ 37W 66×76×247mm/ 2,40kg	CODE: 822175 0,41A/ 47W 77×92×270mm/ 3,50kg	CODE: 830110 0,54A/ 61,5W 77×92×270mm/ 3,52kg
1 500 V	CODE: 825118 0,18A/ 20W 66×76×247mm/ 2,40kg	CODE: 825125 0,24A/ 27W 66×76×247mm/ 2,40kg	CODE: 825137 0,35A/ 40W 66×76×247mm/ 2,50kg	CODE: 825150 0,40A/ 47,5W 77×92×270mm/ 3,50kg	X	CODE: 831510 0,81A/ 90W 81×92×270mm/ 4,06kg
2 000 V	CODE: 820218 0,24A/ 27W 66×76×247mm/ 2,40kg	CODE: 822225 0,33A/ 38W 66×76×247mm/ 2,40kg	CODE: 822237 0,40A/ 48W 77×92×270mm/ 3,48kg	CODE: 820250 0,54A/ 64W 77×92×270mm/ 3,52kg	CODE: 822275 0,80A/ 88W 81×92×270mm/ 4,06kg	CODE: 830210 1,04A/ 113W 87×92×270mm/ 4,67kg
2 500 V	CODE: 825218 0,30A/ 34W 66×76×247mm/ 2,40kg	CODE: 825225 0,37A/ 43W 66×76×247mm/ 2,40kg	CODE: 825237 0,48A/ 58W 77×92×270mm/ 3,50kg	CODE: 825250 0,67A/ 75W 81×92×270mm/ 4,02kg	X	CODE: 832510 1,27A/ 142W 99×92×270mm/ 5,85kg
3 000 V	CODE: 822318 0,35A/ 39W 66×76×247mm/ 2,40kg	CODE: 822325 0,40A/ 50W 77×92×270mm/ 3,48kg	CODE: 822337 0,59A/ 69W 81×92×270mm/ 3,95kg	CODE: 820350 0,78A/ 90W 81×92×270mm/ 4,06kg	CODE: 822375 1,14A/ 122W 92×92×270mm/ 5,25kg	CODE: 830310 1,51A/ 162W 99×92×270mm/ 6,18kg
4 000 V	CODE: 820418 0,40A/ 50W 77×92×270mm/ 3,48kg	CODE: 822425 0,53A/ 66W 77×92×270mm/ 3,51kg	CODE: 822437 0,78A/ 93W 81×92×270mm/ 4,04kg	CODE: 822450 1,01A/ 115W 87×92×270mm/ 4,67kg	CODE: 822475 1,51A/ 162W 99×92×270mm/ 6,18kg	CODE: 830410 1,98A/ 217W 112×92×270mm/ 7,76kg
5 000 V	CODE: 820518 0,49A/ 61W 77×92×270mm/ 3,50kg	CODE: 822525 0,65A/ 80W 81×92×270mm/ 3,98kg	CODE: 822535 0,96A/ 113W 87×92×270mm/ 4,63kg	CODE: 822550 1,26A/ 147W 99×92×270mm/ 5,85kg	CODE: 822575 1,87A/ 204W 112×92×270mm/ 7,77kg	CODE: 830510 2,42A/ 263W 116×107×310mm/ 9,65kg
6 000 V	CODE: 820618 0,57A/ 71W 81×92×270mm/ 3,95kg	CODE: 822625 0,78A/ 96W 81×92×270mm/ 4,02kg	CODE: 822635 1,13A/ 127W 92×92×270mm/ 5,20kg	CODE: 820650 1,50A/ 169W 99×92×270mm/ 6,16kg	CODE: 822675 2,17A/ 248W 116×107×310mm/ 9,53kg	CODE: 830610 2,90A/ 315W 127×107×310mm/ 11,25kg
7 000 V	CODE: 820718 0,66A/ 83W 81×92×270mm/ 4,00kg	CODE: 822725 0,88A/ 109W 87×92×270mm/ 4,61kg	CODE: 822735 1,26A/ 147W 99×92×270mm/ 5,82kg	CODE: 820750 1,75A/ 197W 104×92×270mm/ 6,78kg	CODE: 822775 2,54A/ 281W 116×107×310mm/ 9,80kg	CODE: 830710 3,30A/ 359W 138×107×310mm/ 12,81kg
8 000 V	CODE: 820818 0,75A/ 89W 81×92×270mm/ 4,05kg	CODE: 822825 0,98A/ 119W 92×92×270mm/ 5,17kg	CODE: 822835 1,50A/ 175W 99×92×270mm/ 6,11kg	CODE: 822850 1,96A/ 222W 112×92×270mm/ 7,75kg	CODE: 822875 2,89A/ 322W 127×107×310mm/ 11,27kg	CODE: 830810 3,79A/ 409W 138×107×310mm/ 13,20kg
9 000 V	CODE: 820918 0,83A/ 98W 87×92×270mm/ 4,63kg	CODE: 822925 1,12A/ 136W 92×92×270mm/ 5,20kg	CODE: 822935 1,68A/ 193W 104×92×270mm/ 6,74kg	CODE: 822950 2,16A/ 260W 116×107×310mm/ 9,54kg	CODE: 822975 3,19A/ 353W 138×107×310mm/ 12,89kg	CODE: 830910 4,29A/ 443W 132×140×362mm/ 17,20kg
10 000 V	CODE: 831018 0,91A/ 115W 87×92×270mm/ 4,63kg	CODE: 831025 1,24A/ 156W 99×92×270mm/ 5,84kg	CODE: 831035 1,80A/ 217W 105×107×310mm/ 7,79kg	CODE: 821050 2,40A/ 282W 116×107×310mm/ 9,60kg	CODE: 831075 3,55A/ 381W 138×107×310mm/ 13,12kg	CODE: 831010 4,78A/ 489W 132×140×362mm/ 17,40kg

SLIMLINE TUBES SERIES

TYP (mA/V)	1 400 V	2 100 V	2 800 V	3 500 V	4 200 V
SHORT CURRENT 200 mA	CODE: 831420 1,14A/ 119W	CODE: 832120 1,72A/ 173W	CODE: 832820 2,29A/ 220W	CODE: 833520 2,85A/ 274W	CODE: 834220 3,43A/ 320W
GRAY LABEL	92×92×270mm/ 5,60kg	104×92×270mm/ 6,85kg	116×107×310mm/ 9,61kg	127×107×310mm/ 11,52kg	138×107×310mm/ 12,98kg

F/ART - RESIN BLOCK NEON - Icc 1.2

Transformers designed **for NEON** only are housed in a vacuum polymerized epoxy resin housing. They are suitable for indoor and outdoor use, even in the harshest climatic conditions and without the use of additional weather protection when installed in accordance with the installation instructions.

100% NEON - red light - with reduced short-circuit current

18 mA	→ SHORT CIRCUIT CURRENT 20 mA (Icc = 1.2 x I OPERATING CURRENT)
25 mA	→ SHORT CIRCUIT CURRENT 30 mA (Icc = 1.2 x I OPERATING CURRENT)
37 mA	→ SHORT CIRCUIT CURRENT 45 mA (Icc = 1.2 x I OPERATING CURRENT)
50 mA	→ SHORT CIRCUIT CURRENT 60 mA (Icc = 1.2 x I OPERATING CURRENT)
75 mA	→ SHORT CIRCUIT CURRENT 90 mA (Icc = 1.2 x I OPERATING CURRENT)
100 mA	→ SHORT CIRCUIT CURRENT 120 mA (Icc = 1.2 x I OPERATING CURRENT)

TYP (V/mA)	SHORT CURRENT 20 mA	SHORT CURRENT 30 mA	SHORT CURRENT 45 mA	SHORT CURRENT 60 mA	SHORT CURRENT 90 mA	SHORT CURRENT 120 mA
	ORANGE LABEL	RED LABEL	GREEN LABEL	BLUE LABEL	YELLOW LABEL	BLACK LABEL
1 000 V	ON REQUEST 0,12A / 12W 66×76×247mm / 2,40kg	CODE: 820130 0,18A / 17W 66×76×247mm / 2,40kg	CODE: 822145 0,24A / 27W 66×76×247mm / 2,40kg	ON REQUEST 0,33A / 34W 66×76×247mm / 2,40kg	ON REQUEST 0,41A / 40W 77×92×270mm / 3,50kg	ON REQUEST 0,54A / 55W 77×92×270mm / 3,52kg
2 000 V	ON REQUEST 0,24A / 21W 66×76×247mm / 2,40kg	CODE: 820230 0,33A / 34W 66×76×247mm / 2,40kg	CODE: 822245 0,40A / 43,5W 77×92×270mm / 3,48kg	ON REQUEST 0,54A / 56W 77×92×270mm / 3,52kg	ON REQUEST 0,79A / 76W 81×92×270mm / 4,06kg	ON REQUEST 1,03A / 94W 87×92×270mm / 4,67kg
3 000 V	ON REQUEST 0,35A / 36W 66×76×247mm / 2,40kg	CODE: 820330 0,40A / 44W 77×92×270mm / 3,48kg	CODE: 822345 0,59A / 61W 81×92×270mm / 3,95kg	ON REQUEST 0,78A / 74W 81×92×270mm / 4,06kg	ON REQUEST 1,14A / 110W 92×92×270mm / 5,25kg	ON REQUEST 1,51A / 130W 99×92×270mm / 6,18kg
4 000 V	ON REQUEST 0,40A / 50W 77×92×270mm / 3,48kg	CODE: 822430 0,53A / 57W 77×92×270mm / 3,51kg	CODE: 822445 0,78A / 80W 81×92×270mm / 4,04kg	ON REQUEST 1,01A / 102W 87×92×270mm / 4,67kg	ON REQUEST 1,51A / 140W 99×92×270mm / 6,18kg	ON REQUEST 1,97A / 167W 112×92×270mm / 7,76kg
5 000 V	ON REQUEST 0,49A / 54W 77×92×270mm / 3,50kg	CODE: 820530 0,65A / 67W 81×92×270mm / 3,98kg	CODE: 822545 0,95A / 99W 87×92×270mm / 4,63kg	ON REQUEST 1,25A / 125W 99×92×270mm / 5,85kg	ON REQUEST 1,87A / 165W 112×92×270mm / 7,77kg	ON REQUEST 2,42A / 219W 116×107×310mm / 9,65kg
6 000 V	ON REQUEST 0,56A / 60W 81×92×270mm / 3,95kg	CODE: 820630 0,77A / 82W 81×92×270mm / 4,02kg	CODE: 822645 1,12A / 113W 92×92×270mm / 5,20kg	ON REQUEST 1,49A / 143W 99×92×270mm / 6,16kg	ON REQUEST 2,16A / 202W 116×107×310mm / 9,53kg	ON REQUEST 2,88A / 266W 127×107×310mm / 11,25kg
7 000 V	ON REQUEST 0,66A / 68W 81×92×270mm / 4,00kg	CODE: 820730 0,88A / 93W 87×92×270mm / 4,61kg	CODE: 822745 1,25A / 125W 99×92×270mm / 5,82kg	ON REQUEST 1,75A / 167W 104×92×270mm / 6,78kg	ON REQUEST 2,53A / 245W 116×107×310mm / 9,80kg	ON REQUEST 3,30A / 293W 138×107×310mm / 12,81kg
8 000 V	ON REQUEST 0,74A / 75W 81×92×270mm / 4,05kg	CODE: 820830 1,00A / 108W 92×92×270mm / 5,17kg	CODE: 822845 1,50A / 151W 99×92×270mm / 6,11kg	ON REQUEST 1,95A / 191W 112×92×270mm / 7,75kg	ON REQUEST 2,87A / 276W 127×107×310mm / 11,27kg	ON REQUEST 3,78A / 332W 138×107×310mm / 13,20kg
9 000 V	ON REQUEST 0,82A / 76W 87×92×270mm / 4,63kg	CODE: 820930 1,12A / 118W 92×92×270mm / 5,20kg	CODE: 822945 1,68A / 166W 104×92×270mm / 6,74kg	ON REQUEST 2,13A / 215W 116×107×310mm / 9,54kg	ON REQUEST 3,19A / 289W 138×107×310mm / 12,89kg	ON REQUEST 4,35A / 365W 132×140×362mm / 17,30kg
10 000 V	ON REQUEST 0,91A / 89W 87×92×270mm / 4,63kg	CODE: 821030 1,24A / 135W 99×92×270mm / 5,81kg	CODE: 831045 1,80A / 192W 105×107×310mm / 7,79kg	ON REQUEST 2,39A / 245W 116×107×310mm / 9,60kg	ON REQUEST 3,54A / 315W 138×107×310mm / 13,12kg	ON REQUEST 4,80A / 393W 132×140×362mm / 17,50kg
12 000 V	×	ON REQUEST 1,46A / 150W 104×92×270mm / 6,77kg	ON REQUEST 2,13A / 240W 116×107×310mm / 9,46kg	ON REQUEST 2,80A / 300W 127×107×310mm / 11,33kg	×	×
15 000 V	×	ON REQUEST 1,82A / 184W 105×107×310mm / 7,87kg	ON REQUEST 2,70A / 304W 127×107×310mm / 11,07kg	ON REQUEST 3,52A / 347W 138×107×310mm / 13,10kg	×	×

ATTENTION: FOR NEON TRANSFORMERS a short-circuit current is indicated on the label!

When circuiting the transformer, use the operating current values: **18 mA** **25 mA** **37 mA** **50 mA** **75 mA** **100 mA** **170 mA**

F/ART - MINIBLOCK



- available on request

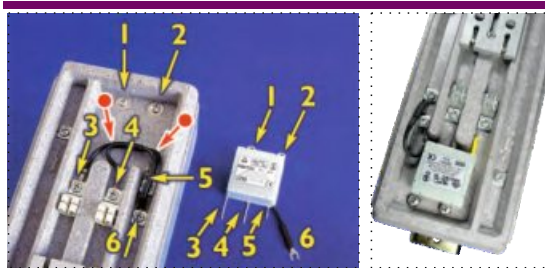
- the same types of some transformers as in the RESIN BLOCK series, **for indoor use only (IP20)**

F/ART - MILLENNIUM



- available on request

- the same types of some transformers as in the RESIN BLOCK series, but **with the appropriate Protec or Totalpro**. The result is an extremely compact transformer with a sophisticated design, easy to install and connect



CONNECTING PROTECTION SWITCH TO THE TRANSFORMER

- Loosen screws 1-6 of the transformer
- Remove the cable connecting the safety blade contacts to the primary winding contact
- Fit the disconnecter and fasten it with 2 screws (1,2)
- Screw the protection switch terminals to the terminal board according to the diagram
- Fasten screws 3,4,5 and fasten the cable disconnectors (6) to terminal (6)
- • • **Before tightening the screws, make sure that the distance between them is no more than 1 mm by pressing the disconnecter lightly against the transformer.**



F/ART PROTECTIONS

Protection switches are used to **safely disconnect the power supply** (interruption of the primary voltage) from the circuit in the event of a short circuit or a broken tube according to the type of protection. Multiple transformers can be connected to a group of protections. If you have a transformer without a protection, a clamp is connected inside the transformer under the cover, which connects the contacts of the transformer (4 terminals). We recommend installing a protection for each transformer, as this is prescribed by the EN50107 standard.

F/ART - PROTEC PROTECTIONS



* installation inside the transformer

CODE	TYPE	NAME	
810107	PI 07	Meets the European standard EN50107-2 Protection / shutdown at earth protection	pcs
810108	PI 08		pcs
810110	PI 10		pcs
810140	PI 40		pcs

F/ART - TOTALPRO PROTECTIONS



* installation inside the transformer

CODE	TYPE	NAME	
811108	TP 08	Meets the European standard EN50107-2 Earth protection / shutdown connection, idling. Thermal protection.	pcs
811110	TP 10		pcs
811140	TP 40		pcs

COMPATIBILITY TABLE OF PROTEC AND TOTALPRO PROTECTION SWITCHES WITH F/ART TRANSFORMERS

icc = 1.3	18 mA	25 mA	37 mA	50 mA	75 mA	100 mA			
icc = 1.2	20 mA	30 mA	45 mA	60 mA	90 mA	120 mA	150 mA	200 mA	
1 000 V	07	07	07	07	08	08			
1 250 V						08			
1 400 V									08
1 500 V	07	07	07	08		08			
1 750 V							08		
2 000 V	07	07	08	08	08	08			
2 100 V									08
2 500 V	07	07	08	08		08			
2 800 V									10
3 000 V	07	08	08	08	08	08			
3 500 V						08	10	10	
4 000 V	08	08	08	08	08	08			
4 200 V									10
5 000 V	08	08	08	08	08	10	10		
6 000 V	08	08	08	08	10	10			
7 000 V	08	08	08	08	10	10			
8 000 V	08	08	08	08	10	10			
9 000 V	08	08	08	10	10	40			
10 000 V	08	08	10	10	10	40			
12 000 V		08	10	10					
15 000 V		10	10	10					

F/ART - GROUP PROTECTION PROTEC PPE



CODE: 810106

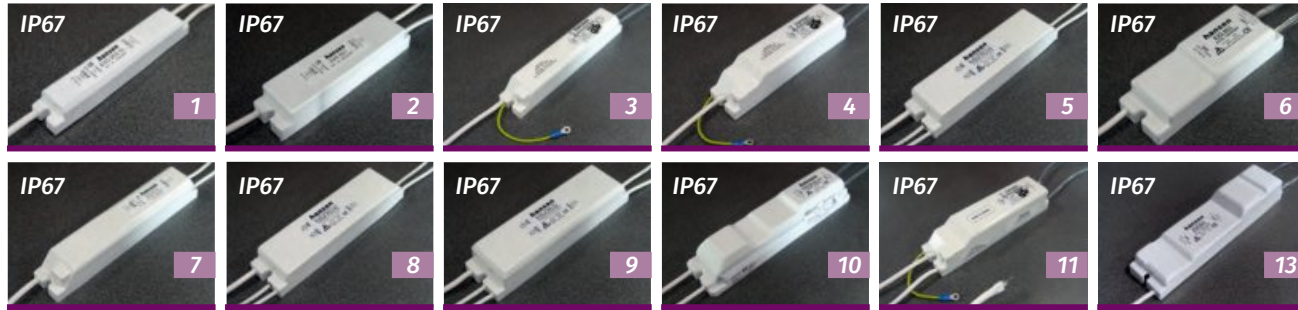
- Group protection switch
- Complies with standard EN50107-2
- Earth protection / shutdown
- Possible to connect more transformers (up to 5A)
- **Compatible with all PE F/ART transformers**
- Also suitable for MINIBLOCK
- Installed outside the transformer



F/ART
FEED FOR ART /
LIGHT / POWER /

HANSEN EVG CONVERTERS

HANSEN electronic converters are suitable for indoor use, where the temperature and humidity are constant. They are not recommended for outdoor environments, only in the case of placement inside the channel letter. Electronic converters can be with dimmer and electronic power control. They can also be connected to electronic signals, switching elements (there must be a special signal in accordance with EN). The main advantages are their light weight, efficiency and small size. Also available in black.



CODE	TYPE	SECONDARY CURRENT	PRIMARY CURRENT	SECONDARY VOLTAGE	SIZE mm	CASING TYPE	ACCESSORIES	ARGON / NEON
1820120	EVG 20/1SL	20 mA	0,20 A	990 V	160 x 29 x 25	1		
1820220	EVG 20/2SL	20 mA	0,25 A	2 000 V	160 x 29 x 25	1		
1820221	EVG 20/2SLR	20 mA		2 000 V	160 x 29 x 25	1		
1820320	EVG 20/3	20 mA	0,35 A	3 000 V	160 x 40 x 35	2		
1830420	EVG 20/4	20 mA	0,50 A	4 000 V	170 x 53 x 44	6		
1830521	EVG 20/5D	20 mA	0,55 A	5 000 V	205 x 39 x 37	3		
1830820	EVG 20/8D	20 mA	0,95 A	8 000 V	207 x 52 x 46	4		
1830230	EVG 30/2	30 mA	0,40 A	2 000 V	160 x 40 x 35	2		
1830430	EVG 30/4	30 mA	0,60 A	4 000 V	170 x 53 x 44	6		
1820140	EVG 40/1SL	40 mA	0,25 A	990 V	160 x 29 x 25	1		
1834210	EVG 40/1Duo	40 mA	0,45 A	2x990 V	185 x 47 x 26	5		
1820145	EVG 40/1,5	40 mA	0,35 A	1 500 V	160 x 40 x 35	2		
1830340	EVG 40/3	40 mA	0,60 A	3 000 V	170 x 53 x 44	6		
1830150	EVG 50/1	50 mA	0,35 A	990 V	160 x 40 x 35	2		
1832550	EVG 50/2,5	50 mA	0,60 A	2 500 V	170 x 53 x 44	6		
1830450	EVG 50/4	50 mA	0,80 A	4 000 V	255 x 57 x 47	13		
1830610	EVG 60/1	60 mA	0,40 A	990 V	160 x 40 x 35	2		
1830620	EVG 60/2	60 mA	0,60 A	2 000 V	170 x 53 x 44	6		
1831080	EVG 80/1	80 mA	0,45 A	990 V	160 x 53 x 44	6		
1831580	EVG 80/1,5	80 mA	0,60 A	1 500 V	160 x 53 x 44	6		
1834211	EVG 40/1D	40 mA	0,25 A	990 V	205 x 39 x 37	7	+ dimmer	
1834210	EVG 40/1D Duo	40 mA	0,50 A	2x990 V	205 x 49 x 29	8	+ dimmer	
1830183	EVG 80/1D	80 mA	0,50 A	990 V	205 x 39 x 37	7	+ dimmer	
1830183D	EVG 80/1D Duo	80 mA	0,95 A	2x990 V	205 x 56 x 38	9	+ dimmer	
1830184	EVG 120/1D	120 mA	0,40 A	990 V	207 x 52 x 46	4	+ dimmer	
1833040	EVG 40/3D	40 mA	0,60 A	3 000 V	260 x 62 x 46	10	+ dimmer and controller	
1832050	EVG 50/2D	50 mA	0,60 A	2 000 V	260 x 62 x 46	10	+ dimmer and controller	
1830323	EVG 20/3F	20 mA	0,35 A	3 000 V	160 x 40 x 35	2	+ flasher	
1830525	EVG 20/5F	20 mA	0,55 A	5 000 V	205 x 39 x 37	11	+ flasher	
1830825	EVG 20/8F	20 mA	0,95 A	8 000 V	207 x 52 x 46	11	+ flasher	

More information, technical manuals and current prices can be found at www.dencop.cz

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LED TECHNOLOGY



BOARD MATERIALS



CONSTRUCTION & ARCHITECTURE



NEON ADVERTISING



TECHNOLOGIES AND SERVICES



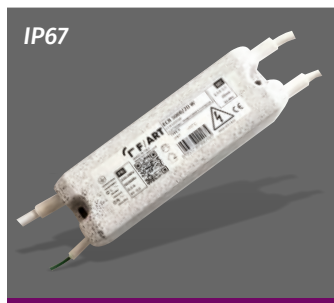
F/ART ELECTRONIC CONVERTERS

F/ART electronic converters for neon systems based on cold cathodes. Available models ECR 5000/20 W (5000V 20 mA) and ECR 9000/20 DW (9000V 20 mA with built-in dimmer). ECR F/ART are protected by a polymerized epoxy resin housing, they have a wide range of uses - these two models cover most of the requirements and needs of system installation.

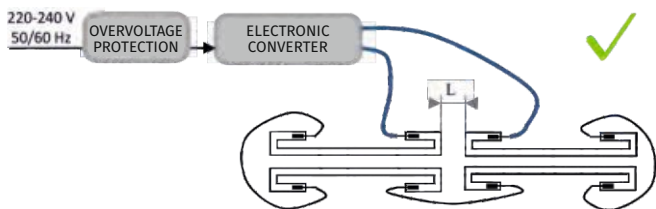
They comply with all safety standards. Without the "jelly beaning" effect and dark dots). Integrated protection. Converters include PFC. They are designed primarily for indoor use, thanks to their compact dimensions and weight, they are easy to install in small spaces. Suitable for use with high-voltage cables with a maximum length of 1.5 meters (if a longer cable is required, it is better to install an electromagnetic transformer).

Converters are available in white or black color.

Working temperature: -20 to +55 °C; Never install the converter in direct sunlight.

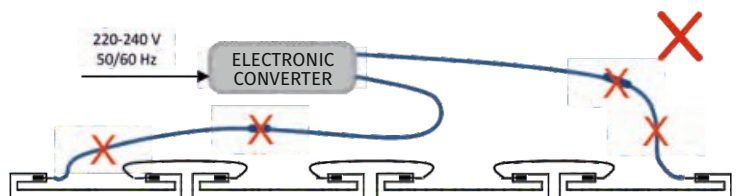


CODE	TYPE	IP	AC INPUT						AC OUTPUT			ACCESSORIES / COLOR	ARGON / NEON
			VOLTAGE	FREQ.	CURRENT	POWER FACTOR	INPUT POWER	POWER	VOLTAGE	FREQ.	CURRENT		
1850520DW	ECR 20/5 DW	IP50	220 V	50/60 Hz	0,25 A	0,9	57,5 VA	52 W	2500 V -E-	27 kHz	20 mA	☐ dimmer	■ ■
1850520DB	ECR 20/5 DB	IP50	240 V	50/60 Hz	0,25 A	0,9	57,5 VA	52 W	2500 V	27 kHz	20 mA	■ dimmer	■ ■
Size: 188 x 70 x 45 mm; Weight: 1,50 Kg													
1850630DW	ECR 30/6 DW	IP50	220 V	50/60 Hz	0,25 A	0,95	57,5 VA	55 W	3000 V -E-	30 kHz	30 mA	☐ dimmer	■ ■
1850630DB	ECR 30/6 DB	IP50	240 V	50/60 Hz	0,25 A	0,95	57,5 VA	55 W	3000 V	30 kHz	30 mA	■ dimmer	■ ■
Size: 188 x 70 x 45 mm; Weight: 1,50 Kg													
1850630FW	ECR 30/6 FW	IP50	220 V	50/60 Hz	0,25 A	0,95	57,5 VA	55 W	3000 V -E-	30 kHz	30 mA	☐ flasher	■ ■
1850630FB	ECR 30/6 FB	IP50	240 V	50/60 Hz	0,25 A	0,95	57,5 VA	55 W	3000 V	30 kHz	30 mA	■ flasher	■ ■
Size: 188 x 70 x 45 mm; Weight: 1,50 Kg													
FLASHER FUNCTION ALWAYS ON													
1850820DW	ECR 20/8 DW	IP50	220 V	50/60 Hz	0,30 A	0,93	69 VA	64 W	4000 V -E-	26 kHz	20 mA	☐ flasher	■ ■
1850820DB	ECR 20/8 DB	IP50	240 V	50/60 Hz	0,30 A	0,93	69 VA	64 W	4000 V	26 kHz	20 mA	■ flasher	■ ■
Size: 188 x 70 x 45 mm; Weight: 1,50 Kg													
1850920DW	ECR 20/9 DW	IP50	220 V	50/60 Hz	0,36 A	0,95	83 VA	79 W	4500 V -E-	26 kHz	20 mA	☐ dimmer	■ ■
1850920DB	ECR 20/9 DB	IP50	240 V	50/60 Hz	0,36 A	0,95	83 VA	79 W	4500 V	26 kHz	20 mA	■ dimmer	■ ■
Size: 188 x 70 x 45 mm; Weight: 1,50 Kg													
1851030W	ECR 30/10 W	IP67	220 V	50/60 Hz	0,4 A	0,95	92 VA	87 W	5000 V -E-	24 kHz	30 mA	☐	■ ■
1851030B	ECR 30/10 B	IP67	240 V	50/60 Hz	0,4 A	0,95	92 VA	87 W	5000 V	24 kHz	30 mA	■	■ ■
Size: 188 x 70 x 45 mm; Weight: 1,50 Kg													



L = 30 mm for ECR 5000
L = 50 mm for ECR 6000, 8000, 9000, 10000

Use the shortest cable possible during installation, installation with long or joint cables is not correct.



ELECTRONIC FLASHERS AND DIMMERS

Flashers and dimmers are used for **animation of the advertisement**, they are already set up during production, with a given performance and number of channels, **the possibility of choosing a program of up to 64 variants**. The programs are set using microswitches **by mechanical switching**, speed can be regulated with the potentiometer inside.

CODE	NAME/ SPECIFICATION
48	Flasher/ 489R 0,5 s/0,5 s, black 1×1,5 A
44	Flasher/ 416R 0,5 s/0,5 s, black 1×2,5 A
45	Flasher/ 417L 1 s/1 s, brown 2×2,5 A
46	Flasher/ 417R 0,5 s/0,5 s, black 2×1,5 A
49	Flasher/ 491 PROMO 2000 1×6 A
50	Flasher/ 492 PROMO 2000 2×5 A
57	Flasher/ 470 PROMO 2000 1×12 A
56	Flasher/ 415 PROMO 6200E - 64 programs 6×6 A
411	Dimmer/ 4A 230V - dimming for min. values
412	Dimmer/ 4A 230V - automatic with adjustable dimmer up to 30 minutes (rotary dimmer)
413	Flasher/ 4A 230V



PROGRAMMED CABINETS



PROGRAMMED CABINET - FANDANGO

- Waterproof steel box IP55
- Earth terminal for each input / output
- Entry and exit with blanking plug
- Large space for convenient connection
- Adjustable speed
- Program LEDs
- 3 phase power supply 230V or 400V
- 50/60 Hz

On request - programmed cabinets according to your own requirements for the number of channels and program steps.

HIGH VOLTAGE CABLES

CODE	NAME/ SPECIFICATION
2200	DENCOP silicone cable 20 kV transparent
2220	DENCOP silicone cable 20 kV black
2262	DENCOP silicone cable 20 kV white
2208	DENCOP silicone double sheathed cable 10 kV white
2209	DENCOP silicone double sheathed cable 10 kV black
2270	DENCOP silicone cable 5/10 kV white
2275	DENCOP silicone cable 5/10 kV transparent
2280	DENCOP silicone cable 5/10 kV black

20 kV cables are intended for distribution outside the EU.

HV cables must be connected so that their length is as short as possible. Do not place cables in large lengths next to each other. Due to induction current peaks occurring between them, which significantly reduces service life electrodes and the whole system.



More information, technical manuals and current prices can be found at www.dencop.cz

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SILICONE PLUGS AND GLASS PELLETS



CODE	DIAMETER
3103001	5 - 9 mm
3103002	8 - 12 mm
3103003	10,5 - 14,5 mm
3103005	14 - 18 mm
3103006	17 - 22 mm
3103007	18 - 24 mm
3103008	21 - 27 mm



CODE	DIAMETER
763010	1 mm
763015	1,5 mm
763020	2 mm
763025	2,5 mm

Silicone plugs - used for dry sintering (powder sintering).

SILICONE SLEEVE

The sleeve serves as protection against dangerous contact voltage and all connections must be covered with it. Pack of 100 pcs.



SIZE	TYPE I FOR STRAIGHT CABLE OUTLET				TYPE II - REVERSE CABLE RETURN OUTLET AROUND ELECTRODE			
	TRANSP.	WHITE	BLACK	GREY	TRANSP.	WHITE	BLACK	GREY
10 mm	CODE: 199	CODE: 209	CODE: 219	CODE: 228	CODE: 229	CODE: 279	CODE: 239	CODE: 247
12 mm	CODE: 198	CODE: 208	CODE: 218	CODE: 227	-	-	-	-
12/13 mm	CODE: 250	CODE: 252	CODE: 251	-	-	-	-	-
13 mm	CODE: 200	CODE: 210	CODE: 220	CODE: 224	CODE: 230	CODE: 280	CODE: 240	CODE: 243
15 mm	CODE: 197	CODE: 207	CODE: 217	-	CODE: 234	CODE: 278	CODE: 238	-
15/16 mm with membrane	CODE: 214	CODE: 215	CODE: 216	-	CODE: 235	CODE: 277	CODE: 237	-
16 mm	CODE: 201	CODE: 211	CODE: 221	CODE: 225	CODE: 231	CODE: 281	CODE: 241	CODE: 244
17/18 mm with membrane	-	-	-	-	CODE: 233	CODE: 283	CODE: 249	-
18 mm	CODE: 202	CODE: 212	CODE: 222	CODE: 226	CODE: 232	CODE: 282	CODE: 242	CODE: 245
19/20 mm	CODE: 285	CODE: 272	-	-	-	-	-	-
20 mm	CODE: 203	CODE: 213	CODE: 223	-	-	-	-	-

SILICONE BUSHINGS FOR NEON TUBES

Silicone bushings are installed in the electrode holes to remove contact between the neon tube and the metal ground. Bushings are not conditioned by the standard, but practice has shown that its use **increases the durability and reliability of advertising**. It removes the different electrical potential between the neon tube and the grounded part (5kV) and at the same time protects - separates the glass from the metal, where it is disturbed due to wind - knocking the wall of the tube against the metal part. Pack of 100 pcs.

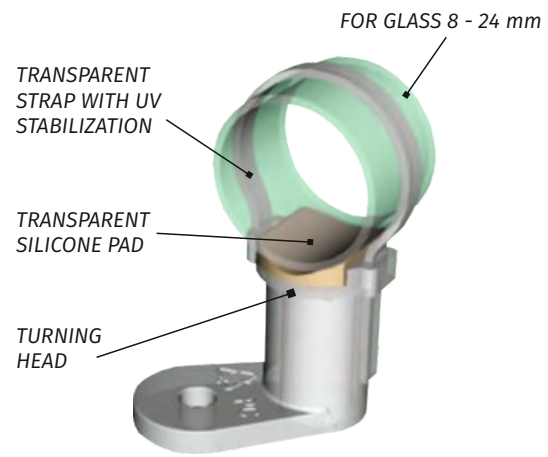
SIZE	TRANSPARENT	BLACK
18 mm	CODE: 22218	CODE: 22318
22 mm	CODE: 22222	CODE: 22322
24 mm	CODE: 22224	CODE: 22324



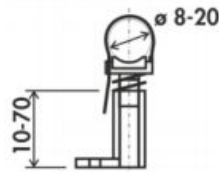
NEON TUBE HOLDERS

Neon tube holders prevent the neon tube from touching with a grounded part, limit leakage currents in cooperation with silicone insert. They are characterized by **simple installation** - anchoring with a screw or rivet.

For the strap type version, the strap is part of the holder up to a diameter of 28 mm tube. The old strap can be cut and passed through a new hole for reuse in the holder. The silicone pad insulates very well, and prevents the tube from moving in a vertical position and insulates leakage currents. The integrated spring transmits all the vibration of the advertisement in the winds and there is no mechanical stress on the glass.



TUBE HOLDERS WITH STRAP



CODE	HEIGHT	DESCRIPTION
25101	10 mm	Transparent with strap
25102	20 mm	Transparent with strap
25103	30 mm	Transparent with strap
25104	40 mm	Transparent with strap
25105	50 mm	Transparent with strap
25106	60 mm	Transparent with strap
25107	70 mm	Transparent with strap

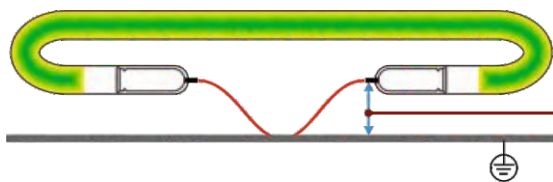
TUBE HOLDERS WITH CLICK SYSTEM



AVAILABLE ALSO IN BLACK

HEIGHT	Ø 8 mm	Ø 10 mm	Ø 12 mm	Ø 15 mm	Ø 18 mm	Ø 20 mm
20 mm	26208	26210	26212	26215	26218	26220
30 mm	26308	26310	26312	26315	26318	26320
40 mm	26408	26410	26412	26415	26418	26420
50 mm	26508	26510	26512	26515	26518	26520
60 mm	26608	26610	26612	26615	26618	26620
70 mm	26708	26710	26712	26715	26718	26720

TABLE OF MINIMUM DISTANCE OF THE SYSTEM FROM GROUND



TRANSFORMER VOLTAGE	MINIMUM DISTANCE FROM THE GROUNDED PART
1000 V	13,5 mm
2000 V	18 mm
4000 V	27 mm
8000 V	45 mm



NEON ELECTRODES - LEAD-FREE GLASS

CODE	MAX. CURRENT (mA)	DESCRIPTION	GLASS LENGTH (mm)	Ø GLASS (mm)
3301	25	RE	55	10
3311	25	RPE	55	10
3210	25	RE	90	10
3220	25	RPE	90	10
3503	50	RE	60	13
3513	50	RPE	60	13
3502	50	RE	90	13
3522	50	RPE	90	13
3803	80	RE	65	16
3813	80	RPE	65	16
3800	80	RE	90	16
3822	80	RPE	90	16
3900	90	RE	65	18
3931	90	RPE	65	18
3902	90	RE	90	18
3912	90	RPE	90	18
4000	120	RE	70	18
4011	120	RPE	70	18
4020	120	RE	105	18
4021	120	RPE	105	18
4501	150	RE	75	18
4511	150	RPE	75	18
4520	150	RE	105	18
4521	150	RPE	105	18
4250	250	RE	105	18
4252	250	RPE	105	18

$$\begin{aligned} & \text{CALCULATION OF RATED CURRENT} \\ & = \\ & \text{TRANSFORMER OPERATING CURRENT} \\ & \times \\ & \text{COEFFICIENT 1,7} \end{aligned}$$



ELECTRODE RE
(EUROLITE GLASS)



ELECTRODE RPE
(EUROLITE GLASS
WITH PUMP TUBE)

SINTERING POWDER / LUMINOPHORE

CODE	NAME		
76061	Mountain Blue	G7	Blue/1
76062	Intensive Blue	G70	Blue/4
76063	Ice Blue	G9	White Blue/1
76064	Petrol	G73	Blue Green/1
76065	Emerald Green	G72	Green/4
76066	Grass Green	G5	Green/1
76067	Intensive Yellow-Green	G71	Yellow-Green/1
76068	Turquoise	G59	Green/3
76069	Sunflower Yellow	G6	Yellow/1
76070	Lemon Yellow	G6	Yellow/4
76071	Orange Red	G17	Orange/3
76072	Peach Orange	G67	Orange/5
76073	Purper Red	G11	Red/2
76074	Coral Red 1505	G12	Red/3
76075	Pink Violet	G77	Violet/1S
76076	Bleach Violet	G77	Violet/2
76077	Orchids Lilac	G711	Violet/3
76078	Purple	G7	Purple/1
76079	Pink	G7	Pink/1

The color of the powder is approximate, it may vary slightly!

CODE	NAME		
76080	Warm White 2900K	G69	White/2900
76081	Yellow White 3000K	G69	White/3500
76082	Warm White 3800K	G69	White/3800
76083	Warm White 4500K	G69	White/4500
76084	Daylight White 6500K	G69	White/6500
76085	Clear White 8000K	G69	White/8000
76086	Blue White 10000k	G69	White/10000
761010	Binder	B1S	1 liter






















































In addition to powders, we also supply a liquid mixture.



SINTERING POWDER



BINDER B1

NEON TUBE /WALL WIDTH 1,3 mm/				CLEARANCE SALE	
CODE	COLOR CODE	COLOR NAME	COLOR PREVIEW	DIAMETER x LENGHT TUBE (mm)	DESCRIPTION
TPC08BVP	303	Light Green		8 x 1500	Colored sintered glass
TPC10BNE	-	Black		10 x 1500	Colored sintered glass
TPC12BAME	205	Aquamarine		12 x 1500	Colored sintered glass
TPC12BVPE	303	Light Green		12 x 1500	Colored sintered glass
TPC15BAME	205	Aquamarine		15 x 1500	Colored sintered glass
TPC18BAM	205	Aquamarine		18 x 1500	Colored sintered glass
TPC18EAM	205	Aquamarine		18 x 3000	Colored sintered glass
TPC15EBP	204	Blue		15 x 3000	Colored sintered glass
TPC15ELI	503	Yellow Lemon		15 x 3000	Colored sintered glass
TPC15ENO	504	Yellow Novial		15 x 3000	Colored sintered glass
TPC15EVS	304	Emerald		15 x 3000	Colored sintered glass
TPC18BBP	204	Blue		18 x 1500	Colored sintered glass
TPC18BVSE	304	Emerald		18 x 1500	Colored sintered glass
TPC18ENO	504	Yellow Novial		18 x 3000	Colored sintered glass
TPC18EPO	207	Purple		18 x 3000	Colored sintered glass
TPC18ERN	408	Ruby Red		18 x 3000	Colored sintered glass
TPC18EVS	304	Emerald		18 x 3000	Colored sintered glass
TPD38CSY	507	Super Yellow		38 x 2000	Colored sintered glass
TPD38CVR	301	Standard Green		38 x 2000	Clear sintered glass
TPS08BAR	406	Orange		8 x 1500	Clear sintered glass
TPS10BAR	406	Orange		10 x 1500	Clear sintered glass
TPS10BDY	501	Deep Yellow		10 x 1500	Clear sintered glass
TPS10BLB	201	Light Blue		10 x 1500	Clear sintered glass
TPS12BAR	406	Orange		12 x 1500	Clear sintered glass
TPS12BUL	209	Ultrablue		12 x 1500	Clear sintered glass
TPS12BDY	501	Deep Yellow		12 x 1500	Clear sintered glass
TPS15B50	108	Special White 5000K		15 x 1500	Clear sintered glass
TPS15B56	109	White 5600K		15 x 1500	Clear sintered glass
TPS15BAR	406	Orange		15 x 1500	Clear sintered glass
TPS15BDY	501	Deep Yellow		15 x 1500	Clear sintered glass
TPS18BAR	406	Orange		18 x 1500	Clear sintered glass
TPS18BLB	201	Light Blue		18 x 1500	Clear sintered glass
TPS18BPK	401	Standard Pink		18 x 1500	Clear sintered glass
TPS18BVT	206	Violet		18 x 1500	Clear sintered glass
TPS18BWA	104	Warmtone White 2800K		18 x 1500	Clear sintered glass
TPS18E40T	114	White 4000K Triband		18 x 3000	Clear sintered glass
TPS18EDY	501	Deep Yellow		18 x 3000	Clear sintered glass
TPS18EVM	302	Apple Green		18 x 3000	Clear sintered glass
TPS20B27	127	White 2700K Triband		20 x 1500	Clear sintered glass
TPS20B40	106	White 4000K		20 x 1500	Clear sintered glass
TPS20EAR	406	Orange		20 x 3000	Clear sintered glass
TPS20EVR	301	Standard Green		20 x 3000	Clear sintered glass
TPS25CBL	202	Standard Blue		25 x 2000	Clear sintered glass
TPS18BTU	208	Turquoise		18 x 1500	Clear sintered glass
TTC18BVR	-	Green		18 x 1500	Colored glass
TTC18EVR	-	Green		18 x 3000	Colored glass
TPP12E56	109	White 5600K		12 x 3000	Clear sintered lead glass
TPP15EDY	501	Deep Yellow		15 x 3000	Clear sintered lead glass
TPP15EVM	302	Apple Green		15 x 3000	Clear sintered lead glass
TPP18E68	110	White 6800K		18 x 3000	Clear sintered lead glass
TPP18EBL	202	Standard Blue		18 x 3000	Clear sintered lead glass
TPP20E60	116	White 6000K		20 x 3000	Clear sintered lead glass
TPP20EDY	501	Deep Yellow		20 x 3000	Clear sintered lead glass
TPP25CSB	110	White 6800K		18 x 3000	Clear sintered lead glass
20115	-	-		15 x 1500	Lead glass clear

The color display of the tubes is for guidance only. **LIST IS VALID UNTIL STOCK LASTS!**

SIGNMAKING



LED TECHNOLOGY



BOARD MATERIALS



CONSTRUCTION & ARCHITECTURE



NEON ADVERTISING



TECHNOLOGIES AND SERVICES





GLOSTERTUBE GLASS TUBES

Glostertube lead-free tubes are produced in variants: borosilicate, colored borosilicate and soda glass. They are characterized by **high luminosity and stability**.

Thanks to a new process in the production of tubes, the required amount of mercury for one lamp has been significantly reduced. The amount of recommended mercury is about 40/50 mg (1 ball with a diameter of 2 mm) per tube with a maximum length of 3000 mm.

CLEAR GLASS WITH LUMINOPHORE

TUBE WALL WIDTH 1,3 mm			DIMENSIONS (TUBE DIAMETER mm x TUBE LENGTH mm)						
COLOR CODE	COLOR NAME	COLOR PREVIEW	6 x 1500	8 x 1500	10 x 1500	12 x 1500	15 x 1500	18 x 1500	20 x 1500
101	White 6500°		TPS06B65	TPS08B65	TPS10B65	TPS12B65	TPS15B65	TPS18B65	TPS20B65
102	White 4500°		TPS06B45	TPS08B45	TPS10B45	TPS12B45	TPS15B45	TPS18B45	TPS20B45
103	White 3500°		TPS06B35	TPS08B35	TPS10B35	TPS12B35	TPS15B35	TPS18B35	TPS20B35
104N	Warmtone 2800°		TPS06BNW	TPS08BNW	TPS10BNW	TPS12BNW	TPS15BNW	TPS18BNW	TPS20BNW
110	White 6800°		TPS06B68	TPS08B68	TPS10B68	TPS12B68	TPS15B68	TPS18B68	TPS20B68
180N	White 7000°		TPS06B180	TPS08B180	TPS10B180	TPS12B180	TPS15B180	TPS18B180	TPS20B180
111	White 7500°		TPS06B75	TPS08B75	TPS10B75	TPS12B75	TPS15B75	TPS18B75	TPS20B75
118	White 8000° Triph		TPS06B80	TPS08B80	TPS10B80	TPS12B80	TPS15B80	TPS18B80	TPS20B80
112	White 9000°		TPS06B90	TPS08B90	TPS10B90	TPS12B90	TPS15B90	TPS18B90	TPS20B90
165	Universal White 6500°		TPS06BUW	TPS08BUW	TPS10BUW	TPS12BUW	TPS15BUW	TPS18BUW	TPS20BUW
115N	Champagne		TPS06BCHN	TPS08BCHN	TPS10BCHN	TPS12BCHN	TPS15BCHN	TPS18BCHN	TPS20BCHN
301	Green		TPS06BVR	TPS08BVR	TPS10BVR	TPS12BVR	TPS15BVR	TPS18BVR	TPS20BVR
310	Brilliant Green		TPS06BVB	TPS08BVB	TPS10BVB	TPS12BVB	TPS15BVB	TPS18BVB	TPS20BVB
401N	Pink		TPS06BNP	TPS08BNP	TPS10BNP	TPS12BNP	TPS15BNP	TPS18BNP	TPS20BNP
202	Blue		TPS06BBL	TPS08BBL	TPS10BBL	TPS12BBL	TPS15BBL	TPS18BBL	TPS20BBL
203	Superblue		TPS06BSB	TPS08BSB	TPS10BSB	TPS12BSB	TPS15BSB	TPS18BSB	TPS20BSB
302	Apple Green		TPS06BVM	TPS08BVM	TPS10BVM	TPS12BVM	TPS15BVM	TPS18BVM	TPS20BVM
402	Purple		TPS06BPO	TPS08BPO	TPS10BPO	TPS12BPO	TPS15BPO	TPS18BPO	TPS20BPO
405	Salmon Rose		TPS06BSA	TPS08BSA	TPS10BSA	TPS12BSA	TPS15BSA	TPS18BSA	TPS20BSA
218	Turquoise		TPS06B218	TPS08B218	TPS10B218	TPS12B218	TPS15B218	TPS18B218	TPS20B218
413	Cyclamen		TPS06B413	TPS08B413	TPS10B413	TPS12B413	TPS15B413	TPS18B413	TPS20B413
414	Orchid		TPS06B414	TPS08B414	TPS10B414	TPS12B414	TPS15B414	TPS18B414	TPS20B414
406N	Orange		TPS06BNAR	TPS08BNAR	TPS10BNAR	TPS12BNAR	TPS15BNAR	TPS18BNAR	TPS20BNAR
409N	Apricot		TPS06BNAP	TPS08BNAP	TPS10BNAP	TPS12BNAP	TPS15BNAP	TPS18BNAP	TPS20BNAP
507N	Super Yellow		TPS06BNSY	TPS08BNSY	TPS10BNSY	TPS12BNSY	TPS15BNSY	TPS18BNSY	TPS20BNSY

We offer tubes with lengths of 2000, 2500 and 3000 only until stocks last!

COLORED GLASS WITH LUMINOPHORE

TUBE WALL WIDTH 1,3 mm			DIMENSIONS (TUBE DIAMETER mm x TUBE LENGTH mm)							
COLOR CODE	COLOR NAME	COLOR PREVIEW	6 x 1500	8 x 1500	10 x 1500	12 x 1500	15 x 1500	18 x 1500	20 x 1500	22 x 1500
204	Blue		TPC06BBPE	TPC08BBPE	TPC10BBPE	TPC12BBPE	TPC15BBPE	TPC18BBPE	TPC20BBPE	TPC22BBPE
304	Emerald		TPC06BVS	TPC08BVS	TPC10BVS	TPC12BVS	TPC15BVS	TPC18BVS	TPC20BVS	TPC22BVS
305	Emerald Special		TPC06BSMS	TPC08BSMS	TPC10BSMS	TPC12BSMS	TPC15BSMS	TPC18BSMS	TPC20BSMS	TPC22BSMS
207	Purple		TPC06BPO	TPC08BPO	TPC10BPO	TPC12BPO	TPC15BPO	TPC18BPO	TPC20BPO	TPC22BPO
306	Yellow Green		TPC06BGV	TPC08BGV	TPC10BGV	TPC12BGV	TPC15BGV	TPC18BGV	TPC20BGV	TPC22BGV
407	Orange		TPC06BAP	TPC08BAP	TPC10BAP	TPC12BAP	TPC15BAP	TPC18BAP	TPC20BAP	TPC22BAP
502	Yellow Gold		TPC06BGN	TPC08BGN	TPC10BGN	TPC12BGN	TPC15BGN	TPC18BGN	TPC20BGN	TPC22BGN
503	Yellow Lemon		TPC06BLI	TPC08BLI	TPC10BLI	TPC12BLI	TPC15BLI	TPC18BLI	TPC20BLI	TPC22BLI
504	Yellow Novial		TPC06BNO	TPC08BNO	TPC10BNO	TPC12BNO	TPC15BNO	TPC18BNO	TPC20BNO	TPC22BNO
408	Ruby Red		TPC06BRN	TPC08BRN	TPC10BRN	TPC12BRN	TPC15BRN	TPC18BRN	TPC20BRN	TPC22BRN

We offer tubes in the dimensions 15x3000, 18x3000, 20x2400 mm

COLORED GLASS WITHOUT LUMINOPHORE

TUBE WALL WIDTH 1,3 mm

DIMENSIONS mm (TUBE DIAMETER / TUBE LENGTH)	COLOR NAME	Blue	Emerald	Orange	Yellow	Ruby Red
6 x 1500		TTC06BBPE	TTC06BVS	TTC06BAP	TTC06BGN	TTC06BRN
8 x 1500		TTC08BBPE	TTC08BVS	TTC08BAP	TTC08BGN	TTC08BRN
10 x 1500		TTC10BBPE	TTC10BVS	TTC10BAP	TTC10BGN	TTC10BRN
12 x 1500		TTC12BBPE	TTC12BVS	TTC12BAP	TTC12BGN	TTC12BRN
15 x 1500		TTC15BBPE	TTC15BVS	TTC15BAP	TTC15BGN	TTC15BRN
18 x 1500		TTC18BBPE	TTC18BVS	TTC18BAP	TTC18BGN	TTC18BRN
20 x 1500		TTC20BBPE	TTC20BVS	TTC20BAP	TTC20BGN	TTC20BRN
22 x 1500		TTC22BBPE	TTC22BVS	TTC22BAP	TTC22BGN	TTC22BRN

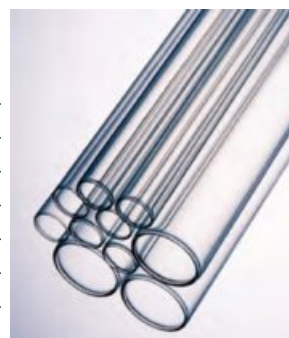
Tube with a length 3000 mm available on request.

SCHOTT GLASS TUBES

EUROLITE CLEAR GLASS

The ends of the tubes are sealed.

CODE	NAME	Ø TUBE	TUBE LENGTH	WALL WIDTH	UNIT	PACKAGE
10105	Clear glass tube	5-6 mm	1500 mm	1,3 mm	kg	12 kg
10106	Clear glass tube	6 mm	1500 mm	1,3 mm	kg	16 kg
10110	Clear glass tube	10 mm	1500 mm	1,3 mm	kg	20,5 kg
10112	Clear glass tube	12 mm	1500 mm	1,3 mm	kg	19,2 kg
10113	Clear glass tube	13 mm	1500 mm	1,3 mm	kg	11 kg
10115	Clear glass tube	15 mm	1500 mm	1,3 mm	kg	19,5 kg
10118	Clear glass tube	18 mm	1500 mm	1,3 mm	kg	21 kg
10120	Clear glass tube	20 mm	1500 mm	1,3 mm	kg	19,1 kg



GAS FOR NEON / SPECIAL GAS MIXTURES

CODE	NAME
9150	Gas in glass bottle - 2,25l - 100% neon 5.0
9151	Gas in glass bottle - 2,25l - 75% neon + 25 % argon
9155	Gas in glass bottle - 2,25l - 75% argon + 25 % neon
9157	Gas in glass bottle - 2,25l - 50% argon + 50 % neon
9158	Gas in glass bottle - 2,25l - 100% argon 6.0
152	Gas in aluminium bottle - 12l - 100 % neon 5.0
156	Gas in aluminium bottle - 12l - 75% neon + 25 % argon
148	Gas in aluminium bottle - 12l - 75% argon + 25 % neon
149	Gas in aluminium bottle - 12l - 50% argon + 50 % neon
153	Gas in aluminium bottle - 12l - 100% argon 6.0
C220025	Gas in steel bottle (0.4l/250 bar) 100% neon
C220024	Gas in steel bottle (1l/150 bar) 100% neon
C220023	Gas in steel bottle (0.5l/150 bar) 100% neon
C220021	Gas in steel bottle (0.5l/150 bar) 75% neon + 25% argon
C220020	Gas in steel bottle (0.5l/150 bar) 25% neon + 75% argon
C220019	Gas in steel bottle (1l/150 bar) 75% neon + 25% argon
C220018	Gas in steel bottle (1l/150 bar) 60% neon + 40% helium

Special mixtures available on request. Gas purity: Ne 5.0, Ar 6.0, He 6.0






GAS IN GLASS 2,25l



GAS IN ALU 12l

GAS IN STEEL
0,4l; 0,5l; 1l

TOOLS AND ACCESSORIES FOR THE PRODUCTION OF NEON

	CODE: 6 Turning blowpipe (swivel)		CODE: 7 Glass connecting joint - vacuum 1/4"		CODE: 30 Knife for glass cutting
	CODE: 10 Porcelain spoon for powder 148 mm		CODE: 10000 Hand torch R-1 (propane/natural gas)		CODE: 10001 Hand torch R-2 (propane)
					CODE: 10003 Hand torch R-2 (natural gas)



PUMPING STAND D3 - produced by DENCOP


The basic model D3 includes: manual safety switch; rotary vacuum pump; pumping speed 6 m³ / h; Edwards diffusion pump - pumping speed 60 l sec. ; transformer including electron. regulation - 15 kV / 1.5 A; pumping pipes with the possibility of pumping neon on the one side; combined vacuum measurement in the range of 1000 mbar to 1x10⁻³ mbar in one branch







Miliampermeter

- large frequency range
- automatic switching on at currents above 3 mA
- no battery required

	CODE: 10002 Desk torch H-1		CODE: 20 Neon tester		CODE: 30 Tester neon 220V (sparkler)
					CODE: 1131 VACUUM grease 50g - vacuum lubricant, creates a durable layer against chemicals, low volatility, water resistance - temperature range: from -40°C to + 200°C

	Optical meter of tube temperature		Rotary vacuum pump		Vacuum meter
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	CODE: 999 Quicksilver 99,999% purity		CODE: 31 Termo-pencil		Paint for glass
			CODE: 28 Pencil for glass marking		CODE: 81 BLACK 0,8 l
					CODE: 82 WHITE 0,8 l
					CODE: 83 GREY 0,8 l



Elektroneon Pavel Nejtek - illuminated advertisement



Neon Zlín



REX

A LITTLE HISTORY OF NEON ADVERTISING

(1) Initially, colored light tubes filled with gas (neon, argon) were used for the production of illuminated advertising and illuminated signs. Hence the name neon advertising. Due to cost savings, neon tubes have been gradually replaced by fluorescent lamps and discharge lamps since the 1980s, where this was technically possible. At present, discharge lamps and fluorescent lamps are replaced by powerful and economical LED diodes with also a relatively long service life.

(2) Illuminated advertising was one of the means of promotion discarded in the early 1950s for both ideological and technical-economic reasons. Towards the end of the decade, however, the limited mechanisms of the centralized economy found their place in the promotion. While the night streets of the western metropolises became famous neon jungles, the cities of socialist Czechoslovakia only began to wake up from the dark times after the February coup, when electricity had to feed mainly the forced transformation of a country with light industry into a steel superpower. It was only after 1953 that the centers of Czech and Slovak cities, torn from the clutches of predatory capitalist business, began to gradually change into planned shopping centers.

One of the reasons for rejecting neon (and neon sign in general) as an unnecessary form of promotion was the considerable operating costs: lighting up tubes filled with neon or argon required a power input of up to six thousand volts. The neglect of illuminated advertising in the early 1950s was also caused by the rejection of the chaotic accumulation of advertising lights in the streets of western cities.

In contrast to the lighting intensity of Western European shop windows, which was around 4,000 Lux and dazzled pedestrians and motorists as a headlight, the luminous flux of Czechoslovak advertising lighting reached only one tenth at the end of the 1950s. It was limited by the permitted power consumption of around 45 watts per square meter of exhibition space.

At the beginning of the 1960s, there were around two thousand illuminated advertisements throughout the Czechoslovak Republic. In addition to Brno and Prague, the night Bratislava, Plzeň, Pardubice, Karlovy Vary, Hradec Králové, Ostrava, Ústí nad Labem and Gottwaldov (contemporary Zlín) were sporadically illuminated with promotional light - with several unique inscriptions, which also had Liberec and Teplice. The listed centers of České Budějovice and Olomouc remained almost untouched by neon until the end of the 1950s.

The Czechoslovak neons of the 1950s glowed with either a thin light of green, red or violet-blue. The light intensity of these neons fluctuated: it faded at the edges and the line of the advertising sign had blurred outlines. For these reasons, neon advertising ceased to be used worldwide after World War II. Already in the mid-1950s, foreign neons were treated with a layer of fluorescent pigment, which was applied to the walls of the tube and shone after the gas was lit by a discharge of uniform and intense light. This technology made it possible to produce up to 22 different color shades. In the Czechoslovak Republic, the production of sintered fluorescent tubes began only in 1959.

The diversity of color seemed unnecessary to Czechoslovak advertising workers; the target of their criticism also remained the spontaneous growth of neon signs in the streets of capitalist cities. The ideal of socialist promotion, on the other hand, was centralized production and distribution, which made it possible to control the placement of illuminated advertising. At the end of the 1950s, a new plant in Chřibská started operating, producing block letters of standardized sizes and shapes.

The service life of uncovered tubes was limited to a maximum of five thousand operating hours; In addition, Czechoslovak neons of the 1950s (and early 1960s) suffered from high failure rates. Lighted fragments of advertising signs were the target of criticism and a source of entertainment. Due to the fact that funds for neon maintenance had to be planned in advance, the damaged illuminated advertisements waited for repair until the production or assembly plant's capacity was released, or until "the business company investigated some amount for repair because it did not anticipate a failure".

Sources: (1) Wikipedia, (2) Jaromír Balák: Světelná reklama, Prague, 1962. *



OVERVIEW OF SERVICES OFFERED



CUTTING-TO-SIZE OF BOARD MATERIALS, ALUMINIUM AND PLASTIC PROFILES

We perform cutting - to size of board materials on our saw and CNC milling machine.



CUTTING AND BENDING SIDE PANELS FOR 3D LETTERS

We will completely prepare the material for the final assembly of 3D letters. We solidify the sides and cut out the forehead and the lower part of the letter.



ENGRAVING GRAPHICS IN METALS AND PLASTICS



GROOVING OF ALUMINIUM COMPOSITE PANELS



MILLING OF FACADE GRADE ACP BOND ON CNC AXYZ 6014 MILLING MACHINE

Milling with high machining accuracy and minimal vibration. Standardly we mill plexiglass (PMMA), PVC, bonds, aluminum sheets, polystyrene. We also offer milling of common furniture materials.



MELT WIRE CUTTING OF POLYSTYRENE



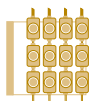
BENDING OF ACP BOND EDGES

The edging of the boards protects their core and prolongs their service life. We also perform bonding of bonds with a mineral core.



LOCKING OF ACP BONDS, PVC, PLEXIGLASS, ...

A new service that solves the system of joining (folding) board materials. We perform locking straight and to the side.



DESIGN, CALCULATIONS AND CONSULTING IN THE FIELD OF LED TECHNOLOGY



TESTING OF LED COMPONENTS IN EXTREME CONDITIONS AND MEASUREMENT WITH THE MK3 INSTRUMENT



WE OFFER SPECTROMETER MEASUREMENT WITHIN THE ORDER

Measurement of chromaticity temperature, luminosity intensity, color rendering index and the wavelength spectrum of light.



CONSULTANCY IN THE FIELD OF PRODUCTION AND INSTALLATION OF NEON ADVERTISING



EXPERT TRAININGS

Training in working with CNC, LED technologies and new materials, use ACP bonds, etc.



PRODUCTION OF CUT FOIL GRAPHICS

Cutting glued graphics on a plotter for signs, showcases, shop windows, totems, etc.



DISTRIBUTION OF GOODS BY OUR OWN TRANSPORT OR CONTRACTING CARRIERS

We also transport goods to selected areas by regular delivery.

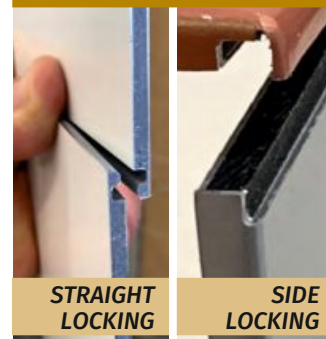
SAW CUTTING



CNC MILLING



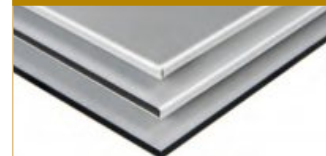
LOCKING



STRAIGHT LOCKING

SIDE LOCKING

BENDING



CHANNEL LETTERS



CUTTED PLOTTER GRAPHICS



RULES FOR DATA PREPARATION FOR MILLING

The parameters of the **XYZ 6014** milling machine are a prerequisite for **very high machining accuracy with minimal vibrations**, which also achieves excellent quality of the machined cut, especially at the edges of plexiglass.

As standard, we mill **plexiglass plate material (PMMA), PVC, ACP Bond, aluminum sheets, polystyrene.**

XYZ milling machines are among the most modern milling machines and the company **Dencop Lighting spol. s r.o.** has **exclusive sales representation for the Czech Republic and Slovakia.**

Work surface dimensions: 2165 x 4200 mm

- can be milled up to 6 m

Maximum material size: 2 x 6 m



XYZ 6014 LARGE AREA MILLING MACHINE

DATA PREPARATION - HOW TO DO IT

For a perfect and precise result of the final product after milling, the correct input data in the curves are essential. The milling software ARTCAM used by us handles the following types of data: **DWG, PDF, CDR, AI, EPS.**

PLT or DXF files can cause problems and the result will not be ideal, so do not use files in this format.

PLEASE FOLLOW THE FOLLOWING PRINCIPLES WHEN PREPARING DATA FOR MILLING:

SCALE 1:1 - is one of the most important rules for correct and accurate processing of your data.

DIMENSIONS - You enter the resulting dimensions of the product. According to your input, we set the technological dimensions for machining.

Data from you should contain **only milled curves and objects**. If you still want to tell us something more, send it to us separately. No dimensions, corner stamps, explanations or anything else are needed in the milling data. **Do not use dashed lines for assumed bends milled with a V-cutter. Also keep in mind that any "hidden" objects or double lines are also a sure way to big problems.** The fact that objects "lie" on top of each other does not mean that they are not there! Likewise forgotten isolated points, they can destroy the product! - The graphic artist often does not see them on the monitor, so he does not mind. However, when the milling machine "burns" a hole in the material with the center at that "invisible" point, it destroys the entire product.

The data should be really simple: a "circle" can be defined by four points at "three, six, nine and twelve o'clock" and the rest is determined by bezier curves. Theoretically, even two opposite points are enough. If the "wheel" is defined, for example, 150 points, this is unusable data for milling. Apart from the fact that the milling machine stops at each such point, it also means that there will certainly not be curves between the points, but lines - as a result, we will supply you with the already mentioned thousand-edge. It is out of the question to try to reopen the already exported data in the original drawing program.

LOSS MACHINING - if you want us to make, for example, a board made of DEBOND with embedded letters made of plexiglass, we will be happy to do so. But please keep in mind that any negative angle, both on the DEBOND and on the plexiglass, will not have a sharp corner, but a radius about the radius of the cutter used. So if you want to insert the letter X into DEBOND, you will file a total of 8 corners in a bond file and another 4 in plexiglass. This is one option. The second is that when designing, you round every single - positive and negative corner to a minimum radius of 1.55 mm (we usually use 3 mm milling cutters for these orders).

During milling, the material is clamped on the table only **by vacuum**. During machining, forces are created that try to slide the material across the table. It is up to us to decide how large objects already put enough resistance to that sliding and there is no danger of it being torn off the table and thus to be destroyed. Each material behaves a little differently. Simply put - please remember that you will get some objects from us with so-called **bridges**. These are remnants of material that remains unmilled. We try to make the bridges as subtle as possible in height and width and in as few numbers as possible, but you will still get more work with cleaning the edges.

SIGNMAKING



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Handwriting lines for the sales representative's name.

A large empty rectangular box for a signature or stamp.

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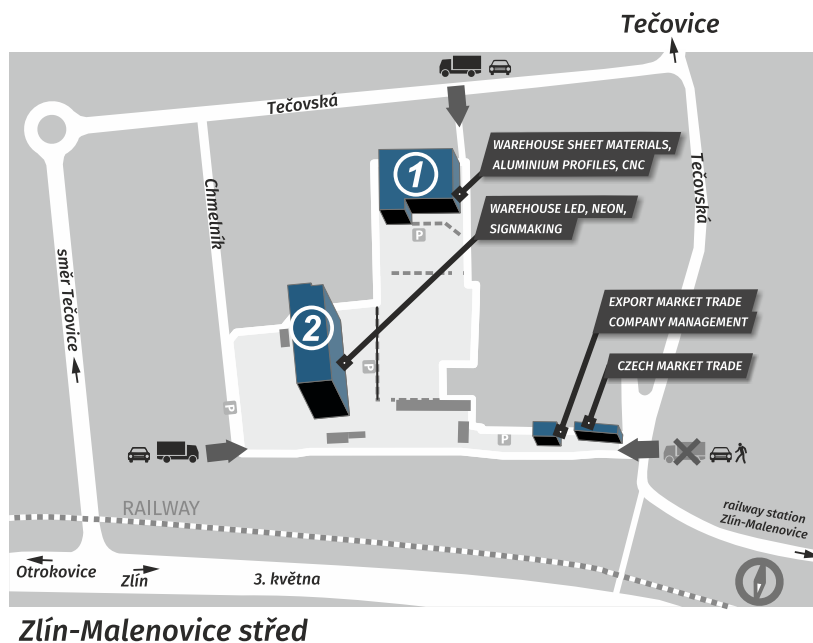
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Thursday

České Budějovice, Brno, Praha, Slovensko (Orava, Žilina, Liptovský Mikuláš a okolí)

Friday

Zlín, Praha, Slovensko (Bratislava, Nitra a okolí)

- Delivery to other cities based on demand

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