

- Ease of creating geometric figures
- Up/down lighting
- Small bending radius
- Possibility to use current modules with efficiency up to 190lm/W and CRI>90. Available upon request.

### APPLICATION

- decorative lighting i główne

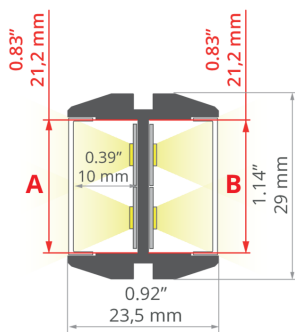
### MOUNTING

- suspended, using dedicated accessories

### ADDITIONAL INFORMATION

- when choosing a different length of profiles / covers than available in the standard, you should additionally choose the cutting service at KLUŚ

### TECHNICAL DRAWING



### TECHNICAL SPECIFICATIONS

Material	aluminum
Possible fixture IP	20, 65
Possible fixture shapes	linear, polygonal, round
Profile cross-section	rectangular
Width	0.9"
Height	1.1"
LED gluing width A	0.8"
LED gluing width B	0.8"
Number of LED strips A (0.31" wide)	2
Number of LED strips B (0.31" wide)	2
Width of the glow	22 mm
Max power of a single KLUŚ LED strip	7.3 W/ft
Possibility of twisting	yes
Possibility of obtaining a line of light	yes
Possibility of bending	yes
Radius of the light arc	yes
Inward	240 mm
Outdoor	240 mm

Color	Length	Ref
■ silver anodized	78.9"	A02162A_2
	118.5"	A02162A_3
□ white lacquered	78.9"	A02162L10OD_2
	78.9"	A02162A07_2
■ black anodized	78.9"	A02162A07_2
	118.5"	A02162A07_3

# GIZA-DUO-LL Extrusion

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Downward light arc radius	yes
Down	1000 mm
Building type	Entertainment/ Arts, Hotel / Restaurant, Commercial, Retail
Facility zone	office, lobby / foyer, decorative, fitness / spa, media rooms / av
The cover is cut to the length of the profile	yes
Can be easily connected into runs	yes
Wire out back of extrusion	yes
Two directional lighting for suspended fixtures	yes

## LINE OF LIGHT TABLE

LED tape	LIGER-22 satin	HS-22 frosted	G-22S satin	G-22R satin
K-2300-24	✓ (2)	X	✓ (1)	✓ (1)
K-CR-1220-24	✓ (2)	X	✓ (1)	✓ (1)
K-CR-1275-24	✓ (2)	X	✓ (1)	✓ (1)
K-CRHD-1820-24	✓ (2)	✓ (2)	✓ (1)	✓ (1)
K-CRHD-1910-24	✓ (2)	✓ (2)	✓ (1)	✓ (1)
K-HEHD-0480-24	✓ (2)	✓ (2)	✓ (1)	✓ (1)
K-HEHD-0960-24	✓ (2)	✓ (2)	✓ (1)	✓ (1)
K-HEHD-1440-24	✓ (2)	✓ (2)	✓ (1)	✓ (1)
K-HEHD-1920-24	✓ (2)	✓ (2)	✓ (1)	✓ (1)
K-HEHD-0320-24	✓ (2)	✓ (2)	✓ (1)	✓ (1)
K-RGBW-1920-120-24	✓ (2)	X	✓ (1)	✓ (1)
KWP-RGB-1200-24	✓ (2)	X	✓ (1)	✓ (1)
K-27/65-1920-24	✓ (2)	X	✓ (1)	✓ (1)
K-CRHD-0530-24	✓ (2)	✓ (2)	✓ (1)	✓ (1)
KWP-GRGBW-1920-120-24	✓ (2)	X	✓ (1)	✓ (1)

### Description

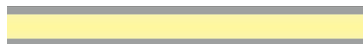
✓ - Line of Light for a number (X) of rows - Pixel free imaging

X - Visible Dotting from Diodes

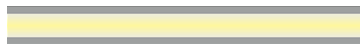
HL - Centered Line of Light - Concentrated in middle

HL (X) - Centered Line of Light for a number (X) of rows - Concentrated in middle

### Line of Light Guide



Clean Line of Light (Pixel free imaging)



Centered Line of Light

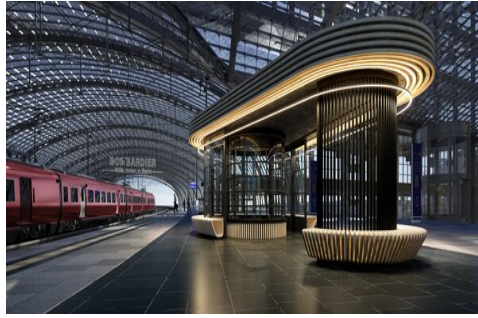


Visible Dotting from Diodes

# GIZA-DUO-LL Extrusion

Ref. A02162

## SAMPLE PROJECTS



## SIMILAR EXTRUSIONS > TRIMLESS



**KOZUS-CR Extrusion**  
A00600



**KOZUS Extrusion**  
A07823



**GIZA-LL-UST Extrusion**  
A02724



**GIZA-LL-T Extrusion**  
A02479

## SIMILAR EXTRUSIONS > SURFACE MOUNTED





**GIZA-LL Extrusion**  
A00758




**GIZA Extrusion**  
A05556

## RELATED ACCESSORIES > COVERS

NAME	KEY FEATURES	MATERIAL	MATERIAL TRANSMITTANCE	COLOR	REF.
BENCO-22 Cover <span style="background-color: red; color: white; padding: 2px;">NEW</span>	 <ul style="list-style-type: none"> <li>- For indoor and outdoor applications</li> <li>- UV resistant</li> </ul>	silicon	62 %	frosted	B17209F
LIGER-22 Cover			22 %	black	B17032B
HS-22 Cover	 <ul style="list-style-type: none"> <li>- For indoor and outdoor applications</li> <li>- Ease of obtaining a line of light</li> <li>- perfectly diffusing</li> </ul>	PC	70 %	satin	B17032S
			65 %	frosted	B17011F
			88 %	clear	B17011C
			90.5 %	microprism	B17011M

## RELATED ACCESSORIES > END CAPS

NAME	MATERIAL	COLOR	REF.
GIZA-DUO-LL End cap	 ABS	<input checked="" type="checkbox"/> black	C24372C07
		<input checked="" type="checkbox"/> gray	C24372C02
		<input checked="" type="checkbox"/> silver	C24372L01
		<input type="checkbox"/> white	C24372L10

## RELATED ACCESSORIES > RELATED LED > HIGH EFFICACY

Name	Key features	IP protection rating	Power consumption	Ref.
K-HEHD-0480-24 LED tape	<ul style="list-style-type: none"> <li>- CRI over 95</li> <li>- High Efficacy</li> </ul>	20	1.5 W/ft	K-HEHD22-0480-24 K-HEHD25-0480-24 K-HEHD27-0480-24 K-HEHD30-0480-24 K-HEHD35-0480-24 K-HEHD40-0480-24 K-HEHD50-0480-24
K-HEHD-0960-24 LED tape	<ul style="list-style-type: none"> <li>- CRI over 95</li> <li>- High Efficacy</li> </ul>	20	2.9 W/ft	K-HEHD22-0960-24 K-HEHD25-0960-24 K-HEHD27-0960-24 K-HEHD30-0960-24 K-HEHD35-0960-24 K-HEHD40-0960-24 K-HEHD50-0960-24
K-HEHD-1440-24 LED tape	<ul style="list-style-type: none"> <li>- CRI over 95</li> <li>- High Efficacy</li> </ul>	20	4.4 W/ft	K-HEHD22-1440-24 K-HEHD25-1440-24 K-HEHD27-1440-24 K-HEHD30-1440-24 K-HEHD35-1440-24 K-HEHD40-1440-24 K-HEHD50-1440-24

# GIZA-DUO-LL Extrusion

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Name	Key features	IP protection rating	Power consumption	Ref.
LED tape K-HEHD-1920-24	- CRI over 95 - High Efficacy	20	5.9 W/ft	K-HEHD22-1920-24 K-HEHD25-1920-24 K-HEHD27-1920-24 K-HEHD30-1920-24 K-HEHD35-1920-24 K-HEHD40-1920-24 K-HEHD50-1920-24
K-HEHD-0320-24 LED tape	- CRI over 95 - High Efficacy	20	1 W/ft	K-HEHD22-0320-24 K-HEHD25-0320-24 K-HEHD27-0320-24 K-HEHD30-0320-24 K-HEHD35-0320-24 K-HEHD40-0320-24 K-HEHD50-0320-24

## RELATED ACCESSORIES > RELATED LED > RGB / RGB-W / RGB-CTT

Name	Key features	IP protection rating	Power consumption	Ref.
K-RGBW-1920-120-24 LED tape	- RGBW (3000K)	20	5.9 W/ft	K-RGBW-1920-120-24
K-RGB-1200-120-24 LED tape	- RGB	20	3.7 W/ft	K-RGB-1200-120-24
K-RGB-0700-120-24 LED tape	- RGB	20	2.1 W/ft	K-RGB-0700-120-24
K-RGB27T65-1200-24 LED tape	- RGB+Tunable White	20	3.7 W/ft	K-RGB27T65-1200-24
KWP-RGB-1920-24 LED tape	- RGB	65	5.9 W/ft	KWP-RGB-1920-24
K-RGBW-1920-160-24 LED tape	- RGBW (3000K)	20	5.9 W/ft	K-RGBW-1920-160-24
KWP-GRGBW-1920-120-24 LED tape	- RGBW (3000K)	65	5.9 W/ft	KWP-GRGBW-1920-120-24

## RELATED ACCESSORIES > RELATED LED > ADJUSTABLE WHITE / DIM TO WARM

Name	Key features	IP protection rating	Power consumption	Ref.
LED tape K-27/65-1920-24V	- Tuneable white 2600K-6500K	20	5.9 W/ft	K-27/65-1920-24
LED tape KWP-30/18-1770-24		65	3.5 W/ft	KWP-30/18-1770-24
LED tape KWP-22/50-1728-24	- Tuneable white 2200K-5000K	65	5.3 W/ft	KWP-22/50-1728-24
LED tape K-30/18-1770-24V		20	3.5 W/ft	K-30/18-1770-24
LED tape K-22/50-1728-24V	- Tuneable white 2200K-5000K	20	5.3 W/ft	K-22/50-1728-24
LED tape KWP-30/18-1770-010-24		65	3.5 W/ft	KWP-30/18-1770-010-24
LED tape K-30/18-1770-010V-24V		20	3.5 W/ft	K-30/18-1770-010V-24V
LED tape KWP-G22/50-1728-24	- Tuneable white 2200K-5000K	65	5.3 W/ft	KWP-G22/50-1728-24

## RELATED ACCESSORIES > RELATED LED > CRI 95+

Name	Key features	IP protection rating	Power consumption	Ref.
LED tape K-CR-1210-24	- CRI over 95	20	1.5 W/ft	K-CR22-1210-24 K-CR25-1210-24 K-CR27-1210-24 K-CR30-1210-24 K-CR35-1210-24 K-CR40-1210-24 K-CR50-1210-24

# GIZA-DUO-LL Extrusion

Ref. A02162

Name	Key features	IP protection rating	Power consumption	Ref.
LED tape K-CR-1220-24	- CRI over 95	20	2.9 W/ft	K-CR22-1220-24 K-CR25-1220-24 K-CR27-1220-24 K-CR30-1220-24 K-CR35-1220-24 K-CR40-1220-24 K-CR50-1220-24
LED tape K-CR-1275-24	- CRI over 95	20	4.4 W/ft	K-CR22-1275-24 K-CR25-1275-24 K-CR27-1275-24 K-CR30-1275-24 K-CR35-1275-24 K-CR40-1275-24 K-CR50-1275-24
K-CRHD-1820-24 LED tape	- CRI over 95 - high LED density	20	5.6 W/ft	K-CRHD22-1820-24 K-CRHD25-1820-24 K-CRHD27-1820-24 K-CRHD30-1820-24 K-CRHD35-1820-24 K-CRHD40-1820-24 K-CRHD50-1820-24
K-CRHD-1910-24 LED tape	- CRI over 95 - high LED density	20	2.8 W/ft	K-CRHD22-1910-24 K-CRHD25-1910-24 K-CRHD27-1910-24 K-CRHD30-1910-24 K-CRHD35-1910-24 K-CRHD40-1910-24 K-CRHD50-1910-24
K-CRHD-0530-24 LED tape,	- CRI over 95	20	1.6 W/ft	K-CRHD22-0530-24 K-CRHD25-0530-24 K-CRHD27-0530-24 K-CRHD30-0530-24 K-CRHD35-0530-24 K-CRHD40-0530-24 K-CRHD50-0530-24

## RELATED ACCESSORIES > RELATED LED > BENDABLE TAPE

Name	Key features	IP protection rating	Power consumption	Ref.
K-VBT-0720-24 LED tape	- LED tape for bent profiles	20	2.2 W/ft	K-VBT27-0720-24 K-VBT30-0720-24 K-VBT35-0720-24 K-VBT40-0720-24 K-VBT50-0720-24
K-BT-0910-24 LED tape	- LED tape for bent profiles	20	2.8 W/ft	K-BT27-0910-24 K-BT30-0910-24 K-BT35-0910-24 K-BT40-0910-24 K-BT50-0910-24

## RELATED ACCESSORIES > RELATED LED > CRI 90+







Name	Key features	IP protection rating	Power consumption	Ref.
LED tape K-2400-24	- high power	20	7.3 W/ft	K-27-2400-24 K-30-2400-24 K-35-2400-24 K-40-2400-24 K-50-2400-24

Name	Key features	IP protection rating	Power consumption	Ref.
KWP-GHD-1910-24 LED tape	- high LED density	65	2.8 W/ft	KWP-GHD22-1910-24 KWP-GHD25-1910-24 KWP-GHD27-1910-24 KWP-GHD30-1910-24 KWP-GHD35-1910-24 KWP-GHD40-1910-24 KWP-GHD50-1910-24
KWP-GHD-1640-24 LED tape	- high LED density	65	5 W/ft	KWP-GHD22-1640-24 KWP-GHD25-1640-24 KWP-GHD27-1640-24 KWP-GHD30-1640-24 KWP-GHD35-1640-24 KWP-GHD40-1640-24 KWP-GHD50-1640-24
LED tape K-2400-24	- high power	20	7.3 W/ft	K-27-2400-24 K-30-2400-24 K-35-2400-24 K-40-2400-24 K-50-2400-24











## RELATED ACCESSORIES > RELATED LED

Name	Key features	IP protection rating	Power consumption	Ref.
LED tape K-0360-24 1.1 W/m, IP20 <b>NEW</b>		20	1.1 W/ft	K-27-0360-24 K-30-0360-24 K-35-0360-24 K-40-0360-24 K-50-0360-24
LED tape K-2300-24	- high power	20	7 W/ft	K-30-2300-24 K-40-2300-24
LED tape KWP-RGB-1200-24	- RGB	65	3.7 W/ft	KWP-RGB-1200-24

## RELATED ACCESSORIES > OTHER ACCESSORIES > EXTRUSION MASKING COVERS

Name	Key features	Material	Color	Ref.
MP-22 Masking cover	- Lightproof	PC	 gray metalized	C28261L01_1
			 gray metalized	C28261L01_0.25
			 white lacquered	C28261L10_1
			 white lacquered	C28261L10_0.25
			 black lacquered	C28261L07_1
			 black lacquered	C28261L07_0.25

## RELATED ACCESSORIES > OTHER ACCESSORIES > CONDUCTIVE FASTENERS AND HEADS FOR EXTRUSIONS

Name	Key features	Material	Color	Ref.
PUSZ-ZM Fastener <b>NEW</b>	- Power supply - mounting in the ZM system	stainless steel	 silver	C20010N00
		aluminum	 white lacquered	C20010L10
		aluminum	 black lacquered	C20010L07
BZP-ZZ Head		stainless steel	 gray	42215
OS22-LIN-Z Fastener	- Power supply cable	stainless steel, PA	 white	C28184L10
			 black	C28184L07
OS22-PRET-Z Fastener	- Power supply rod	PA, stainless steel	 white	C28186L10
			 black	C28186L07
OS22-DUO-PRET-Z Fastener	- Power supply cable, two poles	stainless steel, PA	 white	C28185L10
			 black	C28185L07

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Name	Key features	Material	Color	Ref.
OS22-DUO-LIN-Z Fastener	- Power supply cable, two poles	stainless steel, PA	<input type="checkbox"/> white <input type="checkbox"/> black	C28183L10 C28183L07
FI-8-LIN-ZMZ Fastener	- Power supply - mounting in the ZM system	stainless steel, steel, PA, EPDM aluminum, PA, EPDM aluminum, PA, EPDM	<input type="checkbox"/> silver <input type="checkbox"/> white <input type="checkbox"/> black	C28171N00 C28171L10 C28171L07
PUSZ-PRET-ZM Fastener	- Power supply cable - mounting in the ZM system	stainless steel, brass, nylon aluminum, brass, nylon aluminum, brass, nylon	<input type="checkbox"/> silver <input type="checkbox"/> white <input type="checkbox"/> black	C28161N00 C28161L10 C28161L07

## RELATED ACCESSORIES > OTHER ACCESSORIES > FASTENERS AND HEADS FOR EXTRUSIONS

Name	Key features	Material	Color	Ref.
BZP Head		stainless steel	<input type="checkbox"/> silver	C28113N00
FI-8-LIN-ZM Fastener	- Installation in the ZM system	stainless steel, PA	<input type="checkbox"/> silver <input type="checkbox"/> white <input type="checkbox"/> black	C28170N00 C28170L10 C28170L07
FI-10-ZM-P Fastener	- Cross mounting	stainless steel	<input type="checkbox"/> silver	C28117N00
FI-10-ZM-W Fastener		stainless steel	<input type="checkbox"/> silver	C28116N00
FI-8-PRET-ZM Fastener	- Installation in the ZM system	Material, Material, multiselect	<input type="checkbox"/> silver <input type="checkbox"/> white <input type="checkbox"/> black	C28189N00 C28189L10 C28189L07

## RELATED ACCESSORIES > OTHER ACCESSORIES > SUSPENSION AND MOUNTING SETS

Name	Key features	Material	Color	Ref.
FI-8-ZM-1 Fastener set <b>NEW</b>	- Power supply, for wall and drywall, in the ZM system	stainless steel, aluminum	<input type="checkbox"/> silver <input type="checkbox"/> white lacquered <input type="checkbox"/> black lacquered	C28134N00 C28134L10 C28134L07
FI-8-ZM-2 Fastener set <b>NEW</b>	- Convenient cable length adjustment, in the ZM system	stainless steel, aluminum	<input type="checkbox"/> silver <input type="checkbox"/> white lacquered <input type="checkbox"/> black lacquered	C28135N00 C28135L10 C28135L07
Fastener set PUSZ-ZM-1 <b>NEW</b>	- Power supply, for wall and drywall, in the ZM system	stainless steel, aluminum	<input type="checkbox"/> silver <input type="checkbox"/> white lacquered <input type="checkbox"/> black lacquered	C28130N00 C28130L10 C28130L07
Fastener set PUSZ-ZM-2 <b>NEW</b>	- Convenient cable length adjustment, in the ZM system	stainless steel, aluminum	<input type="checkbox"/> silver <input type="checkbox"/> white lacquered <input type="checkbox"/> black lacquered	C28131N00 C28131L10 C28131L07
RG-1 Fastener set	- Cable adjustment at the ceiling, cable included	brass	<input type="checkbox"/> silver glossy <input type="checkbox"/> silver satin <input type="checkbox"/> white colored <input type="checkbox"/> black colored	C28230P00 C28230P01 C28230L10 C28230L07

## RELATED ACCESSORIES > OTHER ACCESSORIES > SECURITY AND BLOCKS




Name	Key features	Material	Color	Ref.
Block ZM, gray	- Accessory locking in the ZM system	silicon	<input type="checkbox"/> gray	C28194N00

## RELATED ACCESSORIES > OTHER ACCESSORIES > CANOPIES


Name	Key features	Material	Color	Ref.
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# GIZA-DUO-LL Extrusion

Ref. A02162

Name	Key features	Material	Color	Ref.
Fi-60mm Canopy	- Convenient cable length adjustment, in the ZM system	steel	 gray lacquered	C24540L01
			 white lacquered	C24540L10
			 black lacquered	C24540L07




## RELATED ACCESSORIES > OTHER ACCESSORIES > ADDITIONAL ITEMS

Name	Key features	Material	Color	Ref.
8x1,6 Gland		rubber		C42290C07
M8x1 Gland		brass		C42265N00
DILENSO Adapter	- Necessary when using the LENS0 cover	PC	 transparent glossy	E62145

## RELATED ACCESSORIES > OTHER ACCESSORIES > CONNECTORS

Name	Material	Color	Ref.
ZM Connector	stainless steel	 silver	42716
			42717
			42720
			42728
			C28070N00
			C28071N00
			C28072N00
			C28073N00
			C28074N00
			C28075N00
C28243N00			
ZM-PION Connector	stainless steel	 silver	42314
			42316
			42320
			42718
			42719
			C28084N00
			C28085N00
			C28086N00
			C28087N00
			C28088N00

## RELATED ACCESSORIES > OTHER ACCESSORIES

Name	Material	Color	Ref.
Connector ZM-Y	stainless steel	 silver	C28082N00
ZM-X Connector	stainless steel	 silver	C28079N00
			C28080N00
			C28081N00
ZM-T Connector	stainless steel	 silver	C28076N00
			C28077N00
			C28078N00