

1

Step 1 | **the profile 70** | recessed into plasterboard

Lichtkanal 70



Note $\sqrt{3}$ L = (length + 2 × 3.0 mm + 2 mm) × 74 mm

recessed with trim into plasterboard

- aluminium profile with filigree trim
 - easy quick-mounting with clamps
 - recessed profiles with or without acrylic or prismatic covers (specular louvre available as accessories)
 - acrylic profiles with snap-in technique made from UV- and heat-resistant PMMA
 - light inserts, connection set, mechanical connectors and end covers to be ordered separately
 - colour: silver anodised, white, black
- mitre for surfaces, mitre for wall/ceiling inside, mitre for corners outside, mitre for corners inside possible
 - Apply cutting costs for mitre!

Recessed with trim into plasterboard Measurements

width of channel	70 mm
width of channel with trim	80 mm
height of channel	80 mm
width of ceiling cut-out $\sqrt{3}$	74 mm
ceiling thickness	6 - 25 mm
installation depth ET	100 mm
required installation space for clamps	max. 220 mm
thickness of end covers y	3.0 mm
length of end covers z	5.5 mm

Profile 70 with trim made-to-measure

- * suitable for workstations
- ** ideal for asymmetric light inserts

profile with acrylic diffuser	opal white	LK 002 AG/...
profile with acrylic diffuser	clear	LK 002 AK/...**
profile with acrylic diffuser protruding	opal white	LK 002 AV/...
profile with acrylic-prismatic diffuser T16	clear	LK 002 PA/...*
profile with acrylic-prismatic diffuser LED	clear	LK 002 PA-L/...*
profile without diffuser or for specular louvre		LK 002/...

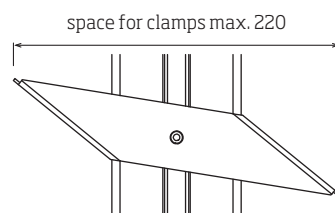
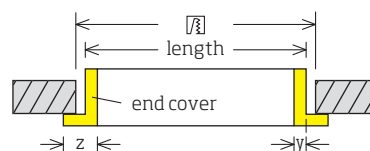
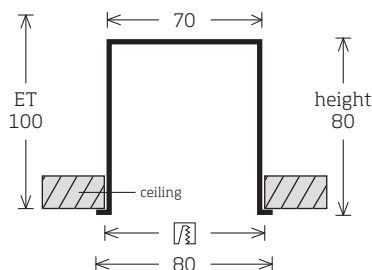
Order No.



Required accessories

Order No.

end covers (2 pieces) silver, white, black	LK 090.101.2
connection set (with earthing)	LK 090.100
longitudinal connectors (2 pieces) (×3m)	LK 090.102





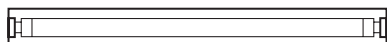
Lichtkanal 70

T16 light inserts linear / asymmetric



- light inserts with linear lamp arrangement
- ECG integral
- 5-pole terminal block, through-wired for easy installation

- LK 010: · symmetrical light distribution, white reflector made from metal
· suitable for 1 lamp luminaires or luminaires with specular louvre
- LKS 010: · asymmetrical light distribution, high-gloss reflector made from aluminium
· tool-free installation into Lichtkanal profile with turning bolts



Notes for planning:

The number of light inserts adds up to the profile length. Different wattages of same light colour can produce colour differences!

Accessories

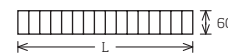
specular reflector MOR

- specular reflector MOR for maximum efficiency and light output
- tool-free inserting into light insert, fastening with turning bolts

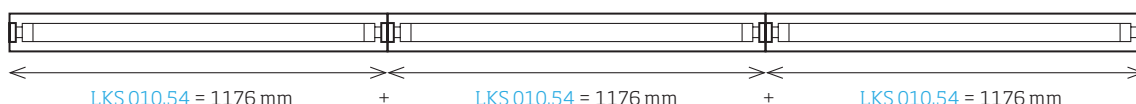


specular louvre

- high-gloss louvre made from aluminium with snap-in fastening
- length of specular louvre to be ordered according to required installation space of light inserts LK 010



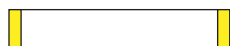
Planning example



Determine length of profiles: $1176\text{ mm} + 1176\text{ mm} + 1176\text{ mm} = \mathbf{3528\text{ mm}}$

Calculate final dimension: $3528\text{ mm} + 2 \times 4.5\text{ mm end covers}^* = \mathbf{3537\text{ mm}}$

* consider end cover thickness of selected profile!



$\overbrace{\hspace{3537\text{ mm}}}^{\text{4.5 mm} + 3528\text{ mm} + 4.5\text{ mm}}$

use only together with
acrylic diffuser clear

	LM	Wattage	Required install. space		Symmetric	MOR reflector	Specular louvre	Asymmetric
combinable	T16/G5	1×14 W	576	ECG	LK 010.14	LKSR 010.1424	LK 090.576	
			576	ECG	LK 010.24	LKSR 010.1424	LK 090.576	-
			1476	ECG	LK 010.49	LKSR 010.354980	LK 090.1476	LKS 010.49
			1476	ECG 1-10 V	LK 010.49 DIM/1-10	LKSR 010.354980	LK 090.1476	-
	T16/G5	1×24 W	576	ECG	LK 010.24	LKSR 010.1424	LK 090.576	-
			1476	ECG DALI	LK 010.49 DIM/DALI	LKSR 010.354980	LK 090.1476	LKS 010.49 DIM/DALI
			1476	ECG digital	LK 010.49 DIM/DIG	LKSR 010.354980	LK 090.1476	-
			876	ECG	LK 010.21	LKSR 010.2139	LK 090.876	LKS 010.21
	T16/G5	1×21 W	876	ECG 1-10 V	LK 010.21 DIM/1-10	LKSR 010.2139	LK 090.876	-
			876	ECG DALI	LK 010.21 DIM/DALI	LKSR 010.2139	LK 090.876	LKS 010.21 DIM/DALI
			876	ECG digital	LK 010.21 DIM/DIG	LKSR 010.2139	LK 090.876	-
			1176	ECG	LK 010.28	LKSR 010.2854	LK 090.1176	LKS 010.28
T16/G5	1×28 W	1176	ECG 1-10 V	LK 010.28 DIM/1-10	LKSR 010.2854	LK 090.1176	-	
		1176	ECG DALI	LK 010.28 DIM/DALI	LKSR 010.2854	LK 090.1176	LKS 010.28 DIM/DALI	
		1176	ECG digital	LK 010.28 DIM/DIG	LKSR 010.2854	LK 090.1176	-	
		1476	ECG	LK 010.35	LKSR 010.354980	LK 090.1476	LKS 010.35	
T16/G5	1×35 W	1476	ECG 1-10 V	LK 010.35 DIM/1-10	LKSR 010.354980	LK 090.1476	-	
		1476	ECG DALI	LK 010.35 DIM/DALI	LKSR 010.354980	LK 090.1476	LKS 010.35 DIM/DALI	
		1476	ECG digital	LK 010.35 DIM/DIG	LKSR 010.354980	LK 090.1476	-	
		876	ECG	LK 010.39	LKSR 010.2139	LK 090.876	LKS 010.39	
T16/G5	1×39 W	876	ECG 1-10 V	LK 010.39 DIM/1-10	LKSR 010.2139	LK 090.876	-	
		876	ECG DALI	LK 010.39 DIM/DALI	LKSR 010.2139	LK 090.876	LKS 010.39 DIM/DALI	
		876	ECG digital	LK 010.39 DIM/DIG	LKSR 010.2139	LK 090.876	-	
		1176	ECG	LK 010.54	LKSR 010.2854	LK 090.1176	LKS 010.54	
T16/G5	1×54 W	1176	ECG 1-10 V	LK 010.54 DIM/1-10	LKSR 010.2854	LK 090.1176	-	
		1176	ECG DALI	LK 010.54 DIM/DALI	LKSR 010.2854	LK 090.1176	LKS 010.54 DIM/DALI	
		1176	ECG digital	LK 010.54 DIM/DIG	LKSR 010.2854	LK 090.1176	-	
		1476	ECG	LK 010.80	LKSR 010.354980	LK 090.1476	LKS 010.80	
T16/G5	1×80 W	1476	ECG 1-10 V	LK 010.80 DIM/1-10	LKSR 010.354980	LK 090.1476	-	
		1476	ECG DALI	LK 010.80 DIM/DALI	LKSR 010.354980	LK 090.1476	LKS 010.80 DIM/DALI	
		1476	ECG digital	LK 010.80 DIM/DIG	LKSR 010.354980	LK 090.1476	-	

2

Step 2 | **light inserts 70** | T16 | overlapping

T16 light inserts overlapping



- for multi-lamp luminaire
- light inserts with diagonal overlapping lamp arrangement for consistent lit surface, symmetrical light distribution
- white reflector made from metal
- tool-free installation into Lichtkanal profile with turning bolts
- ECG integral
- 5-pole terminal block, through-wired for easy installation



Notes for planning:

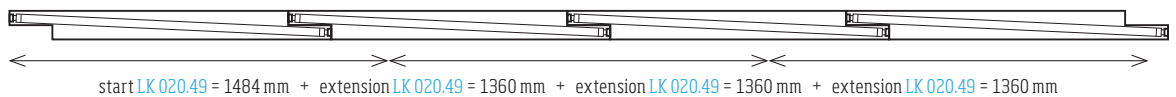
The number of light inserts adds up to the profile length. Different wattages of same light colour can produce colour differences!

Accessories

specular reflector MOR

- specular reflector MOR for maximum efficiency and light output
- tool-free inserting into light insert, fastening with turning bolts

Planning example



Determine length of profiles: 1484 mm + 1360 mm + 1360 mm + 1360 mm = **5564 mm**

Calculate final dimension: 5564 mm + 2 × 4.5 mm end covers* = **5573 mm**

Compensation dimensions per light insert: 10 mm

* consider end cover thickness of selected profile!

← 4.5 mm + 5564 mm + 4.5 mm →

	LM	Wattage	Start Required install. space	Extension Required install. space		Order No.	MOR reflector		
combinable		T16/G5 1 × 14 W	584	460	ECG	LK 020.14	LKSR 020.1424		
			584	460	ECG	LK 020.24	LKSR 020.1424		
			1484	1360	ECG	LK 020.49	LKSR 020.354980		
			1484	1360	ECG 1-10 V	LK 020.49 DIM/1-10	LKSR 020.354980		
	combinable		T16/G5 1 × 24 W	1484	1360	ECG DALI	LK 020.49 DIM/DALI	LKSR 020.354980	
				1484	1360	ECG digital	LK 020.49 DIM/DIG	LKSR 020.354980	
				1 × 21 W	884	760	ECG	LK 020.21	LKSR 020.2139
					884	760	ECG 1-10 V	LK 020.21 DIM/1-10	LKSR 020.2139
		884	760		ECG DALI	LK 020.21 DIM/DALI	LKSR 020.2139		
		884	760		ECG digital	LK 020.21 DIM/DIG	LKSR 020.2139		
		1 × 28 W	1184	1060	ECG	LK 020.28	LKSR 020.2854		
			1184	1060	ECG 1-10 V	LK 020.28 DIM/1-10	LKSR 020.2854		
1184			1060	ECG DALI	LK 020.28 DIM/DALI	LKSR 020.2854			
1184			1060	ECG digital	LK 020.28 DIM/DIG	LKSR 020.2854			
1 × 35 W		1484	1360	ECG	LK 020.35	LKSR 020.354980			
		1484	1360	ECG 1-10 V	LK 020.35 DIM/1-10	LKSR 020.354980			
	1484	1360	ECG DALI	LK 020.35 DIM/DALI	LKSR 020.354980				
	1484	1360	ECG digital	LK 020.35 DIM/DIG	LKSR 020.354980				
combinable		T16/G5 1 × 39 W	884	760	ECG	LK 020.39	LKSR 020.2139		
			884	760	ECG 1-10 V	LK 020.39 DIM/1-10	LKSR 020.2139		
			884	760	ECG DALI	LK 020.39 DIM/DALI	LKSR 020.2139		
			884	760	ECG digital	LK 020.39 DIM/DIG	LKSR 020.2139		
	1 × 54 W	1184	1060	ECG	LK 020.54	LKSR 020.2854			
		1184	1060	ECG 1-10 V	LK 020.54 DIM/1-10	LKSR 020.2854			
		1184	1060	ECG DALI	LK 020.54 DIM/DALI	LKSR 020.2854			
		1184	1060	ECG digital	LK 020.54 DIM/DIG	LKSR 020.2854			
	1 × 80 W	1484	1360	ECG	LK 020.80	LKSR 020.354980			
		1484	1360	ECG 1-10 V	LK 020.80 DIM/1-10	LKSR 020.354980			
		1484	1360	ECG DALI	LK 020.80 DIM/DALI	LKSR 020.354980			
		1484	1360	ECG digital	LK 020.80 DIM/DIG	LKSR 020.354980			