



# TREVOS

joint-stock company

Czech company situated in north-east Bohemia

Since the foundation in 1990 TREVOS company orientates itself to a serial production of fluorescent lighting fittings



The company is situated in production premises „Valdštejsko“ near Turnov and is concentrated on production of plastic and metal components for lighting fittings and their assembly.

High quality of products results from introduced system of quality management according to EN ISO 9001:2000 standards.



Complete lighting fittings and sets of components for own assembly are distributed to customers in 40 countries all over the world.



PLASTIC AND METAL  
INDUSTRIAL WATERPROOF  
LUMINAIRES

PRIMA  
5  IP66

PRIMA II  
8  IP66

PRIMA T5  
10  IP66

PRIMA ta60  
12  IP66

PRIMA TRS  
12  IP66

PRIMA ABS  
14  IP66

PRIMA LED  
16  IP66

PRIMA ta-40  
17  IP66

PRIMA-Ex  
18  IP66

PROFI  
23  IP65

PROFI T5  
26  IP65

KBA  
30  IP54

PER  
35  IP65

PERUN  
38  IP66

PERUN T5  
40  IP66

PERUN ta60  
41  IP66

PERUN ta-40  
42  IP66


ALUMAX  
43  IP65


ALUMAX T5  
45  IP65

ST  
46  IP20

ST T5  
48  IP20

INDOOR PLASTIC  
LUMINAIRES

BELTR  
51  IP40

BELTR T5  
54  IP40

SM  
56  IP40

SM ALS  
60  IP54

SM NOVA  
62  IP40

SMO  
65  IP40

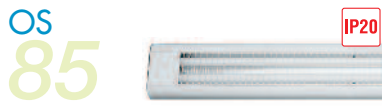
SK  
67  IP54

SK DROP  
72  IP55

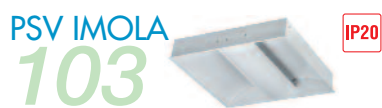
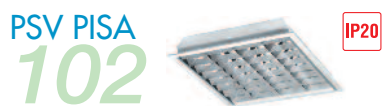
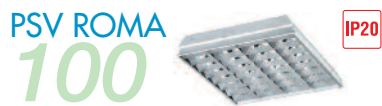
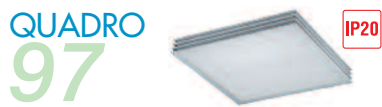
SB  
73  IP20

SBK T5  
75  IP20

INDOOR MODULAR  
LUMINAIRES



INDOOR RECESSED  
AND SURFACE MOUNTED  
LUMINAIRES













































EMERGENCY LUMINAIRES



INFORMATION  
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# Marks and symbols used

	Declaration of Conformity mark indicates that the conformity of a product with all the regulations of EU has been approved		Suitable for industrial areas, production and agricultural plants, storage halls, garages		- linear fluorescent tubes T8 d 26 mm, G13 lampholders
	Licence mark symbolizing the conformity of the properties of a given product with the european standards for electrical safety		Suitable for interiors of offices, schools or hospitals		- linear fluorescent tubes T5 d 16 mm, G5 lampholders
	Registered mark of GENELEC as a czech mark indicating a permanent conformity with the standards for electrical safety		Suitable for shops and shopping centers		- circular fluorescent tubes d 26 mm, G10q lampholders
	Internationally acknowledged certificate. The certification according to IEC standards		Suitable for corridors, stairs and entrance halls		- compact fluorescent tubes PL, G23 lampholders
	Mark for electromagnetic compatibility, indicating the conformity of a product with the requirements of EMC standards		Suitable for restaurants, dining halls or public areas		for connection of three wires into a screwless terminal block 2.5 mm <sup>2</sup>
	(Ingress Protection) The code determining the level of safety against water, dust or solid objects penetration		Suitable for car-washes or wet environments		for connection of three wires into a screw terminal block 2.5 mm <sup>2</sup>
	Protected against dust		Suitable for sports halls and sports facilities		Use of heat resistant supply cables, connecting cables or external supply
	Dustproof		Suitable for kitchen units		Electric equipment: with electromagnetic ballast
	Protected against splashing water		suitable for using in ambient with a danger of explosion of flammable gas and vapour		Electric equipment: with electronic ballast
	Protected against jetting water		suitable for using in garages and store rooms		Electric equipment: with dimmable electronic ballast
	Rated values of a voltage system				Electric equipment: with maintained emergency source
	Luminaires suitable for direct mounting on a normally flammable surfaces				Level of impact resistance (Joules)
	Luminaires of the class I. - basic insulation plus earthing terminal				Glow wire test at 650 °C PMMA - diffuser
	Luminaires of class II				Glow wire test at 850 °C PC - diffuser
	Rated highest ambient temperature				1 phase throughwiring
	luminaires for using in ambient with a danger of explosion				3 phase throughwiring



# PRIMA

INDUSTRIAL WATERPROOF,  
DUSTPROOF AND IMPACT  
RESISTANT

Fluorescent lighting fittings



#### Use:

Industrial indoor and outdoor areas, sports grounds, workshops, garages, agricultural buildings, warehouses and laboratories without danger of explosion of gas and flammable vapour.

Lighting fittings are resistant to dust, damp and jetting water and in modification with PC diffuser have high impact resistance.

In corrosive environment it is necessary to have respect to possible fumes which reduce the applicability of plastics.

#### Description, optics:

The **body** is made by injection of impact and heat resistant polycarbonate of grey colour. The body is fitted with flush clips for the fixing of the diffuser. The clips are made of polyamid with fibreglass. Optionally the stainless steel clips are available.

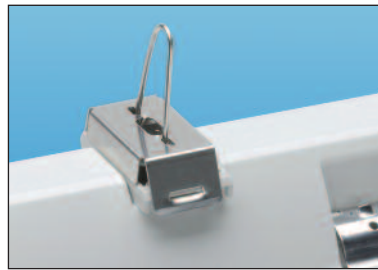
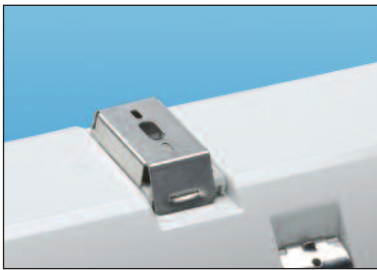
The IP protection is provided with polyurethan sealing injected in the body. The fitting's **reflector** is produced of a steel sheet. It is powder coated with white colour in automatic spraying line. The reflector is clicked into the body through a distance holder made of polyamid.

At the installation higher than 6 m it is recommended to fit the luminaire with an additional parabolic aluminium reflector (PAR) which alter the luminous flux.

The **diffuser** is made by injection of plastics in two options:

- transparent acrylic – marked **AC** – UV stabilized
- transparent polycarbonate – marked **PC** – UV stabilized with a very high impact resistance



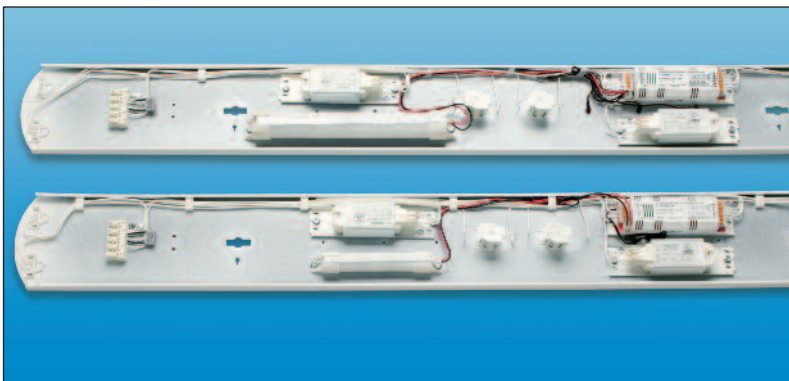


The way of fitting's suspension:

- directly on a surface (also flammable) using stainless steel brackets
- using stainless steel hooks delivered as standard accessories



Hanging of the reflector during installation and repair.

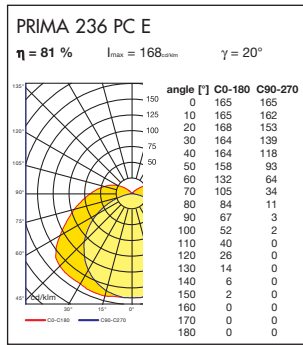
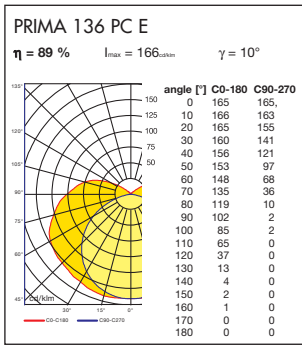


Maintained emergency luminaire  
 - with 3 hrs emergency source  
 - with 1 hr emergency source

#### Modifications:

- (code 90xx0) – The **basic type** is LPF wired, equipped with a radio-interference capacitor, starters, a screwless three-pole terminal block, 2 pcs of metal suspension sets and two cable glands
  - (code 90xx1) – **HPF wired** - the lighting fitting can be additionally compensated with parallel compensating capacitor
  - (code 90xx2) – **Through wired** - for the installation of the luminaires into rows. The luminaire is fitted with 1 phase or 3 phase wiring (1.5 mm<sup>2</sup>) and additional terminal block. (18W lighting fittings are not produced in this modification). 2.5 mm<sup>2</sup> through wiring available on demand.
  - (code 90xx3) – **Through wired and compensated**
  - (code 90xx5) – **With electronic ballast for T8 lamps** – suitable for the installation where the luminaires are constantly working
  - (code 90xx6) - **With electronic ballast for T8 lamps and through wired**
  - (code 90xx7) – **With dimmable electronic ballast** – the luminaire is equipped and adapted for using of an automatic dimming control. Analogue (DIM) or digital (DALI) dimmable ballasts are available
  - (code 90xx8) – **Maintained emergency lighting fittings** – with an independent emergency source is running under usual conditions as other fittings. After power interruption it starts to run in the emergency mode. Only one tube is working with double-tube fitting then.
    - marked **M1h** – with 1 hr emergency source – battery capacity 1,5 Ah
    - marked **M3h** – with 3 hrs emergency source – battery capacity 4,0 Ah
  - (code 90xx9) – **Non-maintained emergency lighting fitting** – is working only after power interruption
- Delivery of plastic and metal components for customers' own assembly is available.





Order code	Type	Light sources	Luminous efficiency	Net weight	Dimensions	
		W	%	kg	A	D
<b>acrylic diffuser (AC)</b>						
90110	PRIMA 118 AC	1x18	T8/G13	92	1,3	662 350
90120	PRIMA 136 AC	1x36	T8/G13	92	2,2	1272 700
90130	PRIMA 158 AC	1x58	T8/G13	90	2,9	1572 940
90140	PRIMA 218 AC	2x18	T8/G13	85	2,0	662 350
90150	PRIMA 236 AC	2x36	T8/G13	84	3,5	1272 700
90160	PRIMA 258 AC	2x58	T8/G13	82	4,7	1572 940
<b>acrylic diffuser (AC) – with electronic ballast</b>						
90115	PRIMA 118 AC E	1x18	T8/G13	92	1,0	662 350
90125	PRIMA 136 AC E	1x36	T8/G13	92	1,8	1272 700
90135	PRIMA 158 AC E	1x58	T8/G13	90	2,3	1572 940
90145	PRIMA 218 AC E	2x18	T8/G13	85	1,6	662 350
90155	PRIMA 236 AC E	2x36	T8/G13	84	2,7	1272 700
90165	PRIMA 258 AC E	2x58	T8/G13	82	3,7	1572 940
<b>polycarbonate diffuser (PC) - impact resistant</b>						
90310	PRIMA 118 PC	1x18	T8/G13	89	1,3	662 350
90320	PRIMA 136 PC	1x36	T8/G13	89	2,2	1272 700
90330	PRIMA 158 PC	1x58	T8/G13	87	2,9	1572 940
90340	PRIMA 218 PC	2x18	T8/G13	82	2,0	662 350
90350	PRIMA 236 PC	2x36	T8/G13	81	3,5	1272 700
90360	PRIMA 258 PC	2x58	T8/G13	79	4,7	1572 940
<b>polycarbonate diffuser (PC) - impact resistant with electronic ballast</b>						
90315	PRIMA 118 PC E	1x18	T8/G13	89	1,0	662 350
90325	PRIMA 136 PC E	1x36	T8/G13	89	1,8	1272 700
90335	PRIMA 158 PC E	1x58	T8/G13	87	2,3	1572 940
90345	PRIMA 218 PC E	2x18	T8/G13	82	1,6	662 350
90355	PRIMA 236 PC E	2x36	T8/G13	81	2,7	1272 700
90365	PRIMA 258 PC E	2x58	T8/G13	79	3,7	1572 940

902xx modification **ACc** – acrylic diffuser – with stainless steel clips  
 904xx modification **PCc** – polycarbonate diffuser – with stainless steel clips

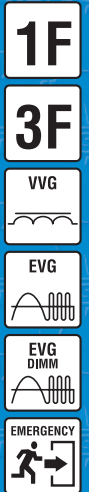
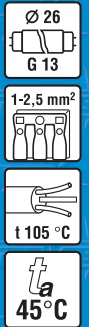
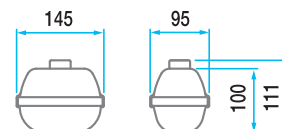
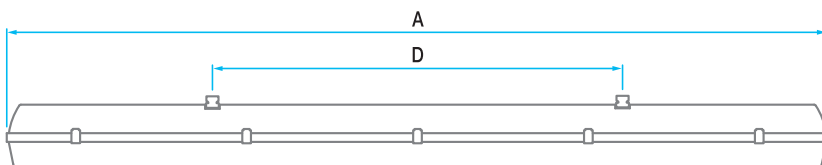


Modification with screw cable glands – Pg 13,5.



Stainless steel clip (c).

Clips made of polyamid filled with fibreglass





# PRIMA II



IP66



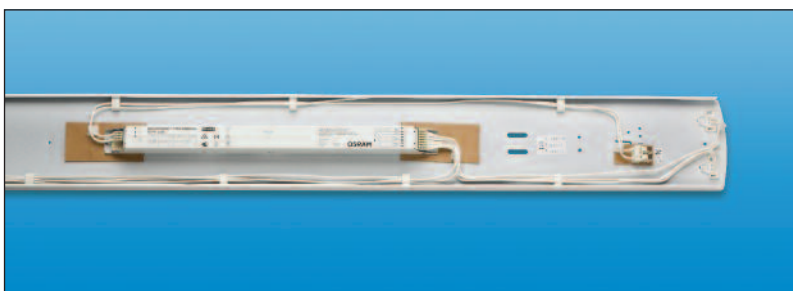
230 V  
50 Hz



Clips made of polyamid filled with fibreglass.  
It can be blocked with a screw to be able to achieve class II insulation.



Stainless steel clip (c)  
It can be blocked with a screw to be able to achieve class II insulation.



Order code	Type	Light sources		Luminous efficiency %	Net weight kg	Dimensions mm	
		W	H			A	D
acrylic diffuser (AC) – with electronic ballast							
92115	PRIMA II 118 AC E	1x18	T8/G13	92	1,0	662	350
92125	PRIMA II 136 AC E	1x36	T8/G13	92	1,8	1272	700
92135	PRIMA II 158 AC E	1x58	T8/G13	90	2,3	1572	940
92145	PRIMA II 218 AC E	2x18	T8/G13	85	1,6	662	350
92155	PRIMA II 236 AC E	2x36	T8/G13	84	2,7	1272	700
92165	PRIMA II 258 AC E	2x58	T8/G13	82	3,7	1572	940

922x5 modification ACc – acrylic diffuser – with stainless steel clips and electronic ballast

923x5 modification PC – polycarbonate diffuser – with plastic clips

924x5 modification Pcc – polycarbonate diffuser – with stainless steel clips and electronic ballast





# PRIMA - T5



IP66



230 V  
50 Hz



## Modification with electronic ballast T5

- in high efficiency range
- in high output range
- energy efficiency index EEI=A2
- the consumption of electric energy is lower up to 10 % in comparison with T8 electronic ballast and up to 40 % with magnetic ballast
- with smaller fluorescent tubes' diameter (16 mm) and with the change of max. luminous flux temperature from 25 °C to 35 °C it is achieved higher luminous efficiency by 10-14 %

## Modification with electronic ballast T5 Intelligent

Intelligent recognition of HE or HO fluorescent tubes enables application of tubes of the same length but different output

HE 14W + HO 24W	549 mm
HE 28W + HO 54W	1149 mm
HE 35W + HO 49W + HO 80 W	1449 mm

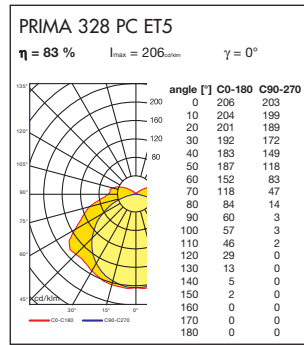
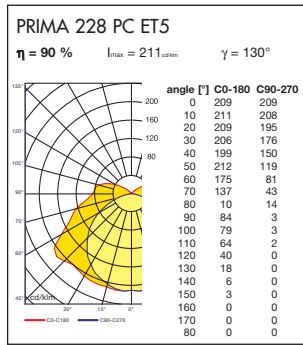
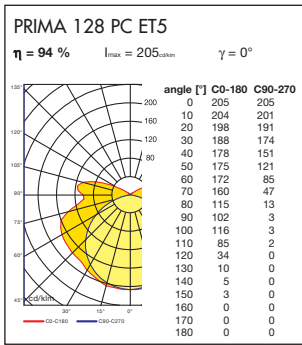
## Modification with dimmable electronic ballast T5

- operated with analogue signal - 1-10V
- operated with digital DALI system or with Touch DIM function
- energy efficiency index EEI=A1
- it is possible to spare up to 80 % of the consumption of electric energy by the dimming based on the daylight intensity

## Modification with electronic ballast T5 HO – PAR

- high output modification with parabolic reflector enables to concentrate the luminous flux into deeper curve. It reaches sufficient illumination in halls with height up to 10 m.

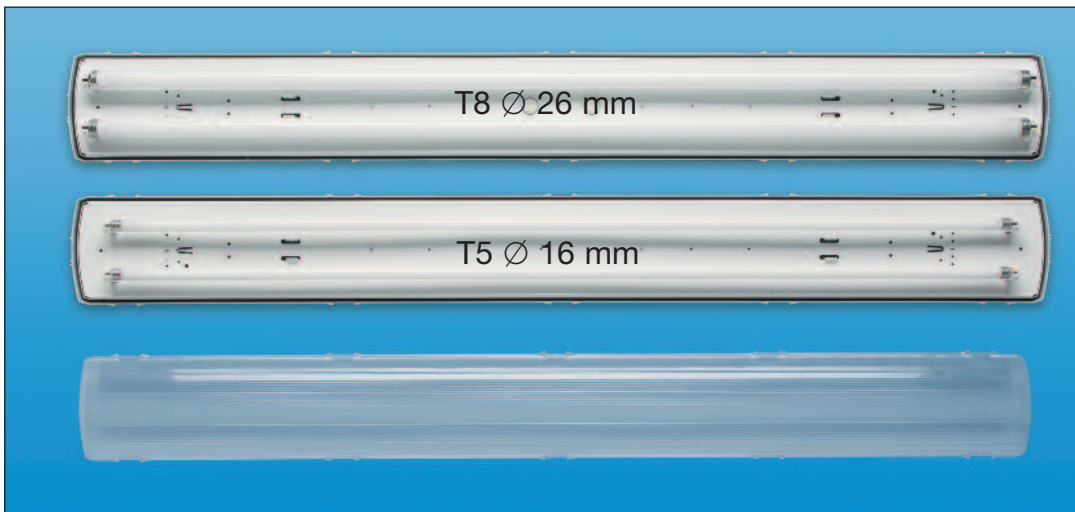




Order code	Type	Light sources		Luminous efficiency	Net weight	Dimensions	
		W		%		A	D
<b>acrylic diffuser (AC) – with electronic ballast – high efficiency range</b>							
90510	PRIMA 114 AC ET5	1x14	T5/G5	97	1,0	662	350
90520	PRIMA 128 AC ET5	1x28	T5/G5	97	1,8	1272	700
90530	PRIMA 135 AC ET5	1x35	T5/G5	96	2,3	1572	940
90540	PRIMA 214 AC ET5	2x14	T5/G5	93	1,7	662	350
90550	PRIMA 228 AC ET5	2x28	T5/G5	93	2,7	1272	700
90560	PRIMA 235 AC ET5	2x35	T5/G5	92	3,7	1572	940
90500	PRIMA 328 AC ET5	3x28	T5/G5	85	3,9	1272	700
<b>acrylic diffuser (AC) – with electronic ballast – high output range</b>							
90515	PRIMA 124 AC ET5	1x24	T5/G5	91	1,0	662	350
90525	PRIMA 154 AC ET5	1x54	T5/G5	90	1,8	1272	700
90535	PRIMA 180 AC ET5	1x80	T5/G5	88	2,3	1572	940
90575	PRIMA 149 AC ET5	1x49	T5/G5	91	2,3	1572	940
90545	PRIMA 224 AC ET5	2x24	T5/G5	87	1,7	662	350
90555	PRIMA 254 AC ET5	2x54	T5/G5	86	2,7	1272	700
90565	PRIMA 280 AC ET5	2x80	T5/G5	84	3,7	1572	940
90585	PRIMA 249 AC ET5	2x49	T5/G5	87	3,7	1572	940
<b>polycarbonate diffuser (PC) - impact resistant with el. ballast – high efficiency range</b>							
90710	PRIMA 114 PC ET5	1x14	T5/G5	94	1,0	662	350
90720	PRIMA 128 PC ET5	1x28	T5/G5	94	1,8	1272	700
90730	PRIMA 135 PC ET5	1x35	T5/G5	93	2,3	1572	940
90740	PRIMA 214 PC ET5	2x14	T5/G5	90	1,7	662	350
90750	PRIMA 228 PC ET5	2x28	T5/G5	90	2,7	1272	700
90760	PRIMA 235 PC ET5	2x35	T5/G5	89	3,7	1572	940
90700	PRIMA 328 PC ET5	3x28	T5/G5	83	3,9	1272	700
<b>polycarbonate diffuser (PC) - impact resistant with el. ballast – high output range</b>							
90715	PRIMA 124 PC ET5	1x24	T5/G5	88	1,0	662	350
90725	PRIMA 154 PC ET5	1x54	T5/G5	87	1,8	1272	700
90735	PRIMA 180 PC ET5	1x80	T5/G5	85	2,3	1572	940
90775	PRIMA 149 PC ET5	1x49	T5/G5	88	2,3	1572	940
90745	PRIMA 224 PC ET5	2x24	T5/G5	84	1,7	662	350
90755	PRIMA 254 PC ET5	2x54	T5/G5	83	2,7	1272	700
90765	PRIMA 280 PC ET5	2x80	T5/G5	81	3,7	1572	940
90785	PRIMA 249 PC ET5	2x49	T5/G5	84	3,7	1572	940

906xx modification T5 ACc – acrylic diffuser – with stainless steel clips and electronic ballast  
 908xx modification T5 Pcc – polycarbonate diffuser – with stainless steel clips and electronic ballast

- Maximum ambient temperature with T5 HO range is decreased to 35 °C.



**1F**  
**3F**

# PRIMA-TRS

INDUSTRIAL WATERPROOF, DUSTPROOF  
AND IMPACT RESISTANT  
fluorescent lighting fittings for direct and indirect illumination DI-IN



**Use:**

PRIMA TRS range is suitable for direct and indirect illumination in premises with low suspension height.

The body and diffuser are made by injection of transparent polycarbonate. The reflector is made of white powder coated steel sheet and is adapted to indirect illumination.





Order code	Type	Light sources		Luminous efficiency %	Net weight kg	Dimensions mm	
		W				A	D
35310	PRIMA 118 TRS PC	1x18	T8/G13	92	1,3	662	350
35320	PRIMA 136 TRS PC	1x36	T8/G13	92	2,2	1272	700
35330	PRIMA 158 TRS PC	1x58	T8/G13	90	2,9	1572	940
35340	PRIMA 218 TRS PC	2x18	T8/G13	85	2,0	662	350
35350	PRIMA 236 TRS PC	2x36	T8/G13	84	3,5	1272	700
35360	PRIMA 258 TRS PC	2x58	T8/G13	82	4,7	1572	940
<b>with electronic ballast</b>							
35315	PRIMA 118 TRS PC E	1x18	T8/G13	92	1,0	662	350
35325	PRIMA 136 TRS PC E	1x36	T8/G13	92	1,8	1272	700
35335	PRIMA 158 TRS PC E	1x58	T8/G13	90	2,3	1572	940
35345	PRIMA 218 TRS PC E	2x18	T8/G13	85	1,6	662	350
35355	PRIMA 236 TRS PC E	2x36	T8/G13	84	2,7	1272	700
35365	PRIMA 258 TRS PC E	2x58	T8/G13	82	3,7	1572	940

354xx modification PCc – with stainless steel clips

Order code	Type	Light sources		Luminous efficiency %	Net weight kg	Dimensions mm	
		W				A	D
<b>with T5 electronic ballast – high efficiency range</b>							
35710	PRIMA 114 TRS PC ET5	1x14	T5/G5	97	1,0	662	350
35720	PRIMA 128 TRS PC ET5	1x28	T5/G5	97	1,8	1272	700
35730	PRIMA 135 TRS PC ET5	1x35	T5/G5	96	2,3	1572	940
35740	PRIMA 214 TRS PC ET5	2x14	T5/G5	93	1,7	662	350
35750	PRIMA 228 TRS PC ET5	2x28	T5/G5	93	2,7	1272	700
35760	PRIMA 235 TRS PC ET5	2x35	T5/G5	92	3,7	1572	940
<b>with T5 electronic ballast – high output range</b>							
35715	PRIMA 124 TRS PC ET5	1x24	T5/G5	91	1,0	662	350
35725	PRIMA 154 TRS PC ET5	1x54	T5/G5	90	1,8	1272	700
35735	PRIMA 180 TRS PC ET5	1x80	T5/G5	88	2,3	1572	940
35775	PRIMA 149 TRS PC ET5	1x49	T5/G5	91	2,3	1572	940
35745	PRIMA 224 TRS PC ET5	2x24	T5/G5	87	1,7	662	350
35755	PRIMA 254 TRS PC ET5	2x54	T5/G5	86	2,7	1272	700
35765	PRIMA 280 TRS PC ET5	2x80	T5/G5	84	3,7	1572	940
35785	PRIMA 249 TRS PC ET5	2x49	T5/G5	87	3,7	1572	940

358xx modification T5 PCc – with stainless steel clips





# PRIMA ABS

## INDUSTRIAL WATERPROOF AND DUSTPROOF

fluorescent lighting fittings  
chemically resistant modification

### Use:

PRIMA ABS luminaires are evaluated for their resistance to an ambient containing fume of ammonia, lyes, alkalic compounds or hot water. Since such fume reduces the resistance of plastics it is necessary to keep a respect to fume's concentration.

The luminaires are suitable for agricultural buildings, stables, car washes and warehouses without a danger of flammable gas and vapour explosion.

**The body** is made by injection of ABS.

**The diffuser** is made by injection of transparent acrylate.



Order code	Type	Light sources		Luminous efficiency %	Net weight kg	Dimensions mm	
		W				A	D
35110	PRIMA 118 ABS AC	1x18	T8/G13	92	1,3	662	350
35120	PRIMA 136 ABS AC	1x36	T8/G13	92	2,2	1272	700
35130	PRIMA 158 ABS AC	1x58	T8/G13	90	2,9	1572	940
35140	PRIMA 218 ABS AC	2x18	T8/G13	85	2,0	662	350
35150	PRIMA 236 ABS AC	2x36	T8/G13	84	3,5	1272	700
35160	PRIMA 258 ABS AC	2x58	T8/G13	82	4,7	1572	940
<b>with electronic ballast</b>							
35115	PRIMA 118 ABS AC E	1x18	T8/G13	92	1,0	662	350
35125	PRIMA 136 ABS AC E	1x36	T8/G13	92	1,8	1272	700
35135	PRIMA 158 ABS AC E	1x58	T8/G13	90	2,3	1572	940
35145	PRIMA 218 ABS AC E	2x18	T8/G13	85	1,6	662	350
35155	PRIMA 236 ABS AC E	2x36	T8/G13	84	2,7	1272	700
35165	PRIMA 258 ABS AC E	2x58	T8/G13	82	3,7	1572	940

352xx modification **ACc** – with stainless steel clips



Order code	Type	Light sources		Luminous efficiency %	Net weight kg	Dimensions mm	
		W				A	D
<b>with T5 electronic ballast – high efficiency range</b>							
35510	PRIMA 114 ABS AC ET5	1x14	T5/G5	97	1,0	662	350
35520	PRIMA 128 ABS AC ET5	1x28	T5/G5	97	1,8	1272	700
35530	PRIMA 135 ABS AC ET5	1x35	T5/G5	96	2,3	1572	940
35540	PRIMA 214 ABS AC ET5	2x14	T5/G5	93	1,7	662	350
35550	PRIMA 228 ABS AC ET5	2x28	T5/G5	93	2,7	1272	700
35560	PRIMA 235 ABS AC ET5	2x35	T5/G5	92	3,7	1572	940
<b>with T5 electronic ballast – high output range</b>							
35515	PRIMA 124 ABS AC ET5	1x24	T5/G5	91	1,0	662	350
35525	PRIMA 154 ABS AC ET5	1x54	T5/G5	90	1,8	1272	700
35535	PRIMA 180 ABS AC ET5	1x80	T5/G5	88	2,3	1572	940
35575	PRIMA 149 ABS AC ET5	1x49	T5/G5	91	2,3	1572	940
35545	PRIMA 224 ABS AC ET5	2x24	T5/G5	87	1,7	662	350
35555	PRIMA 254 ABS AC ET5	2x54	T5/G5	86	2,7	1272	700
35565	PRIMA 280 ABS AC ET5	2x80	T5/G5	84	3,7	1572	940
35585	PRIMA 249 ABS AC ET5	2x49	T5/G5	87	3,7	1572	940

356xx modification **T5 ACc** – with stainless steel clips

# PRIMA ta60

INDUSTRIAL WATERPROOF, DUSTPROOF  
AND IMPACT RESISTANT

fluorescent lighting fittings for *higher ambient temperature ta 60 °C*



#### Use:

PRIMA PC ta60 luminaires are suitable for illumination of indoor industrial areas with a maximum ambient temperature 60 °C.

In corrosive environment it is necessary to have respect to possible fumes which reduce the applicability of plastics.

#### Description:

The luminaires are wired with halogen free wire with temperature resistance up to +110 °C.

Higher temperature resistant electromagnetic ballast is used.

Order code	Type	Light sources		Luminous efficiency %	Net weight kg	Dimensions mm	
		W	T8/G13			A	D
clips made of polyamid with fibreglass							
39310	PRIMA 118 PC ta60	1x18	T8/G13	89	1,3	662	350
39320	PRIMA 136 PC ta60	1x36	T8/G13	89	2,2	1272	700
39330	PRIMA 158 PC ta60	1x58	T8/G13	87	2,9	1572	940
39340	PRIMA 218 PC ta60	2x18	T8/G13	82	2,0	662	350
39350	PRIMA 236 PC ta60	2x36	T8/G13	81	3,5	1272	700
39360	PRIMA 258 PC ta60	2x58	T8/G13	79	4,7	1572	940
clips made of stainless steel							
39410	PRIMA 118 PCc ta60	1x18	T8/G13	89	1,3	662	350
39420	PRIMA 136 PCc ta60	1x36	T8/G13	89	2,2	1272	700
39430	PRIMA 158 PCc ta60	1x58	T8/G13	87	2,9	1572	940
39440	PRIMA 218 PCc ta60	2x18	T8/G13	82	2,0	662	350
39450	PRIMA 236 PCc ta60	2x36	T8/G13	81	3,5	1272	700
39460	PRIMA 258 PCc ta60	2x58	T8/G13	79	4,7	1572	940



IP65



230 V  
50 Hz



Ø 26  
G 13

1-2,5 mm<sup>2</sup>

t 110 °C

ta  
60 °C

PC  
850 °C

1F

3F

VVG



# PRIMA LED

INDUSTRIAL WATERPROOF, DUSTPROOF  
AND IMPACT RESISTANT  
fluorescent lighting fittings with LEDs



## Use:

Fluorescent PRIMA LED luminaires are suitable for illumination of areas with low ambient temperature. The lifetime of LEDs is not reduced with often switching.

## Description:

The luminaires are equipped with high efficiency LED tubes (Ø 28 mm) with long service life.

The tubes have cooling aluminium profile and opal plastic cover.

Lampholder: GU10.

Order code	Type	Light sources	Luminous flux	Number of LEDs	Net weight kg	Dimensions mm	
		W	lm			A	D
with LEDs 6000 K daylight							
37313	PRIMA PC LED 110	1x10	735	128	0,7	662	350
37323	PRIMA PC LED 120	1x20	1534	256	1,5	1272	700
37333	PRIMA PC LED 125	1x25	1800	320	2,0	1572	940
37343	PRIMA PC LED 210	2x10	1470	256	1,3	662	350
37353	PRIMA PC LED 220	2x20	3068	512	2,4	1272	700
37363	PRIMA PC LED 225	2x25	3600	640	3,4	1572	940

373x1 modification LED 3000 K – warm white

373x2 modification LED 4000 K – cool white

374xx modification with stainless steel clips



# PRIMA t<sub>a</sub>-40

INDUSTRIAL WATERPROOF,  
DUSTPROOF AND IMPACT RESISTANT

fluorescent lighting fittings  
for *extremely low ambient temperature up to -40 °C*

# Polar



### Use:

Fluorescent luminaires PRIMA PC ta-40 Polars are suitable for illumination of areas with extremely low ambient temperature up to -40 °C.

### Description:

The luminaires are equipped with glow switch starters for igniting fluorescent lamps in arctic conditions.

It is necessary to use special double-tube fluorescent tubes (Philips Master Xtra Polar or Aura Ultimate Thermo) to be able to achieve the requested level of luminous flux. Fluorescent tube diameter is 38 mm or 32 mm.

Order code	Type	Light sources		Luminous efficiency %	Net weight kg	Dimensions mm	
		W	T8/G13			A	D
modification for extremely low ambient temperature to -40 °C							
38310	PRIMA 118 PC Polar ta-40	1x18	T8/G13	89	1,3	662	350
38320	PRIMA 136 PC Polar ta-40	1x36	T8/G13	89	2,2	1272	700
38330	PRIMA 158 PC Polar ta-40	1x58	T8/G13	87	2,9	1572	940
38340	PRIMA 218 PC Polar ta-40	2x18	T8/G13	82	2,0	692	350
38350	PRIMA 236 PC Polar ta-40	2x36	T8/G13	81	3,5	1272	700
38360	PRIMA 258 PC Polar ta-40	2x58	T8/G13	79	4,7	1572	940

384xx modification with stainless steel clips



# PRIMA-Ex

INDUSTRIAL WATERPROOF,  
DUSTPROOF AND IMPACT RESISTANT

fluorescent lighting fittings suitable for ambient with a danger of explosion



#### Use:

PRIMA...PCc Ex industrial waterproof and dustproof lighting fittings with higher impact resistance are suitable for illumination of areas with a danger of flammable dust, gas and vapour explosion.

The above mentioned ambient corresponds to the European Union directive No.: 94/9/EC (NV 23/2003 Sb.): Ex II 3GD Ex nA II T4-T5,  $T_{max}$  - see table on the next page.

Lighting fittings are designed for ambient temperature from  
-20 °C to +40 °C

The luminaires are certified by FTZÚ Ostrava – Radvanice.  
Certificate No: FTZÚ 08 ATEX 0168X  
(Installed luminaire has to be protected from mechanical damage)

#### Description, optics:

The body is made by injection of impact and heat resistant polycarbonate of grey color.

There are two 20,5 mm holes for Pg 13,5 cable glands in the body. Fixing of the body with diffuser is solved with stainless steel clips. The luminaire is fixed with a foamed Polyurethan sealing injected directly to the body.

The diffuser is made by injection of transparent stabilized polycarbonate (PC) with a high impact resistance.

The reflector is made of the steel sheet, powder coated with white colour. Electric equipment of the lighting fittings is fixed on the reflector. Polished aluminium parabolic reflector (PAR) can be delivered on demand.

#### The way of fitting's suspension:

- directly on a surface (also flammable) using stainless steel brackets
- using stainless steel hooks delivered as standard accessories



FTZÚ 08  
ATEX 0168

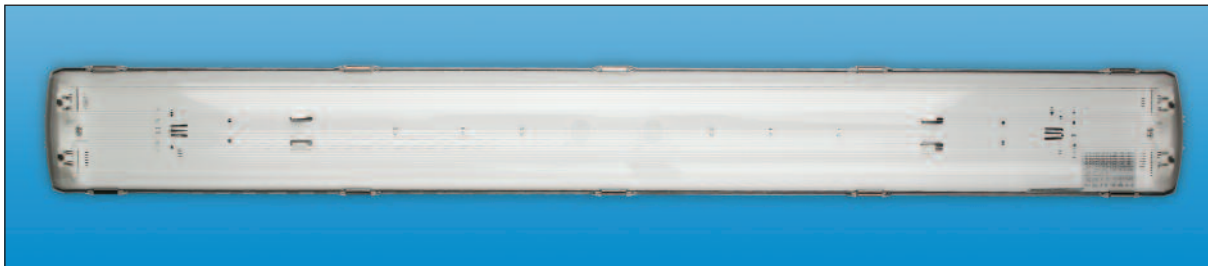
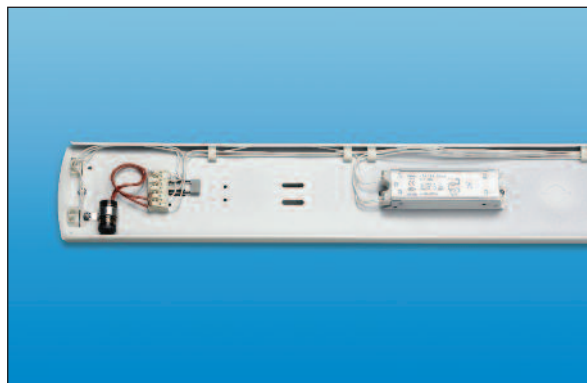
IP66



230 V  
50 Hz







**Electric equipment modifications suitable for the ambient with danger of explosion**

• **with magnetic ballast**

There are mounted B1 class magnetic ballasts on the reflector, 3 pole (resp. 5 pole) terminal block for connecting supply cable with a wire up to 2,5mm<sup>2</sup> and another 2 pole connecting terminal block.

The reflector is also provided with shake resistant lampholders. By the use of a special metal holder, an electronic starter (Pulsestarter EFS in modification for EEx nA II) is fixed to the reflector.

The lighting fitting can be additionally compensated with DNA capacitor.

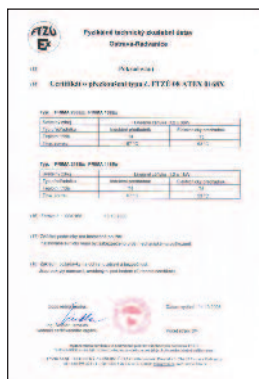
• **with electronic ballast type Osram, Helvar, Philips or Vossloh-Schwabe.**

The connection of electric parts is accomplished with halogen free wire with temperature resistance from -30 °C to +100 °C.

On demand, the lighting fittings can be 1 phase or 3 phase through wired.



Order code	Type	Light sources	Temperature class	Max. surface temperature	Luminous efficiency	Net weight	Dimensions	
		W		°C			%	kg
with magnetic ballast								
39010	PRIMA 118 PCc Ex	1x18	T4	67	89	1,4	662	350
39020	PRIMA 136 PCc Ex	1x36	T4	67	89	2,3	1272	700
39030	PRIMA 158 PCc Ex	1x58	T4	67	87	3,0	1572	940
39040	PRIMA 218 PCc Ex	2x18	T4	67	82	2,1	662	350
39050	PRIMA 236 PCc Ex	2x36	T4	67	81	3,6	1272	700
39060	PRIMA 258 PCc Ex	2x58	T4	67	79	4,8	1572	940
with electronic ballast								
39025	PRIMA 136 PCc Ex E	1x36	T5	53	89	2,0	1272	700
39035	PRIMA 158 PCc Ex E	1x58	T5	60	87	2,6	1572	940
39055	PRIMA 236 PCc Ex E	2x36	T5	53	81	3,0	1272	700
39065	PRIMA 258 PCc Ex E	2x58	T6	60	79	4,0	1572	940



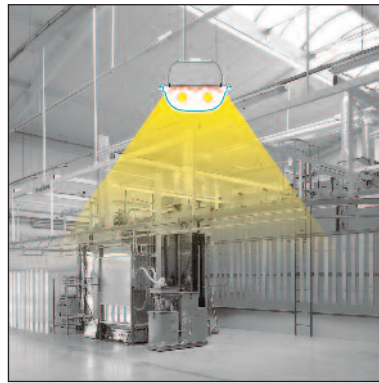
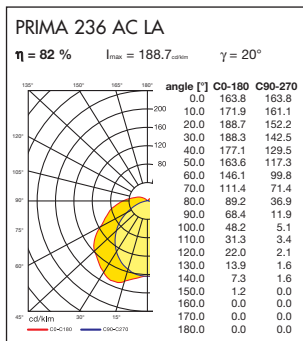
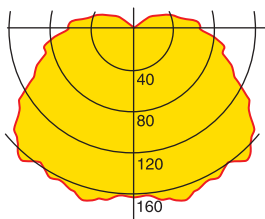


# ACCESSORIES FOR PRIMA



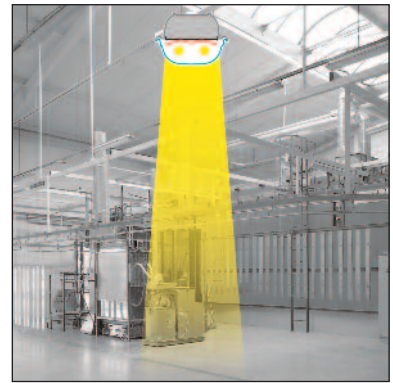
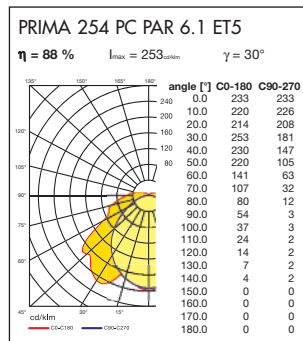
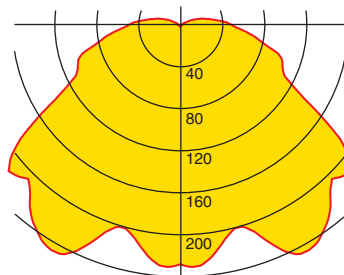
white reflector  
for suspension height up to 6 m

polished Al reflector  
for suspension height up to 7 m



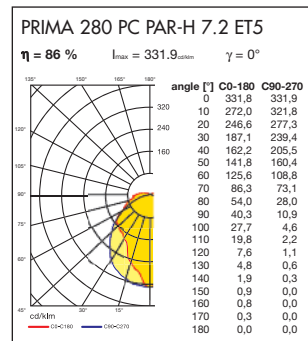
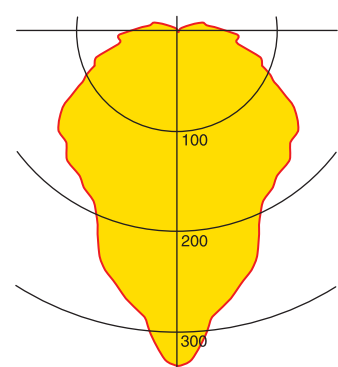
parabolic reflector PAR 5. – T8  
parabolic reflector PAR 6. – T5

for suspension height 6 - 9 m



parabolic reflector PAR-H 7. – T5

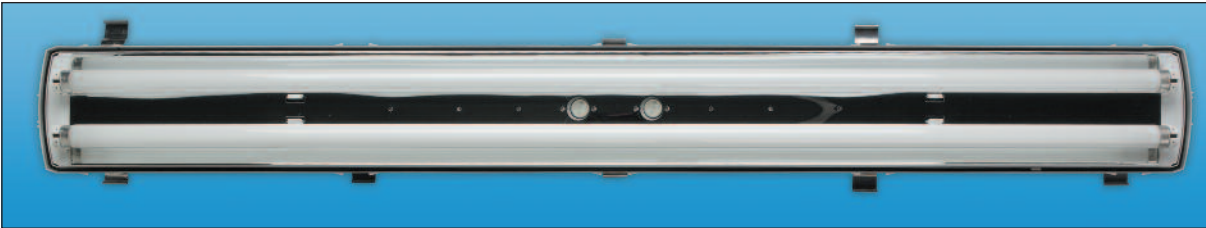
for suspension height 7 – 11 m



## Accessories for PRIMA

Order code	Type	
11951	PAR 5.1	polished aluminium parabolic reflector for PRIMA 236
11952	PAR 5.2	polished aluminium parabolic reflector for PRIMA 258
11953	PAR 5.3	polished aluminium parabolic reflector for PRIMA 136
11954	PAR 5.4	polished aluminium parabolic reflector for PRIMA 158
11961	PAR 6.1	polished aluminium parabolic reflector for PRIMA T5 228/254
11962	PAR 6.2	polished aluminium parabolic reflector for PRIMA T5 235/249/280
11963	PAR 6.3	polished aluminium parabolic reflector for PRIMA T5 128/154
11964	PAR 6.4	polished aluminium parabolic reflector for PRIMA T5 135/149/180
11971	PAR-H 7.1	polished aluminium parabolic reflector for PRIMA T5 228/254
11972	PAR-H 7.2	polished aluminium parabolic reflector for PRIMA T5 235/249/280

PAR 5.1, 5.3 - T8



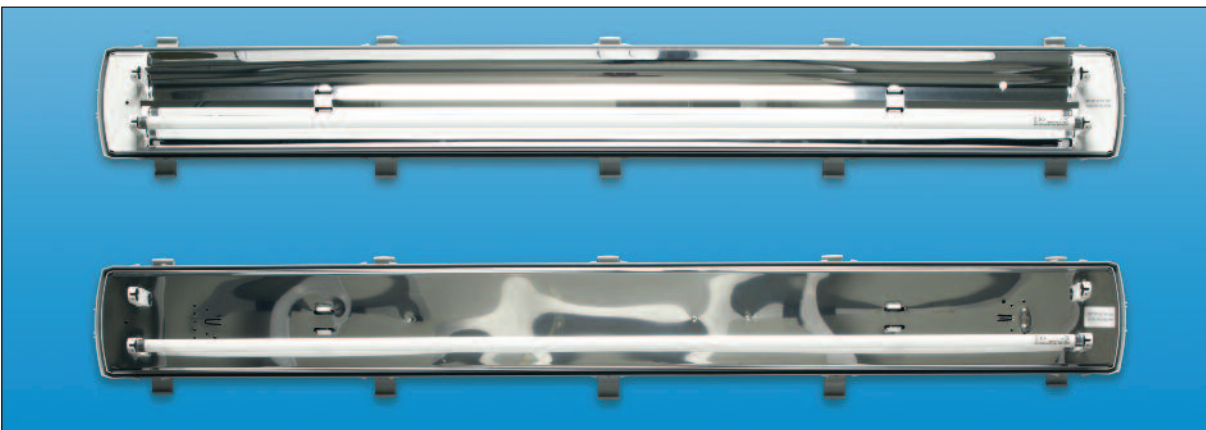
PAR-H 7.1 - T5



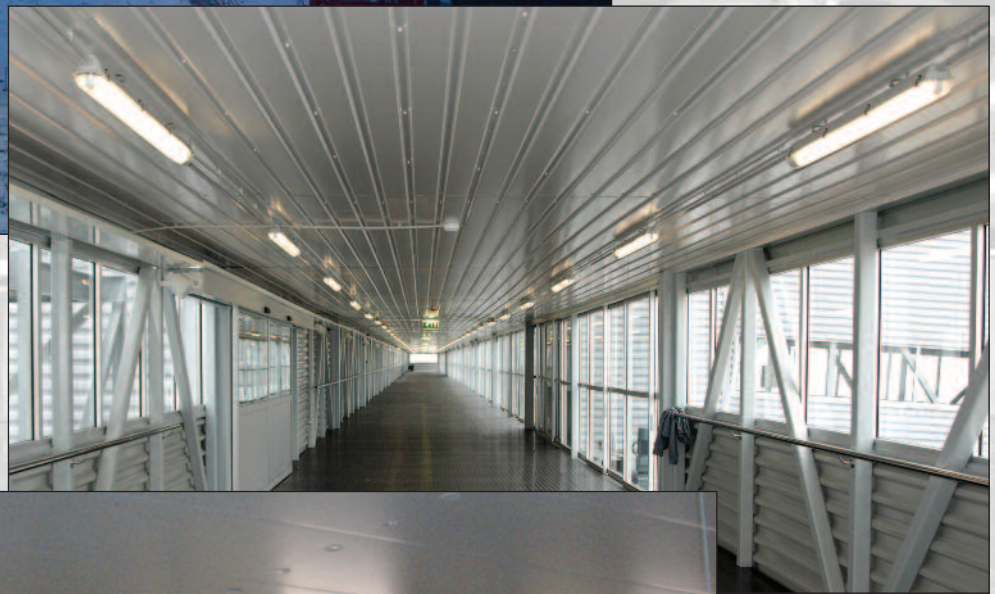
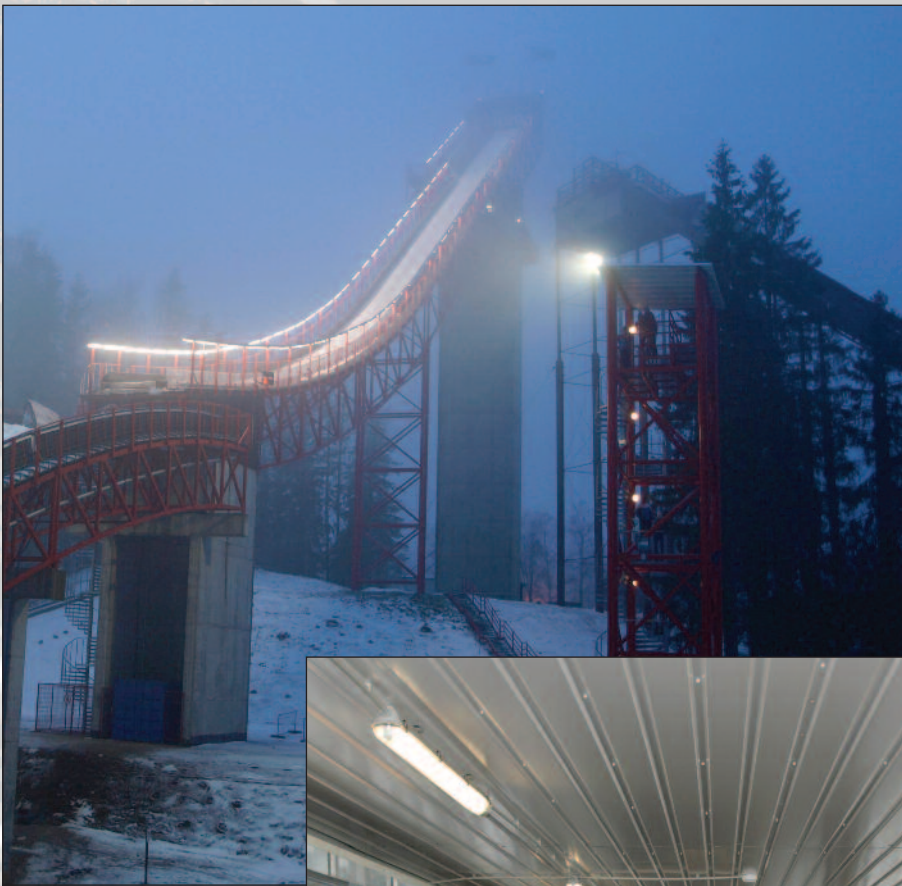
PAR 6.1 - T5



LA - T5  
PAR-H 7.1 - T5









# PROFI

INDUSTRIAL WATERPROOF, DUSTPROOF  
AND IMPACT RESISTANT  
fluorescent lighting fittings



#### Use:

Industrial indoor and outdoor areas, sports grounds, workshops, agricultural buildings, garages, warehouses and laboratories without danger of explosion of gas and flammable vapour.

Lighting fittings are resistant to dust, damp, jetting water and have higher impact resistance.

In corrosive environment it is necessary to have respect to possible fumes which reduce the applicability of plastics.

#### Description, optics:

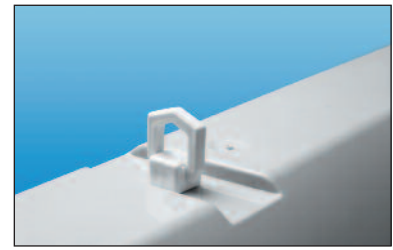
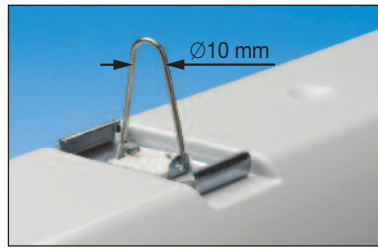
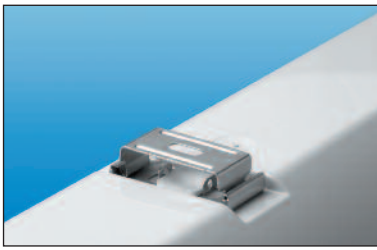
The **body** is made by injection of impact and heat resistant polycarbonate of grey colour. The body is fitted with clips for fixing of the diffuser. The clips are made of ABS and polyamid. Optionally the stainless steel clips are available. The IP protection is provided with polyurethan sealing injected in the body.

The fitting's **reflector** is produced of a steel sheet powder coated with white colour in automatic spraying line.

The **diffuser** is made by injection of plastics in two options:

- transparent acrylic – marked AC – UV stabilized
- transparent polycarbonate – marked PC – UV stabilized with a high impact resistance

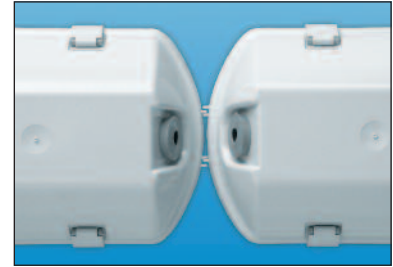
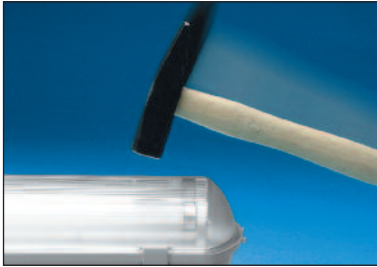




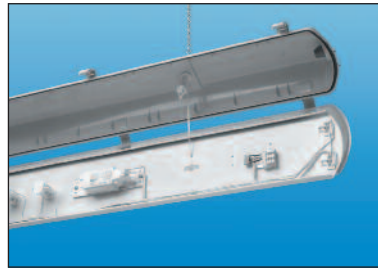
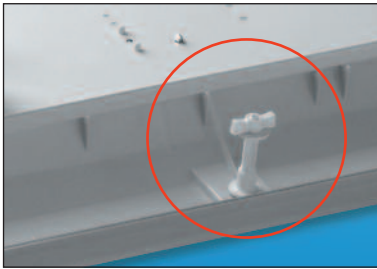
#### The way of fitting's suspension

- directly on a surface (also flammable) using metal self-locking clips made of zinc coated steel (higher corrosion resistance with ZnNi coating is optionally available)
- using steel hooks delivered as standard accessories

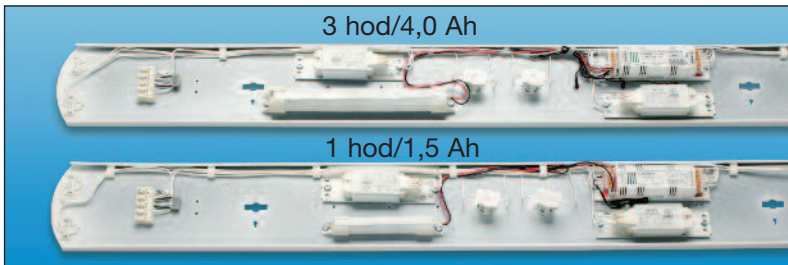
- using plastic suspension eyes - not included in standard set - available only on demand



The polycarbonate diffuser has a very big impact resistance.



The reflector is provided with two plastic suspensions preventing the fall of the reflector during installation and repair.

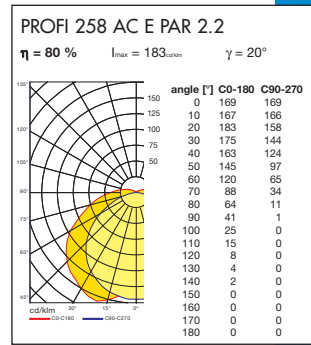
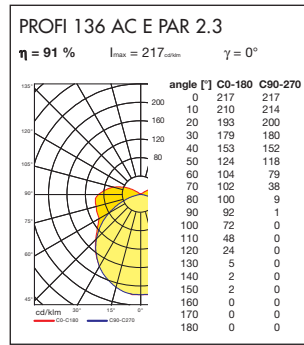
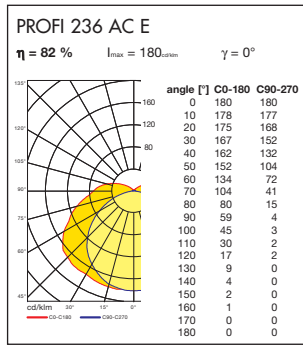
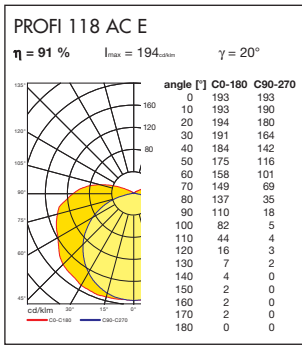


Modification for maintained emergency lighting fitting  
 - with 1 hr emergency source (M1h)  
 - with 3 hrs emergency source (M3h)

#### Modifications:

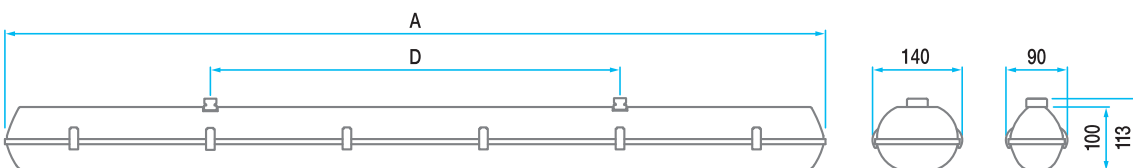
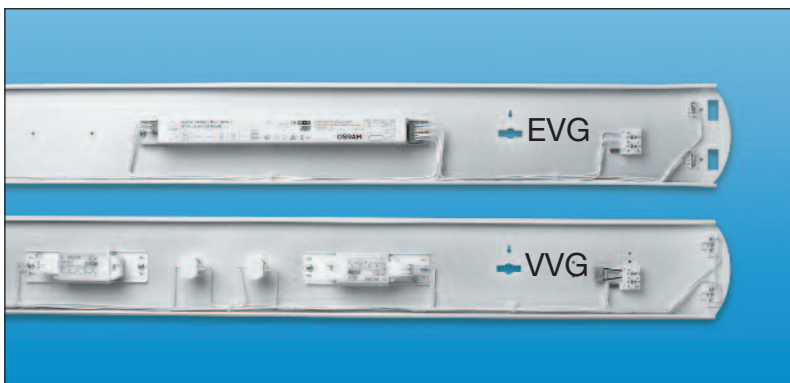
- (code 10xx0) – The **basic type** is LPF wired, equipped with a radio-interference capacitor, starters, a screwless three-pole terminal block, 2 pcs of metal suspension sets and two cable glands
  - (code 10xx1) – HPF wired - the lighting fitting can be additionally compensated with parallel compensating capacitor
  - (code 10xx2) – **Through wired** - for the installation of the luminaires into rows. The luminaire is fitted with 1 phase or 3 phase wiring (1.5 mm<sup>2</sup>) and additional terminal block. (18W lighting fittings are not produced in this modification). 2.5 mm<sup>2</sup> through wiring available on demand.
  - (code 10xx3) – **Through wired and compensated**
  - (code 10xx5) – **With electronic ballast for T8 lamps** – suitable for the installation where the luminaires are often working
  - (code 10xx6) - **With electronic ballast for T8 lamps and through wired**
  - (code 10xx7) – **With dimmable electronic ballast** – the luminaire is equipped and adapted for using of an automatic dimming control. Analogue (DIM) or digital (DALI) dimmable ballasts are available
  - (code 10xx8) – **Maintained emergency lighting fittings** – with an independent emergency source is running under usual conditions as other fittings. After power interruption it starts to run in the emergency mode. Only one tube is working with double-tube fitting then.
  - (code 10xx9) – **Non-maintained emergency lighting fitting** – is working only after power interruption
- Delivery of plastic and metal components for customers' own assembly is available.





Order code	Type	Light sources	Luminous efficiency	Net weight	Dimensions	
		W	%	kg	A	D
<b>acrylic diffuser (AC)</b>						
10110	PROFI 118 AC	1x18	T8/G13	91	1,2	670 350
10120	PROFI 136 AC	1x36	T8/G13	91	2,1	1280 700
10130	PROFI 158 AC	1x58	T8/G13	89	2,8	1580 900
10140	PROFI 218 AC	2x18	T8/G13	84	1,9	670 350
10150	PROFI 236 AC	2x36	T8/G13	82	3,4	1280 700
10160	PROFI 258 AC	2x58	T8/G13	80	4,6	1580 900
<b>acrylic diffuser (AC) – with electronic ballast</b>						
10115	PROFI 118 AC E	1x18	T8/G13	91	0,9	670 350
10125	PROFI 136 AC E	1x36	T8/G13	91	1,7	1280 700
10135	PROFI 158 AC E	1x58	T8/G13	89	2,2	1580 900
10145	PROFI 218 AC E	2x18	T8/G13	84	1,6	670 350
10155	PROFI 236 AC E	2x36	T8/G13	82	2,6	1280 700
10165	PROFI 258 AC E	2x58	T8/G13	80	3,6	1580 900
<b>polycarbonate diffuser (PC) - impact resistant</b>						
10310	PROFI 118 PC	1x18	T8/G13	89	1,2	670 350
10320	PROFI 136 PC	1x36	T8/G13	89	2,1	1280 700
10330	PROFI 158 PC	1x58	T8/G13	87	2,8	1580 900
10340	PROFI 218 PC	2x18	T8/G13	82	1,9	670 350
10350	PROFI 236 PC	2x36	T8/G13	80	3,4	1280 700
10360	PROFI 258 PC	2x58	T8/G13	78	4,6	1580 900
<b>polycarbonate diffuser (PC) - impact resistant with electronic ballast</b>						
10315	PROFI 118 PC E	1x18	T8/G13	89	0,9	670 350
10325	PROFI 136 PC E	1x36	T8/G13	89	1,7	1280 700
10335	PROFI 158 PC E	1x58	T8/G13	87	2,2	1580 900
10345	PROFI 218 AC E	2x18	T8/G13	82	1,6	670 350
10355	PROFI 236 PC E	2x36	T8/G13	80	2,6	1280 700
10365	PROFI 258 PC E	2x58	T8/G13	78	3,6	1580 900

102xx modification ACc – acrylic diffuser – with stainless steel clips  
 104xx modification PCc – polycarbonate diffuser – with stainless steel clips





# PROFI - T5



## Modification with electronic ballast T5

- in high efficiency range
- in high output range
- energy efficiency index EEI=A2
- the consumption of electric energy is lower up to 10 % in comparison with T8 electronic ballast and up to 40 % with magnetic ballast
- with smaller fluorescent tubes' diameter (16 mm) and with the change of max. luminous flux temperature from 25 °C to 35 °C it is achieved higher luminous efficiency by 10-14 %

## Modification with electronic ballast T5 Intelligent

Intelligent recognition of HE or HO fluorescent tubes enables application of tubes of the same length but different output

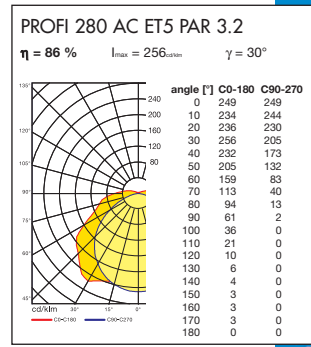
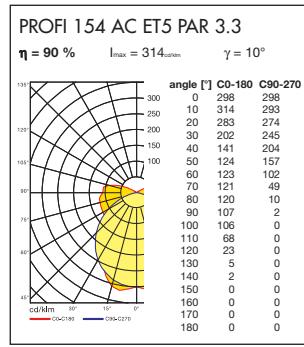
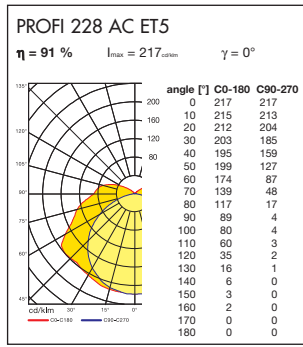
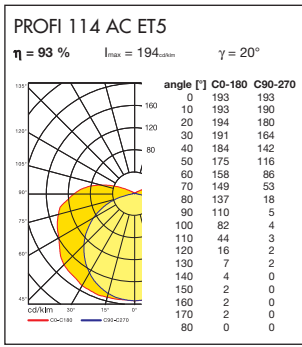
HE 14W + HO 24W	549 mm
HE 28W + HO 54W	1149 mm
HE 35W + HO 49W + HO 80 W	1449 mm

## Modification with dimmable electronic ballast T5

- operated with analogue signal - 1-10 V
- operated with digital DALI system or with Touch DIM function
- energy efficiency index EEI=A1
- it is possible to spare up to 80 % of the consumption of electric energy by the dimming based on the daylight intensity

## Modification with electronic ballast T5 HO – PAR

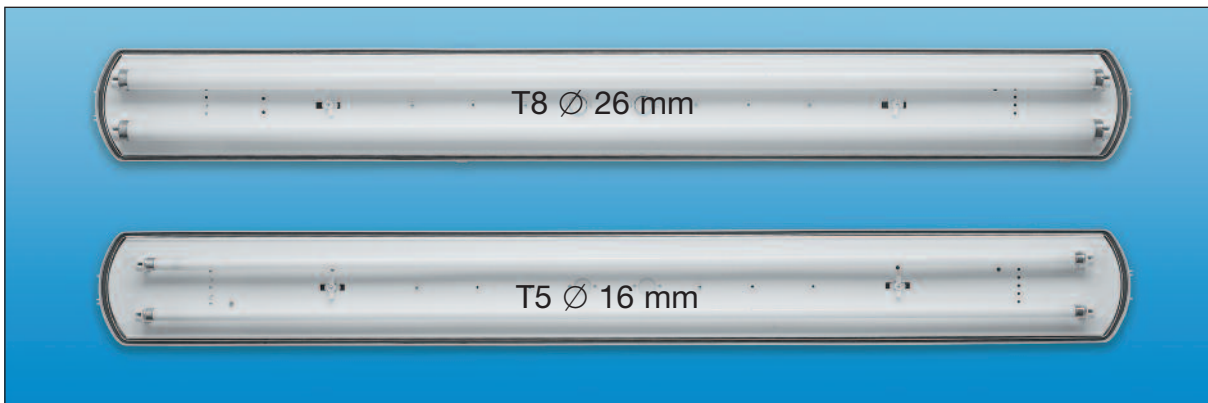
- high output modification with parabolic reflector enables to concentrate the luminous flux into deeper curve. It reaches sufficient illumination in halls with height up to 10 m



Order code	Type	Light sources	Luminous efficiency	Net weight	Dimensions
		W	%	kg	A D
<b>acrylic diffuser (AC) – with electronic ballast – high efficiency range</b>					
10510	PROFI 114 AC ET5	1x14	T5/G5 93	0,9	670 350
10520	PROFI 128 AC ET5	1x28	T5/G5 93	1,7	1280 700
10530	PROFI 135 AC ET5	1x35	T5/G5 93	2,2	1580 900
10540	PROFI 214 AC ET5	2x14	T5/G5 92	1,6	670 350
10550	PROFI 228 AC ET5	2x28	T5/G5 91	2,6	1280 700
10560	PROFI 235 AC ET5	2x35	T5/G5 90	3,6	1580 900
<b>acrylic diffuser (AC) – with electronic ballast – high output range</b>					
10515	PROFI 124 AC ET5	1x24	T5/G5 89	0,9	670 350
10525	PROFI 154 AC ET5	1x54	T5/G5 88	1,7	1280 700
10535	PROFI 180 AC ET5	1x80	T5/G5 86	2,2	1580 900
10575	PROFI 149 AC ET5	1x49	T5/G5 89	2,2	1580 900
10545	PROFI 224 AC ET5	2x24	T5/G5 88	1,6	670 350
10555	PROFI 254 AC ET5	2x54	T5/G5 87	2,6	1280 700
10565	PROFI 280 AC ET5	2x80	T5/G5 85	3,6	1580 900
10585	PROFI 249 AC ET5	2x49	T5/G5 88	3,6	1580 900
<b>polycarbonate diffuser (PC) - impact resistant with el. ballast – high efficiency range</b>					
10710	PROFI 114 PC ET5	1x14	T5/G5 91	0,9	670 350
10720	PROFI 128 PC ET5	1x28	T5/G5 91	1,7	1280 700
10730	PROFI 135 PC ET5	1x35	T5/G5 91	2,2	1580 900
10740	PROFI 214 PC ET5	2x14	T5/G5 90	1,6	670 350
10750	PROFI 228 PC ET5	2x28	T5/G5 89	2,6	1280 700
10760	PROFI 235 PC ET5	2x35	T5/G5 88	3,6	1580 900
<b>polycarbonate diffuser (PC) - impact resistant with el. ballast – high output range</b>					
10715	PROFI 124 PC ET5	1x24	T5/G5 87	0,9	670 350
10725	PROFI 154 PC ET5	1x54	T5/G5 86	1,7	1280 700
10735	PROFI 180 PC ET5	1x80	T5/G5 84	2,2	1580 900
10775	PROFI 149 PC ET5	1x49	T5/G5 87	2,2	1580 900
10745	PROFI 224 PC ET5	2x24	T5/G5 86	1,6	670 350
10755	PROFI 254 PC ET5	2x54	T5/G5 85	2,6	1280 700
10765	PROFI 280 PC ET5	2x80	T5/G5 83	3,6	1580 900
10785	PROFI 249 PC ET5	2x49	T5/G5 86	3,6	1580 900

106xx modification T5 ACc – acrylic diffuser – with stainless steel clips and electronic ballast  
 108xx modification T5 PCc – polycarbonate diffuser – with stainless steel clips and electronic ballast

Maximum ambient temperature with T5 HO range is decreased to 35 °C.

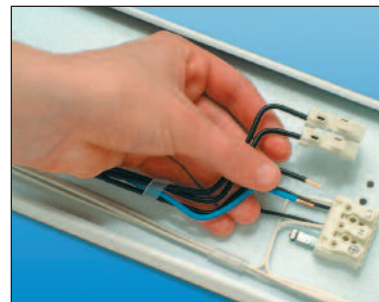


# ACCESSORIES

## Accessories for PRIMA, PROFI and PER luminaires

Order code	Type
11991	1phase through wiring set for 1x36W, 2x36W types with 3 pole terminal block (T5 1x28W,2x28W,1x54W,2x54W)
11992	1phase through wiring set for 1x58W, 2x58W types with 3 pole terminal block (T5 1x35W,2x35W,1x80W,2x80W)
11993	3phase through wiring set for 1x36W, 2x36W types with 5 pole terminal block (T5 1x28W,2x28W,1x54W,2x54W)
11994	3phase through wiring set for 1x58W, 2x58W types with 5 pole terminal block (T5 1x35W,2x35W,1x80W,2x80W)

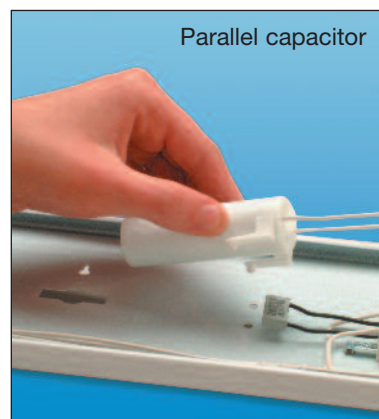
### Through wired lighting fitting



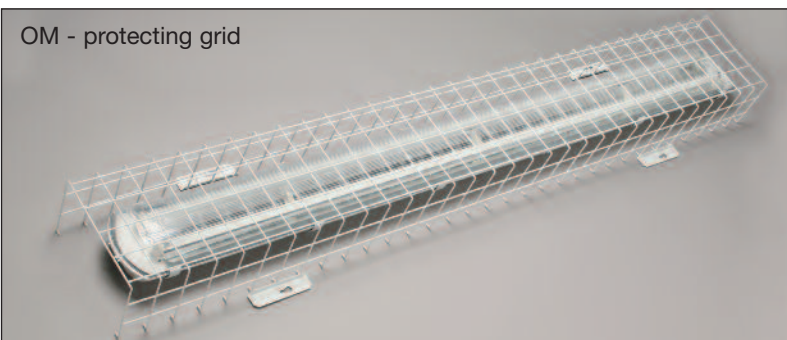
## Accessories for PRIMA, PROFI, PER, SM and SM NOVA luminaires

Order code	Type
11901	K 4 $\mu$ F Parallel capacitor for types 1x18 W, 2x18 W, 1x36 W
11902	K 8 $\mu$ F Parallel capacitor for types 1x58 W, 2x36 W, 4x18 W
11903	K 12 $\mu$ F Parallel capacitor for types 2x58 W, 3x36 W

### Parallel capacitor



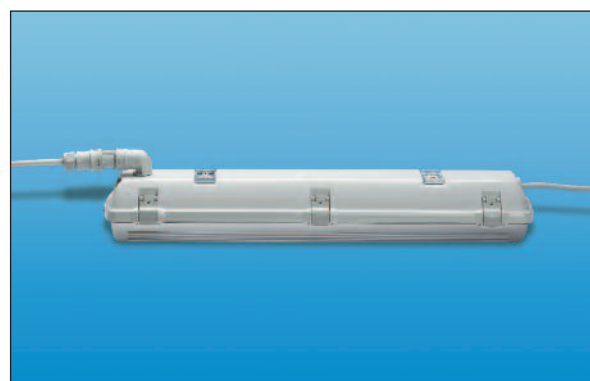
### OM - protecting grid



## Accessories for PRIMA, PROFI, PER, SM and SM NOVA luminaires

Order code	Type		Dimensions mm
11941	OM 218	protecting grid for types 2x18 W, 2x14 W, 2x24 W	700 x 220 x 130
11942	OM 236	protecting grid for types 2x36 W, 2x28 W, 2x54 W	1300 x 220 x 130
11943	OM 258	protecting grid for types 2x58 W, 2x35 W, 2x49 W, 2x80 W	1600 x 220 x 130

## Modification for quick connection of the luminaires through external terminal block Wieland





# ACCESSORIES FOR PROFI

With white reflector



With parabolic reflector (PAR)



## Accessories for PROFI

Order code	Type	
11921	PAR 2.1	polished aluminium parabolic reflector for PROFI 236
11922	PAR 2.2	polished aluminium parabolic reflector for PROFI 258
11923	PAR 2.3	polished aluminium parabolic reflector for PROFI 136
11924	PAR 2.4	polished aluminium parabolic reflector for PROFI 158
11931	PAR 3.1	polished aluminium parabolic reflector for PROFI T5 228/254
11932	PAR 3.2	polished aluminium parabolic reflector for PROFI T5 235/249/280
11933	PAR 3.3	polished aluminium parabolic reflector for PROFI T5 128/154
11934	PAR 3.4	polished aluminium parabolic reflector for PROFI T5 135/149/180

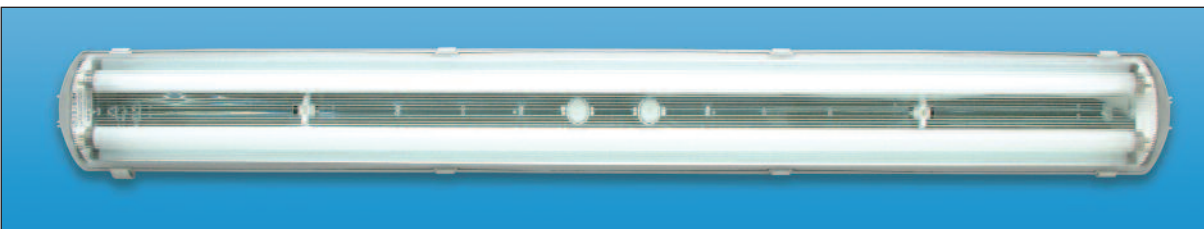
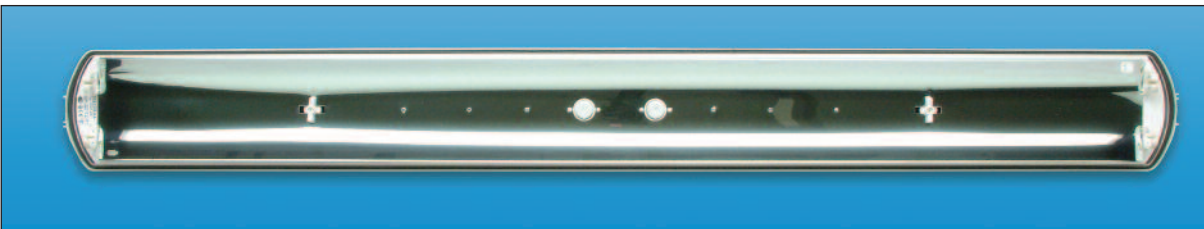
In case of suspension higher than 6 m it is recommended to equip the luminaire with polished aluminium reflector (PAR).

Good luminosity can be reached with luminaires equipped with high output T5 fluorescent tubes and parabolic reflector even in a high up to 10 m.

PAR 3.1, 3.3



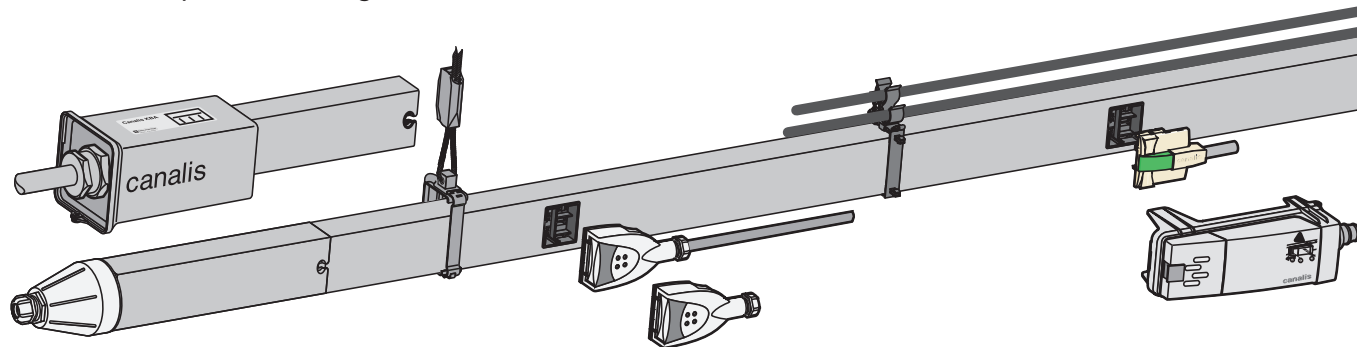
PAR 2.1



The busbar trunking CANALIS for lighting distribution 25 - 40 A in industrial and commercial areas.

It is built up of straight 3 m (or 2 m) elements where maximum distance between fixing points is 3 m.

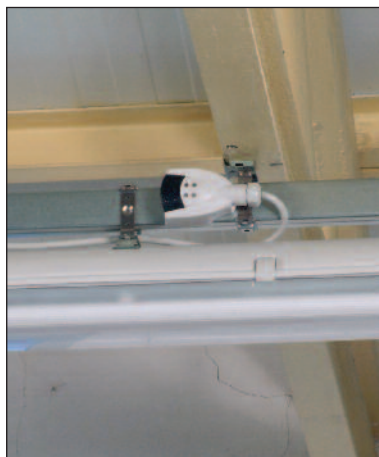
The standard protection degree is IP 54



The distance between plug-in points is 1 m or 1,5 m.

Plugs 10A KBC 10CC211 may be inserted or removed whilst the busbar is live.

The interconnection of protecting circuit (PE) is provided with special construction of protection contact which is plugged before the connecting of working contacts.

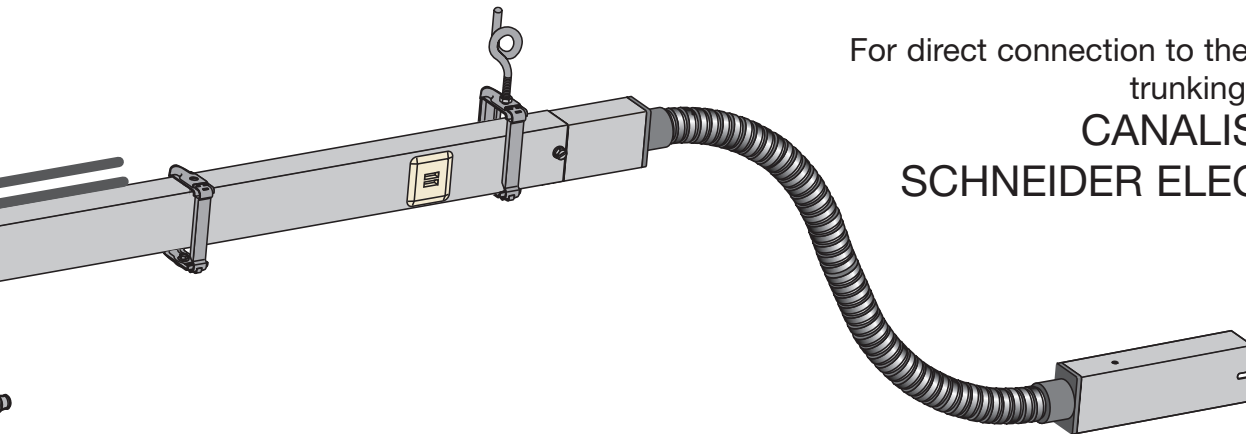


The way of the busbar fixing on a building construction. The busbar can be fixed directly on the ceiling through holders or through a threaded bar. It can be also suspended on a steel wire or a chain. For the easier fixing also another elements can be used: opened and closed hook or closed eye. The recommended distance between holders is 3 m. Example: the way of the busbar fixing on a building construction in the pictures.

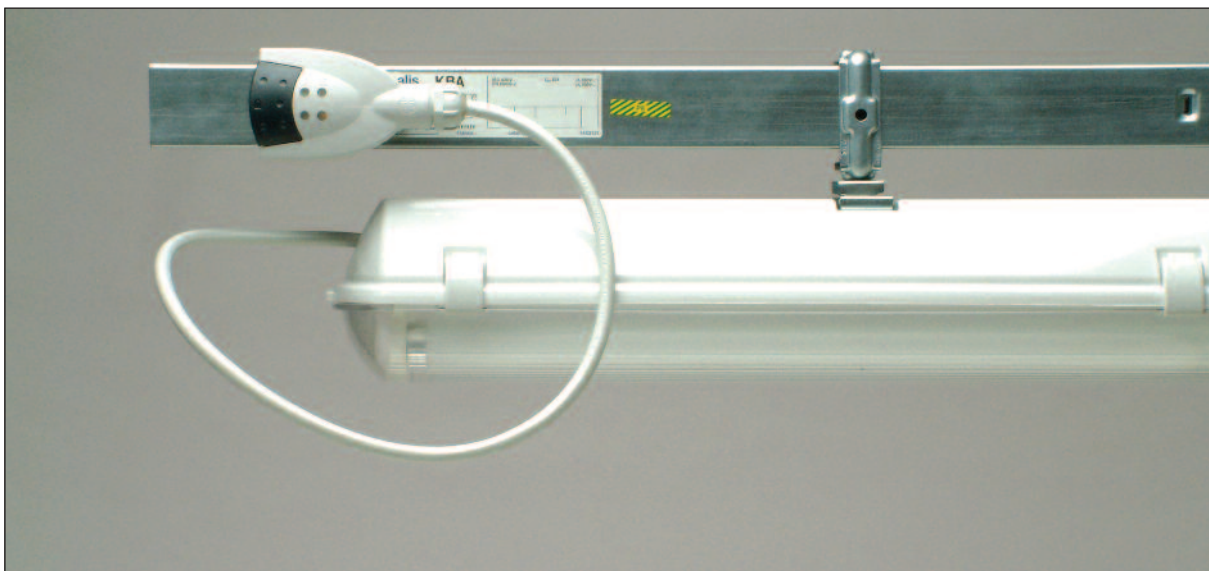


# Canalis KBA

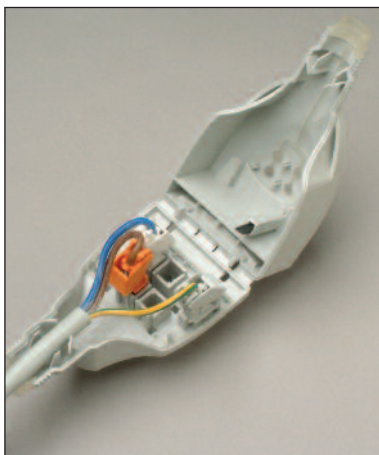
For direct connection to the busbar  
trunking system  
**CANALIS KBA**  
**SCHNEIDER ELECTRIC**



Straight trunking parts creates the frame of the busbar. The connection of live wires including protecting wire (PE) is provided with a plug and socket. A mechanical connection guide secures the strength and has a safety pin against a spontaneous release.



Straight trunking parts creates the frame of the busbar. The connection of live wires including protecting wire (PE) is provided with a plug and socket. A mechanical connection guide secures the strength and has a safety pin against a spontaneous release.



10 A KBC 10CC211 connector with an optional set of polarity. The set of polarity is visible through transparent contact covers at the connector. Two exchangeable contacts enable setting for a particular phase (L+N+PE). For special purposes also the setting (L+L+PE) is possible.



Order code	Type	Light sources		Luminous efficiency %	Net weight kg	Dimensions mm	
		W	H			A	D
<b>acrylic diffuser (AC)</b>							
70110	PROFI 118 AC KBA	1x18	T8/G13	91	1,3	670	350
70120	PROFI 136 AC KBA	1x36	T8/G13	91	2,2	1280	700
70130	PROFI 158 AC KBA	1x58	T8/G13	89	2,9	1580	900
70140	PROFI 218 AC KBA	2x18	T8/G13	84	2,0	670	350
70150	PROFI 236 AC KBA	2x36	T8/G13	82	3,5	1280	700
70160	PROFI 258 AC KBA	2x58	T8/G13	80	4,7	1580	900
<b>acrylic diffuser (AC) – with electronic ballast</b>							
70115	PROFI 118 AC E KBA	1x18	T8/G13	91	1,0	670	350
70125	PROFI 136 AC E KBA	1x36	T8/G13	91	1,8	1280	700
70135	PROFI 158 AC E KBA	1x58	T8/G13	89	2,3	1580	900
70145	PROFI 218 AC E KBA	2x18	T8/G13	84	1,7	670	350
70155	PROFI 236 AC E KBA	2x36	T8/G13	82	2,7	1280	700
70165	PROFI 258 AC E KBA	2x58	T8/G13	80	3,2	1580	900

- 702xx modification ACc – acrylic diffuser – with stainless steel clips  
703xx modification PC – polycarbonate diffuser  
704xx modification PCc – polycarbonate diffuser – with stainless steel clips

Order code	Type	Light sources		Luminous efficiency %	Net weight kg	Dimensions mm	
		W	H			A	D
<b>acrylic diffuser (AC) – with electronic ballast – high efficiency range</b>							
70510	PROFI 114 AC ET5 KBA	1x14	T5/G5	93	1,0	670	350
70520	PROFI 128 AC ET5 KBA	1x28	T5/G5	93	1,8	1280	700
70530	PROFI 135 AC ET5 KBA	1x35	T5/G5	93	2,3	1580	900
70540	PROFI 214 AC ET5 KBA	2x14	T5/G5	92	1,7	670	350
70550	PROFI 228 AC ET5 KBA	2x28	T5/G5	91	2,7	1280	700
70560	PROFI 235 AC ET5 KBA	2x35	T5/G5	90	3,2	1580	900
<b>acrylic diffuser (AC) – with electronic ballast – high output range</b>							
70515	PROFI 124 AC ET5 KBA	1x24	T5/G5	89	1,0	670	350
70525	PROFI 154 AC ET5 KBA	1x54	T5/G5	88	1,8	1280	700
70535	PROFI 180 AC ET5 KBA	1x80	T5/G5	86	2,3	1580	900
70575	PROFI 149 AC ET5 KBA	1x49	T5/G5	89	2,3	1580	900
70545	PROFI 224 AC ET5 KBA	2x24	T5/G5	88	1,7	670	350
70555	PROFI 254 AC ET5 KBA	2x54	T5/G5	87	2,7	1280	700
70565	PROFI 280 AC ET5 KBA	2x80	T5/G5	85	3,2	1580	900
70585	PROFI 249 AC ET5 KBA	2x49	T5/G5	88	3,2	1580	900

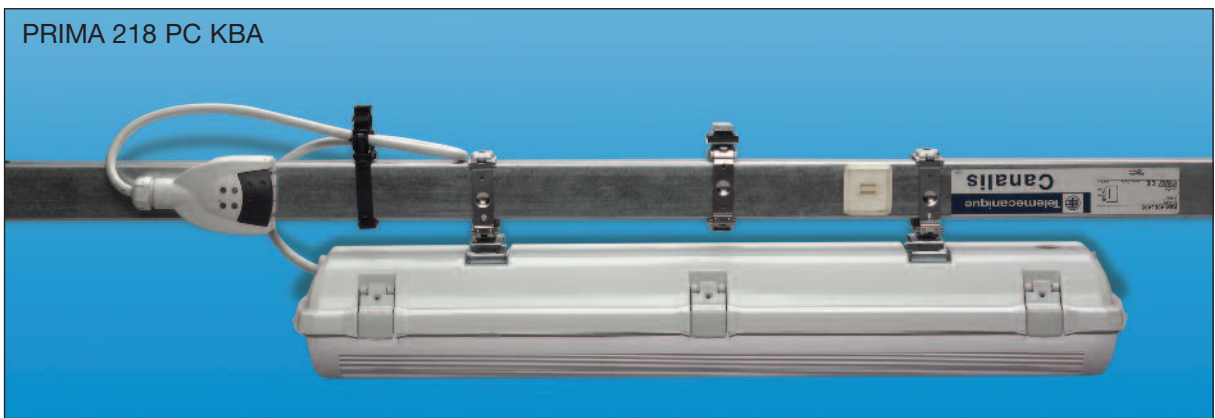
- 706xx modification T5 ACc – acrylic diffuser – with stainless steel clips  
707xx modification T5 PC – polycarbonate diffuser  
708xx modification T5 PCc – polycarbonate diffuser – with stainless steel clips



70001 KBA 40ZU PROFi



79001 KBA 40ZU PRIMA



**Accessories for PRIMA, PROFi luminaires**

Order code	Type
70001	KBA 40ZU PROFi suspension holder for Canalis KBA system
70002	KBC 10CC211 connector and supply cable H05VVf 3x1,5mm <sup>2</sup> of 1 m length.
79001	KBA 40ZU PRIMA suspension holder for Canalis KBA system

On demand the lighting fittings type PRIMA, PROFi and ST - KBA can be modified with accessory that enables their direct connection into the busbar trunking system CANALIS - KBB or KDP and 10 A KBC connectors can be replaced with 16 A KBC ones in 3 or 5 pole modification (according to the catalogue of Schneider Electric).











# PER

INDUSTRIAL WATERPROOF AND DUSTPROOF  
fluorescent lighting fittings



#### Use:

Industrial indoor or outdoor areas, workshops, agricultural buildings, garages, warehouses and laboratories without danger of explosion. Fittings are resistant to damp, jetting water and are entirely dustproof.

In corrosive environment it is necessary to have respect to possible fumes which reduce the applicability of plastics.

#### Description, optics:

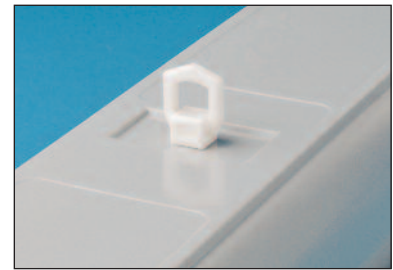
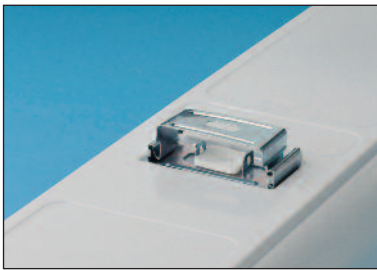
The body is made of thermoforming of tough ABS plastic of grey colour.

The clips are made of ABS and polyamid. Stainless steel clips are optionally available.

The luminaire is provided with a foamed polyurethan sealing injected directly to the body.

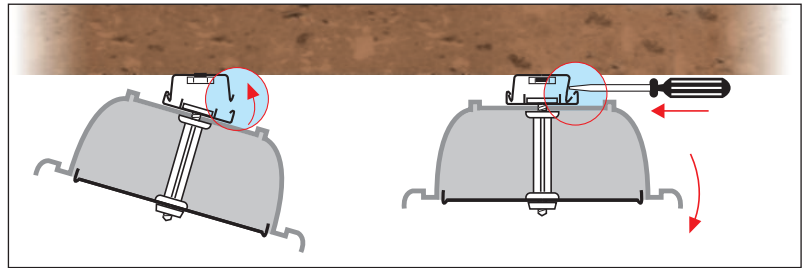
The fitting's reflector is produced of a steel sheet powder coated with white colour in an automatic spraying line. The luminaire can be additionally fitted with polished parabolic aluminium reflector.

The diffuser is made of transparent acrylic (AC), UV stabilized.



#### The way of fitting's suspension

- directly on a surface (also flammable) using metal self-locking clips made of zinc coated steel (higher corrosion resistance with ZnNi coating is optionally available)
- using steel hooks delivered as standard accessories
- using plastic suspension eyes - not included in standard set - available only on demand



The reflector is provided with two plastic suspensions preventing the fall of the reflector during installation and repair.



#### Modification with stainless steel clips.



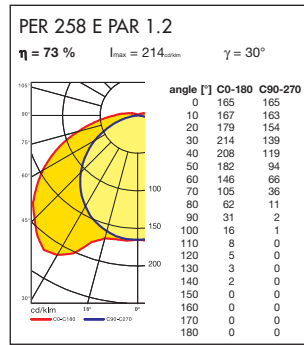
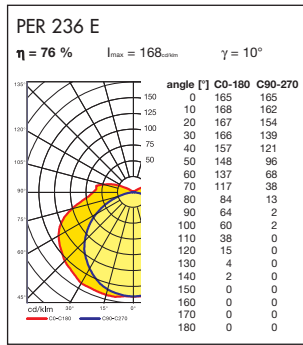
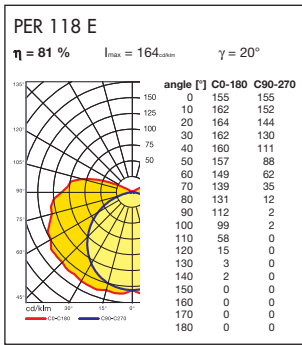
#### Packing possibilities

- commercial (completely assembled)
- industrial (partially disassembled)

#### Modifications:

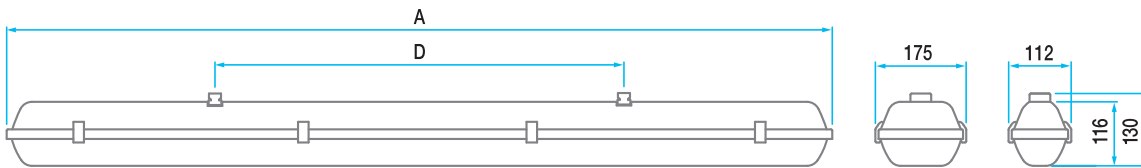
- (code 112x0) – The **basic type** is LPF wired, equipped with a radio-interference capacitor, starters, a screwless three-pole terminal block, 2 pcs of metal suspension sets and two cable glands
  - (code 112x1) – **HPF wired** - the lighting fitting can be additionally compensated with parallel compensating capacitor
  - (code 112x2) – **Through wired** - for the installation of the luminaires into rows. The luminaire is fitted with 1 phase or 3 phase wiring (1.5 mm<sup>2</sup>) and additional terminal block. (18W lighting fittings are not produced in this modification). 2.5 mm<sup>2</sup> through wiring available on demand.
  - (code 112x3) – **Through wired and compensated**
  - (code 112x5) – **With electronic ballast for T8 lamps** – suitable for the installation where the luminaires are often working
  - (code 112x6) - **With electronic ballast for T8 lamps and through wired**
  - (code 112x7) – **With dimmable electronic ballast** – the luminaire is equipped and adapted for using of an automatic dimming control. Analogue (DIM) or digital (DALI) dimmable ballasts are available
  - (code 112x8) – **Maintained emergency lighting fittings** – with an independent emergency source is running under usual conditions as other fittings. After power interruption it starts to run in the emergency mode. Only one tube is working with double-tube fitting then.
    - marked **M1h** – with 1 hr emergency source
    - marked **M3h** – with 3 hrs emergency source
  - (code 112x9) – **Non-maintained emergency lighting fitting** – is working only after power interruption
- Delivery of plastic and metal components for customers' own assembly is available.





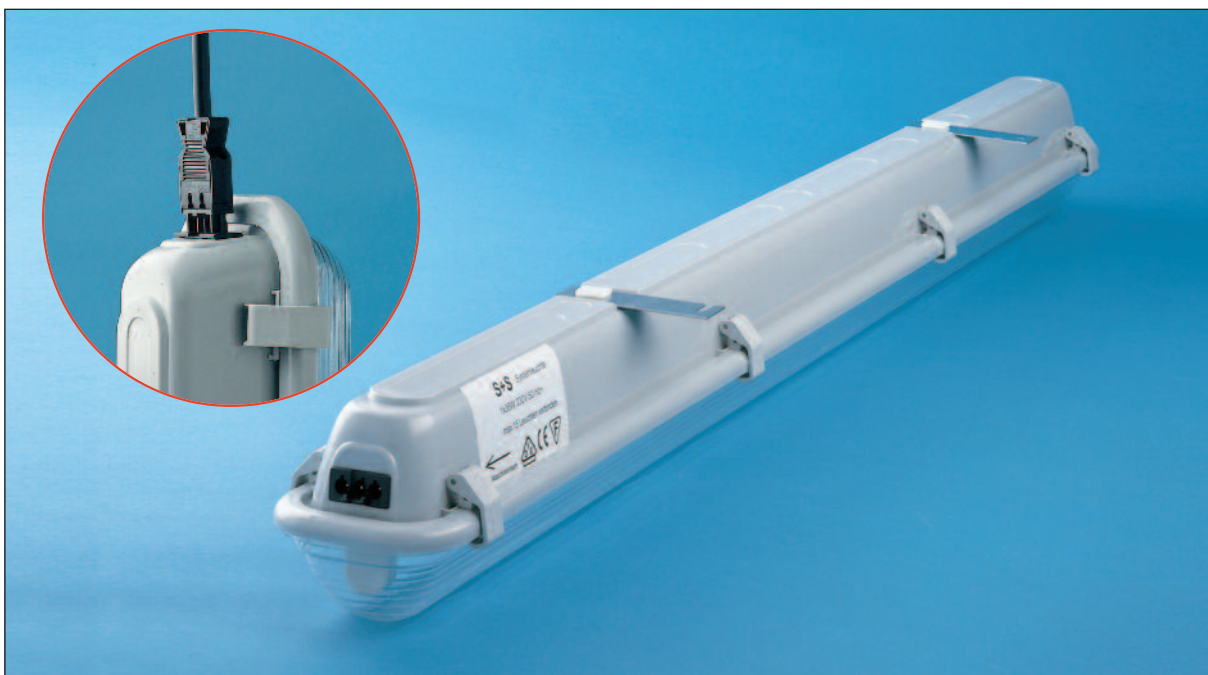
Order code	Type	Light sources	Luminous efficiency	Net weight	Dimensions
		W	%	kg	A D
<b>basic LPF wired type</b>					
11210	PER 118	1x18	T8/G13	81	1,4 680 360
11220	PER 136	1x36	T8/G13	82	2,2 1285 650
11230	PER 158	1x58	T8/G13	78	3,0 1585 950
11240	PER 218	2x18	T8/G13	77	2,0 680 360
11250	PER 236	2x36	T8/G13	76	3,7 1285 650
11260	PER 258	2x58	T8/G13	73	4,9 1585 950
<b>with electronic ballast</b>					
11215	PER 118 E	1x18	T8/G13	81	1,1 680 360
11225	PER 136 E	1x36	T8/G13	82	1,9 1285 650
11235	PER 158 E	1x58	T8/G13	78	2,4 1585 950
11245	PER 218 E	2x18	T8/G13	77	1,7 680 360
11255	PER 236 E	2x36	T8/G13	76	2,9 1285 650
11265	PER 258 E	2x58	T8/G13	73	3,4 1585 950

114xx PER...c – modification with stainless steel clips (c)



### Special modification of PER-S lighting fitting – in lower protection – IP 40

For installation in lift shafts with limited space for mounting



Vertical sidebar containing technical specifications and icons:

- Ø 26
- G 13
- 1-2,5 mm²
- t 105 °C
- t 45 °C
- 0.3J IK 03 AC
- 1F
- 3F
- VVG
- EVG
- EVG DIMM
- EMERGENCY

# PERUN Anticor

INDUSTRIAL WATERPROOF AND DUSTPROOF

fluorescent lighting fittings

MADE OF ANTICORROSIVE

STEEL SHEET



#### Use:

Industrial indoor and outdoor areas, sports grounds, workshops, garages, agricultural buildings, warehouses. Lighting fittings are resistant to dust, damp and jetting water also in corrosive environment.

#### Description, optics:

The luminaire body is made of anticorrosive steel sheet.

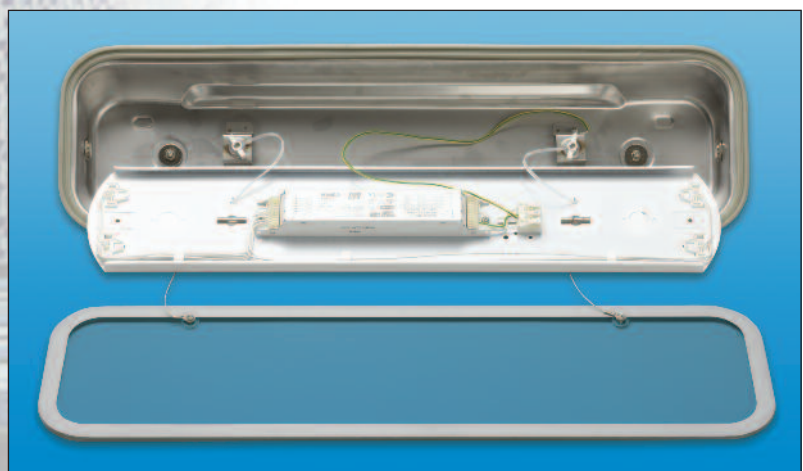
The gear tray is produced of a steel sheet powder coated with white colour and is fitted with electrocomponents. There is a fixed additional polished parabolic reflector on the gear tray providing accurate luminous flux.

The optic cover is made of hardened glass. It is fixed to the body by means of stainless steel clips. The IP protection is provided with silicone rubber. The glass can be hung on steel wire during installation and repair. The luminaire is fitted with stainless steel Pg 13,5 cable gland.

#### Installation:

- on metal lugs

During installation take care of sealing the holes with enclosed rubber and metal washers.



IP65



230 V  
50 Hz



Ø 26  
G 13

1-2,5 mm<sup>2</sup>

t 105 °C

t<sub>a</sub>  
45 °C

METAL  
960 °C

1F

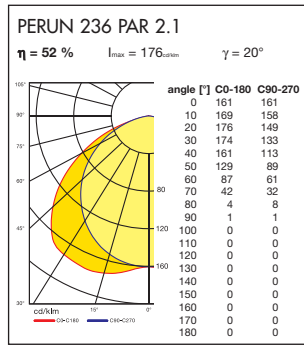
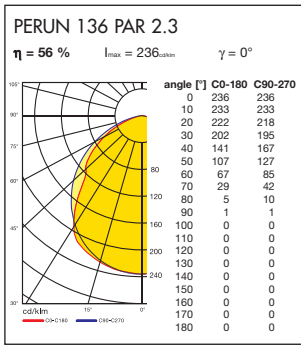
3F

VVG

EVG

EVG  
DIMM





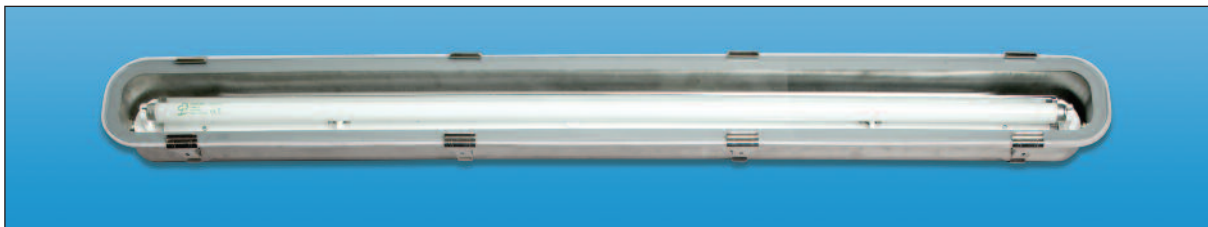
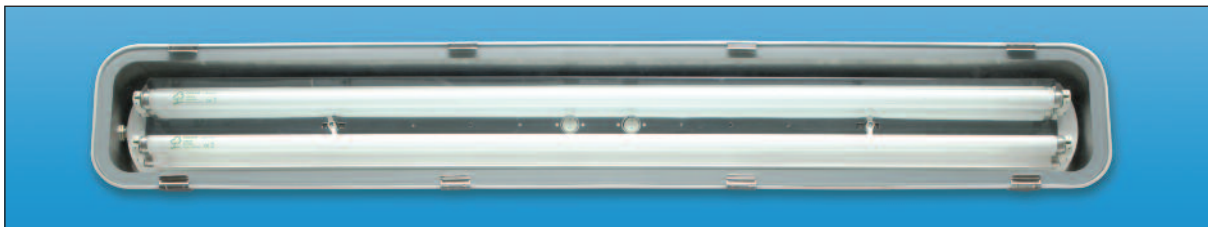
Order code	Type	Light sources		Luminous efficiency	Net weight	Dimensions				
		W		%		A	B	C	D	
<b>basic LPF wired type</b>										
45111	PERUN 118 Anticor K	1x18	T8/G13	66	4,6	695	100	95	485	
45121	PERUN 136 Anticor K	1x36	T8/G13	67	5,9	1305	100	95	1095	
45131	PERUN 158 Anticor K	1x58	T8/G13	63	7,7	1605	100	95	1395	
45141	PERUN 218 Anticor K	2x18	T8/G13	61	5,9	695	200	95	485	
45151	PERUN 236 Anticor K	2x36	T8/G13	62	7,7	1305	200	95	1095	
45161	PERUN 258 Anticor K	2x58	T8/G13	60	10,6	1605	200	95	1395	
<b>with electronic ballast</b>										
45115	PERUN 118 Anticor E	1x18	T8/G13	66	4,5	695	100	95	485	
45125	PERUN 136 Anticor E	1x36	T8/G13	67	5,5	1305	100	95	1095	
45135	PERUN 158 Anticor E	1x58	T8/G13	63	7,1	1605	100	95	1395	
45145	PERUN 218 Anticor E	2x18	T8/G13	61	5,5	695	200	95	485	
45155	PERUN 236 Anticor E	2x36	T8/G13	62	6,9	1305	200	95	1095	
45165	PERUN 258 Anticor E	2x58	T8/G13	60	9,6	1605	200	95	1395	

- 451x7 modification with dimmable electronic ballast (ER=DIM)
- 451x8 modification with maintained 1hr emergency unit (M1h)



**Accessories for PERUN**

Order code	Type
PAR 2.1	polished aluminium reflector for PERUN 236
PAR 2.2	polished aluminium reflector for PERUN 258
PAR 2.3	polished aluminium reflector for PERUN 136
PAR 2.4	polished aluminium reflector for PERUN 158
PAR 3.1	polished aluminium reflector for PERUN 228/254
PAR 3.2	polished aluminium reflector for PERUN 235/249/280
PAR 3.3	polished aluminium reflector for PERUN 128/154
PAR 3.4	polished aluminium reflector for PERUN 135/149/180



# PERUN T5



IP65



230 V  
50 Hz



Ø 16  
G 5

1-2,5 mm<sup>2</sup>

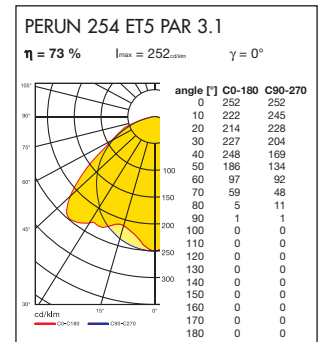
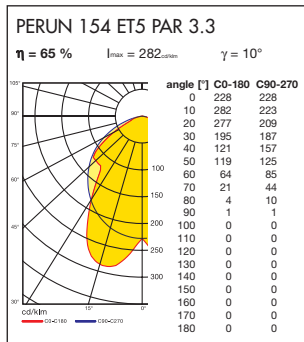


t 105 °C  
45 °C

METAL  
960 °C

1F

3F



Order code	Type	Light sources		Luminous efficiency %	Net weight kg	Dimensions mm				
		W				A	B	C	D	
<b>with T5 electronic ballast – high efficiency range</b>										
45510	PERUN 114 Anticor ET5	1x14	T5/G5	70	4,5	705	135	95	485	
45520	PERUN 128 Anticor ET5	1x28	T5/G5	69	5,5	1305	135	95	1095	
45530	PERUN 135 Anticor ET5	1x35	T5/G5	67	7,1	1605	135	95	1395	
45540	PERUN 214 Anticor ET5	2x14	T5/G5	66	5,5	705	200	95	485	
45550	PERUN 228 Anticor ET5	2x28	T5/G5	64	6,9	1305	200	95	1095	
45560	PERUN 235 Anticor ET5	2x35	T5/G5	63	9,6	1605	200	95	1395	
<b>with T5 electronic ballast – high output range</b>										
45515	PERUN 124 Anticor ET5	1x24	T5/G5	70	4,5	705	135	95	485	
45525	PERUN 154 Anticor ET5	1x54	T5/G5	69	5,5	1305	135	95	1095	
45535	PERUN 180 Anticor ET5	1x80	T5/G5	67	7,1	1605	135	95	1395	
45575	PERUN 149 Anticor ET5	1x49	T5/G5	67	7,1	1605	135	95	1395	
45545	PERUN 224 Anticor ET5	2x24	T5/G5	66	5,5	705	200	95	485	
45555	PERUN 254 Anticor ET5	2x54	T5/G5	64	6,9	1305	200	95	1095	
45565	PERUN 280 Anticor ET5	2x80	T5/G5	63	9,6	1605	200	95	1395	
45585	PERUN 249 Anticor ET5	2x49	T5/G5	63	9,6	1605	200	95	1395	

455x7 modification with dimmable electronic ballast T5 (ERT5=DIM)



# PERUN ta60

INDUSTRIAL WATERPROOF AND DUSTPROOF

fluorescent lighting fittings

MADE OF ANTICORROSIVE STEEL SHEET

for *higher ambient temperature up to ta 60 °C*



## Use:

PERUN ANTICOR ta60 luminaires are suitable for illumination of indoor industrial areas with a maximum ambient temperature up to 60 °C.

## Description:

The luminaires are wired with halogen free wire with temperature resistance up to +110 °C.

Electromagnetic higher temperature resistant ballast is used.

Order code	Type	Light sources		Luminous efficiency %	Net weight kg	Dimensions mm				
		W				A	B	C	D	
modification for higher ambient temperature ta 60 °C										
45310	PERUN 118 Anticor ta60	1x18	T8/G13	69	4,6	705	135	95	485	
45320	PERUN 136 Anticor ta60	1x36	T8/G13	67	5,9	1305	135	95	1095	
45330	PERUN 158 Anticor ta60	1x58	T8/G13	63	7,7	1605	135	95	1395	
45340	PERUN 218 Anticor ta60	2x18	T8/G13	65	5,9	705	200	95	485	
45350	PERUN 236 Anticor ta60	2x36	T8/G13	62	7,7	1305	200	95	1095	
45360	PERUN 258 Anticor ta60	2x58	T8/G13	60	10,6	1605	200	95	1395	

# PERUN $t_a$ -40

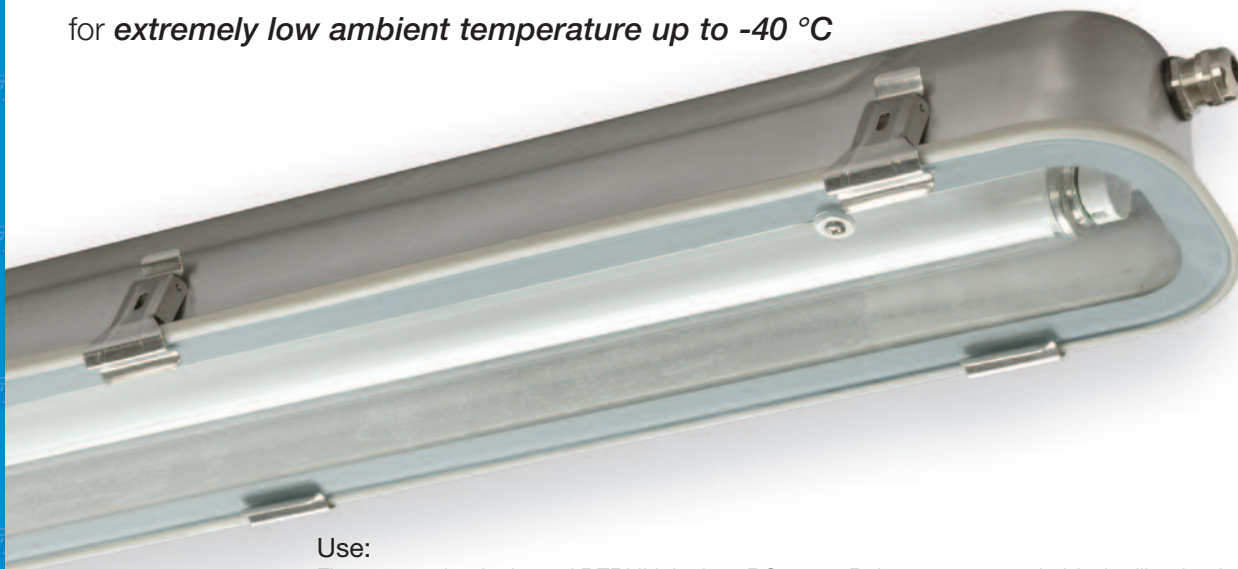
INDUSTRIAL WATERPROOF AND  
DUSTPROOF

fluorescent lighting fittings

MADE OF ANTICORROSIVE  
STEEL SHEET

## Polar

for *extremely low ambient temperature up to -40 °C*



### Use:

Fluorescent luminaires of PERUN Anticor PC ta-40 Polar range are suitable for illumination of areas with extremely low ambient temperature to -40 °C.

### Description:

The luminaires are equipped with glow switch starters for igniting fluorescent lamps in arctic conditions.

It is necessary to use special double-tube fluorescent tubes (Philips Master Xtra Polar or Aura Ultimate Thermo) to be able to achieve the requested level of luminous flux. The diameter of such fluorescent tube is 32 mm or 38 mm.

Order code	Type	Light sources		Luminous efficiency %	Net weight kg	Dimensions mm				
		W				A	B	C	D	
Modification for extremely low ambient temperature to -40 °C										
45410	PERUN 118 Polar ta-40	1x18	T8/G13	69	4,6	705	135	95	485	
45420	PERUN 136 Polar ta-40	1x36	T8/G13	67	5,9	1305	135	95	1095	
45430	PERUN 158 Polar ta-40	1x58	T8/G13	63	7,7	1605	135	95	1395	
45440	PERUN 218 Polar ta-40	2x18	T8/G13	65	5,9	705	200	95	485	
45450	PERUN 236 Polar ta-40	2x36	T8/G13	62	7,7	1305	200	95	1095	
45460	PERUN 258 Polar ta-40	2x58	T8/G13	60	10,6	1605	200	95	1395	



IP65



230 V  
50 Hz



X 38  
G 13

X 32  
G 13

1-2,5 mm<sup>2</sup>



t 105 °C

$t_a$   
-40 °C

METAL  
960 °C

1F

3F

VVG



# ALUMAX

INDUSTRIAL WATERPROOF AND DUSTPROOF  
fluorescent lighting fittings  
MADE OF ALUMINIUM PROFILE



#### Use:

Industrial indoor and outdoor areas, sports grounds, workshops, garages, agricultural buildings, warehouses. Lighting fittings are resistant to dust, damp and jetting water also in corrosive environment.

#### Description, optics:

The luminaire **body** is made of aluminium profile. The end caps closing the profile are produced of aluminum alloy.

The **reflector** is produced of polished aluminium and enables to regulate the luminous flux.

The **optic cover** is made of hardened safety glass. It is fixed to the body with stainless steel clips. The IP protection is provided with a silicone rubber. The glass cover is locked in side holders. They can be opened together with glass during the replacement of fluorescent tubes. The luminaire is fitted with brass Pg 13,5 cable gland.

#### Installation:

- on sliding suspensions, which are placed in the body groove.



IP65



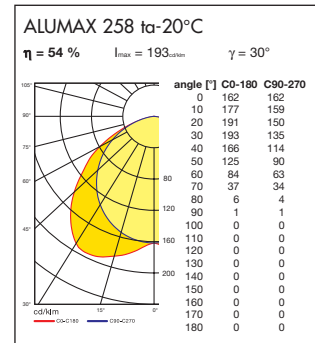
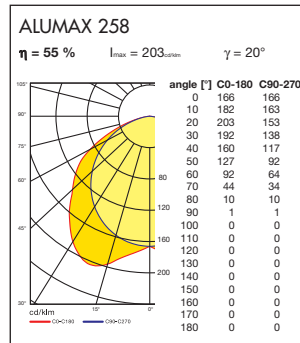
230 V  
50 Hz



1F

3F





Order code	Type	Light sources		Luminous efficiency %	Net weight kg	Dimensions mm			
		W				A	B	C	D
<b>basic HPF wired modification</b>									
44211	ALUMAX 118 K	1x18	T8/G13	58	3,2	670	140	90	580
44221	ALUMAX 136 K	1x36	T8/G13	57	4,6	1282	140	90	1192
44231	ALUMAX 158 K	1x58	T8/G13	57	6,8	1582	140	90	1492
44241	ALUMAX 218 K	2x18	T8/G13	56	3,4	670	140	90	580
44251	ALUMAX 236 K	2x36	T8/G13	56	4,9	1282	140	90	1192
44261	ALUMAX 258 K	2x58	T8/G13	55	7,4	1582	140	90	1492
<b>modification with electronic ballast</b>									
44215	ALUMAX 118 E	1x18	T8/G13	58	2,8	670	140	90	580
44225	ALUMAX 136 E	1x36	T8/G13	57	3,9	1282	140	90	1192
44235	ALUMAX 158 E	1x58	T8/G13	57	5,8	1582	140	90	1492
44225	ALUMAX 218 E	2x18	T8/G13	56	3,0	670	140	90	580
44255	ALUMAX 236 E	2x36	T8/G13	56	4,1	1282	140	90	1192
44265	ALUMAX 258 E	2x58	T8/G13	55	6,1	1582	140	90	1492

spacing for fixing E = 135 mm

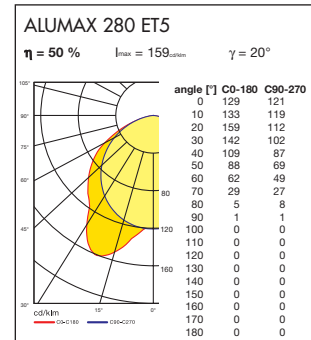
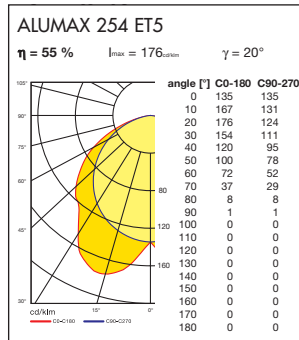
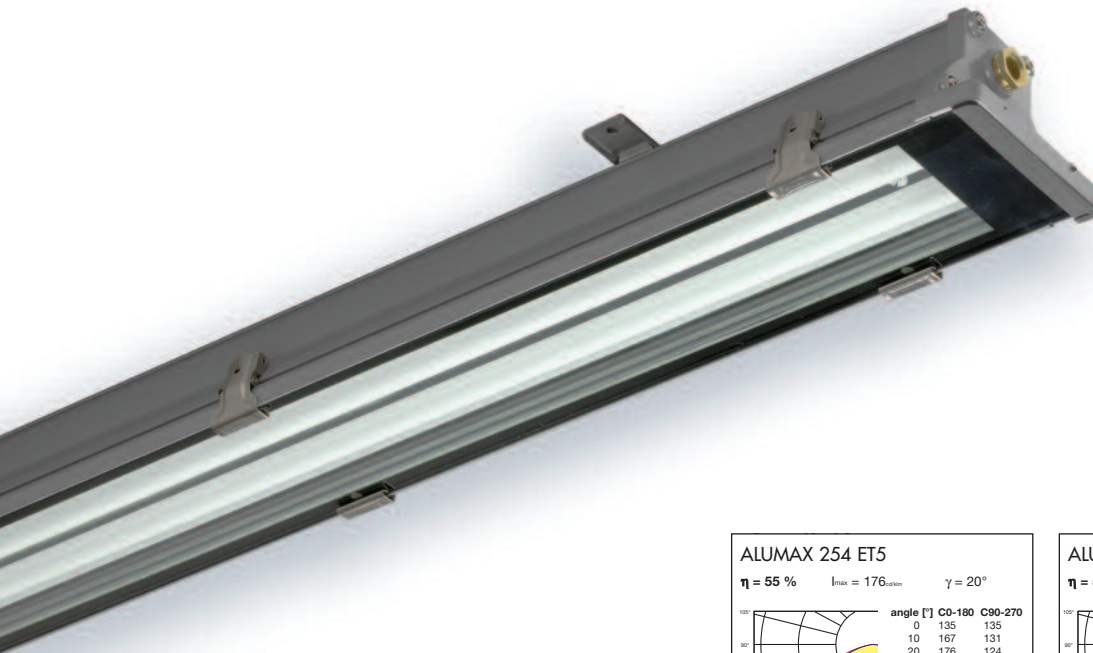
442x7 modification with dimmable electronic ballast (ER=DIM)

442x8 modification with maintained 1hr emergency unit (M1h)



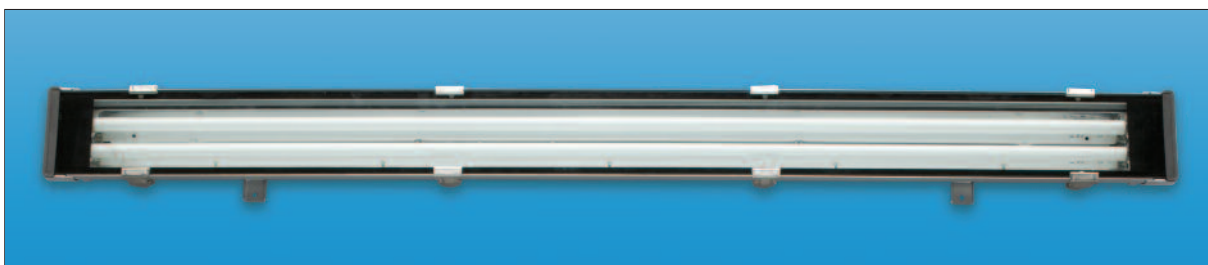


# ALUMAX T5



Order code	Type	Light sources	Luminous efficiency	Net weight	Dimensions			
		W	%		A	B	C	D
with T5 electronic ballast – high efficiency range								max.
44510	ALUMAX 114 ET5	1x14	T5/G5 60	2,4	624	105	75	534
44520	ALUMAX 128 ET5	1x28	T5/G5 59	3,3	1224	105	75	1134
44530	ALUMAX 135 ET5	1x35	T5/G5 57	4,6	1524	105	75	1434
44540	ALUMAX 214 ET5	2x14	T5/G5 56	2,5	624	105	75	534
44550	ALUMAX 228 ET5	2x28	T5/G5 54	3,4	1224	105	75	1134
44560	ALUMAX 235 ET5	2x35	T5/G5 53	4,7	1524	105	75	1434
with T5 electronic ballast – high output range								max.
44515	ALUMAX 124 ET5	1x24	T5/G5 60	2,4	624	105	75	534
44525	ALUMAX 154 ET5	1x54	T5/G5 59	3,3	1224	105	75	1134
44535	ALUMAX 180 ET5	1x80	T5/G5 57	4,6	1524	105	75	1434
44575	ALUMAX 149 ET5	1x49	T5/G5 57	4,6	1524	105	75	1434
44545	ALUMAX 224 ET5	2x24	T5/G5 56	2,5	624	105	75	534
44555	ALUMAX 254 ET5	2x54	T5/G5 54	3,4	1224	105	75	1134
44565	ALUMAX 280 ET5	2x80	T5/G5 53	4,7	1524	105	75	1434
44585	ALUMAX 249 ET5	2x49	T5/G5 53	4,7	1524	105	75	1434

spacing for fixing E = 135 mm  
 445x7 modification with dimmable electronic ballast T5 (ERT5=DIM)



# ST

## BATTEN fluorescent lighting fittings



### Use:

ST and ST T5 fluorescent lighting fittings are used to illuminate production halls, stocks, supermarkets, corridors and other areas where it is suitable to install a long lines of fittings.

### Description:

The body of the lighting fitting is made of a steel sheet. It is powder coated with white colour on both sides. ST luminaires are delivered in single or double tube modification. The luminaires can be provided with angular (R) or rounded (OR) reflector. The rounded reflector can be fitted with opal acrylic diffuser. The rounded reflector with ST T5 modification can be fitted with optical parabolic polished or matted louvre. The luminaires can be one-phase or three-phase connected through Wieland outside terminal blocks which can be optionally flush-mounted in the end caps.

### Modifications:

- basic LPF wired
- HPF wired
- with electronic ballast
- with electronic ballast T5
- with dimmable electronic ballast



IP20

230 V  
50 Hz



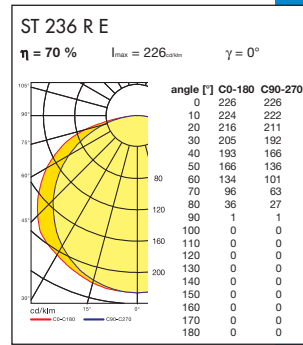
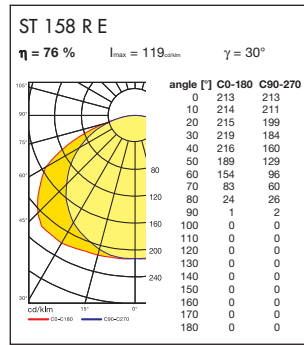
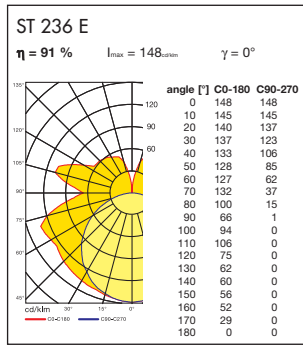
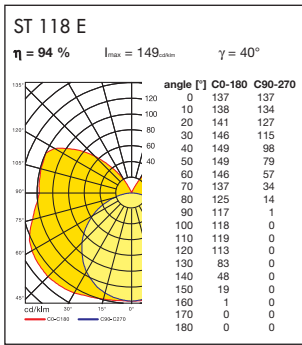
30°C

1F

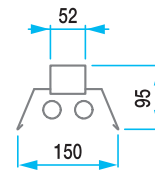
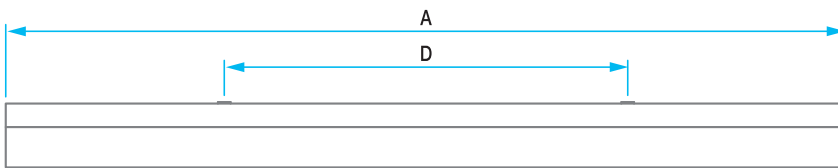
3F







Order code	Type	Light sources	Luminous efficiency	Net weight	Dimensions	Order code	Type	Net weight	
		W	%	kg	A D			kg	
basic modification without reflector					with reflector (R)				
17010	ST 118	1x18	T8/G13	94	1,5	640 450	17110	ST 118 R	2,0
17020	ST 136	1x36	T8/G13	94	2,1	1250 600	17120	ST 136 R	3,3
17030	ST 158	1x58	T8/G13	94	3,0	1550 900	17130	ST 158 R	4,5
17040	ST 218	2x18	T8/G13	91	1,6	640 450	17140	ST 218 R	2,1
17050	ST 236	2x36	T8/G13	91	3,0	1250 600	17150	ST 236 R	4,2
17060	ST 258	2x58	T8/G13	91	4,1	1550 900	17160	ST 258 R	5,6
modification with outside terminal block Wieland (S)					with reflector (R S)				
17210	ST 118 S	1x18	T8/G13	94	1,5	640 450	17310	ST 118 R S	2,0
17220	ST 136 S	1x36	T8/G13	94	2,1	1250 600	17320	ST 136 R S	3,3
17230	ST 158 S	1x58	T8/G13	94	3,0	1550 900	17330	ST 158 R S	4,5
17240	ST 218 S	2x18	T8/G13	91	1,6	640 450	17340	ST 218 R S	2,1
17250	ST 236 S	2x36	T8/G13	91	3,0	1250 600	17350	ST 236 R S	4,2
17260	ST 258 S	2x58	T8/G13	91	4,1	1550 900	17360	ST 258 R S	5,6



# ST T5

BATTEN fluorescent lighting fittings

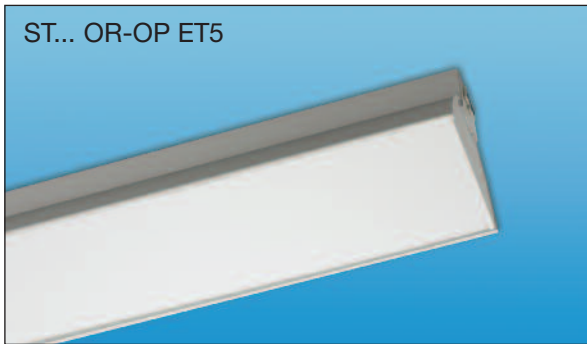


Order code	Type	Light sources		Net weight	Dimensions		Order code	Type	Net weight
		W		kg	A	D			kg
					mm				
with T5 electronic ballast HE, without reflector							with rounded reflector (OR)		
27010	ST 114 ET5	1x14	T5/G5	1,1	600	450	27110	ST 114 OR ET5	1,6
27020	ST 128 ET5	1x28	T5/G5	1,7	1200	600	27120	ST 128 OR ET5	2,9
27030	ST 135 ET5	1x35	T5/G5	2,5	1500	900	27130	ST 135 OR ET5	4,0
27040	ST 214 ET5	2x14	T5/G5	1,2	600	450	27140	ST 214 OR ET5	1,7
27050	ST 228 ET5	2x28	T5/G5	1,8	1200	600	27150	ST 228 OR ET5	3,0
27060	ST 235 ET5	2x35	T5/G5	2,6	1500	900	27160	ST 235 OR ET5	4,1
with T5 electronic ballast HO, without reflector							with rounded reflector (OR)		
27015	ST 124 ET5	1x24	T5/G5	1,1	600	450	27115	ST 124 OR ET5	1,6
27025	ST 154 ET5	1x54	T5/G5	1,7	1200	600	27125	ST 154 OR ET5	2,9
27035	ST 180 ET5	1x80	T5/G5	2,5	1500	900	27135	ST 180 OR ET5	4,0
27075	ST 149 ET5	1x49	T5/G5	2,5	1500	900	27175	ST 148 OR ET5	4,0
27045	ST 224 ET5	2x24	T5/G5	1,2	600	450	27145	ST 224 OR ET5	1,7
27055	ST 254 ET5	2x54	T5/G5	1,8	1200	600	27155	ST 254 OR ET5	3,0
27065	ST 280 ET5	2x80	T5/G5	2,6	1500	900	27165	ST 280 OR ET5	4,1
27085	ST 249 ET5	2x49	T5/G5	2,6	1500	900	27185	ST 249 OR ET5	4,1

272xx ET5 modification with outside terminal block Wieland

273xx ET5 modification with outside terminal block Wieland with rounded reflector (OR)





**ST-T5 accessories**

Order code	Type	Description
27811	OR-OP 14	opal acrylic diffuser for rounded reflector for types ST 14/24 T5
27812	OR-OP 28	opal acrylic diffuser for rounded reflector for types ST 28/54 T5
27813	OR-OP 35	opal acrylic diffuser for rounded reflector for types ST 35/49/80 T5
27821	OR-PAR 14	parabolic polished louvre for rounded reflector for types ST 14/24 T5
27822	OR-PAR 28	parabolic polished louvre for rounded reflector for types ST 28/54 T5
27823	OR-PAR 35	parabolic polished louvre for rounded reflector for types ST 35/49/80 T5
27831	OR-PARMAT 14	parabolic matted louvre for rounded reflector for types ST 14/24 T5
27832	OR-PARMAT 28	parabolic matted louvre for rounded reflector for types ST 28/54 T5
27833	OR-PARMAT 35	parabolic matted louvre for rounded reflector for types ST 35/49/80 T5
70001	KBA 40ZU PROFIL	holder for Canalis KBA system
70002	KBC 10CC211	connector and supply cable 3x1,5mm <sup>2</sup> 1m long for Canalis system



## Options for quick connection of luminaires through outside terminal blocks

S1F – one-phase through wired – GST 18i3 – with three-pole terminal block

S3F – three-phase through wired – GST 15i5 – with five-pole terminal block

- enables a quick and easy installation without a previous disassembly
- enables to realize the connection of lighting fittings in a small space
- enables the change of length of the connection
- all the connections have a pawl not to be plucked out (according to EN 60320, IEC 320)

Technical parametres

250 V, 16 A, IP20

Permanent permissible warming of wire - 70 °C

Thermal insulation of wire 100 °C

Load of wire parametres

connection cable 3x1,5 mm<sup>2</sup> = 0,16 kWh + 0,4 kWh/m

supply cable 3x1,5 mm<sup>2</sup> = 0,08 kWh + 0,4 kWh/m



17401 GST 18i3 - S1



27401 GST 15i5 - S1



17421 GST 18i3 - S 21



17442 GST 18i3 - S 32



Connection cables and connectors GST18i3 for Wieland 1-phase system			
Order code	Type	Description	Length m
17401	GST 18i3 – S1	3-pole connection terminal block	
17421	GST 18i3 – S 21	connection cable 3x1,5mm <sup>2</sup> (plug/socket)	1
17422	GST 18i3 – S 22	connection cable 3x1,5mm <sup>2</sup> (plug/socket)	2
17423	GST 18i3 – S 23	connection cable 3x1,5mm <sup>2</sup> (plug/socket)	3
17424-8	GST 18i3 – S 24-28	connection cable 3x1,5mm <sup>2</sup> (plug/socket)	4-8
17431	GST 18i3 – S 31	connection cable 3x1,5mm <sup>2</sup> (socket/free end)	1
17432	GST 18i3 – S 32	connection cable 3x1,5mm <sup>2</sup> (socket/free end)	2
17433	GST 18i3 – S 33	connection cable 3x1,5mm <sup>2</sup> (socket/free end)	3
17434-8	GST 18i3 – S 34-38	connection cable 3x1,5mm <sup>2</sup> (socket/free end)	4-8
17441	GST 18i3 – S 41	connection cable 3x1,5mm <sup>2</sup> (plug/free end)	1
17442	GST 18i3 – S 42	connection cable 3x1,5mm <sup>2</sup> (plug/free end)	2
17443	GST 18i3 – S 43	connection cable 3x1,5mm <sup>2</sup> (plug/free end)	3
17444-8	GST 18i3 – S 44-48	connection cable 3x1,5mm <sup>2</sup> (plug/free end)	4-8

Connection cables and connectors GST15i5 for Wieland 3-phase system			
Order code	Type	Description	Length m
27401	GST 15i5 – S1	5-pole connection terminal block	
27421	GST 15i5 – S 21	connection cable 5x1,5mm <sup>2</sup> (plug/socket)	1
27422	GST 15i5 – S 22	connection cable 5x1,5mm <sup>2</sup> (plug/socket)	2
27423	GST 15i5 – S 23	connection cable 5x1,5mm <sup>2</sup> (plug/socket)	3
27424-8	GST 15i5 – S 24-28	connection cable 5x1,5mm <sup>2</sup> (plug/socket)	4-8
27431	GST 15i5 – S 31	connection cable 5x1,5mm <sup>2</sup> (socket/free end)	1
27432	GST 15i5 – S 32	connection cable 5x1,5mm <sup>2</sup> (socket/free end)	2
27433	GST 15i5 – S 33	connection cable 5x1,5mm <sup>2</sup> (socket/free end)	3
27434-8	GST 15i5 – S 34-38	connection cable 5x1,5mm <sup>2</sup> (socket/free end)	4-8
27441	GST 15i5 – S 41	connection cable 5x1,5mm <sup>2</sup> (plug/free end)	1
27442	GST 15i5 – S 42	connection cable 5x1,5mm <sup>2</sup> (plug/free end)	2
27443	GST 15i5 – S 43	connection cable 5x1,5mm <sup>2</sup> (plug/free end)	3
27444-8	GST 15i5 – S 44-48	connection cable 5x1,5mm <sup>2</sup> (plug/free end)	4-8

Longer cables than 8 m can be delivered on demand.



# BELTR

INDOOR SURFACE MOUNTED  
fluorescent lighting fittings



## Use:

Offices, hospitals, schools and other common rooms, kitchens, corridors etc.

## Description, optics:

The reflector (the body of the fitting) is made of a white painted steel sheet.

The diffuser is produced of UV stabilized polycarbonate. It is fixed to the body by successive pressing and pushing into body groove in the whole length. The profile is provided with end caps at both sides.

## Modifications of diffuser:

- TR - transparent profile
- OP - opalized profile

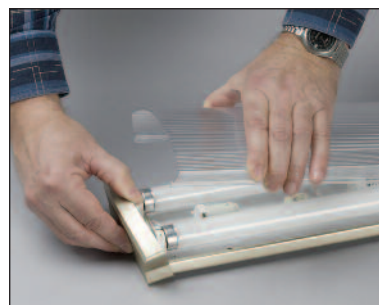
## The way of fitting's suspension

- directly on a surface (also flammable) using two wood screws in prepared holes.

## Modifications:

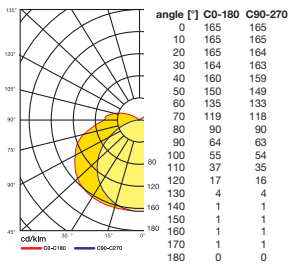
- basic type is LPF wired, equipped with three-pole screwless terminal block, radio-interference capacitor and starters.
- HPF wired – the lighting fitting is compensated with parallel compensating capacitor
- with electronic ballast
- with T5 electronic ballast
- with dimmable electronic ballast

Modification with outside terminal block Wieland – the luminaires can be 1 phase or 3 phase (only 2x36W and 2x58W) through wired and directly connected into rows.



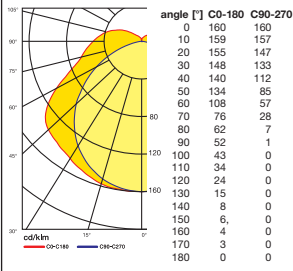
### BELTR 136

$\eta = 74\%$   $I_{max} = 165_{lm/w}$   $\gamma = 10^\circ$



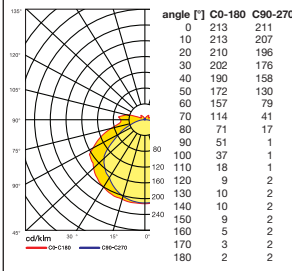
### BELTR 218

$\eta = 70\%$   $I_{max} = 160_{lm/w}$   $\gamma = 0^\circ$



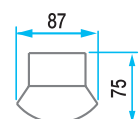
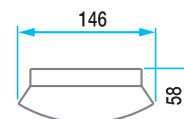
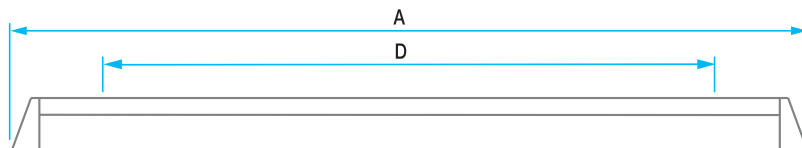
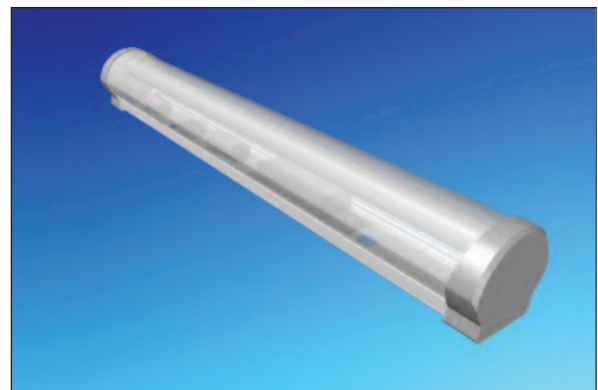
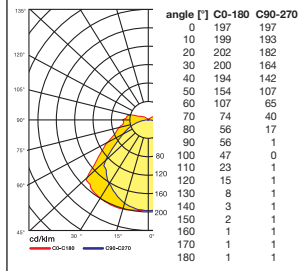
### BELTR 135 T5

$\eta = 83\%$   $I_{max} = 213_{lm/w}$   $\gamma = 0^\circ$



### BELTR 228 T5

$\eta = 79\%$   $I_{max} = 202_{lm/w}$   $\gamma = 20^\circ$







## BELTR - transparent PC diffuser

Order code	Type	Light sources		Luminous efficiency %	Net weight kg	Dimensions mm		Order code	Type
		W	H			A	D		
<b>basic modification – transparent PC diffuser</b>								<b>with outside terminal block (S)</b>	
24010	BELTR 118	1x18	T8/G13	79	1,0	635	450		
24020	BELTR 136	1x36	T8/G13	79	1,6	1240	900		
24030	BELTR 158	1x58	T8/G13	79	2,0	1540	900		
24040	BELTR 218	2x18	T8/G13	75	1,4	635	450	24140	BELTR 218 S1F
24050	BELTR 236	2x36	T8/G13	75	2,6	1240	900	24150	BELTR 236 S1F
24060	BELTR 258	2x58	T8/G13	73	3,5	1540	900	24160	BELTR 258 S1F
<i>Codes for 3 phase through wired version with outside terminal block (S3F)</i>								<i>241x2 BELTR xxx S3F</i>	
<b>modification with electronic ballast – transparent PC diffuser</b>								<b>with outside terminal block (S)</b>	
24015	BELTR 118 E	1x18	T8/G13	79	0,8	635	450		
24025	BELTR 136 E	1x36	T8/G13	79	1,2	1240	900		
24035	BELTR 158 E	1x58	T8/G13	79	1,6	1540	900		
24045	BELTR 218 E	2x18	T8/G13	75	1,0	635	450	24145	BELTR 218 S1F E
24055	BELTR 236 E	2x36	T8/G13	75	1,7	1240	900	24155	BELTR 236 S1F E
24065	BELTR 258 E	2x58	T8/G13	73	2,0	1540	900	24165	BELTR 258 S1F E
<i>Codes for 3 phase through wired version with outside terminal block (S3F)</i>								<i>241x6 BELTR xxx S3F E</i>	

- 240x7 modification with dimmable electronic ballast (ER=DIM)
- 240x8 modification with maintained 1hr emergency unit (M1h)



## BELTR OP - opalized PC diffuser

Order code	Type	Light sources		Luminous efficiency %	Net weight kg	Dimensions mm		Order code	Type
		W	H			A	D		
<b>basic modification – opalized PC diffuser</b>								<b>with outside terminal block (S)</b>	
24210	BELTR 118 OP	1x18	T8/G13	69	1,0	635	450		
24220	BELTR 136 OP	1x36	T8/G13	69	1,6	1240	900		
24230	BELTR 158 OP	1x58	T8/G13	69	2,0	1540	900		
24240	BELTR 218 OP	2x18	T8/G13	65	1,4	635	450	24340	BELTR 218 OP S1F
24250	BELTR 236 OP	2x36	T8/G13	65	2,6	1240	900	24350	BELTR 236 OP S1F
24260	BELTR 258 OP	2x58	T8/G13	63	3,5	1540	900	24360	BELTR 258 OP S1F
<i>Codes for 3 phase through wired version with outside terminal block (S3F)</i>								<i>243x2 BELTR xxx OP S3F</i>	
<b>modification with electronic ballast – opalized PC diffuser</b>								<b>with outside terminal block (S)</b>	
24215	BELTR 118 OP E	1x18	T8/G13	69	0,8	635	450		
24225	BELTR 136 OP E	1x36	T8/G13	69	1,2	1240	900		
24235	BELTR 158 OP E	1x58	T8/G13	69	1,6	1540	900		
24245	BELTR 218 OP E	2x18	T8/G13	65	1,0	635	450	24345	BELTR 218 OP S1F E
24255	BELTR 236 OP E	2x36	T8/G13	65	1,7	1240	900	24355	BELTR 236 OP S1F E
24265	BELTR 258 OP E	2x58	T8/G13	63	2,0	1540	900	24365	BELTR 258 OP S1F E
<i>Codes for 3 phase through wired version with outside terminal block (S3F)</i>								<i>243x6 BELTR xxx OP S3F E</i>	

- 242x7 modification with dimmable electronic ballast (ER=DIM)
- 242x8 modification with maintained 1hr emergency unit (M1h)

# BELTR T5

BELTR T5



BELTR T5 - transparent PC diffuser

Order code	Type	Light sources	Luminous efficiency	Net weight	Dimensions	Order code	Type
		W	%	kg	A D		
					mm		
<b>with T5 electronic ballast HE range</b>					<b>with outside terminal block (S)</b>		
24510	BELTR 114 ET5	1x14 T5/G5	85	0,7	595	450	
24520	BELTR 128 ET5	1x28 T5/G5	85	1,1	1195	900	
24530	BELTR 135 ET5	1x35 T5/G5	85	1,5	1495	900	
24540	BELTR 214 ET5	2x14 T5/G5	81	0,9	595	450	24640 BELTR 214 S1F ET5
24550	BELTR 228 ET5	2x28 T5/G5	81	1,6	1195	900	24650 BELTR 228 S1F ET5
24560	BELTR 235 ET5	2x35 T5/G5	79	1,9	1495	900	24660 BELTR 235 S1F ET5
<i>Codes for 3 phase through wired version with outside terminal block (S3F)</i>					<i>246x2 BELTR xxx S3F ET5</i>		
<b>with T5 electronic ballast HO range</b>					<b>with outside terminal block (S)</b>		
24515	BELTR 124 ET5	1x24 T5/G5	78	0,7	595	450	
24525	BELTR 154 ET5	1x54 T5/G5	78	1,1	1195	900	
24535	BELTR 180 ET5	1x80 T5/G5	78	1,5	1495	900	
24575	BELTR 149 ET5	1x49 T5/G5	83	1,5	1495	900	
24545	BELTR 224 ET5	2x24 T5/G5	77	0,9	595	450	24645 BELTR 224 S1F ET5
24555	BELTR 254 ET5	2x54 T5/G5	74	1,6	1195	900	24655 BELTR 254 S1F ET5
24565	BELTR 280 ET5	2x80 T5/G5	71	1,9	1495	900	24665 BELTR 280 S1F ET5
24585	BELTR 249 ET5	2x49 T5/G5	77	1,9	1495	900	24685 BELTR 249 S1F ET5
<i>Codes for 3 phase through wired version with outside terminal block (S3F)</i>					<i>246x6 BELTR xxx S3F ET5</i>		

BELTR OP T5



BELTR OP T5 - opalized PC diffuser

Order code	Type	Light sources	Luminous efficiency	Net weight	Dimensions	Order code	Type
		W	%	kg	A D		
					mm		
<b>with T5 electronic ballast HE range</b>					<b>with outside terminal block (S)</b>		
24710	BELTR 114 OP ET5	1x14 T5/G5	75	0,7	595	450	
24720	BELTR 128 OP ET5	1x28 T5/G5	75	1,1	1195	900	
24730	BELTR 135 OP ET5	1x35 T5/G5	75	1,5	1495	900	
24740	BELTR 214 OP ET5	2x14 T5/G5	71	0,9	595	450	24840 BELTR 214 OP S1F ET5
24750	BELTR 228 OP ET5	2x28 T5/G5	71	1,6	1195	900	24850 BELTR 228 OP S1F ET5
24760	BELTR 235 OP ET5	2x35 T5/G5	69	1,9	1495	900	24860 BELTR 235 OP S1F ET5
<i>Codes for 3 phase through wired version with outside terminal block (S3F)</i>					<i>248x2 BELTR xxx OP S3F ET5</i>		
<b>with T5 electronic ballast HO range</b>					<b>with outside terminal block (S)</b>		
24715	BELTR 124 OP ET5	1x24 T5/G5	68	0,7	595	450	
24725	BELTR 154 OP ET5	1x54 T5/G5	68	1,1	1195	900	
24735	BELTR 180 OP ET5	1x80 T5/G5	68	1,5	1495	900	
24775	BELTR 149 OP ET5	1x49 T5/G5	73	1,5	1495	900	
24745	BELTR 224 OP ET5	2x24 T5/G5	67	0,9	595	450	24845 BELTR 224 OP S1F ET5
24755	BELTR 254 OP ET5	2x54 T5/G5	64	1,6	1195	900	24855 BELTR 254 OP S1F ET5
24765	BELTR 280 OP ET5	2x80 T5/G5	61	1,9	1495	900	24865 BELTR 280 OP S1F ET5
24785	BELTR 249 OP ET5	2x49 T5/G5	67	1,9	1495	900	24885 BELTR 249 OP S1F ET5
<i>Codes for 3 phase through wired version with outside terminal block (S3F)</i>					<i>248x6 BELTR xxx OP S3F ET5</i>		



# BELTR



## Modifications identical to colour palette of product range TIME of ABB company

Surcharge for modification in metallic colours		
Order code	Type	Modification
94911	BELTR end cap 1 - titanium	metallic reflection on end cap – single tube version
94921	BELTR end cap 2 - titanium	metallic reflection on end cap – double tube version
94931	BELTR 18 - titanium	metallic reflection on sides of the body
94941	BELTR 36 - titanium	metallic reflection on sides of the body
94951	BELTR 58 - titanium	metallic reflection on sides of the body
94961	BELTR 14, 24 - titanium	metallic reflection on sides of the body
94971	BELTR 28, 54 - titanium	metallic reflection on sides of the body
94981	BELTR 35, 49, 80 - titanium	metallic reflection on sides of the body
949x2	BELTR xxxxx – old silver metallic reflection	
949x3	BELTR xxxxx – champagne metallic reflection	
949x4	BELTR xxxxx – arctic metallic reflection	
949x5	BELTR xxxxx – anthracite metallic reflection	

titanium



old silver



champagne



arctic



anthracite



## BELTR OP - metallic reflection, opalized PC diffuser

Order code	Type	Light sources		Net weight kg	Dimensions mm	
		W			A	D
modification with electronic ballast T5 - opalized PC diffuser						
24411	BELTR 118 OP E titanium	1x18	T8/G13	0,8	635	450
24421	BELTR 136 OP E titanium	1x36	T8/G13	1,2	1240	900
24431	BELTR 158 OP E titanium	1x58	T8/G13	1,6	1540	900
24441	BELTR 218 OP E titanium	2x18	T8/G13	1,0	635	450
24451	BELTR 236 OP E titanium	2x36	T8/G13	1,7	1240	900
24461	BELTR 258 OP E titanium	2x58	T8/G13	2,0	1540	900
244x2	BELTR xxx OP E TIME old silver					
244x3	BELTR xxx OP E TIME champagne					
244x4	BELTR xxx OP E TIME arctic					
244x5	BELTR xxx OP E TIME anthracite					

## BELTR OP T5 - metallic reflection, opalized PC diffuser

Order code	Type	Light sources		Net weight kg	Dimensions mm	
		W			A	D
modification with electronic ballast T5 - opalized PC diffuser						
24911	BELTR 114 OP E titanium	1x14	T5/G5	0,7	595	450
24921	BELTR 128 OP E titanium	1x28	T5/G5	1,1	1195	900
24931	BELTR 135 OP E titanium	1x35	T5/G5	1,5	1495	900
24971	BELTR 149 OP E titanium	1x49	T5/G5	1,5	1495	900
24941	BELTR 214 OP E titanium	2x14	T5/G5	0,9	595	450
24951	BELTR 228 OP E titanium	2x28	T5/G5	1,6	1195	900
24961	BELTR 235 OP E titanium	2x35	T5/G5	1,9	1495	900
24981	BELTR 249 OP E titanium	2x49	T5/G5	1,9	1495	900
249x2	BELTR xxx OP E TIME old silver					
249x3	BELTR xxx OP E TIME champagne					
249x4	BELTR xxx OP E TIME arctic					
249x5	BELTR xxx OP E TIME anthracite					

# SM

INDOOR - OFFICE  
fluorescent lighting fittings



IP40

230 V  
50 Hz



**Use:**

Offices, hospitals, schools and other common rooms, kitchens, corridors etc.

**Description, optics:**

The reflector (the body of the fitting) is produced of a white painted steel sheet.

The diffuser is moulded of one plastic part. Used material is acrylic which is stabilized against UV rays.

The diffuser is fixed to the reflector with plastic clips, which secure the diffuser from falling and can be used for hanging of the diffuser during repair.

**Modifications of diffuser:**

- OPAL (OP) plain white
- PRISMATIC (KR) transparent with lens pattern
- PATTERNED OPAL (VROP) white with lens pattern (the production is possible only after agreement on demand)

**The way of fitting's suspension:**

- directly on a surface (also flammable) using four wood screws in prepared holes.

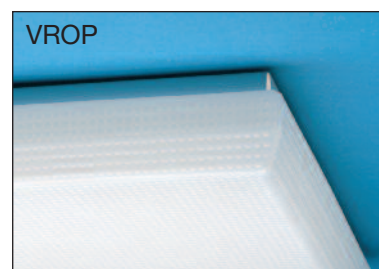
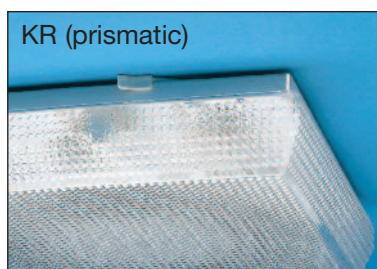
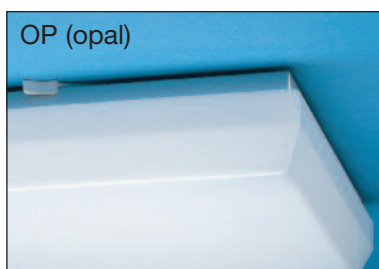
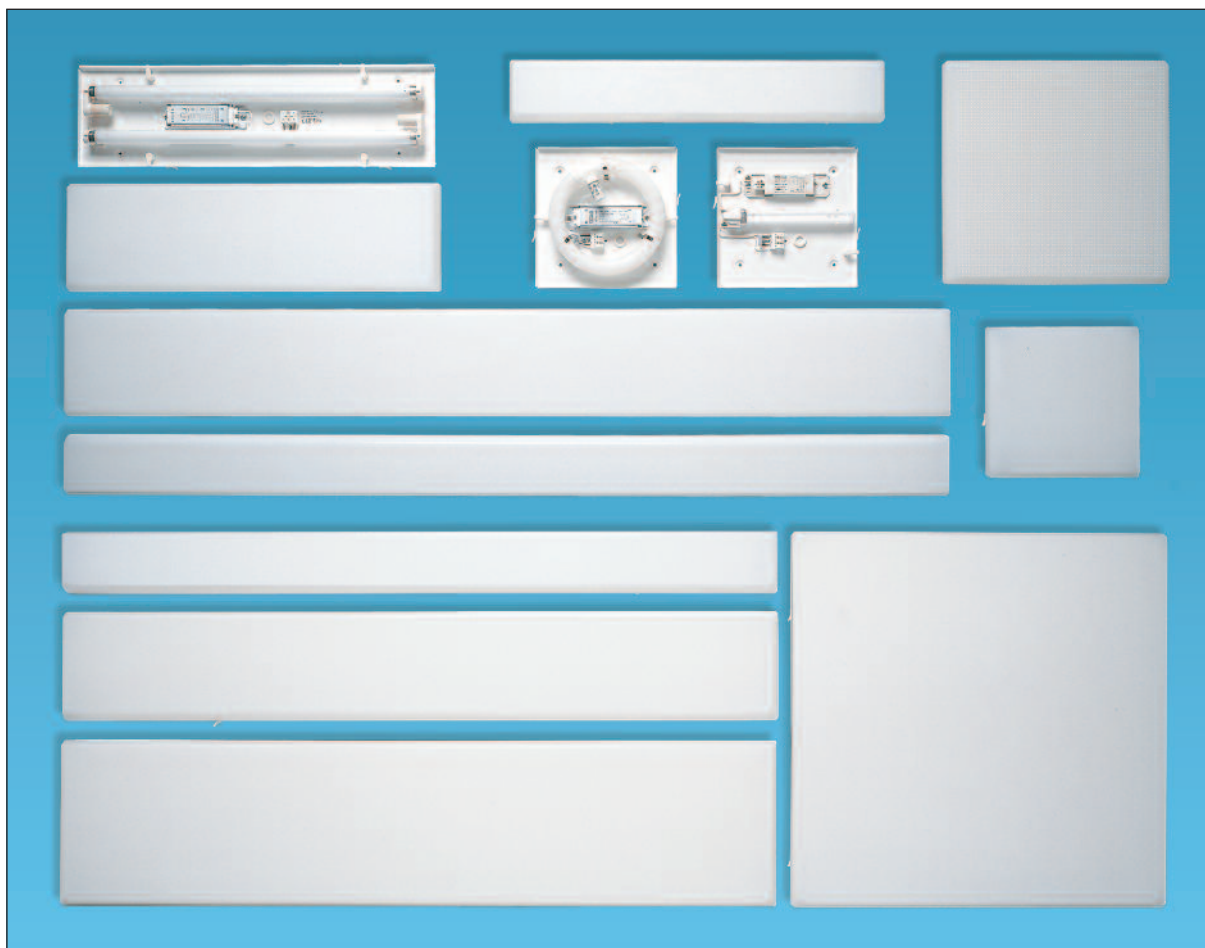
**Modifications:**

- Basic type is LPF wired, equipped with three-pole screwless terminal block, radio-interference capacitor and starters. The fitting can be additionally compensated with parallel capacitor.
- HPF wired – the lighting fitting is compensated with parallel compensating capacitor
- with an electronic ballast.
- with dimmable electronic ballast
- maintained emergency lighting fitting with an independent emergency source. It is running as other fittings under usual conditions. After power interruption one tube starts emergency mode automatically.

Delivery of plastic and metal components for customers' own assembly is possible.

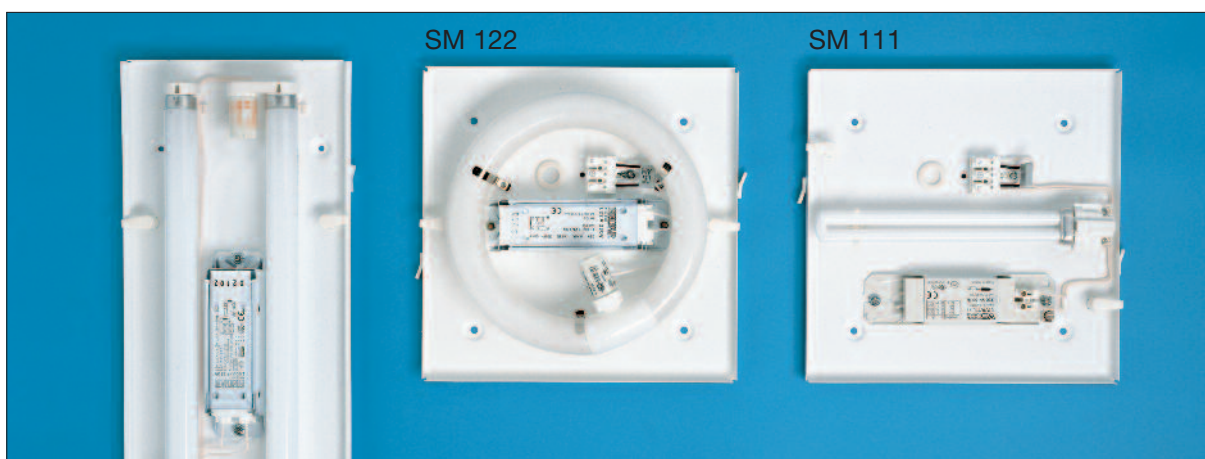


-  VVG
-  EVG
-  EVG DIMM
-  EMERGENCY

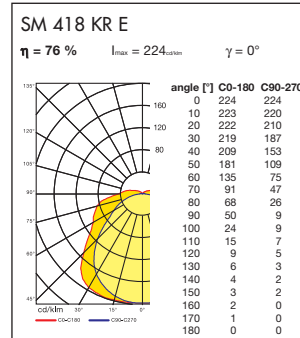
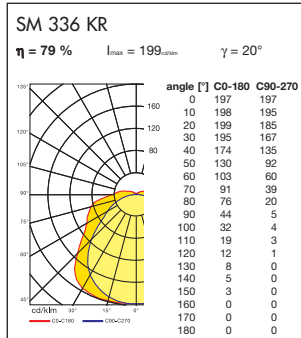
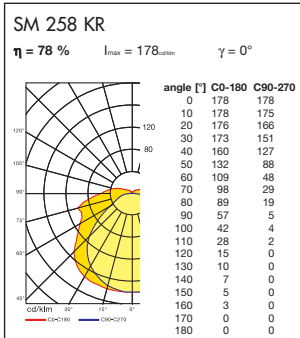
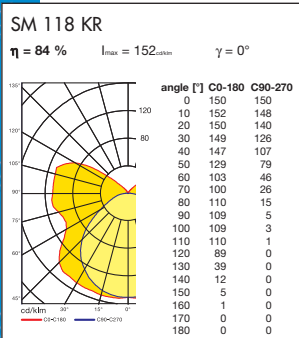


**Modifications of diffuser:**

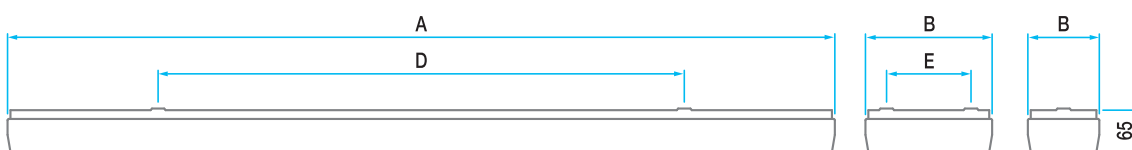
- OPAL (OP) plain white - luminous efficiency 70 %, advantage – lower glare
- PRISMATIC (KR) transparent with lens pattern, advantage – higher efficiency 80 %
- PATTERNED OPAL (VROP) white with lens pattern (the production is possible only after agreement on demand)



Possibilities of various light sources

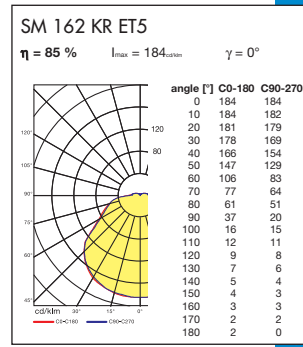
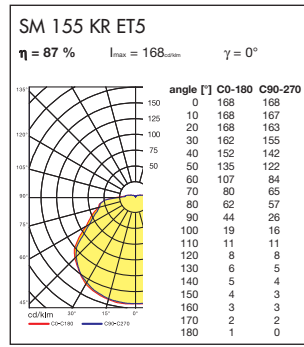
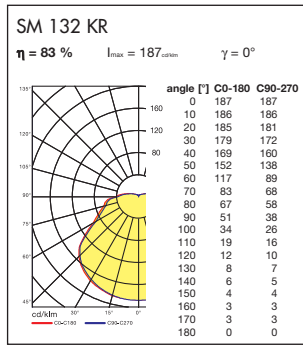
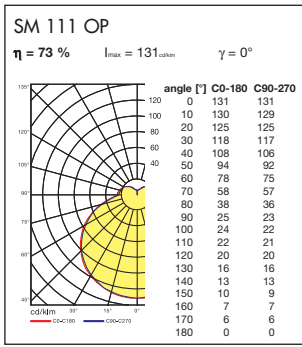


Order code	Type	Light sources		Luminous efficiency %	Net weight kg	Dimensions mm				
		W				A	B	D	E	
with opal diffuser										
12010	SM 118 OP	1x18	T8/G13	74	1,2	665	110	450		
12020	SM 136 OP	1x36	T8/G13	74	2,0	1270	110	750		
12030	SM 158 OP	1x58	T8/G13	74	2,7	1570	110	900		
12040	SM 218 OP	2x18	T8/G13	70	1,7	665	195	510	130	
12050	SM 236 OP	2x36	T8/G13	70	3,3	1270	195	810	130	
12060	SM 258 OP	2x58	T8/G13	68	4,5	1570	195	960	130	
12080	SM 336 OP	3x36	T8/G13	69	5,1	1270	295	900	200	
12090	SM 436 OP	4x36	T8/G13	64	5,6	1270	295	900	200	
12070	SM 418 OP	4x18	T8/G13	66	4,7	665	665	385	410	
with prismatic diffuser										
12011	SM 118 KR	1x18	T8/G13	84	1,2	665	110	450		
12021	SM 136 KR	1x36	T8/G13	84	2,0	1270	110	750		
12031	SM 158 KR	1x58	T8/G13	84	2,7	1570	110	900		
12041	SM 218 KR	2x18	T8/G13	80	1,7	665	195	510	130	
12051	SM 236 KR	2x36	T8/G13	80	3,3	1270	195	810	130	
12061	SM 258 KR	2x58	T8/G13	78	4,5	1570	195	960	130	
12081	SM 336 KR	3x36	T8/G13	79	5,1	1270	295	900	200	
12091	SM 436 KR	4x36	T8/G13	74	5,6	1270	295	900	200	
12071	SM 418 KR	4x18	T8/G13	76	4,7	665	665	385	410	
with electronic ballast										
12015	SM 118 OP E	1x18	T8/G13	74	0,9	665	110	450		
12025	SM 136 OP E	1x36	T8/G13	74	1,7	1270	110	750		
12035	SM 158 OP E	1x58	T8/G13	74	2,4	1570	110	900		
12045	SM 218 OP E	2x18	T8/G13	70	1,3	665	195	510	130	
12055	SM 236 OP E	2x36	T8/G13	70	2,5	1270	195	810	130	
12065	SM 258 OP E	2x58	T8/G13	68	3,0	1570	195	960	130	
12085	SM 336 OP E	3x36	T8/G13	69	4,1	1270	295	900	180	
12095	SM 436 OP E	4x36	T8/G13	64	4,1	1270	295	900	180	
12075	SM 418 OP E	4x18	T8/G13	66	3,9	665	665	385	410	

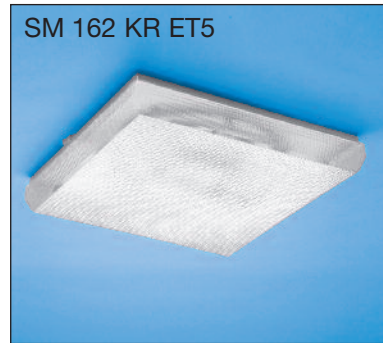


SM 436 OP K M3h

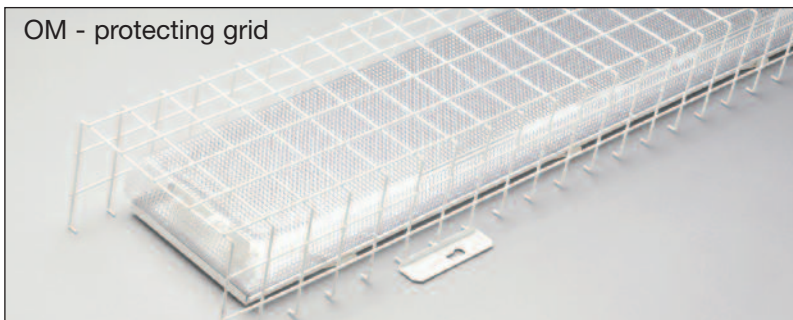




Order code	Type	Light sources		Luminous efficiency %	Net weight kg	Dimensions mm				
		W	H			A	B	D	E	
delivered including circular fluorescent tube										
12110	SM 122 OP	1x22	T8/G10q	73	1,3	275	275	170	170	
12130	SM 132 VROP	1x32	T8/G10q	72	2,2	400	400	240	240	
12111	SM 122 KR	1x22	T8/G10q	83	1,3	275	275	170	170	
12121	SM 132 KR	1x32	T8/G10q	83	2,2	400	400	240	240	
with PL lamp										
12140	SM 111 OP	1x11	G23	73	1,3	275	275	170	170	
with electronic ballast										
12115	SM 122 OP E	1x22	T8/G10q	73	1,0	275	275	170	170	
12125	SM 132 VROP E	1x32	T8/G10q	72	1,8	400	400	240	240	
12116	SM 122 KR E	1x22	T8/G10q	83	1,0	275	275	170	170	
12126	SM 132 KR E	1x32	T8/G10q	83	1,8	400	400	240	240	
with electronic ballast for T5 lamps										
12533	SM 155 VROP ET5	1x55	T5/2GX13	77	1,8	400	400	240	240	
12543	SM 162 VROP ET5	40+22	T5/2GX13	75	1,8	400	400	240	240	



Modifications with T5 lamps.



# SM ALS

INDOOR – OFFICE  
fluorescent lighting fittings



IP54

230 V  
50 Hz



#### Use:

Offices, hospitals, schools and other common rooms, kitchens, corridors etc., also premises with higher dustiness.

#### Description, optics:

**The body** is made of polyester with fibreglass and is provided with Polyurethan sealing.

**The reflector** is produced of a steel sheet powder coated with white colour.

**The diffuser** is made of UV stabilized acrylate and is fixed to the body by elastic plastic clips.

#### Modifications of diffuser:

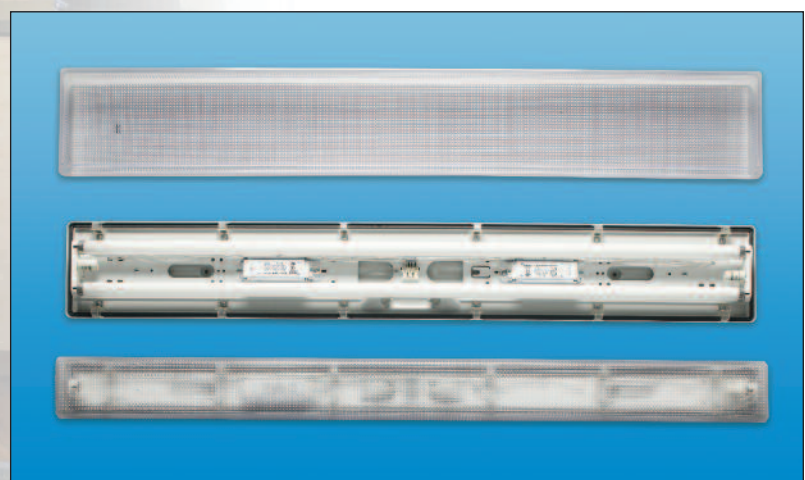
- **OP - opal** plain white
- **KR - prismatic** – with lens pattern

#### The way of fitting's suspension

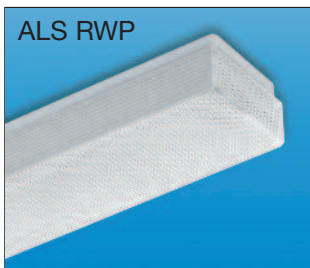
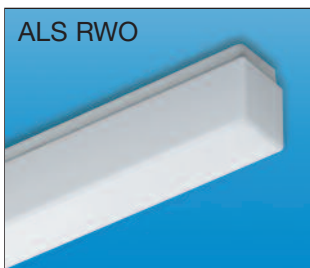
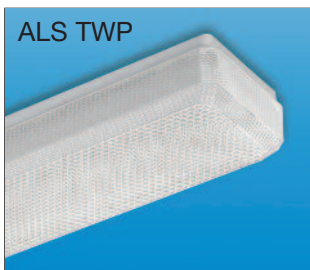
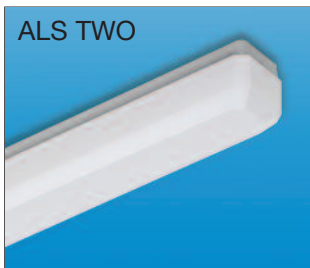
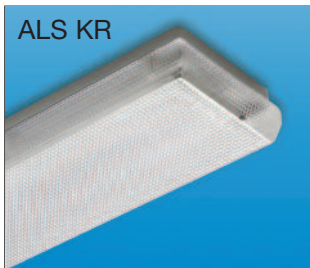
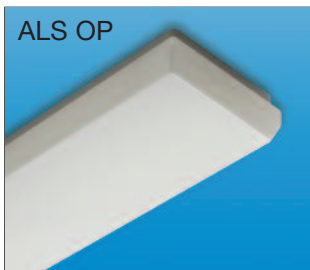
- directly on a surface (also flammable) using two wood screws in prepared holes.

#### Modifications:

- **basic type** is LPF wired, equipped with three-pole screwless terminal block, radio-interference capacitor and starters.
- **HPF wired** – the lighting fitting is compensated with parallel compensating capacitor
- with electronic ballast



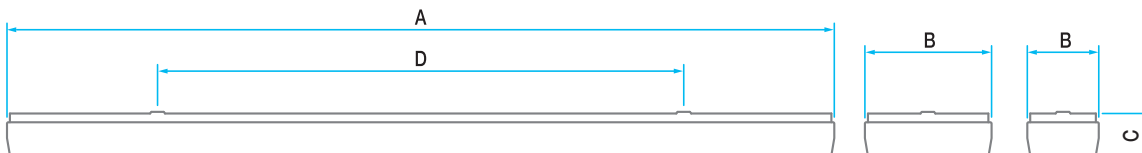




Order code	Type	Light sources		Net weight kg	Dimensions			
		W			A	B	C	D
opal diffuser								
22020	SM ALS 136 OP	1x36	T8/G13	3,8	1270	106	85	740
22030	SM ALS 158 OP	1x58	T8/G13	5,3	1570	106	85	850
22050	SM ALS 236 OP	2x36	T8/G13	6,6	1270	190	85	750
22060	SM ALS 258 OP	2x58	T8/G13	8,5	1570	190	85	900
prismatic diffuser								
22021	SM ALS 136 KR	1x36	T8/G13	3,8	1270	106	85	740
22031	SM ALS 158 KR	1x58	T8/G13	5,3	1570	106	85	850
22051	SM ALS 236 KR	2x36	T8/G13	6,6	1270	190	85	750
22061	SM ALS 258 KR	2x58	T8/G13	8,5	1570	190	85	900
with electronic ballast								
22025	SM ALS 136 OP E	1x36	T8/G13	3,5	1270	106	85	740
22035	SM ALS 158 OP E	1x58	T8/G13	4,6	1570	106	85	850
22055	SM ALS 236 OP E	2x36	T8/G13	5,8	1270	190	85	750
22065	SM ALS 258 OP E	2x58	T8/G13	6,8	1570	190	85	900
22026	SM ALS 136 KR E	1x36	T8/G13	3,5	1270	106	85	740
22036	SM ALS 158 KR E	1x58	T8/G13	4,6	1570	106	85	850
22056	SM ALS 236 KR E	2x36	T8/G13	5,8	1270	190	85	750
22066	SM ALS 258 KR E	2x58	T8/G13	6,8	1570	190	85	900

Order code	Type	Light sources		Net weight kg	Dimensions			
		W			A	B	C	D
opal diffuser								
22110	SM ALS 118 OP TWO	1x18	T8/G13	2,6	659	106	95	430
22120	SM ALS 136 OP TWO	1x36	T8/G13	3,8	1270	106	95	740
22130	SM ALS 158 OP TWO	1x58	T8/G13	5,3	1570	106	95	850
22150	SM ALS 236 OP TWO	2x36	T8/G13	6,6	1270	190	91	750
22160	SM ALS 258 OP TWO	2x58	T8/G13	8,5	1570	190	91	900
prismatic diffuser								
22111	SM ALS 118 KR TWP	1x18	T8/G13	2,6	659	106	95	430
22121	SM ALS 136 KR TWP	1x36	T8/G13	3,8	1270	106	95	740
22131	SM ALS 158 KR TWP	1x58	T8/G13	5,3	1570	106	95	850
22151	SM ALS 236 KR TWP	2x36	T8/G13	6,6	1270	190	91	750
22161	SM ALS 258 KR TWP	2x58	T8/G13	8,5	1570	190	91	900
with electronic ballast								
22115	SM ALS 118 OP TWO E	1x18	T8/G13	2,3	659	106	95	430
22125	SM ALS 136 OP TWO E	1x36	T8/G13	3,5	1270	106	95	740
22135	SM ALS 158 OP TWO E	1x58	T8/G13	4,6	1570	106	95	850
22155	SM ALS 236 OP TWO E	2x36	T8/G13	5,8	1270	190	91	750
22165	SM ALS 258 OP TWO E	2x58	T8/G13	6,8	1570	190	91	900

Order code	Type	Light sources		Net weight kg	Dimensions			
		W			A	B	C	D
opal diffuser								
22310	SM ALS 118 OP RWO	1x18	T8/G13	2,6	655	103	120	430
22320	SM ALS 136 OP RWO	1x36	T8/G13	3,8	1260	103	120	740
22330	SM ALS 158 OP RWO	1x58	T8/G13	5,3	1560	103	120	850
22350	SM ALS 236 OP RWO	2x36	T8/G13	6,6	1260	190	100	750
22360	SM ALS 258 OP RWO	2x58	T8/G13	8,5	1560	190	100	900
prismatic diffuser								
22311	SM ALS 118 KR RWP	1x18	T8/G13	2,6	655	103	120	430
22321	SM ALS 136 KR RWP	1x36	T8/G13	3,8	1260	103	120	740
22331	SM ALS 158 KR RWP	1x58	T8/G13	5,3	1560	103	120	850
22351	SM ALS 236 KR RWP	2x36	T8/G13	6,6	1260	190	100	750
22361	SM ALS 258 KR RWP	2x58	T8/G13	8,5	1560	190	100	900
with electronic ballast								
22315	SM ALS 118 OP RWO E	1x18	T8/G13	2,3	655	103	120	430
22325	SM ALS 136 OP RWO E	1x36	T8/G13	3,5	1260	103	120	740
22335	SM ALS 158 OP RWO E	1x58	T8/G13	4,6	1560	103	120	850
22355	SM ALS 236 OP RWO E	2x36	T8/G13	5,8	1260	190	100	750
22365	SM ALS 258 OP RWO E	2x58	T8/G13	6,8	1560	190	100	900





# SM NOVA

INDOOR - OFFICE  
fluorescent lighting fittings



#### Use:

Offices, hospitals, schools and other common rooms, kitchens, corridors etc.

#### Description, optics:

The reflector (the body of the fitting) is produced of white painted steel sheet.

The diffuser is moulded of one plastic part. Used material is opalized acrylic which is stabilized against UV rays. The diffuser is fixed to the reflector with plastic clips, which secure the diffuser from falling.

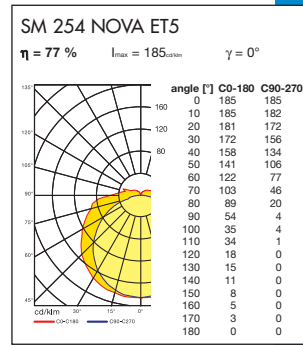
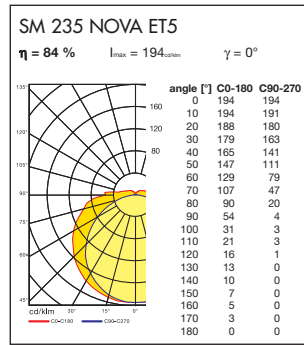
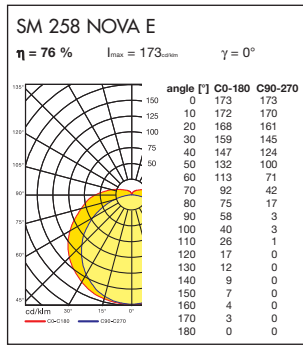
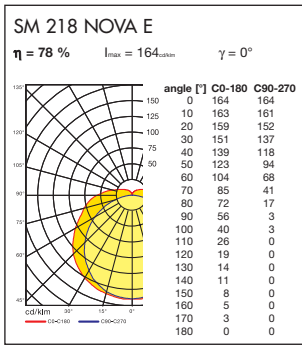
#### Modifications:

- **Basic type** is LPF wired, equipped with three-pole screwless terminal block, radio-interference capacitor and starters.
- **HPF wired** – the lighting fitting is compensated with parallel compensating capacitor
- For places where the fittings are permanently on we recommend to equip them with an **electronic ballast**.
- **With electronic ballast and T5 tubes**
  - another saving of electric energy - lower input by 7%
  - smaller fluorescent tubes' diameter (16mm), change of max. luminous flux temperature from 25 °C to 35 °C.
  - higher efficiency by 10 % to 14 %
- **With dimmable electronic ballast** - the fitting is equipped and adapted for using of an automatic dimming control.
- **maintained emergency lighting fitting** with an independent emergency source. It is running as other fittings under usual conditions. After power interruption one tube starts emergency mode automatically.

Delivery of plastic and metal components for customers' own assembly is possible.







Order code	Type	Light sources		Luminous efficiency	Net weight	Dimensions	
		W		%		A	D
<b>basic LPF wired type</b>							
12840	SM 218 NOVA	2x18	T8/G13	78	1,6	640	460
12850	SM 236 NOVA	2x36	T8/G13	78	3,2	1250	885
12860	SM 258 NOVA	2x58	T8/G13	76	4,4	1550	1140
<b>with electronic ballast</b>							
12845	SM 218 NOVA E	2x18	T8/G13	78	1,3	640	460
12855	SM 236 NOVA E	2x36	T8/G13	78	2,4	1250	885
12865	SM 258 NOVA E	2x58	T8/G13	76	2,9	1550	1140
<b>with electronic ballast T5 – high efficiency range</b>							
12940	SM 214 NOVA ET5	2x14	T5/G5	84	1,3	640	460
12950	SM 228 NOVA ET5	2x28	T5/G5	84	2,4	1250	885
12960	SM 235 NOVA ET5	2x35	T5/G5	84	2,9	1550	1140
<b>with electronic ballast T5 – high output range</b>							
12945	SM 224 NOVA ET5	2x24	T5/G5	80	1,3	640	460
12955	SM 254 NOVA ET5	2x54	T5/G5	77	2,4	1250	885
12965	SM 280 NOVA ET5	2x80	T5/G5	74	2,9	1550	1140
12975	SM 249 NOVA ET5	2x49	T5/G5	80	2,9	1550	1140

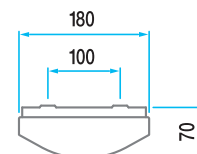
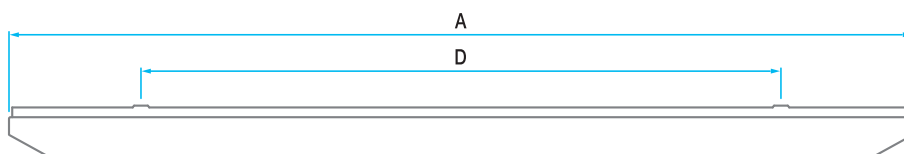
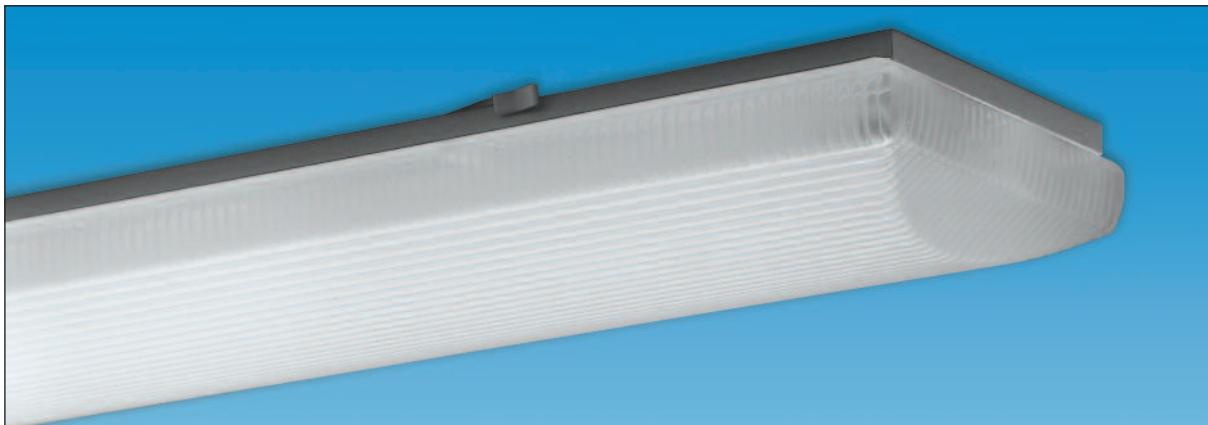


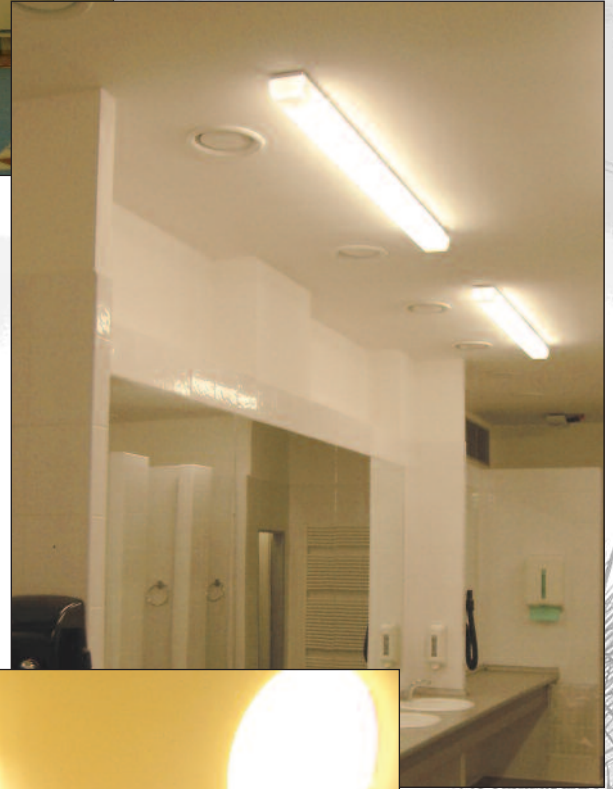
**The way of fitting's suspension:**

- directly on a surface (also flammable) using four wood screws in prepared holes
- on fixed bar suspensions (length 20 – 100 cms)

**SM NOVA accessories**

Order code	Type	Length mm	Weight kg
112901	TZ 1	200	0,1
12902	TZ 2	400	0,2
12903	TZ 3	600	0,3
12904	TZ 4	800	0,4
12905	TZ 5	1 000	0,5







# SMO

INDOOR - CIRCULAR  
fluorescent lighting fittings



#### Use:

Flats, corridors, common rooms, WC, bathrooms (limit - class I, type SMO 22E – class II)

#### Description, optics:

The **body** of the lighting fitting is produced of polycarbonate and it is used for fixing of electrocomponents including circular fluorescent tubes. The **diffuser** is moulded of acrylic material, it is fastened to the body with bayonet lock.

#### The way of fitting's suspension

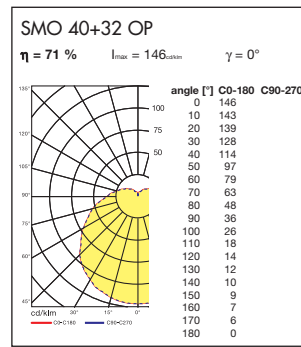
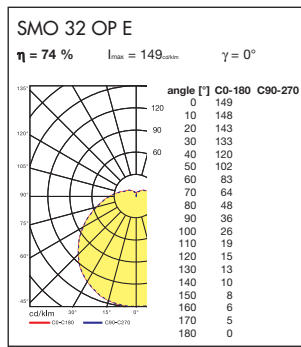
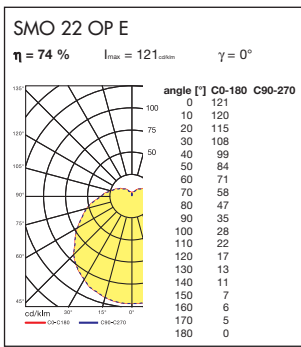
- directly on a surface (also flammable) using three wood screws in prepared holes.

#### Modifications of diffuser:

- OP - opal – plain white
- RA - with prismatic patterns

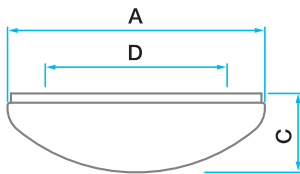
Delivery of plastic components for customers' own assembly is possible.





Order code	Type	Light sources		Luminous efficiency	Net weight	Dimensions		
		W		%		A	C	D
basic LPF wired type								
12150	SMO 22 OP	1x22	T8/G10q	74	1,1	275	105	120
12160	SMO 32 OP	1x32	T8/G10q	74	1,5	375	115	120
12170	SMO 40 OP	1x40	T8/G10q	72	1,9	475	125	175
12180	SMO 40+32 OP	1x40+1x32	T8/G10q	71	2,8	475	125	175
with electronic ballast for T8 lamps								
12155	SMO 22 OP E	1x22	T8/G10q	74	0,6	275	105	120
12165	SMO 32 OP E	1x32	T8/G10q	74	1,0	375	115	120
12175	SMO 40 OP E	1x40	T8/G10q	72	1,5	475	125	175

in class II SMO 22E type only



**Modifications:**

- Basic type is delivered including a circular fluorescent lamp, starter and radio-interference capacitor.
- with electronic ballast.
  - energy saving by 25%
  - prolonging light sources' life by 50%
  - instant start without flickering
  - constant luminous flux in wide spectrum without stroboscopic effect





# SK

## INDOOR PLASTIC CIRCULAR lighting fittings



IP54



230 V  
50 Hz



### Use:

Flats, corridors, common rooms, hotels, WC and bathrooms.  
The luminaires are resistant to dust, damp and spraying water.

### Description, optics:

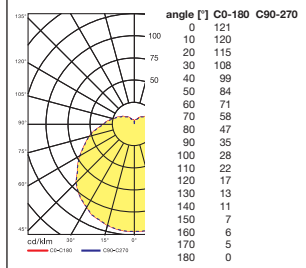
The body of the luminaire is produced of polycarbonate of white colour and provided with a sealing in a groove. The diffuser is made of opal polycarbonate and is clicked to the body.  
The luminaires are designed for fluorescent circular lamps or PL lamps.

## SK DISCO OP



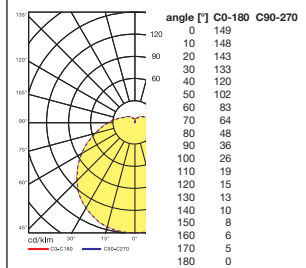
### SK DISCO 122 OP E

$\eta = 74\%$   $I_{max} = 121_{lm}$   $\gamma = 0^\circ$



### SK DISCO 132 OP E

$\eta = 74\%$   $I_{max} = 149_{lm}$   $\gamma = 0^\circ$



## SK DISCO OP

Order code	Type	Light sources		Net weight	Dimensions		
		W	kg		A	C	D
opalized PC diffuser							
23000	SK DISCO 122 OP incl. fl. tube	1x22	T8/G10q	1,8	370	120	270
23003	SK DISCO 122 OP	1x22	T8/G10q	1,7	370	120	270
23005	SK DISCO 122 OP E	1x22	T8/G10q	1,5	370	120	270
23010	SK DISCO 132 OP incl. fl. tube	1x32	T8/G10q	1,8	370	120	270
23013	SK DISCO 132 OP	1x32	T8/G10q	1,7	370	120	270
23015	SK DISCO 132 OP E	1x32	T8/G10q	1,5	370	120	270
23040	SK DISCO 140 OP ET5	1x40	T5/2GX13	1,5	370	120	270
23030	SK DISCO 218 OP E	2x18	TC-L/2G11	1,5	370	120	270

## SK DISCO OPR



## SK DISCO OPR

Order code	Type	Light sources		Net weight	Dimensions		
		W	kg		A	C	D
opalized PC diffuser with prisma stripes							
23001	SK DISCO 122 OPR incl. fl. tube	1x22	T8/G10q	1,8	370	120	270
23004	SK DISCO 122 OPR	1x22	T8/G10q	1,7	370	120	270
23006	SK DISCO 122 OPR E	1x22	T8/G10q	1,5	370	120	270
23011	SK DISCO 132 OPR incl. fl. tube	1x32	T8/G10q	1,8	370	120	270
23014	SK DISCO 132 OPR	1x32	T8/G10q	1,7	370	120	270
23016	SK DISCO 132 OPR E	1x32	T8/G10q	1,5	370	120	270
23041	SK DISCO 140 OPR ET5	1x40	T5/2GX13	1,5	370	120	270
23031	SK DISCO 218 OPR E	2x18	TC-L/2G11	1,5	370	120	270

### 2G11



### G10q





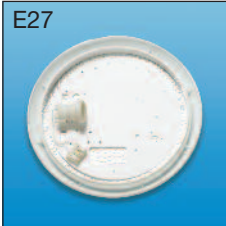
## SK ALFA



## SK ALFA

Order code	Type	Light sources W	Net weight kg	Dimensions mm				
				A Ø	L	C	D	
opalized PC diffuser with bayonet lock								
23711	SK ALFA 211	2x11	G23	1,8	300	270	90	190▽
23713	SK ALFA 122	1x22	TC8/G10q	1,8	300	270	90	190▽
23714	SK ALFA 122 E	1x22	TC8/G10q	1,5	300	270	90	190▽
23715	SK ALFA 122 ET5	1x22	TC5/2GX13	1,5	300	270	90	190▽
23718	SK ALFA 218 E	2x18	G24q-2	1,5	300	270	90	190▽

E27



G23



G10q



G10q



2GX13



G24q-3

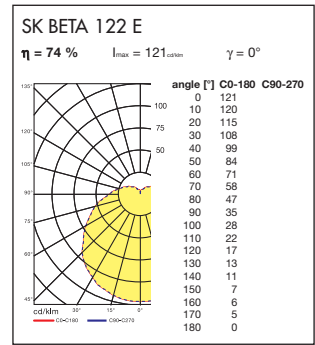


## SK ALFA PLUS



## SK ALFA PLUS

Order code	Type	Light sources W	Net weight kg	Dimensions mm				
				A Ø	L	C	D	
opalized PC diffuser with bayonet lock								
23720	SK ALFA PLUS E27	8-24	E27	1,2	300	270	120	190▽
23721	SK ALFA PLUS 211	2x11	G23	1,8	300	270	120	190▽
23723	SK ALFA PLUS 122	1x22	TC8/G10q	1,8	300	270	120	190▽
23724	SK ALFA PLUS 122 E	1x22	TC8/G10q	1,5	300	270	120	190▽
23725	SK ALFA PLUS 122 ET5	1x22	TC5/2GX13	1,5	300	270	120	190▽
23728	SK ALFA PLUS 218 E	2x18	G24q-2	1,5	300	270	120	190▽
23729	SK ALFA PLUS 226 E	2x26	GX24q-3	1,6	300	270	120	190▽



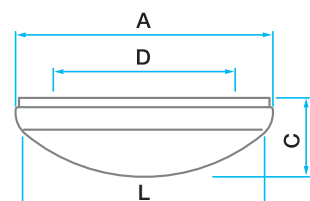
## SK BETA

Order code	Type	Light sources	Net weight	Dimensions				
				W	A	L	C	D
opalized PC diffuser with bayonet lock								
23731	SK BETA 211	2x11	G23	1,8	300	270	90	190▽
23733	SK BETA 122	1x22	TC8/G10q	1,8	300	270	90	190▽
23734	SK BETA 122 E	1x22	TC8/G10q	1,5	300	270	90	190▽
23735	SK BETA 122 ET5	1x22	TC5/2GX13	1,5	300	270	90	190▽
23738	SK BETA 218 E	2x18	G24q-2	1,5	300	270	90	190▽



## SK BETA PLUS

Order code	Type	Light sources	Net weight	Dimensions				
				W	A	L	C	D
opalized PC diffuser with bayonet lock								
23740	SK BETA PLUS E27	8-24	E27	1,2	300	270	120	190▽
23741	SK BETA PLUS 211	2x11	G23	1,8	300	270	120	190▽
23743	SK BETA PLUS 122	1x22	TC8/G10q	1,8	300	270	120	190▽
23744	SK BETA PLUS 122 E	1x22	TC8/G10q	1,5	300	270	120	190▽
23745	SK BETA PLUS 122 ET5	1x22	TC5/2GX13	1,5	300	270	120	190▽
23748	SK BETA PLUS 218 E	2x18	G24q-2	1,5	300	270	120	190▽
23749	SK BETA PLUS 226 E	2x26	G24q-3	1,6	300	270	120	190▽





## SK GAMA



## SK GAMA

Order code	Type	Light sources		Net weight kg	Dimensions			
		W			A Ø	L	C	D
opalized PC diffuser with bayonet lock								
23750	SK GAMA E27	8-24	E27	1,2	330	300	140	190▽
23751	SK GAMA 211	2x11	G23	1,8	330	300	140	190▽
23753	SK GAMA 122	1x22	TC8/G10q	1,8	330	300	140	190▽
23754	SK GAMA 122 E	1x22	TC8/G10q	1,5	330	300	140	190▽
23755	SK GAMA 122 ET5	1x22	TC5/2GX13	1,5	330	300	140	190▽
23758	SK GAMA 218 E	2x18	G24q-2	1,5	330	300	140	190▽
23759	SK GAMA 226 E	2x26	G24q-3	1,6	330	300	140	190▽

E27



G23



G10q



G10q



2GX13



G24q-3



## SK DELTA



## SK DELTA

Order code	Type	Light sources		Net weight kg	Dimensions			
		W			A Ø	L	C	D
opalized PC diffuser is fixed by concealed screws								
23760	SK DELTA E27	8-24	E27	1,2	335	300	130	175□
23761	SK DELTA 211	2x11	G23	1,8	335	300	130	175□
23763	SK DELTA 122	1x22	TC8/G10q	1,8	335	300	130	175□
23764	SK DELTA 122 E	1x22	TC8/G10q	1,5	335	300	130	175□
23765	SK DELTA 122 ET5	1x22	TC5/2GX13	1,5	335	300	130	175□
23768	SK DELTA 218 E	2x18	G24q-2	1,5	335	300	130	175□
23769	SK DELTA 226 E	2x26	G24q-3	1,6	335	300	130	175□



IP55



230 V  
50 Hz



# SK DROP

INDOOR PLASTIC  
fluorescent and bulb luminaires

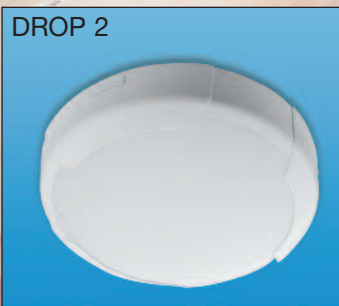


### Use:

Illumination of flats, offices, bathrooms, common rooms and smaller workshops.  
The luminaires are resistant to dust, damp and spraying water.  
The luminaires are produced in class II insulation.

### Description, optics:

The fitting's body is made of polycarbonate of white, silver or black colour.  
The diffuser is made of opal polycarbonate and it is clicked to the body.  
Fluorescent tubes and bulbs can be used in these luminaires.



Order code	Type	Light sources		Net weight kg	Dimensions		
		W	Ø		A	B	C
fluorescent luminaires DROP1							
23610	SK DROP1 E27	8-24	E27	1,1	302	108	
23620	SK DROP1 2E27	2x8-24	E27	1,2	302	108	
23410	SK DROP1 109	1x9	G23	1,5	302	108	
23420	SK DROP1 209	2x9	G23	1,6	302	108	
23430	SK DROP1 113	1x13	G24d-1	1,6	302	108	
23440	SK DROP1 213	2x13	G24d-1	1,9	302	108	
23450	SK DROP1 116	1x16	2D/GR8	1,6	302	108	
23460	SK DROP1 122	1x22	T8/G10q	1,7	302	108	
23465	SK DROP1 122 E	1x22	T8/G10q	1,5	302	108	
fluorescent luminaires DROP2							
23630	SK DROP2 E27	8-24	E27	1,5	382	118	
23640	SK DROP2 E27	2x8-24	E27	1,6	382	118	
23510	SK DROP2 111	1x11	G23	2,4	382	118	
23520	SK DROP2 211	2x11	G23	2,6	382	118	
23530	SK DROP2 218	2x18	G24d-2	2,4	382	118	
23540	SK DROP2 226	2x26	G24d-3	2,9	382	118	
23550	SK DROP2 128	1x28	2D/GR8	2,3	382	118	
23560	SK DROP2 132	1x32	T8/G10q	2,1	382	118	
23565	SK DROP2 132 E	1x32	T8/G10q	1,9	382	118	

colour modification of the body .... 23xx0 = white, 23xx2 = silver (s), 23xx3 = black



# SB

INDOOR - LINEAR  
fluorescent lighting fittings  
with a switch



#### Use:

Flats, offices, corridors, kitchens, in a furniture, wardrobes, shop-windows etc.

#### Description, optics:

The body of the lighting fitting is made of metal profile, powder coated with comaxit. End plastic caps are delivered in the same colour - white, black and red. The diffuser is made of acrylic material and it is fixed directly on fluorescent tube. The switch is built in the end cap.

#### Fixing of the fitting on a surface

- using two wood screws in prepared holes with distance washers.

#### Modifications:

- With electronic ballast
  - energy saving by 25%
  - prolonging light sources' life by 50%
  - automatic switching-off when the fluorescent tube is defected
  - instant start without flickering
  - constant luminous flux in wide spectrum without stroboscopic effect.
- With dimmable electronic ballast - available only for 1x36 W and 1x58 W

The luminaires are delivered including T8 fluorescent tubes.



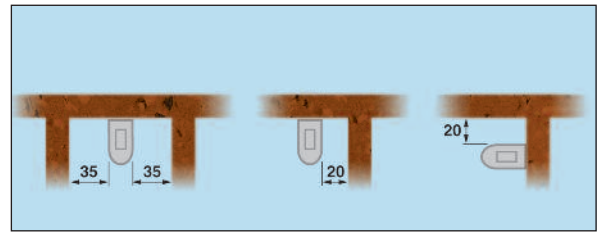
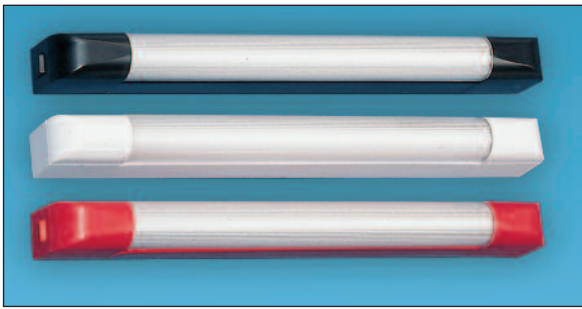
CB  
test



IP20

230 V  
50 Hz



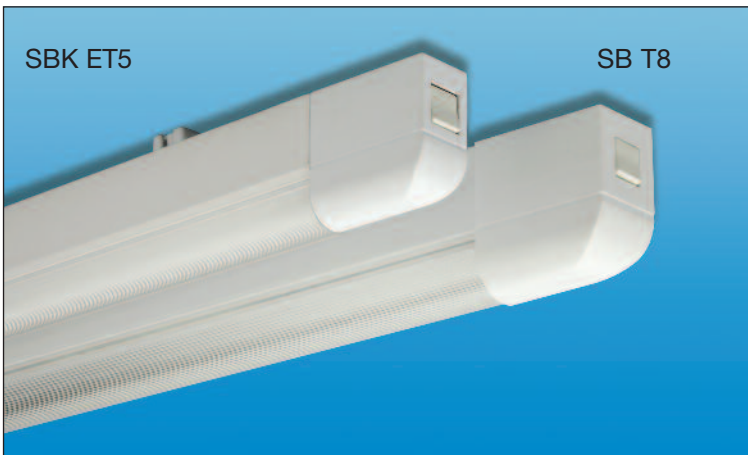
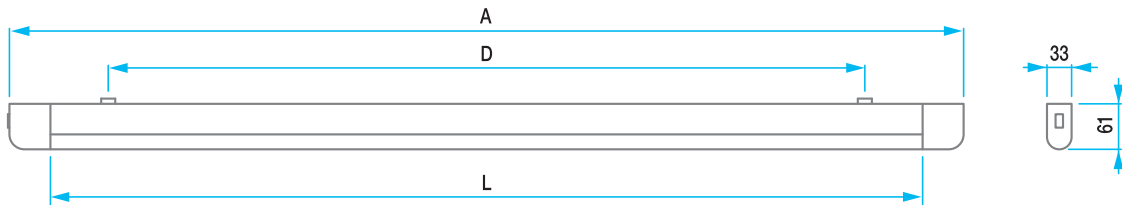
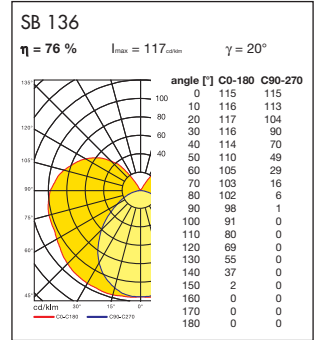


Limits for installation



Order code	Type	Light sources		Luminous efficiency %	Net weight kg	Dimensions mm		
		W				A	D	L
with electronic ballast								
12215	SB 110 E	1x10	T8/G13	76	0,4	410	215	300
12225	SB 115 E	1x15	T8/G13	76	0,7	520	260	405
12235	SB 118 E	1x18	T8/G13	76	0,8	670	405	560
12245	SB 130 E	1x30	T8/G13	76	1,0	975	710	865
12255	SB 136 E	1x36	T8/G13	76	1,2	1280	1015	1170
12265	SB 158 E	1x58	T8/G13	74	1,6	1580	1310	1470

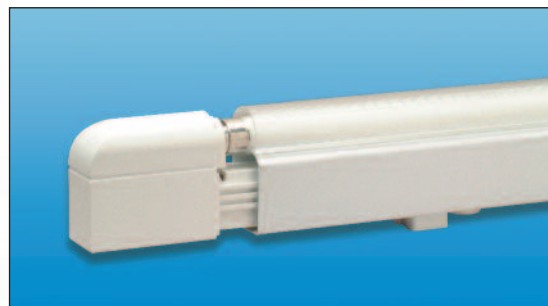
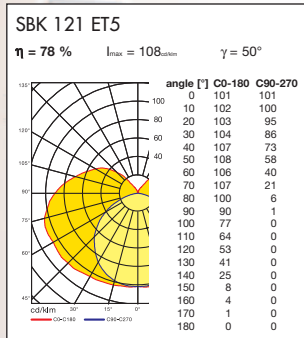
Colour codes: xxxx1 = white RAL 9003, xxxx2 = silver RAL 9006, xxxx3 = black RAL 9005, xxxx4 = red RAL 3020



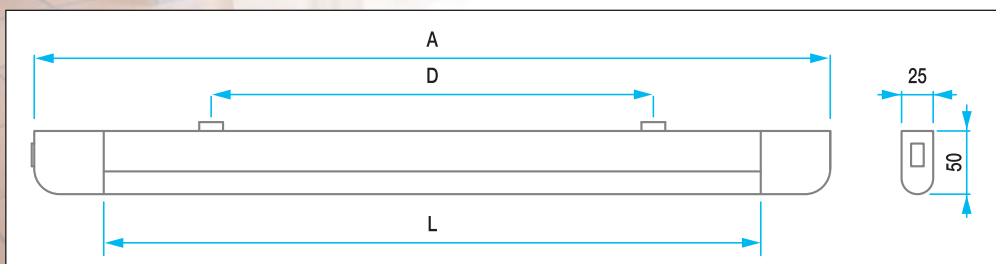


# SBK - T5

INDOOR – LINEAR  
fluorescent lighting fittings with a switch



Order code	Type	Light sources		Luminous efficiency %	Net weight kg	Dimensions mm		
		W				A	D	L
with electronic ballast T5 – high efficiency range								
12410	SBK 114 ET5	1x14	T5/G5	78	0,4	630	350	520
12420	SBK 121 ET5	1x21	T5/G5	78	0,6	930	650	820
with electronic ballast T5 – high output range								
12415	SBK 124 ET5	1x24	T5/G5	73	0,4	630	350	520



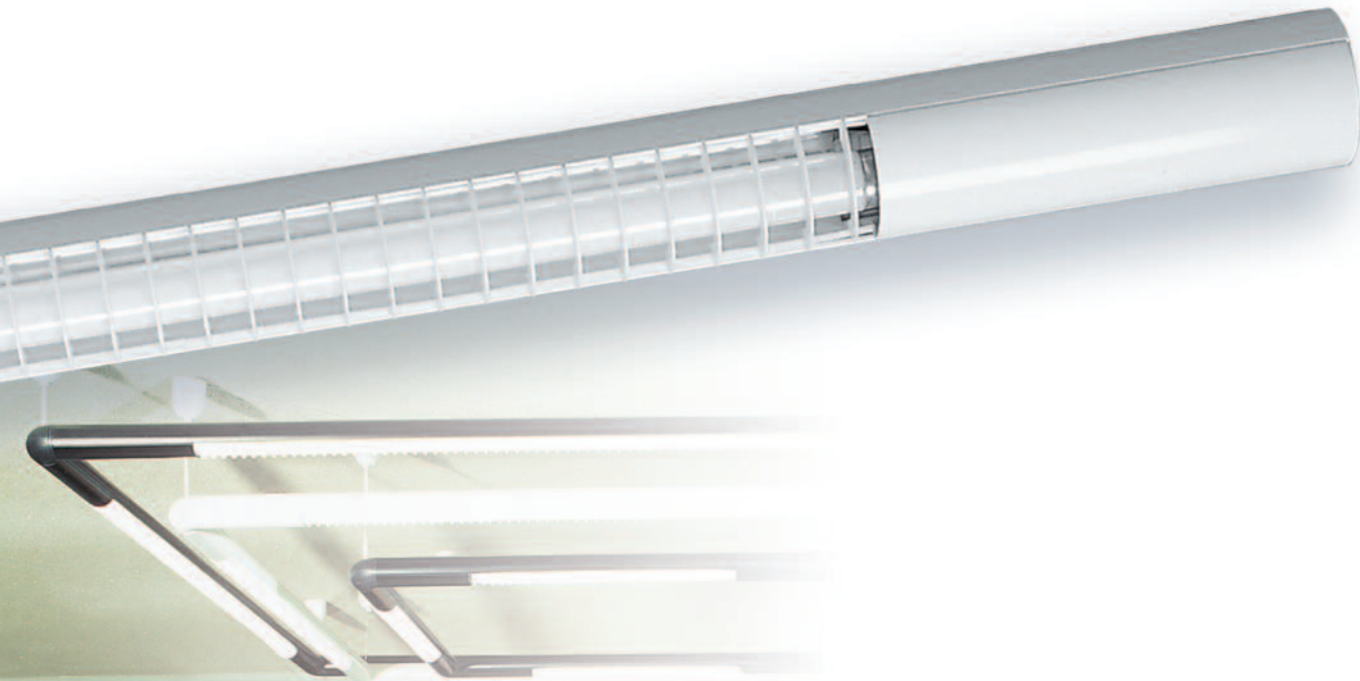






# RPK

INDOOR MODULAR  
fluorescent lighting fittings  
tube 65 mm



#### Use:

Various shapes can be achieved by an installation of several RPK lighting fittings. Then they are used to illuminate representative interiors, offices, administrative buildings, exhibition halls and sales rooms etc.

Separately installed fitting with rise and fall suspension is suitable for illumination of working desks with a possibility to adapt the luminous intensity to an individual need. Lighting fitting can be also individually fixed on a wall using adjustable side holders

#### Description:

The **tube** of the lighting fitting is made of circular aluminium profile (d = 65mm). The tube consists of two parts, the bottom cover can be removed during installation to enable the access to terminal block and connection with joints. An empty tube of different length can be also used to connect the fittings into various configurations.

The tube is powder coated.

The **parabolic reflector** inside the tube made of polished aluminium increases luminous intensity so the fittings can be also installed in higher level to keep a required luminous efficiency.

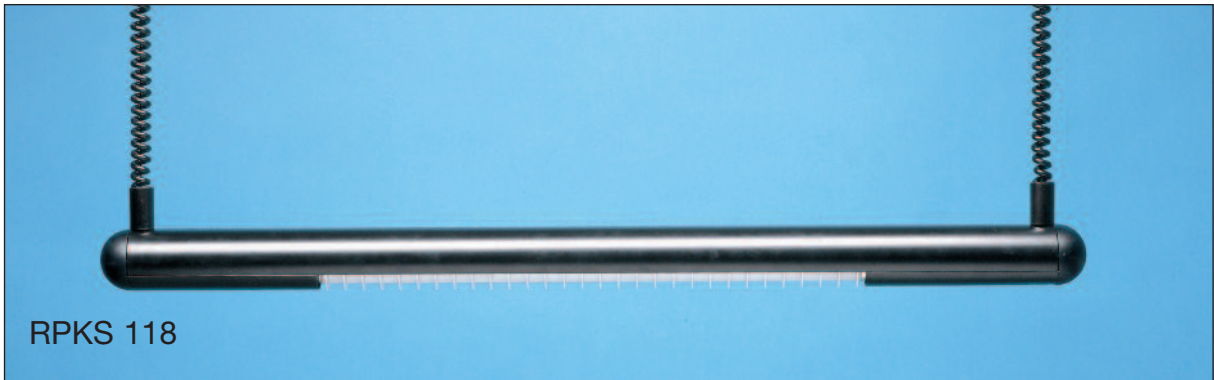
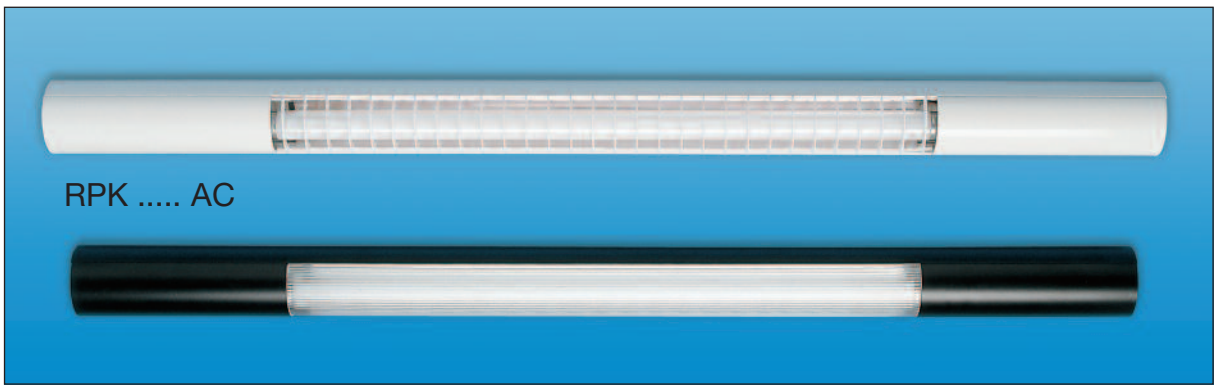
The fitting is provided with an opened white **plastic louvre** or it can be delivered as transparent **acrylic diffuser** on demand.

On demand the louvre can be also silver

#### Modifications:

- **Basic type** - Three-phases through wiring and two five-poles terminal blocks at both ends of the fitting are included.
- With **electronic ballast** providing advantages of saving energy, longer light sources' life, constant luminous flux, immediate start etc.
- With **electronic ballast T5** with still higher efficiency.





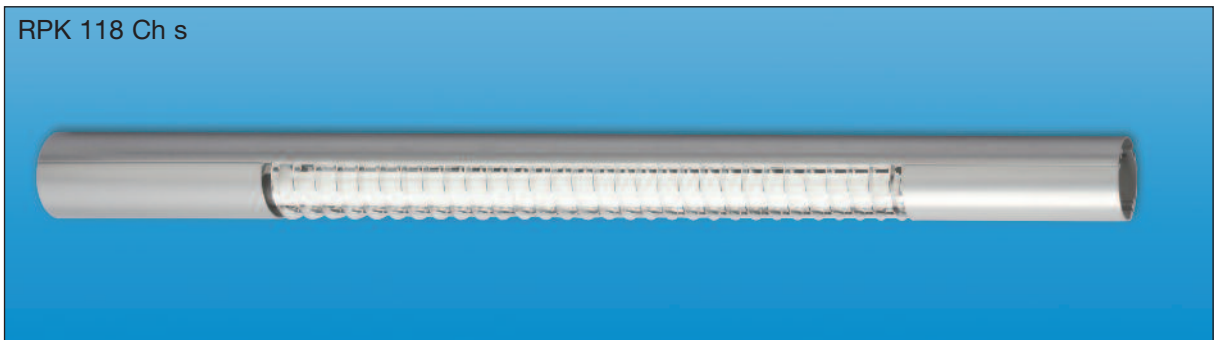
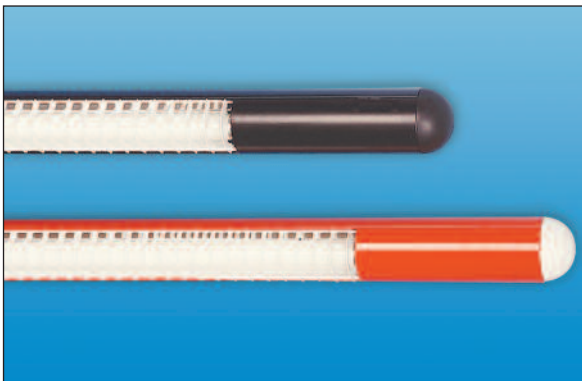
**The way of fitting's suspension:**

- Standard suspension on a ceiling into various configurations.
- Individual fitting with rise and fall suspension.

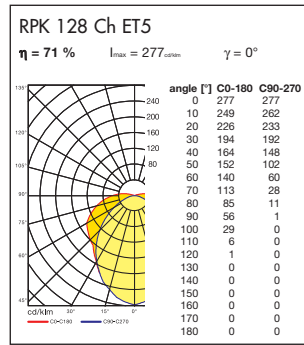
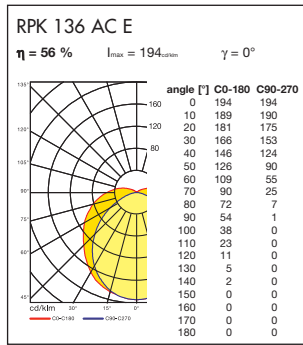
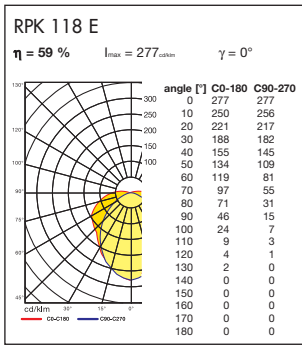
**Colour possibilities:** white, black and red.

Other colours according to RAL scale can be agreed.

The plastic louvre can be only white. On demand also chrome-plated louvre can be delivered.

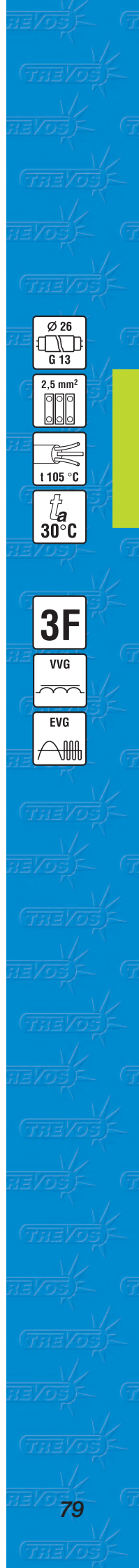
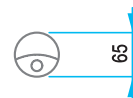
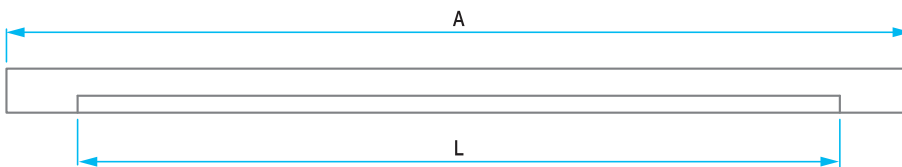






Order code	Type	Light sources	Luminous efficiency	Net weight	Dimensions
		W	%	kg	A L
basic with white louvre					
13011	RPK 118	1x18	T8/G13	59	1,6 974 575
13021	RPK 136	1x36	T8/G13	59	2,3 1750 1150
13031	RPK 158	1x58	T8/G13	58	3,1 2054 1440
with electronic ballast					
13015	RPK 118 E	1x18	T8/G13	59	1,3 974 575
13025	RPK 136 E	1x36	T8/G13	59	2,0 1750 1150
13035	RPK 158 E	1x58	T8/G13	58	2,7 2054 1440
with acrylic diffuser					
13311	RPK 118 AC	1x18	T8/G13	56	1,6 974 575
13321	RPK 136 AC	1x36	T8/G13	56	2,3 1750 1150
13331	RPK 158 AC	1x58	T8/G13	55	3,1 2054 1440
with electronic ballast T5					
13511	RPK 114/24 ET5	1x14/24	T5/G5	71/69	1,1 734 525
13541	RPK 121/39 ET5	1x21/39	T5/G5	71/68	1,5 1030 820
13521	RPK 128/54 ET5	1x28/54	T5/G5	71/69	1,8 1335 1125
13531	RPK 135/49/80 ET5	1x35/49/80	T5/G5	71/70/68	2,5 1630 1420
with adjustable suspension					
13051	RPKS 118	1x18	T8/G13	59	2,2 1039 575
13061	RPKS 136	1x36	T8/G13	59	2,7 1815 1150
13071	RPKS 158	1x58	T8/G13	58	3,5 2119 1440

Order codes: 130xx – with white plastic louvre  
 133xx – with acrylic diffuser (AC)  
 136xx – with chrome-plated (silver) louvre (Ch)  
 Colour codes: xxxx 1 = white, xxxx 2 = silver, xxxx 3 = black, xxxx 4 = red



## Joists and suspensions

Plastic joints in cube or knee shape are used to connect fittings or empty tubes into designed configurations.

Joists are marked F1 - F7 and are packed in PVC bags together with set of screws, washers, nuts, metal carrying part and also steel wire and ceiling suspension cover. Suspension wire and plastic end cap can be ordered separately. Two fittings can be connected directly without joint using two metal disks, marked F 02.

Connecting empty tube is delivered in required length and colour, maximum length is 2000 mm.

Colours of joists and suspension parts can be white or black only.

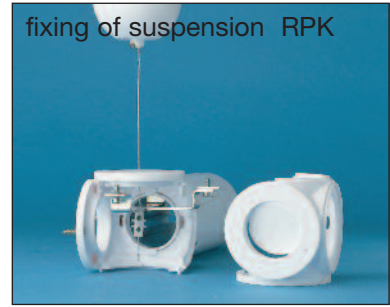
Fluorescent lighting fittings RPKS equipped with two rise and fall suspensions are completely assembled in our factory, one suspension is provided with a terminal block.

### The way of fitting's suspension

RPK - F 0 uses the joint cube for suspension

Z4 - uses the metal holder which is put into the groove in upper part of the fitting's body

fixing of suspension RPK



14101 Z4 - ceiling suspension



13111 RPK - F 0



13123 RPK - F 02



13133 RPK - F 2



13141 RPK - F 2d



13153 RPK - F 3



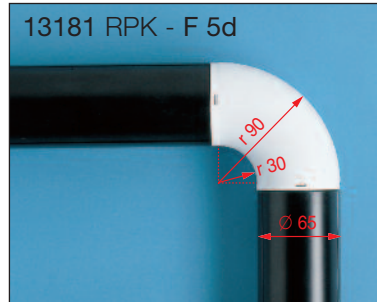
13161 RPK - F 4



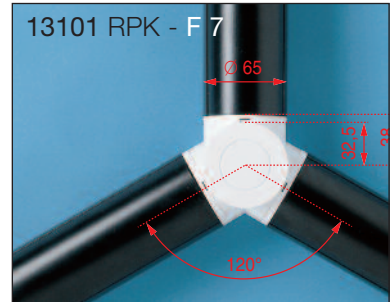
13171 RPK - F 5k



13181 RPK - F 5d



13101 RPK - F 7



RPK - metal joints



Another possibility of connection with joints produced of aluminium profile in I,L,T,X,V (91°-175°) and U (45°-89°) shape.



# TS

## INDOOR MODULAR fluorescent lighting fittings tube 85 mm



### Use:

TS fluorescent lighting fittings can be installed individually or in various configurations. The required shape can be achieved using joints of the same profile. Half of the fitting's profile can be also built into a lower ceiling. The configurations with TS lightings are suitable for illumination of representative interiors, offices, administrative buildings, department stores, libraries, exhibition halls and sales rooms etc. Lighting fittings can be combined with spot-lights which are fixed on empty profile.

### Description:

The tube of the lighting fitting and joints are made of circular aluminium profile (d = 85mm). The tube consists of two parts, the bottom cover can be removed during installation to enable the access to terminal block and connection with joints. An empty tube of different length can be also used to connect the fittings into various configurations or for fixing of spot-lights. The tube and joints are powder coated. The parabolic reflector inside the tube made of polished aluminium increases luminous intensity so the fittings can be also installed in higher level to keep a required luminous efficiency. The lighting fitting is provided with aluminium louvre of white colour.

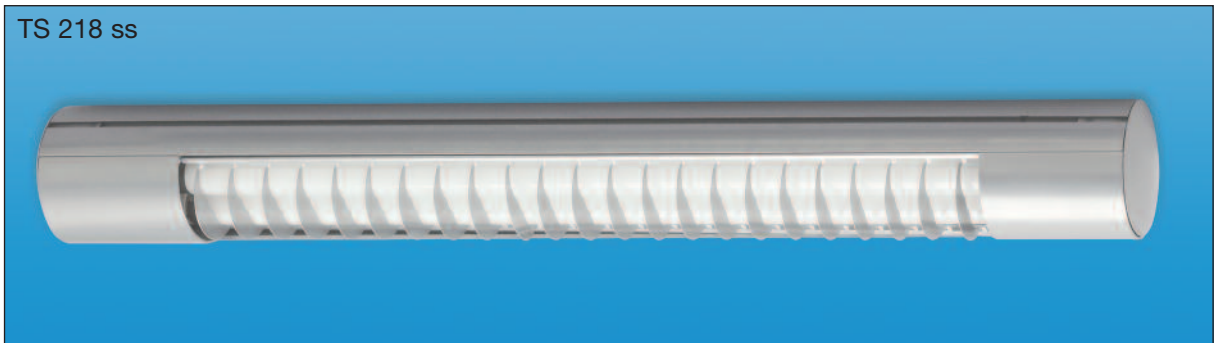
### Modifications:

- Basic type - single or double tube - three-phases through wiring and two screwless terminal blocks at both ends of the fitting are included.
- With electronic ballast providing advantages of saving energy, longer light sources' life, constant luminous flux, immediate start etc.
- With electronic ballast for T5 fluorescent lamps (d=16 mm) - this modification brings another saving of energy and achieves even higher light efficiency.
- With dimmable electronic ballast (ER)
- With dimmable electronic ballast and T5 lamps (ER T5)

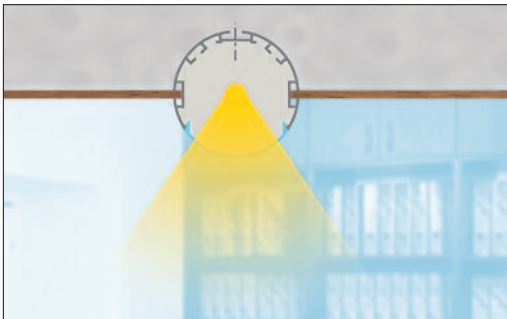




Colour possibilities: - Lighting fittings and joints are produced in white, red and black colour  
 - Other colours according to RAL scale can be agreed



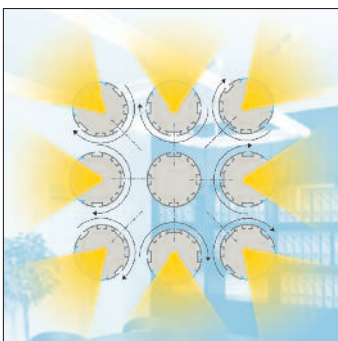
### Installation into a lower-ceiling



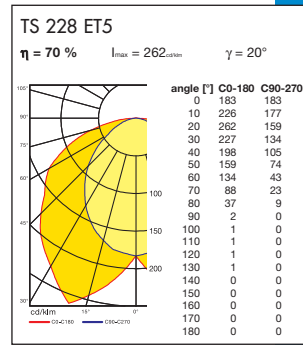
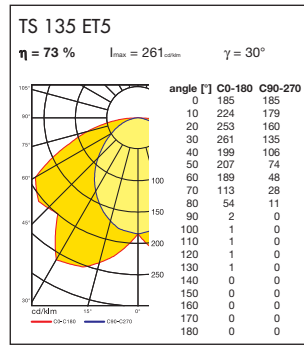
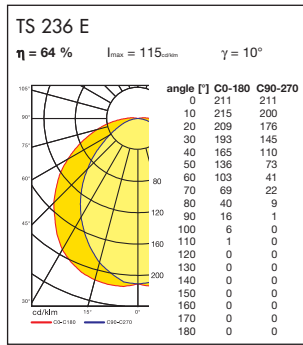
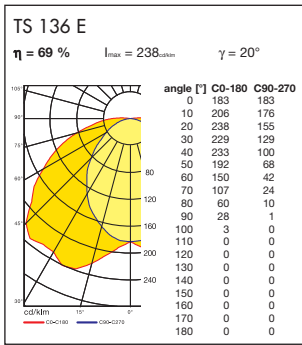
Half of a profile can be built in a lower ceiling. The space for the installation of the lighting fitting (75-80 mm) has to be designed during lower ceiling project.

### Installation possibilities

Variability of luminous flux can be achieved by turning of the lighting fitting in joints or empty tubes (min 45°)

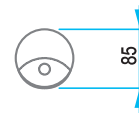
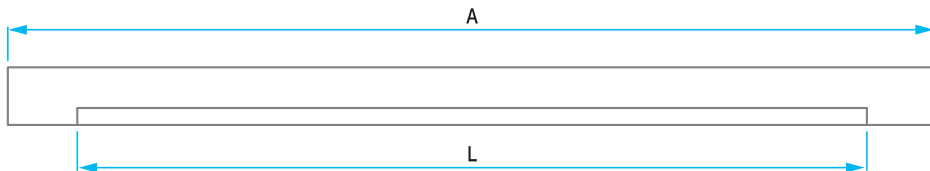






Order code	Type	Light sources	Luminous efficiency	Net weight	Dimensions		
		W	%	kg	A	L	
basic HPF wired modification							
14011	TS 118	1x18	T8/G13	69	1,8	760	560
14021	TS 136	1x36	T8/G13	69	2,7	1370	1170
14031	TS 158	1x58	T8/G13	68	3,5	1670	1470
14041	TS 218	2x18	T8/G13	64	1,9	760	560
14051	TS 236	2x36	T8/G13	64	3,3	1370	1170
14061	TS 258	2x58	T8/G13	62	4,4	1670	1470
with electronic ballast							
14015	TS 118 E	1x18	T8/G13	69	1,5	760	560
14025	TS 136 E	1x36	T8/G13	69	2,4	1370	1170
14035	TS 158 E	1x58	T8/G13	68	3,0	1670	1470
14045	TS 218 E	2x18	T8/G13	64	1,6	760	560
14055	TS 236 E	2x36	T8/G13	64	2,5	1370	1170
14065	TS 258 E	2x58	T8/G13	62	3,1	1670	1470
with electronic ballast T5							
14511	TS 114 ET5	1x14	T5/G5	73	1,5	760	555
14521	TS 128 ET5	1x28	T5/G5	73	2,4	1370	1165
14531	TS 135 ET5	1x35	T5/G5	73	3,0	1670	1465
14541	TS 214 ET5	2x14	T5/G5	70	1,6	760	555
14551	TS 228 ET5	2x28	T5/G5	70	2,5	1370	1165
14561	TS 235 ET5	2x35	T5/G5	70	3,1	1670	1465

Colour codes: xxxx 1 = white, xxxx 2 = silver, xxxx 3 = black, xxxx 4 = red



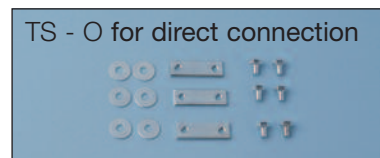
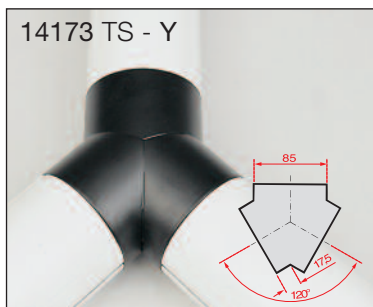
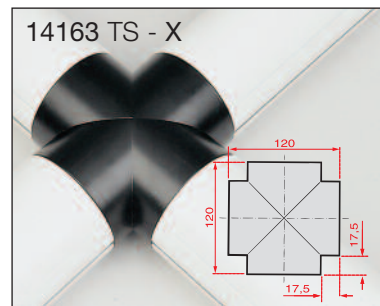
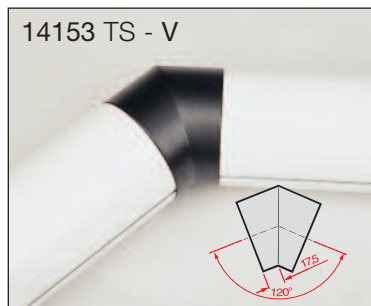
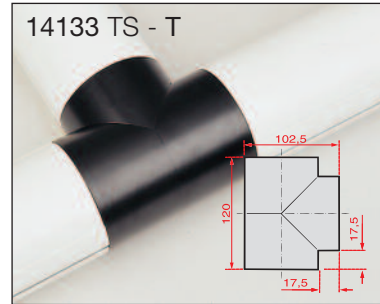
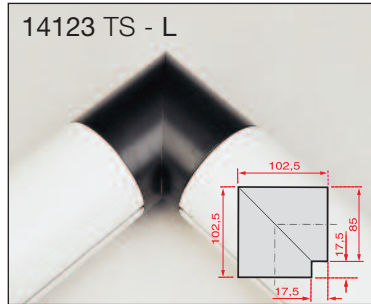
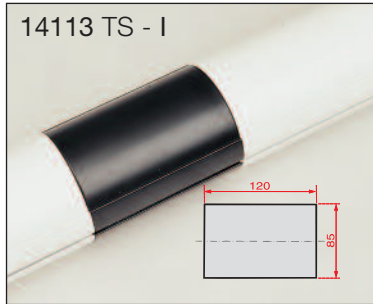
## Joins and suspensions

Standard I, L, T, X, Y joints are used to connect fittings or empty tubes into designed configurations. The variability is completed with V joint 91 °-175 ° and U joint 45 °-89 °, delivered on demand. The joints are delivered together with metal connecting parts, screws and washers which are also used for a direct connection of two lighting fittings (marked TS-O). An empty tube of a different length is available as I joint.

The ceiling suspension (Z1) is delivered with 1,10 m long steel wire (other length on demand), wire clamps and a plastic ceiling cover in white or black colour. Twisted connection cords for power supply are possible.

The end of the tube without the joint can be closed with a metal end cap in the same colour as the tube (marked TS-K).

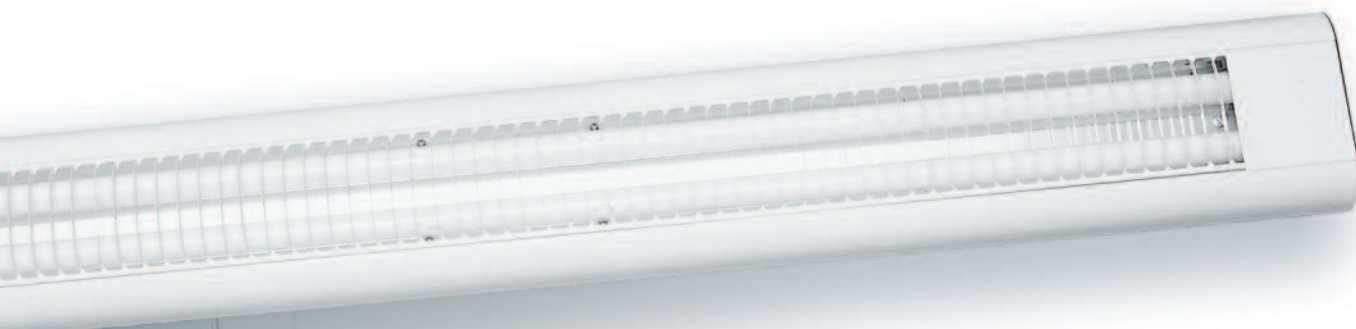
Colour possibilities of joints and end caps: the same as fitting's body.





# OS

## INDOOR MODULAR fluorescent lighting fittings oval 165 x 70 mm



### Use:

OS fluorescent lighting fittings can be installed individually or in various configurations. The required shape can be achieved by using joints of the same profile. The configurations with OS luminaires are suitable for an illumination of representative interiors, offices, administrative buildings, department stores, libraries, exhibition halls and sales rooms etc.

Lighting fittings can be combined with spot-lights which are fixed on a profile.

### Description:

The **tube** of the lighting fitting and joints are made of **oval aluminium profile (165 x 70 mm)**. The tube consists of two parts, the bottom cover can be removed during an installation to enable an access to the terminal block and a connection with joints. An empty tube of a different length can be also used to connect the fittings into various configurations or for fixing of spot-lights. The tube and joints are powder coated. Inside the tube there is the **parabolic reflector** made of polished aluminium. It increases a luminous intensity so the fittings can be also installed in a higher level to keep a required luminous efficiency. The lighting fitting is provided with an aluminium **louvre** of white colour.

### Modifications:

- **Basic type** - single or double tube - three-phases through wiring and two screwless terminal blocks at both ends of the fitting are included.
- With **electronic ballast** providing advantages of saving energy, longer light sources' life, constant luminous flux, immediate start etc.
- With **electronic ballast** for T5 fluorescent lamps (d=16 mm) - this modification brings another saving of energy and achieves even higher light efficiency.
- with **dimnable electronic ballast (ER)**
- with **dimnable electronic ballast and T5 lamps (ER T5)**



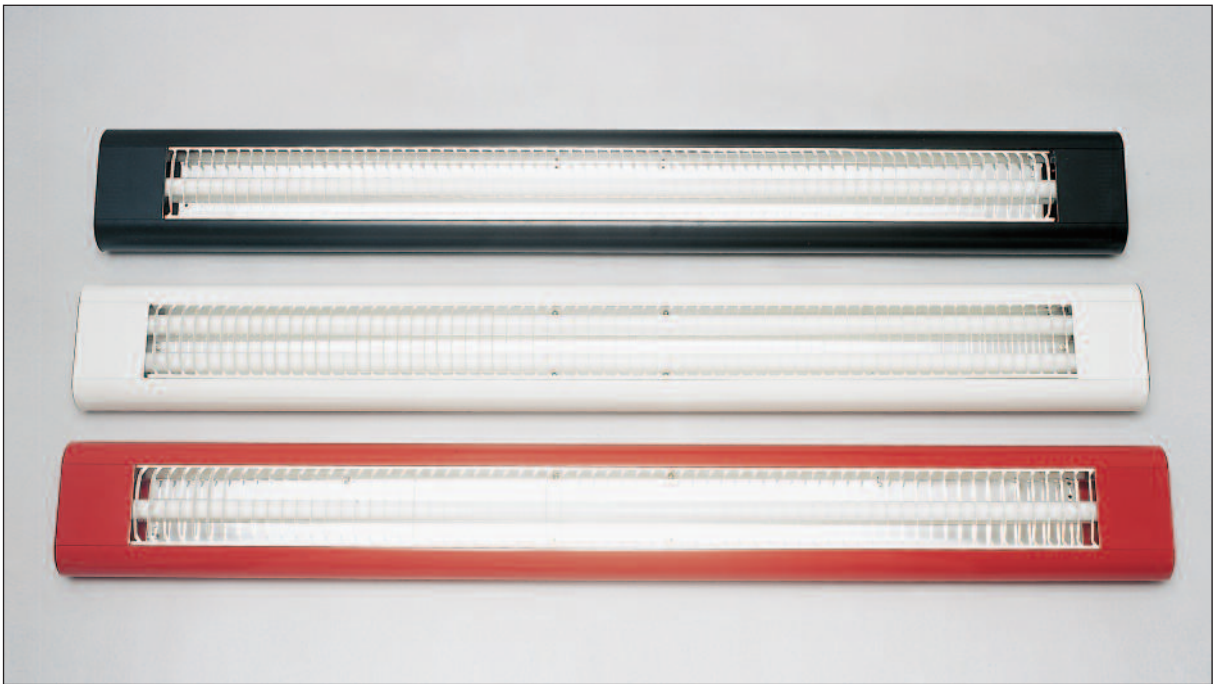
CB  
test



IP20

230 V  
50 Hz





Colour possibilities: - Lighting fittings and joints are produced in white and black colour.  
- Other colours according to RAL scale can be agreed.

### ***Possibilities of a combination with spot-lights***

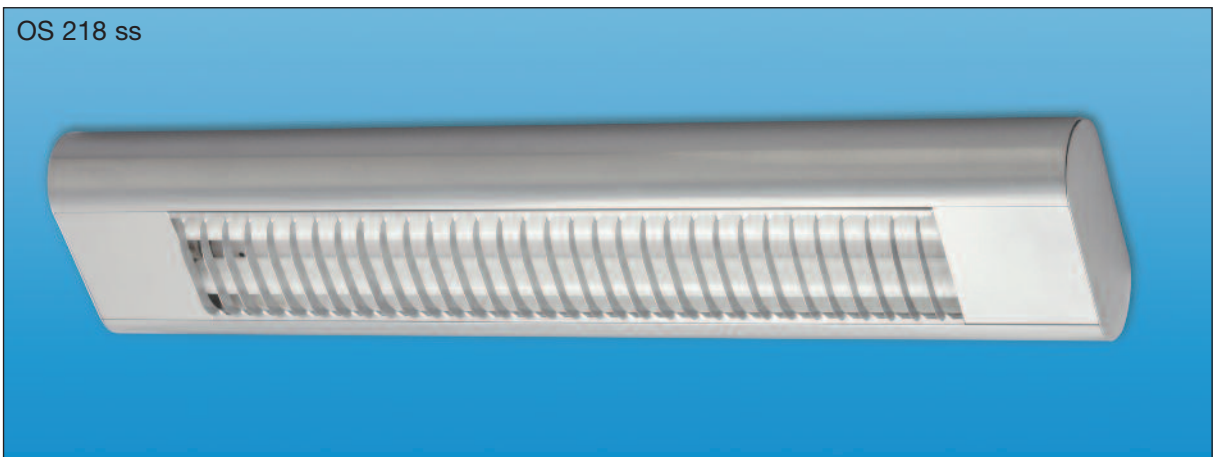
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HRV 20-Z

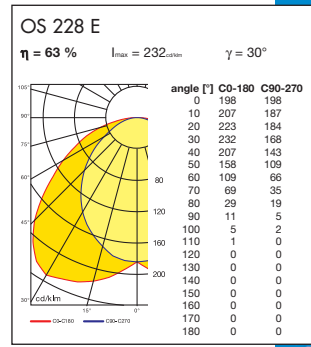
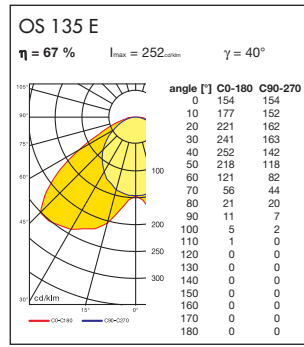
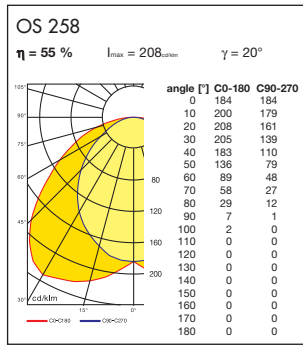
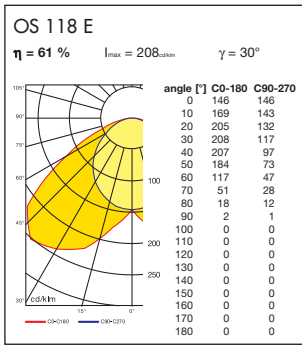


HRV 20-S



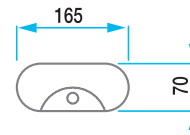
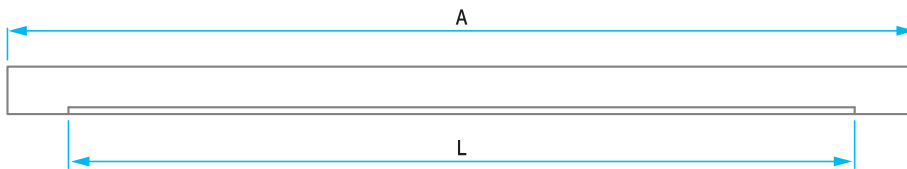
OS 218 ss





Order code	Type	Light sources		Luminous efficiency	Net weight	Dimensions	
		W		%		A	L
basic HPF wired modification							
15011	OS 118	1x18	T8/G13	61	2,7	730	550
15021	OS 136	1x36	T8/G13	60	4,5	1 340	1160
15031	OS 158	1x58	T8/G13	58	5,5	1 640	1460
15041	OS 218	2x18	T8/G13	58	2,9	730	550
15051	OS 236	2x36	T8/G13	57	4,8	1 340	1160
15061	OS 258	2x58	T8/G13	55	6,0	1 640	1460
with electronic ballast							
15015	OS 118 E	1x18	T8/G13	61	2,4	730	550
15025	OS 136 E	1x36	T8/G13	60	4,2	1 340	1160
15035	OS 158 E	1x58	T8/G13	58	5,0	1 640	1460
15045	OS 218 E	2x18	T8/G13	58	2,5	730	550
15055	OS 236 E	2x36	T8/G13	57	4,3	1 340	1160
15065	OS 258 E	2x58	T8/G13	55	5,1	1 640	1460
with electronic ballast T5							
15511	OS 114 ET5	1x14	T5/G5	67	2,4	730	545
15521	OS 128 ET5	1x28	T5/G5	67	4,2	1 340	1155
15531	OS 135 ET5	1x35	T5/G5	67	5,0	1 640	1455
15541	OS 214 ET5	2x14	T5/G5	63	2,5	730	545
15551	OS 228 ET5	2x28	T5/G5	63	4,3	1 340	1155
15561	OS 235 ET5	2x35	T5/G5	63	5,1	1 640	1455

Colour codes: xxxx 1 = white, xxxx 2 = silver, xxxx 3 = black, xxxx 4 = red

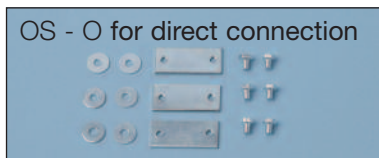
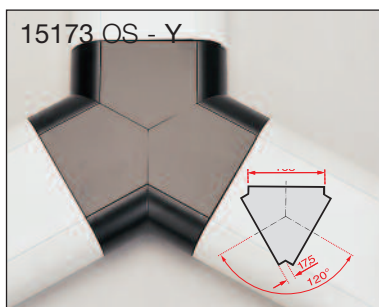
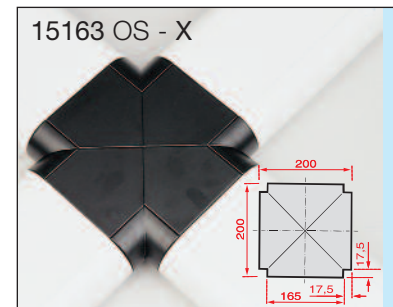
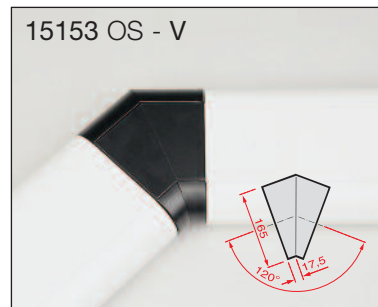
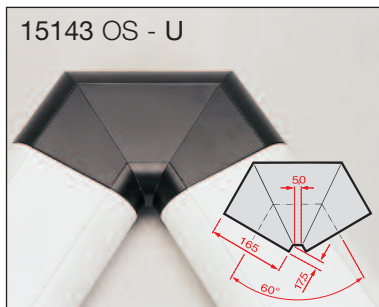
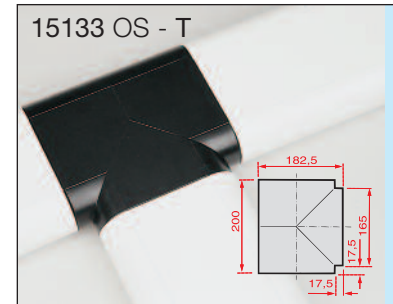
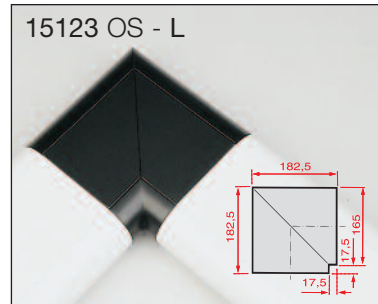
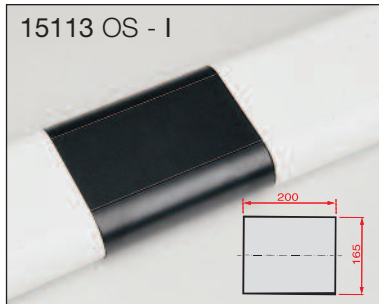


## Joins and suspensions

Standard I, L, T, X, Y joints are used to connect fittings or empty tubes into designed configurations. The variability is completed with V joint 91°-175° and U joint 45°-89°, delivered on demand. The joints are delivered together with metal connecting parts, screws and washers which are also used for a direct connection of two lighting fittings (marked OS-O). An empty tube of a different length is available as I joint.

The ceiling suspension (Z1) is delivered with 1,10 m long steel wire (other length on demand), wire clamps and a plastic ceiling cover in white or black colour. Twisted connection cords for power supply are possible. The end of the tube without the joint can be closed with a metal end cap in the same colour as the tube (marked OS-K).

Colour possibilities of joints and end caps: the same as fitting's body.



standard Z1 ceiling suspension

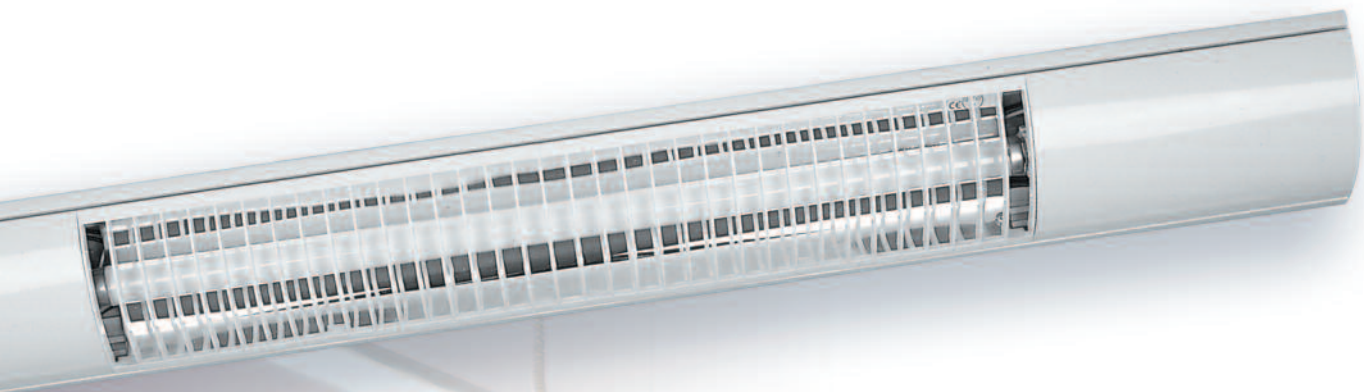


# MO

## INDOOR MODULAR

fluorescent lighting fittings

ellipse 130 x 65 mm



### Use:

MO fluorescent lighting fittings can be installed individually or in various configurations. Required shape can be achieved using joints of the same profile. The configurations with MO lightings are suitable for illumination of representative interiors, offices, administrative buildings, exhibition halls and sales rooms etc.

### Description:

Tube of the lighting fitting and joints are made of ellipse aluminium profile (130 x 65 mm). The tube consists of two parts, the bottom cover can be removed during installation to enable the access to terminal block and connection with joints. An empty tube of different length can be also used to connect the fittings into various configurations. The tube and joints are powder coated.

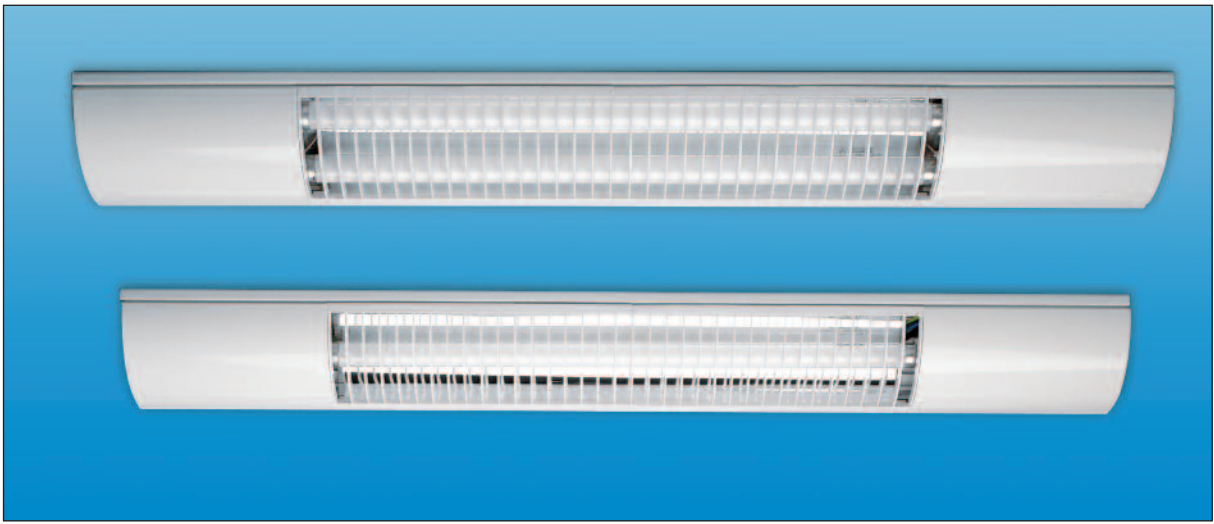
**Parabolic reflector** inside the tube made of polished aluminium increases luminous intensity so the fittings can be also installed in higher level to keep a required luminous efficiency.

The lighting fitting is provided with plastic **louvre** of white colour. On demand also chrome-plated louvre can be delivered.

### Modifications:

- **Basic type** - Three-phases through wiring and two four-poles terminal blocks at both ends of the fitting are included.
- **With electronic ballast**
- **With electronic ballast for T5 fluorescent lamps.**





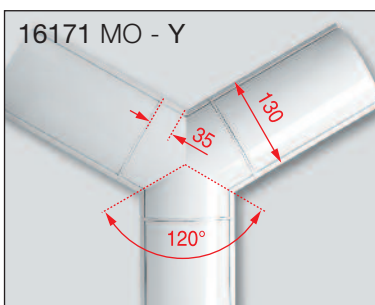
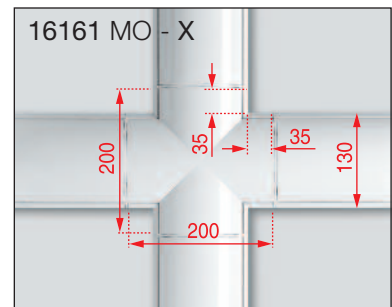
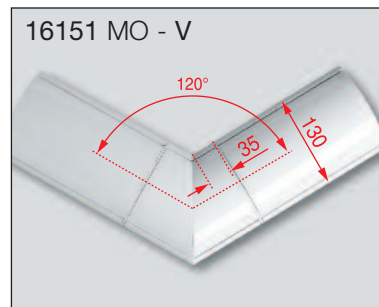
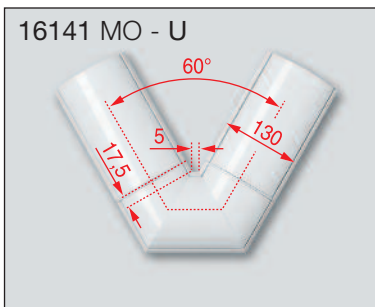
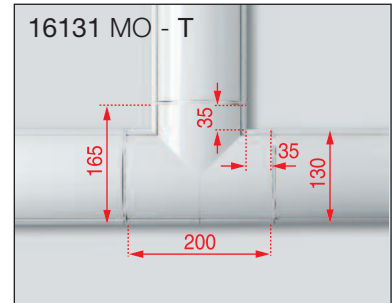
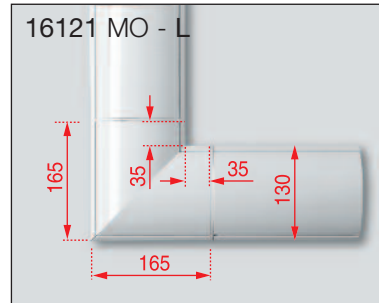
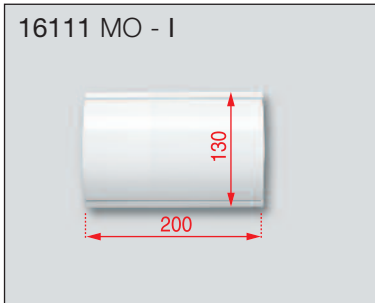
Colour possibilities: - Lighting fittings and joints are produced in white colour.  
 - Other colours according to RAL scale can be agreed.

### Joins and suspensions

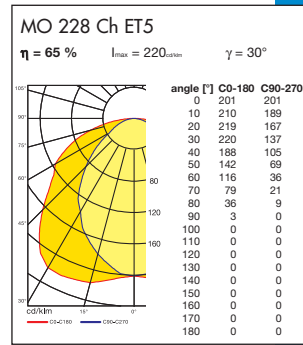
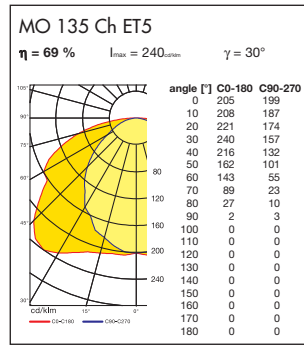
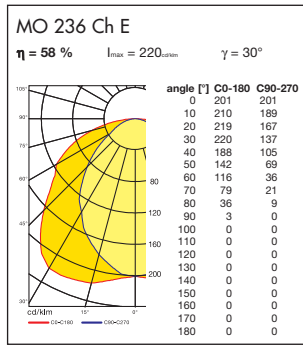
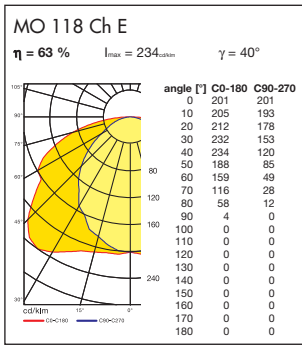
Standard I, L, T, X, Y joints are used to connect the fittings or the empty tubes into designed configurations. Also V and U joints are delivered on demand. The joints are delivered together with metal connecting parts and a distance plastic washer, which are used also for a direct connection (marked MO-S). An empty tube in different length is available as I joint. The ceiling suspension (Z4) is delivered with 1,10 m long steel wire (other length on demand), wire clamps and a plastic ceiling cover of white or black colour.

The end of the tube without the joint can be closed with a plastic end cap of white, black or silver colour (MO-K).

Z4 - ceiling suspension

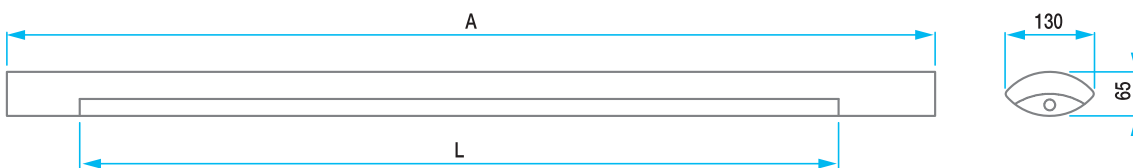






Order code	Type	Light sources		Luminous efficiency	Net weight	Dimensions	
		W	%	A		L	
<b>basic HPF wired modification</b>							
16011	MO 118	1x18	T8/G13	63	2,6	1000	685
16021	MO 136	1x36	T8/G13	63	3,5	1600	1185
16031	MO 158	1x58	T8/G13	62	4,8	2000	1485
16041	MO 218	2x18	T8/G13	58	3,3	1000	685
16051	MO 236	2x36	T8/G13	58	4,4	1600	1185
16061	MO 258	2x58	T8/G13	55	5,8	2000	1485
<b>with electronic ballast</b>							
16015	MO 118 E	1x18	T8/G13	63	2,3	1000	685
16025	MO 136 E	1x36	T8/G13	63	3,2	1600	1185
16035	MO 158 E	1x58	T8/G13	62	4,3	2000	1485
16045	MO 218 E	2x18	T8/G13	58	2,9	1000	685
16055	MO 236 E	2x36	T8/G13	58	3,4	1600	1185
16065	MO 258 E	2x58	T8/G13	55	4,6	2000	1485
<b>with electronic ballast T5</b>							
16511	MO 114/24 ET5	1x14/24	T5/G5	69/67	2,1	770	520
16571	MO 121/39 ET5	1x21/39	T5/G5	69/66	2,6	1070	820
16521	MO 128/54 ET5	1x28/54	T5/G5	69/67	3,0	1370	1120
16531	MO 135/49/80 ET5	1x35/49/80	T5/G5	69/67/66	4,1	1670	1420
16541	MO 214/24 ET5	2x14/24	T5/G5	65/61	2,1	770	520
16581	MO 221/39 ET5	2x21/39	T5/G5	65/60	2,6	1070	820
16551	MO 228/54 ET5	2x28/54	T5/G5	65/61	3,0	1370	1120
16561	MO 235/49 ET5	2x35/49	T5/G5	65/61	4,1	1670	1420
16591	MO 280 ET5	2x/80	T5/G5	60	4,1	1670	1420

Colour codes: xxxx 1 = white, xxxx 2 = silver, xxxx 3 = black, xxxx 4 = red  
 Codes of diffusers: 160xx – with plastic white louvre  
 163xx – with polycarbonate (PC) diffuser  
 166xx – with chrome-plated louvre (Ch)





IP20

230 V  
50 Hz



# LUXOR

INDOOR SURFACE MOUNTED LUMINAIRES



#### Use:

The luminaires are designed for high efficiency and high output fluorescent tubes of T5 range. They can be used indoor as surface mounted or suspended (also for indirect illumination)

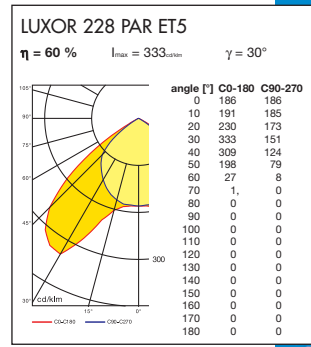
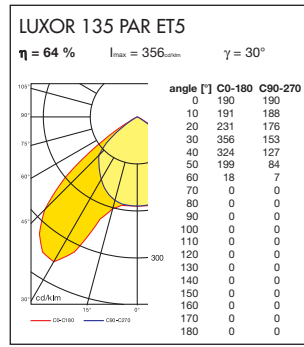
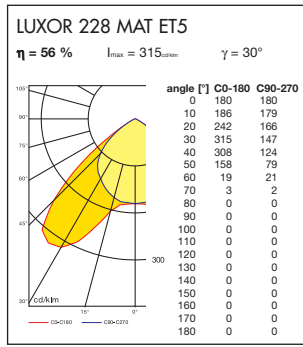
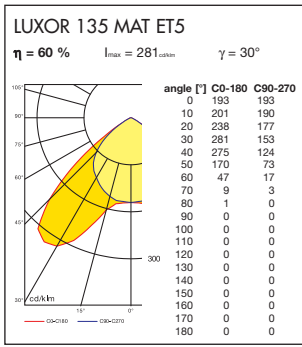
#### Description, optics:

The body is made of steel sheet powder coated with RAL 9006 (silver) colour. Parabolic louvre is made of aluminium sheet. It can be either polished or matted. Electronic ballast is hidden in the side of the body.

#### Installation:

- Directly on surface
- Hung on strap-laid suspensions

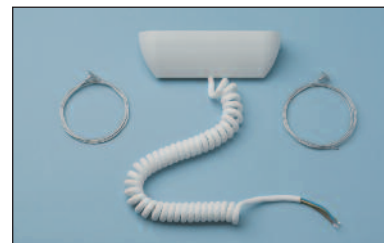
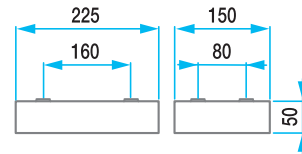
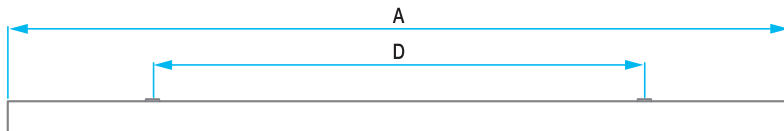




Order code	Type	Light sources		Luminous efficiency	Net weight	Dimensions		
		W		%	kg	A	B	D
<b>parabolic matted louvre – surface mounted</b>								
26012	LUXOR 114/24 MAT ET5 s	1x14/24	T5/G5	60/58	2,5	630	150	400
26022	LUXOR 128/54 MAT ET5 s	1x28/54	T5/G5	60/58	4,2	1230	150	900
26032	LUXOR 135/49/80 MAT ET5 s	1x35/49/80	T5/G5	60/58/56	5,0	1530	150	1200
26042	LUXOR 214/24 MAT ET5 s	2x14/24	T5/G5	56/54	3,0	630	225	400
26052	LUXOR 228/54 MAT ET5 s	2x28/54	T5/G5	56/54	5,0	1230	225	900
26062	LUXOR 235/49 MAT ET5 s	2x35/49	T5/G5	56/54	6,0	1530	225	1200
26072	LUXOR 280 MAT ET5 s	2x80	T5/G5	52	6,0	1530	225	1200
<b>parabolic matted louvre – for direct and indirect illumination - suspended</b>								
26013	LUXOR 114/24 MAT ET5 DI-IN s	1x14/24	T5/G5	63/61	2,5	630	150	400
26023	LUXOR 128/54 MAT ET5 DI-IN s	1x28/54	T5/G5	63/61	4,2	1230	150	900
26033	LUXOR 135/49/80 MAT ET5 DI-IN s	1x35/49/80	T5/G5	63/61/59	5,0	1530	150	1200
26043	LUXOR 214/24 MAT ET5 DI-IN s	2x14/24	T5/G5	59/57	3,0	630	225	400
26053	LUXOR 228/54 MAT ET5 DI-IN s	2x28/54	T5/G5	59/57	5,0	1230	225	900
26063	LUXOR 235/49 MAT ET5 DI-IN s	2x35/49	T5/G5	59/57	6,0	1530	225	1200
26073	LUXOR 280 MAT ET5 DI-IN s	2x80	T5/G5	55	6,0	1530	225	1200
<b>parabolic polished louvre – surface mounted</b>								
26112	LUXOR 114/24 PAR ET5 s	1x14/24	T5/G5	64/62	2,5	630	150	400
26122	LUXOR 128/54 PAR ET5 s	1x28/54	T5/G5	64/62	4,2	1230	150	900
26132	LUXOR 135/49/80 PAR ET5 s	1x35/49/80	T5/G5	64/62/60	5,0	1530	150	1200
26142	LUXOR 214/24 PAR ET5 s	2x14/24	T5/G5	60/58	3,0	630	225	400
26152	LUXOR 228/54 PAR ET5 s	2x28/54	T5/G5	60/58	5,0	1230	225	900
26162	LUXOR 235/49 PAR ET5 s	2x35/49	T5/G5	60/58	6,0	1530	225	1200
26172	LUXOR 280 PAR ET5 s	2x80	T5/G5	56	6,0	1530	225	1200
<b>parabolic polished louvre – for direct and indirect illumination - suspended</b>								
26113	LUXOR 114/24 PAR ET5 DI-IN s	1x14/24	T5/G5	67/65	2,5	630	150	400
26123	LUXOR 128/54 PAR ET5 DI-IN s	1x28/54	T5/G5	65/65	4,2	1230	150	900
26133	LUXOR 135/49/80 PAR ET5 DI-IN s	1x35/49/80	T5/G5	67/65/63	5,0	1530	150	1200
26143	LUXOR 214/24 PAR ET5 DI-IN s	2x14/24	T5/G5	63/61	3,0	630	225	400
26153	LUXOR 228/54 PAR ET5 DI-IN s	2x28/54	T5/G5	63/61	5,0	1230	225	900
26163	LUXOR 235/49 PAR ET5 DI-IN s	2x35/49	T5/G5	63/61	6,0	1530	225	1200
26173	LUXOR 280 PAR ET5 DI-IN s	2x80	T5/G5	59	6,0	1530	225	1200
<b>accessories</b>								
26001	suspension LUXOR 1				0,1			
26002	suspension LUXOR 2 with supply cable				0,2			



Colours: silver metallic paint (s) or white  
 DI-IN = direct-indirect



INDOOR SURFACE MOUNTED  
fluorescent lighting fittings DI-IN

# POP



230 V  
50 Hz



Ø 16  
G 5

1-2,5 mm<sup>2</sup>

t 105 °C

EVG

EVG  
DIMM



#### Use:

The luminaires are designed for high efficiency and high output fluorescent tubes of T5 range.

They can be used indoor as surface mounted or suspended (also for indirect illumination).

#### Description, optics:

The body is produced of aluminium profile coated with grey-silver metallic paint.

Parabolic louvre is made of aluminium sheet. As an option the luminaire can be delivered with opalized polycarbonate sheet instead of louvre.

#### Installation:

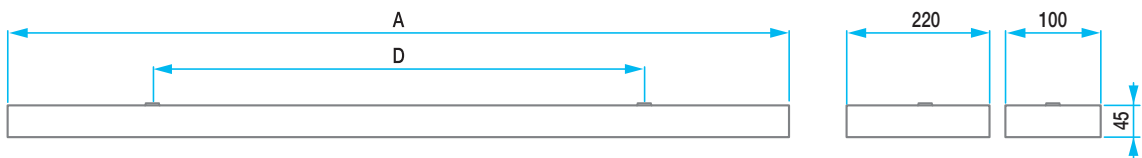
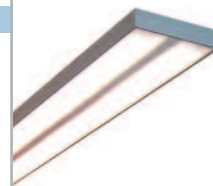
- Directly on surface
- Hung on steel cables with DI-IN illumination (maximum suspension length 180 cm)



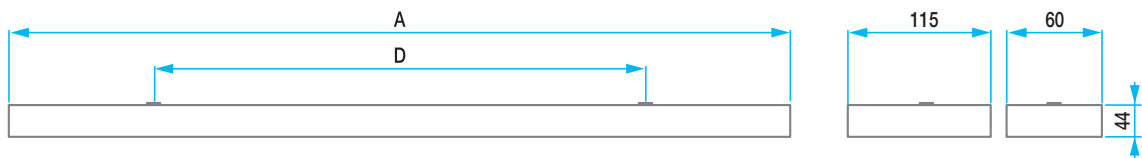
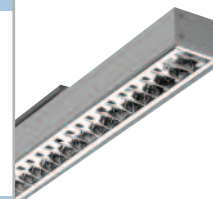
IP40

Order code	Type	Light sources		Net weight kg	Dimensions A D (mm)	
		W				
with opal polycarbonate cover – surface mounted						
26305	POP 239 OP ET5	2x39	T5/G5	4,0	900	400
26307	POP 254 OP ET5	2x54	T5/G5	4,5	1200	400

Order code	Type	Light sources		Net weight kg	Dimensions A D (mm)	
		W				
with opal polycarbonate cover – with suspension for DI-IN illumination						
26312	POP 121 OP ET5 DI-IN	1x21	T5/G5	2,5	900	400
26313	POP 128 OP ET5 DI-IN	1x28	T5/G5	3,0	1200	400
26314	POP 135 OP ET5 DI-IN	1x35	T5/G5	4,0	1500	400
26315	POP 139 OP ET5 DI-IN	1x39	T5/G5	2,5	900	400
26316	POP 149 OP ET5 DI-IN	1x49	T5/G5	4,0	1500	400
26317	POP 154 OP ET5 DI-IN	1x54	T5/G5	3,0	1200	400
26318	POP 180 OP ET5 DI-IN	1x80	T5/G5	4,0	1500	400
26322	POP 221 OP ET5 DI-IN	2x21	T5/G5	4,0	900	400
26323	POP 228 OP ET5 DI-IN	2x28	T5/G5	4,5	1200	400
26324	POP 235 OP ET5 DI-IN	2x35	T5/G5	5,5	1500	400
26325	POP 239 OP ET5 DI-IN	2x39	T5/G5	4,0	900	400
26326	POP 249 OP ET5 DI-IN	2x49	T5/G5	5,5	1500	400
26327	POP 254 OP ET5 DI-IN	2x54	T5/G5	4,5	1200	400
26328	POP 280 OP ET5 DI-IN	2x80	T5/G5	5,5	1500	400



Order code	Type	Light sources		Net weight kg	Dimensions A D (mm)	
		W				
with parabolic polished louvre – with suspension for DI-IN illumination						
26412	POP II 121 PAR ET5 DI-IN	1x21	T5/G5	2,5	950	400
26413	POP II 128 PAR ET5 DI-IN	1x28	T5/G5	3,0	1250	400
26414	POP II 135 PAR ET5 DI-IN	1x35	T5/G5	4,0	1550	400
26415	POP II 139 PAR ET5 DI-IN	1x39	T5/G5	2,5	950	400
26416	POP II 149 PAR ET5 DI-IN	1x49	T5/G5	4,0	1550	400
26417	POP II 154 PAR ET5 DI-IN	1x54	T5/G5	3,0	1250	400
26418	POP II 180 PAR ET5 DI-IN	1x80	T5/G5	4,0	1550	400
26422	POP II 221 PAR ET5 DI-IN	2x21	T5/G5	4,0	950	400
26423	POP II 228 PAR ET5 DI-IN	2x28	T5/G5	4,5	1250	400
26424	POP II 235 PAR ET5 DI-IN	2x35	T5/G5	5,5	1550	400
26425	POP II 239 PAR ET5 DI-IN	2x39	T5/G5	4,0	950	400
26426	POP II 249 PAR ET5 DI-IN	2x49	T5/G5	5,5	1550	400
26427	POP II 254 PAR ET5 DI-IN	2x54	T5/G5	4,5	1250	400
26428	POP II 280 PAR ET5 DI-IN	2x80	T5/G5	5,5	1550	400



IP20



IP20

230 V  
50 Hz



# FINESTRA

INDOOR SURFACE  
MOUNTED  
fluorescent  
lighting fittings



**Use:**

Multi-purpose luminaires are designed for direct installation on the ceiling, in case of smaller type also on the wall.

**Description, optics:**

The body is made of steel sheet powder coated with grey-silver colour.

The diffuser is produced of opalized acrylate sheet.

Order code	Type	Light sources		Net weight kg	Dimensions (mm)		
		W	H		A	B	C
<b>715 x 715 mm with opal acrylic cover</b>							
26501	FINESTRA 414 OP ET5	4x14	T5/G5	6,0	715	715	70
26502	FINESTRA 424 OP ET5	4x24	T5/G5	6,0	715	715	70
26503	FINESTRA 236 OP	2x36	T8/G13	5,5	1315	375	65
26504	FINESTRA 236 OP E	2x36	T8/G13	5,0	1315	375	65
<b>300 x 300 mm with opal acrylic cover</b>							
26511	FINESTRA 218 OP	2x18	TC-D/G24d-2	2,8	300	300	40
26512	FINESTRA 218 OP E	2x18	TC-DEL/G24q-2	2,3	300	300	40
26513	FINESTRA 122 OP	1x22	T-R/G10q	2,5	300	300	40
<b>400 x 400 mm with opal acrylic cover</b>							
26521	FINESTRA 132 OP	1x32	T-R/G10q	3,8	400	400	50
26522	FINESTRA 224 OP	2x24	TC-L/2G11	3,8	400	400	50



# QUADRO

INDOOR SURFACE MOUNTED  
fluorescent lighting fittings



IP20

230 V  
50 Hz



## Use:

Multi-purpose luminaires are designed for direct installation on the ceiling or wall.

## Description, optics

The body is made of aluminium profile powder coated with grey-silver colour.

The diffuser is produced of opalized acrylate sheet.



Order code	Type	Light sources		Net weight kg	Dimensions (mm)		
		W			A	B	C
<b>600 x 600 mm with opal acrylic cover</b>							
26601	QUADRO 418 OP	4x18	T8/G13	5,9	600	600	76
26602	QUADRO 418 OP E	4x18	T8/G13	5,1	600	600	76
<b>235 x 235 mm with opal acrylic cover</b>							
26603	QUADRO 236 OP	2x36	T8/G13	5,8	1278	358	76
26604	QUADRO 236 OP E	2x36	T8/G13	5,0	1278	358	76
<b>295 x 295 mm with opal acrylic cover</b>							
26611	QUADRO 218 OP	2x18	TC-D/G24d-2	2,0	235	235	76
26612	QUADRO 218 OP E	2x18	TC-DEL/G24q-2	1,7	235	235	76
<b>295 x 295 mm with opal acrylic cover</b>							
26613	QUADRO 226 OP E	2x26	TC-DEL/G24q-3	1,9	295	295	76



IP20

230 V  
50 Hz



# PSV

RECESSED  
fluorescent lighting fittings



### Use:

PSV fluorescent lighting fittings are constructed to be recessed to standard lower ceiling systems 600 x 600 mm. A suspended lower ceiling system with recessed PSV fittings is very aesthetic, makes an effective sound insulation and enables to cover electrical, telephone, air and other installations. The lighting fittings can be used in production halls, in offices or in department stores etc.

### Description:

The body of the lighting fitting is formed of a bended and welded steel sheet. It is powder coated with white colour.

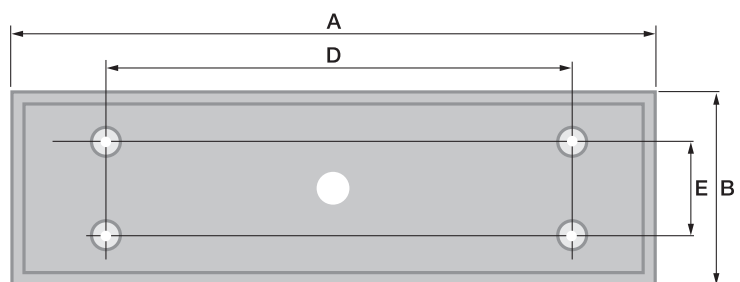
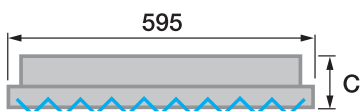
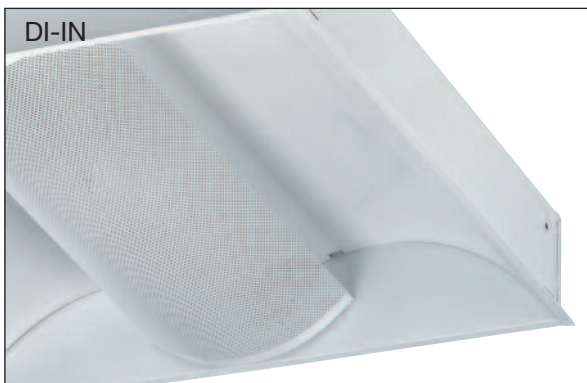
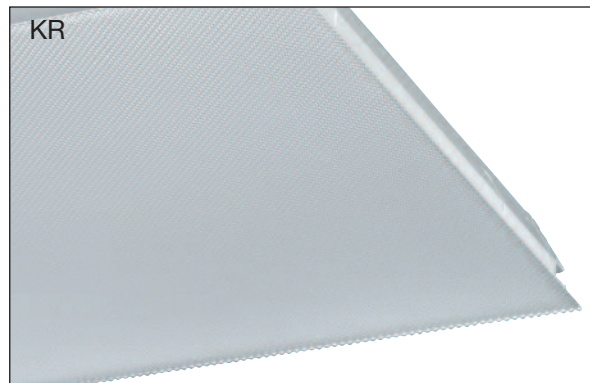
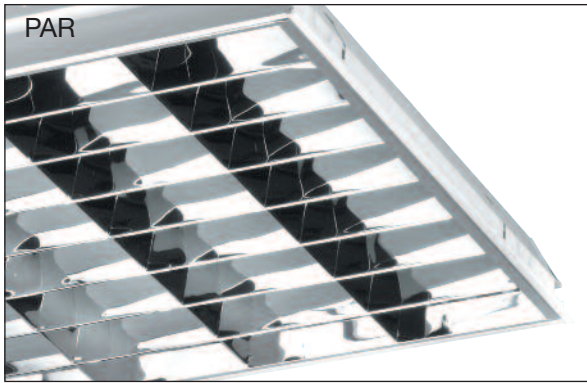
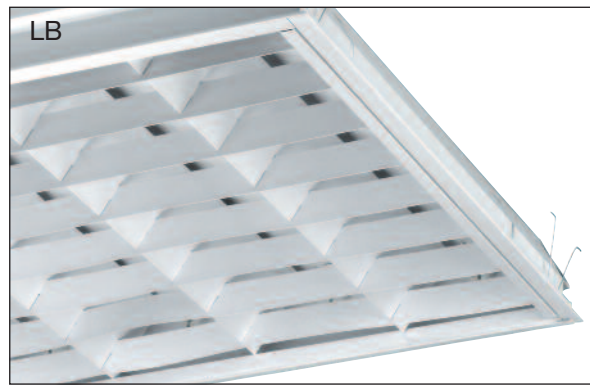
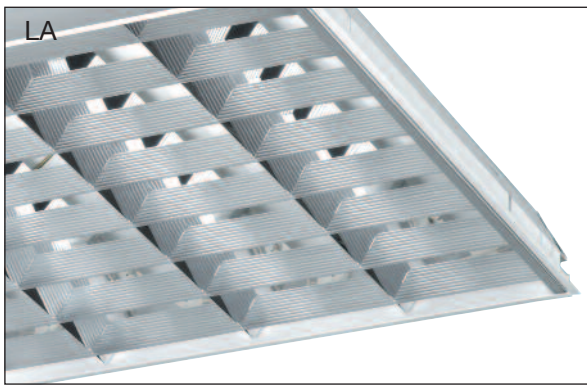
### Optics variants:

- LA – polished louvre – made of polished Al sheet with transverse lamellas made of matted Al sheet
- LB – white louvre – made of white coated sheet
- PAR – parabolic louvre – made of polished Al sheet (also parabolic transverse lamellas)
- PARMAT – parabolic matted louvre – made of matted Al sheet (also parabolic transverse lamellas)
- OP - diffuser of opal acrylic
- KR – diffuser of prismatic acrylic
- IN – indirect – with white reflexive cover
- DI-IN – direct-indirect – with perforated cover
- IP65 PAR – parabolic louvre with protecting glass.

### Modifications:

- basic modification – HPF wired, equipped with a screwless terminal block, a radio-interference capacitor and starter
- with electronic ballast (E)
- with electronic ballast T5 (ET5)
- with electronic dimmable ballast (ER)
- with emergency kit (M)



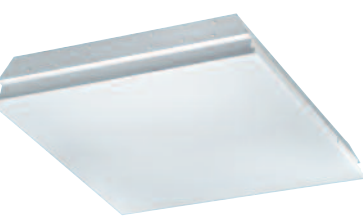
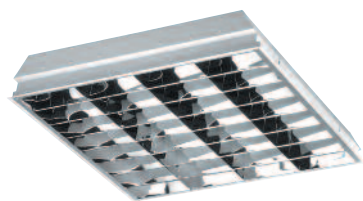
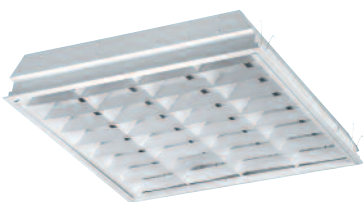
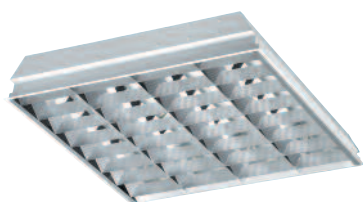


## PSV - Roma

Recessed fluorescent lighting fittings for lower ceiling systems 600 x 600 mm

Order code	Type	Light sources		Net weight kg	Dimensions A B C (mm)		
		W					
with polished Al louvre							
18210	PSV 218 LA - Rom	2x18	T8/G13	2,7	595	295	90
18110	PSV 236 LA - Rom	2x36	T8/G13	4,9	1195	295	90
18610	PSV 318 LA - Rom	3x18	T8/G13	4,6	595	595	90
18010	PSV 418 LA - Rom	4x18	T8/G13	4,7	595	595	90
18710	PSV 436 LA - Rom	4x36	T8/G13	9,2	1195	595	90
with polished Al louvre and electronic ballast							
18215	PSV 218 LA E - Rom	2x18	T8/G13	2,2	595	295	90
18115	PSV 236 LA E - Rom	2x36	T8/G13	4,0	1195	295	90
18615	PSV 318 LA E - Rom	3x18	T8/G13	3,8	595	595	90
18015	PSV 418 LA E - Rom	4x18	T8/G13	3,8	595	595	90
18715	PSV 436 LA E - Rom	4x36	T8/G13	7,4	1195	595	90
with white louvre							
18220	PSV 218 LB - Rom	2x18	T8/G13	2,8	595	295	90
18120	PSV 236 LB - Rom	2x36	T8/G13	5,0	1195	295	90
18620	PSV 318 LB - Rom	3x18	T8/G13	4,7	595	595	90
18020	PSV 418 LB - Rom	4x18	T8/G13	4,8	595	595	90
18720	PSV 436 LB - Rom	4x36	T8/G13	9,5	1195	595	90
with white louvre and electronic ballast							
18225	PSV 218 LB E - Rom	2x18	T8/G13	2,3	595	295	90
18125	PSV 236 LB E - Rom	2x36	T8/G13	4,1	1195	295	90
18625	PSV 318 LB E - Rom	3x18	T8/G13	3,9	595	595	90
18025	PSV 418 LB E - Rom	4x18	T8/G13	4,0	595	595	90
18725	PSV 436 LB E - Rom	4x36	T8/G13	7,7	1195	595	90
with parabolic polished Al louvre							
18240	PSV 218 PAR - Rom	2x18	T8/G13	3,1	595	295	90
18140	PSV 236 PAR - Rom	2x36	T8/G13	5,7	1195	295	90
18640	PSV 318 PAR - Rom	3x18	T8/G13	5,4	595	595	90
18040	PSV 418 PAR - Rom	4x18	T8/G13	5,5	595	595	90
18740	PSV 436 PAR - Rom	4x36	T8/G13	9,4	1195	595	90
with parabolic polished Al louvre and electronic ballast							
18245	PSV 218 PAR E - Rom	2x18	T8/G13	2,7	595	295	90
18145	PSV 236 PAR E - Rom	2x36	T8/G13	4,9	1195	295	90
18645	PSV 318 PAR E - Rom	3x18	T8/G13	4,6	595	595	90
18045	PSV 418 PAR E - Rom	4x18	T8/G13	4,7	595	595	90
18745	PSV 436 PAR E - Rom	4x36	T8/G13	7,6	1195	595	90
with parabolic matted Al louvre							
18250	PSV 218 PARMAT - Rom	2x18	T8/G13	3,1	595	295	90
18150	PSV 236 PARMAT - Rom	2x36	T8/G13	5,7	1195	295	90
18650	PSV 318 PARMAT - Rom	3x18	T8/G13	5,4	595	595	90
18050	PSV 418 PARMAT - Rom	4x18	T8/G13	5,5	595	595	90
18750	PSV 436 PARMAT - Rom	4x36	T8/G13	9,4	1195	595	90
with parabolic matted Al louvre and electronic ballast							
18255	PSV 218 PARMAT E - Rom	2x18	T8/G13	2,7	595	295	90
18155	PSV 236 PARMAT E - Rom	2x36	T8/G13	4,9	1195	295	90
18655	PSV 318 PARMAT E - Rom	3x18	T8/G13	4,6	595	595	90
18055	PSV 418 PARMAT E - Rom	4x18	T8/G13	4,7	595	595	90
18755	PSV 436 PARMAT E - Rom	4x36	T8/G13	7,6	1195	595	90
with opal diffuser							
18230	PSV TL 218 OP - Rom	2x18	T8/G13	3,4	595	295	90
18130	PSV TL 236 OP - Rom	2x36	T8/G13	6,1	1195	295	90
18630	PSV TL 318 OP - Rom	3x18	T8/G13	6,3	595	595	90
18030	PSV TL 418 OP - Rom	4x18	T8/G13	6,4	595	595	90
with opal diffuser and electronic ballast							
18235	PSV TL 218 OP E - Rom	2x18	T8/G13	3,0	595	295	90
18135	PSV TL 236 OP E - Rom	2x36	T8/G13	5,3	1195	295	90
18635	PSV TL 318 OP E - Rom	3x18	T8/G13	5,5	595	595	90
18035	PSV TL 418 OP E - Rom	4x18	T8/G13	5,6	595	595	90

IP20



IP40

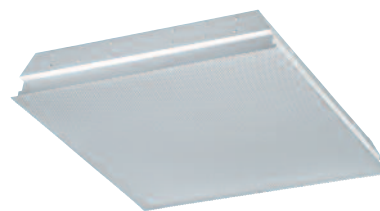


## PSV - Roma

Recessed fluorescent lighting fittings for lower ceiling systems 600 x 600 mm

Order code	Type	Light sources		Net weight	Dimensions		
		W			A	B	C
with prismatic diffuser							
18260	PSV TL 218 KR - Rom	2x18	T8/G13	3,4	595	295	90
18160	PSV TL 236 KR - Rom	2x36	T8/G13	6,1	1195	295	90
18660	PSV TL 318 KR - Rom	3x18	T8/G13	6,3	595	595	90
18060	PSV TL 418 KR - Rom	4x18	T8/G13	6,4	595	595	90
with prismatic diffuser and electronic ballast							
18265	PSV TL 218 KR E - Rom	2x18	T8/G13	3,0	595	295	90
18165	PSV TL 236 KR E - Rom	2x36	T8/G13	5,3	1195	295	90
18665	PSV TL 318 KR E - Rom	3x18	T8/G13	5,5	595	595	90
18065	PSV TL 418 KR E - Rom	4x18	T8/G13	5,6	595	595	90

- 18xx7 modification with dimmable electronic ballast (ER)  
 18xx8 modification with 1hr emergency unit  
 18xx4 modification with 1hr emergency unit and electronic ballast  
 18xx3 modification with 1hr emergency unit and dimmable electronic ballast



IP40

## PSV IP65 - Roma

Recessed fluorescent lighting fittings for lower ceiling systems 600 x 600 mm in waterproof and dustproof version

Order code	Type	Light sources		Net weight	Dimensions		
		W			A	B	C
with opal diffuser							
28230	PSV IP65 218 OP - Rom	2x18	T8/G13	3,4	598	296	112
28130	PSV IP65 236 OP - Rom	2x36	T8/G13	6,1	1191	296	112
28301	PSV IP65 336 OP - Rom	3x36	TC-L/ 2G11	6,1	598	598	112
28030	PSV IP65 418 OP - Rom	4x18	T8/G13	6,4	598	598	112
with opal diffuser and electronic ballast							
28235	PSV IP65 218 OP E - Rom	2x18	T8/G13	3,0	598	296	112
28135	PSV IP65 236 OP E - Rom	2x36	T8/G13	5,3	1191	296	112
28302	PSV IP65 336 OP E - Rom	3x36	TC-L/ 2G11	5,3	1191	598	112
28035	PSV IP65 418 OP E - Rom	4x18	T8/G13	5,6	598	598	112
with parabolic polished Al louvre and protecting glass							
28240	PSV IP65 218 PAR - Rom	2x18	T8/G13	3,1	598	296	112
28140	PSV IP65 236 PAR - Rom	2x36	T8/G13	5,7	1191	296	112
28304	PSV IP65 336 PAR - Rom	3x36	TC-L/ 2G11	5,7	598	598	112
28040	PSV IP65 418 PAR - Rom	4x18	T8/G13	5,5	598	598	112
with parabolic polished Al louvre and protecting glass and electronic ballast							
28245	PSV IP65 218 PAR E - Rom	2x18	T8/G13	2,7	598	296	112
28145	PSV IP65 236 PAR E - Rom	2x36	T8/G13	4,9	1191	296	112
28305	PSV IP65 336 PAR E - Rom	3x36	TC-L/ 2G11	4,9	1191	598	112
28045	PSV IP65 418 PAR E - Rom	4x18	T8/G13	4,7	598	598	112
28xx7	modification with dimmable electronic ballast (ER)						
28xx8	modification with 1hr emergency unit						



IP65



## PSV - T5 Roma

Recessed fluorescent lighting fittings for lower ceiling systems 600 x 600 mm

Order code	Type	Light sources		Net weight	Dimensions		
		W			A	B	C
with parabolic Al louvre and electronic ballast T5							
28551	PSV 414 PAR ET5 - Rom II	4x14	T5/G5	3,1	596	596	55
28552	PSV 424 PAR ET5 - Rom II	4x24	T5/G5	3,1	596	596	55
28553	PSV 428 PAR ET5 - Rom II	4x28	T5/G5	5,0	1195	596	55
28554	PSV 454 PAR ET5 - Rom II	4x54	T5/G5	5,0	1195	596	55
28555	PSV 228 PAR ET5 - Rom II	2x28	T5/G5	3,5	1195	297	55
28556	PSV 254 PAR ET5 - Rom II	2x54	T5/G5	3,5	1195	297	55



IP20

## PSV - Pisa

Recessed fluorescent lighting fittings for plasterboard lower ceiling systems

Order code	Type	Light sources		Net weight kg	Dimensions A B C (mm)		
		W					
<b>with polished Al louvre</b>							
21210	PSV SDK 218 LA - Pis	2x18	T8/G13	2,7	630	330	90
21110	PSV SDK 236 LA - Pis	2x36	T8/G13	4,9	1230	330	90
21010	PSV SDK 418 LA - Pis	4x18	T8/G13	4,7	630	630	90
21710	PSV SDK 436 LA - Pis	4x36	T8/G13	9,2	1230	630	90
<b>with polished Al louvre and electronic ballast</b>							
21215	PSV SDK 218 LA E - Pis	2x18	T8/G13	2,2	630	330	90
21115	PSV SDK 236 LA E - Pis	2x36	T8/G13	4,0	1230	330	90
21015	PSV SDK 418 LA E - Pis	4x18	T8/G13	3,8	630	630	90
21715	PSV SDK 436 LA E - Pis	4x36	T8/G13	7,4	1230	630	90
<b>with white louvre</b>							
21220	PSV SDK 218 LB - Pis	2x18	T8/G13	2,8	630	330	90
21120	PSV SDK 236 LB - Pis	2x36	T8/G13	5,0	1230	330	90
21020	PSV SDK 418 LB - Pis	4x18	T8/G13	4,8	630	630	90
21720	PSV SDK 436 LB - Pis	4x36	T8/G13	9,5	1230	630	90
<b>with white louvre and electronic ballast</b>							
21225	PSV SDK 218 LB E - Pis	2x18	T8/G13	2,3	630	330	90
21125	PSV SDK 236 LB E - Pis	2x36	T8/G13	4,1	1230	330	90
21025	PSV SDK 418 LB E - Pis	4x18	T8/G13	4,0	630	630	90
21725	PSV SDK 436 LB E - Pis	4x36	T8/G13	7,7	1230	630	90
<b>with parabolic polished Al louvre</b>							
21240	PSV SDK 218 PAR - Pis	2x18	T8/G13	3,1	630	330	90
21140	PSV SDK 236 PAR - Pis	2x36	T8/G13	5,7	1230	330	90
21040	PSV SDK 418 PAR - Pis	4x18	T8/G13	5,5	630	630	90
21740	PSV SDK 436 PAR - Pis	4x36	T8/G13	9,4	1230	630	90
<b>with parabolic polished Al louvre and electronic ballast</b>							
21245	PSV SDK 218 PAR E - Pis	2x18	T8/G13	2,7	630	330	90
21145	PSV SDK 236 PAR E - Pis	2x36	T8/G13	4,9	1230	330	90
21045	PSV SDK 418 PAR E - Pis	4x18	T8/G13	4,7	630	630	90
21745	PSV SDK 436 PAR E - Pis	4x36	T8/G13	7,6	1230	630	90
<b>with parabolic matted Al louvre</b>							
21250	PSV SDK 218 PARMAT - Pis	2x18	T8/G13	3,1	630	330	90
21150	PSV SDK 236 PARMAT - Pis	2x36	T8/G13	5,7	1230	330	90
21050	PSV SDK 418 PARMAT - Pis	4x18	T8/G13	5,5	630	630	90
21750	PSV SDK 436 PARMAT - Pis	4x36	T8/G13	9,4	1230	630	90
<b>with parabolic matted Al louvre and electronic ballast</b>							
21255	PSV SDK 218 PARMAT E - Pis	2x18	T8/G13	2,7	630	330	90
21155	PSV SDK 236 PARMAT E - Pis	2x36	T8/G13	4,9	1230	330	90
21055	PSV SDK 418 PARMAT E - Pis	4x18	T8/G13	4,7	630	630	90
21755	PSV SDK 436 PARMAT E - Pis	4x36	T8/G13	7,6	1230	630	90
<b>with opal diffuser</b>							
21230	PSV SDK TL 218 OP - Pis	2x18	T8/G13	3,6	630	330	90
21130	PSV SDK TL 236 OP - Pis	2x36	T8/G13	6,3	1230	330	90
21030	PSV SDK TL 418 OP - Pis	4x18	T8/G13	6,6	630	630	90
<b>with opal diffuser and electronic ballast</b>							
21235	PSV SDK TL 218 OP E - Pis	2x18	T8/G13	3,2	630	330	90
21135	PSV SDK TL 236 OP E - Pis	2x36	T8/G13	5,7	1230	330	90
21035	PSV SDK TL 418 OP E - Pis	4x18	T8/G13	5,8	630	630	90
<b>with prismatic diffuser</b>							
21260	PSV SDK TL 218 KR - Pis	2x18	T8/G13	3,6	630	330	90
21160	PSV SDK TL 236 KR - Pis	2x36	T8/G13	6,3	1230	330	90
21060	PSV SDK TL 418 KR - Pis	4x18	T8/G13	6,6	630	630	90
<b>with prismatic diffuser and electronic ballast</b>							
21265	PSV SDK TL 218 KR E - Pis	2x18	T8/G13	3,2	630	330	90
21165	PSV SDK TL 236 KR E - Pis	2x36	T8/G13	5,7	1230	330	90
21065	PSV SDK TL 418 KR E - Pis	4x18	T8/G13	5,8	630	630	90

21x7 modification with dimmable electronic ballast (ER)

21x8 modification with 1hr emergency unit

IP20

IP40



## PSV - Pisa

Recessed fluorescent lighting fittings for plasterboard lower ceiling systems in waterproof and dustproof version

Order code	Type	Light sources		Net weight kg	Dimensions (mm)		
		W			A	B	C
with opal diffuser							
27230	PSV SDK IP65 218 OP - Pis	2x18	T8/G13	4,1	600	300	120
27130	PSV SDK IP65 236 OP - Pis	2x36	T8/G13	8,2	1200	300	120
28300	PSV SDK IP65 336 OP - Pis	3x36	TC-L/ 2G11	8,3	604	604	120
27030	PSV SDK IP65 418 OP - Pis	4x18	T8/G13	7,6	604	604	120
with opal diffuser and electronic ballast							
27235	PSV SDK IP65 218 OP E - Pis	2x18	T8/G13	3,6	600	300	120
27135	PSV SDK IP65 236 OP E - Pis	2x36	T8/G13	6,7	1200	300	120
28307	PSV SDK IP65 336 OP E - Pis	3x36	TC-L/ 2G11	6,8	604	604	120
27035	PSV SDK IP65 418 OP E - Pis	4x18	T8/G13	6,1	604	604	120
with parabolic polished Al louvre and protecting glass							
27240	PSV SDK IP65 218 PAR - Pis	2x18	T8/G13	4,4	600	300	120
27140	PSV SDK IP65 236 PAR - Pis	2x36	T8/G13	8,7	1200	300	120
28308	PSV SDK IP65 336 PAR - Pis	3x36	TC-L/ 2G11	8,8	604	604	120
27040	PSV SDK IP65 418 PAR - Pis	4x18	T8/G13	8,1	604	604	120
with parabolic polished Al louvre and protecting glass and electronic ballast							
27245	PSV SDK IP65 218 PAR E - Pis	2x18	T8/G13	3,6	600	300	120
27145	PSV SDK IP65 236 PAR E - Pis	2x36	T8/G13	7,2	1200	300	120
28309	PSV SDK IP65 336 PAR E - Pis	3x36	TC-L/ 2G11	7,3	604	604	120
27045	PSV SDK IP65 418 PAR E - Pis	4x18	T8/G13	6,6	604	604	120

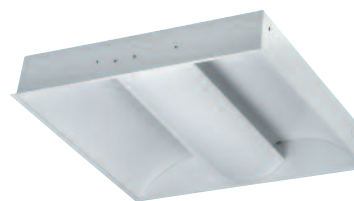


IP65

## PSV - Imola

Recessed fluorescent lighting fittings for lower ceiling systems 600 x 600 mm

Order code	Type	Light sources		Net weight kg	Dimensions (mm)		
		W			A	B	C
Indirect – for indirect illumination							
28310	PSV IN 236 - Imo	2x36	TC-L/ 2G11	6,3	595	595	100
28311	PSV IN 236 E - Imo	2x36	TC-L/ 2G11	5,5	595	595	100
28312	PSV IN 240 E - Imo	2x40	TC-L/ 2G11	5,5	595	595	100
28313	PSV IN 255 E - Imo	2x55	TC-L/ 2G11	5,5	595	595	100
Direct-indirect – for direct and indirect illumination							
28320	PSV DI-IN 236 - Imo	2x36	TC-L/ 2G11	6,3	595	595	100
28321	PSV DI-IN 236 E - Imo	2x36	TC-L/ 2G11	5,5	595	595	100
28322	PSV DI-IN 240 E - Imo	2x40	TC-L/ 2G11	5,5	595	595	100
28323	PSV DI-IN 255 E - Imo	2x55	TC-L/ 2G11	5,5	595	595	100



IP20



## PSV - Capri

Recessed fluorescent lighting fittings for plasterboard lower ceiling systems and for lower ceiling systems 600 x 600 mm, too.

IP20



Order code	Type	Light sources		Net weight kg	Dimensions				Mounting hole (mm)
		W	H		A	B	C	D	
with polished parabolic Al louvre and electronic ballast									
28620	PSV 214 PAR ET5 - Capri	2x14	T5/G5	2,5	625	325	55	355	580x280
28650	PSV 314 PAR ET5 - Capri	3x14	T5/G5	4,2	625	625	55	355	580x580
28651	PSV 414 PAR ET5 - Capri	4x14	T5/G5	4,2	625	625	55	355	580x580
28652	PSV 424 PAR ET5 - Capri	4x24	T5/G5	4,2	625	625	55	355	580x580
28661	PSV 221 PAR ET5 - Capri	2x21	T5/G5	4,5	925	325	55	660	880x280
28662	PSV 239 PAR ET5 - Capri	2x39	T5/G5	4,5	925	325	55	660	880x280
28671	PSV 228 PAR ET5 - Capri	2x28	T5/G5	5,0	1225	325	55	960	1180x280
28672	PSV 254 PAR ET5 - Capri	2x54	T5/G5	5,0	1225	325	55	960	1180x280
28681	PSV 235 PAR ET5 - Capri	2x35	T5/G5	5,5	1525	325	55	1260	1480x280
28682	PSV 249 PAR ET5 - Capri	2x49	T5/G5	5,5	1525	325	55	1260	1480x280
28683	PSV 280 PAR ET5 - Capri	2x80	T5/G5	5,5	1525	325	55	1260	1480x280
28601	PSV Capri - mounting part			0,2					





## PSV - QUAZAR T5

Recessed fluorescent lighting fittings for plasterboard lower ceiling systems and for lower ceiling systems 600 x 600 mm (1180 x 280 mm), too.

Order code	Type	Light sources		Net weight kg	Dimensions			Mounting hole (mm)
		W			A	B	C	
DI-IN – adjustable parabolic louvres – for lower ceiling								
28751	PSV QUAZAR 414 PAR ET5	4x14	T5/G5	3,1	595	595	52	575x575
28752	PSV QUAZAR 424 PAR ET5	4x24	T5/G5	3,1	595	595	52	575x575
28771	PSV QUAZAR 228 PAR ET5	2x28	T5/G5	4,2	1196	296	52	1175x275
28772	PSV QUAZAR 254 PAR ET5	2x54	T5/G5	4,2	1196	296	52	1175x275
DI-IN – adjustable parabolic louvres – for plasterboard lower ceiling								
28753	PSV QUAZAR SDK 414 PAR ET5	4x14	T5/G5	3,1	595	595	52	575x575
28754	PSV QUAZAR SDK 424 PAR ET5	4x24	T5/G5	3,1	595	595	52	575x575
28773	PSV QUAZAR SDK 228 PAR ET5	2x28	T5/G5	4,2	1196	296	52	1175x275
28774	PSV QUAZAR SDK 254 PAR ET5	2x54	T5/G5	4,2	1196	296	52	1175x275

PSV QUAZAR



PSV QUAZAR SDK



## PSV - TAURI T5

Recessed fluorescent lighting fittings DI-IN for lower ceiling systems 600 x 600 mm

Order code	Type	Light sources		Net weight kg	Dimensions		
		W			A	B	C
DI-IN - for lower ceiling							
28851	PSV TAURI 414 PAR ET5	4x14	T5/G5	3,0	596	596	85
28852	PSV TAURI 424 PAR ET5	4x24	T5/G5	3,0	596	596	85



IP20

IP20

# SURFACE MOUNTED fluorescent lighting fittings

# PSP

## PSP - Torino

### Surface mounted fluorescent lighting fittings

IP20

Order code	Type	Light sources		Net weight kg	Dimensions (mm)				
		W			A	B	C	D	E
<b>with polished Al louvre</b>									
19510	PSP 136 LA - Tor	1x36	T8/G13	3,5	1233	180	90	1023	90
19410	PSP 158 LA - Tor	1x58	T8/G13	4,4	1533	180	90	1323	90
19210	PSP 218 LA - Tor	2x18	T8/G13	3,1	618	306	90	414	130
19110	PSP 236 LA - Tor	2x36	T8/G13	5,2	1225	306	90	1023	130
19310	PSP 258 LA - Tor	2x58	T8/G13	7,4	1525	306	90	1323	130
19010	PSP 418 LA - Tor	4x18	T8/G13	5,3	618	610	90	414	496
19710	PSP 436 LA - Tor	4x36	T8/G13	9,8	1225	610	90	1323	496
<b>with polished Al louvre and electronic ballast</b>									
19515	PSP 136 LA E - Tor	1x36	T8/G13	3,1	1233	180	90	1023	90
19415	PSP 158 LA E - Tor	1x58	T8/G13	3,9	1533	180	90	1323	90
19215	PSP 218 LA E - Tor	2x18	T8/G13	2,7	618	306	90	414	130
19115	PSP 236 LA E - Tor	2x36	T8/G13	4,4	1225	306	90	1023	130
19315	PSP 258 LA E - Tor	2x58	T8/G13	6,2	1525	306	90	1323	130
19015	PSP 418 LA E - Tor	4x18	T8/G13	4,5	618	610	90	414	496
19715	PSP 436 LA E - Tor	4x36	T8/G13	8,2	1225	610	90	1323	496
<b>with white louvre</b>									
19520	PSP 136 LB - Tor	1x36	T8/G13	3,6	1233	180	90	1023	90
19420	PSP 158 LB - Tor	1x58	T8/G13	4,5	1533	180	90	1323	90
19220	PSP 218 LB - Tor	2x18	T8/G13	3,2	618	306	90	414	130
19120	PSP 236 LB - Tor	2x36	T8/G13	5,3	1225	306	90	1023	130
19320	PSP 258 LB - Tor	2x58	T8/G13	7,5	1525	306	90	1323	130
19020	PSP 418 LB - Tor	4x18	T8/G13	5,3	618	610	90	414	496
19720	PSP 436 LB - Tor	4x36	T8/G13	9,9	1225	610	90	1323	496
<b>with white louvre and electronic ballast</b>									
19525	PSP 136 LB E - Tor	1x36	T8/G13	3,2	1233	180	90	1023	90
19425	PSP 158 LB E - Tor	1x58	T8/G13	4,0	1533	180	90	1323	90
19225	PSP 218 LB E - Tor	2x18	T8/G13	2,8	618	306	90	414	130
19125	PSP 236 LB E - Tor	2x36	T8/G13	4,5	1225	306	90	1023	130
19325	PSP 258 LB E - Tor	2x58	T8/G13	6,3	1525	306	90	1323	130
19025	PSP 418 LB E - Tor	4x18	T8/G13	4,6	618	610	90	414	496
19725	PSP 436 LB E - Tor	4x36	T8/G13	8,3	1225	610	90	1323	496
<b>with parabolic polished Al louvre</b>									
19540	PSP 136 PAR - Tor	1x36	T8/G13	3,8	1233	180	90	1023	90
19440	PSP 158 PAR - Tor	1x36	T8/G13	4,8	1533	180	90	1323	90
19240	PSP 218 PAR - Tor	2x18	T8/G13	3,3	618	306	90	414	130
19140	PSP 236 PAR - Tor	2x36	T8/G13	6,1	1225	306	90	1023	130
19340	PSP 258 PAR - Tor	2x58	T8/G13	8,0	1525	306	90	1323	130
19040	PSP 418 PAR - Tor	4x18	T8/G13	5,7	618	610	90	414	496
19740	PSP 436 PAR - Tor	4x36	T8/G13	10,7	1225	610	90	1323	496
<b>with parabolic polished Al louvre and electronic ballast</b>									
19545	PSP 136 PAR E - Tor	1x36	T8/G13	3,4	1233	180	90	1023	90
19445	PSP 158 PAR E - Tor	1x36	T8/G13	3,5	1533	180	90	1323	90
19245	PSP 218 PAR E - Tor	2x18	T8/G13	2,9	618	306	90	414	130
19145	PSP 236 PAR E - Tor	2x36	T8/G13	5,3	1225	306	90	1023	130
19345	PSP 258 PAR E - Tor	2x58	T8/G13	6,8	1525	306	90	1323	130
19045	PSP 418 PAR E - Tor	4x18	T8/G13	5,0	618	610	90	414	496
19745	PSP 436 PAR E - Tor	4x36	T8/G13	9,1	1225	610	90	1323	496
<b>with parabolic matted Al louvre</b>									
19550	PSP 136 PARMAT - Tor	1x36	T8/G13	3,8	1233	180	90	1023	90
19450	PSP 158 PARMAT - Tor	1x36	T8/G13	4,8	1533	180	90	1323	90
19250	PSP 218 PARMAT - Tor	2x18	T8/G13	3,3	618	306	90	414	130
19150	PSP 236 PARMAT - Tor	2x36	T8/G13	6,1	1225	306	90	1023	130
19350	PSP 258 PARMAT - Tor	2x58	T8/G13	8,0	1525	306	90	1323	130
19050	PSP 418 PARMAT - Tor	4x18	T8/G13	5,7	618	610	90	414	496
19750	PSP 436 PARMAT - Tor	4x36	T8/G13	10,7	1225	610	90	1323	496
<b>with parabolic matted Al louvre and electronic ballast</b>									
19555	PSP 136 PARMAT E - Tor	1x36	T8/G13	3,4	1233	180	90	1023	90
19455	PSP 158 PARMAT E - Tor	1x36	T8/G13	3,5	1533	180	90	1323	90
19255	PSP 218 PARMAT E - Tor	2x18	T8/G13	2,9	618	306	90	414	130
19155	PSP 236 PARMAT E - Tor	2x36	T8/G13	5,3	1225	306	90	1023	130
19355	PSP 258 PARMAT E - Tor	2x58	T8/G13	6,8	1525	306	90	1323	130
19055	PSP 418 PARMAT E - Tor	4x18	T8/G13	5,0	618	610	90	414	496
19755	PSP 436 PARMAT E - Tor	4x36	T8/G13	9,1	1225	610	90	1323	496



## PSP - Torino

### Surface mounted fluorescent lighting fittings

Order code	Type	Light sources		Net weight kg	Dimensions				
		W			A	B	C	D	E
<b>with opal diffuser</b>									
19230	PSP TL 218 OP - Tor	2x18	T8/G13	3,2	618	306	90	414	130
19130	PSP TL 236 OP - Tor	2x36	T8/G13	6,0	1225	306	90	1023	130
19030	PSP TL 418 OP - Tor	4x18	T8/G13	5,6	618	610	90	414	496
<b>with opal diffuser and electronic ballast</b>									
19235	PSP TL 218 OP E - Tor	2x18	T8/G13	2,8	618	306	90	414	130
19135	PSP TL 236 OP E - Tor	2x36	T8/G13	5,2	1225	306	90	1023	130
19035	PSP TL 418 OP E - Tor	4x18	T8/G13	4,9	618	610	90	414	496
<b>with prismatic diffuser</b>									
19260	PSP TL 218 KR - Tor	2x18	T8/G13	3,2	618	306	90	414	130
19160	PSP TL 236 KR - Tor	2x36	T8/G13	6,0	1225	306	90	1023	130
19060	PSP TL 418 KR - Tor	4x18	T8/G13	5,6	618	610	90	414	496
<b>with prismatic diffuser and electronic ballast</b>									
19265	PSP TL 218 KR E - Tor	2x18	T8/G13	2,8	618	306	90	414	130
19165	PSP TL 236 KR E - Tor	2x36	T8/G13	5,2	1225	306	90	1023	130
19065	PSP TL 418 KR E - Tor	4x18	T8/G13	4,9	618	610	90	414	496

19xx7 modification with dimmable electronic ballast (ER)

19xx8 modification with 1hr emergency unit

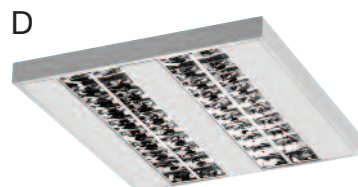
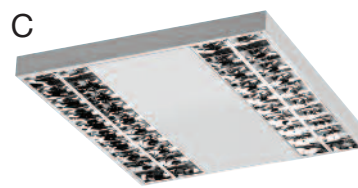
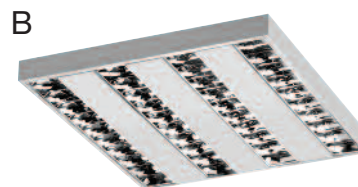
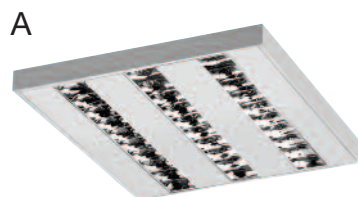


IP40

## PSPV - TORINO II T5

### Surface mounted and recessed fluorescent lighting fittings for lower ceiling 600 x 600 mm

Order code	Type	Light sources		Net weight kg	Dimensions		
		W			A	B	C
<b>for T5 lamps – with parabolic louvre – layout type A</b>							
29521	PSPV TORINO II 314 PAR ET5 A	3x14	T5/G5	3,1	594	594	55
29522	PSPV TORINO II 324 PAR ET5 A	3x24	T5/G5	3,1	594	594	55
<b>for T5 lamps – with parabolic louvre – layout type B</b>							
29531	PSPV TORINO II 414 PAR ET5 B	4x14	T5/G5	3,1	594	594	55
29532	PSPV TORINO II 424 PAR ET5 B	4x24	T5/G5	3,1	594	594	55
<b>for T5 lamps – with parabolic louvre – layout type C</b>							
29541	PSPV TORINO II 414 PAR ET5 C	4x14	T5/G5	3,1	594	594	55
29542	PSPV TORINO II 424 PAR ET5 C	4x24	T5/G5	3,1	594	594	55
<b>for T5 lamps – with parabolic louvre – layout type D</b>							
29551	PSPV TORINO II 414 PAR ET5 D	4x14	T5/G5	3,1	594	594	55
29552	PSPV TORINO II 424 PAR ET5 D	4x24	T5/G5	3,1	594 <td 594	55	



IP20



## PSP - Monza

### Surface mounted fluorescent lighting fittings

IP20

Order code	Type	Light sources		Net weight kg	Dimensions (mm)				
		W			A	B	C	D	E
with polished Al louvre									
20510	PSP MONZA 136 LA	1x36	T8/G13	3,5	1233	215	90	1023	90
20410	PSP MONZA 158 LA	1x58	T8/G13	4,5	1533	215	90	1323	90
20210	PSP MONZA 218 LA	2x18	T8/G13	3,1	618	345	90	414	130
20110	PSP MONZA 236 LA	2x36	T8/G13	5,3	1225	345	90	1023	130
20310	PSP MONZA 258 LA	2x58	T8/G13	7,4	1525	345	90	1323	130
20010	PSP MONZA 418 LA	4x18	T8/G13	5,3	618	643	90	414	493
20710	PSP MONZA 436 LA	4x36	T8/G13	9,8	1225	643	90	1323	493
with polished Al louvre and electronic balast									
20515	PSP MONZA 136 LA E	1x36	T8/G13	3,1	1233	215	90	1023	90
20415	PSP MONZA 158 LA E	1x58	T8/G13	4,1	1533	215	90	1323	90
20215	PSP MONZA 218 LA E	2x18	T8/G13	2,7	618	345	90	414	130
20115	PSP MONZA 236 LA E	2x36	T8/G13	4,5	1225	345	90	1023	130
20315	PSP MONZA 258 LA E	2x58	T8/G13	6,2	1525	345	90	1323	130
20015	PSP MONZA 418 LA E	4x18	T8/G13	4,5	618	643	90	414	493
20715	PSP MONZA 436 LA E	4x36	T8/G13	8,3	1225	643	90	1323	493
with white louvre									
20520	PSP MONZA 136 LB	1x36	T8/G13	3,9	1233	215	90	1023	90
20420	PSP MONZA 158 LB	1x58	T8/G13	4,9	1533	215	90	1323	90
20220	PSP MONZA 218 LB	2x18	T8/G13	3,4	618	345	90	414	130
20120	PSP MONZA 236 LB	2x36	T8/G13	5,8	1225	345	90	1023	130
20320	PSP MONZA 258 LB	2x58	T8/G13	8,2	1525	345	90	1323	130
20020	PSP MONZA 418 LB	4x18	T8/G13	5,8	618	643	90	414	493
20720	PSP MONZA 436 LB	4x36	T8/G13	10,5	1225	643	90	1323	493
with white louvre and electronic balast									
20525	PSP MONZA 136 LB E	1x36	T8/G13	3,5	1233	215	90	1023	90
20425	PSP MONZA 158 LB E	1x58	T8/G13	4,5	1533	215	90	1323	90
20225	PSP MONZA 218 LB E	2x18	T8/G13	3,0	618	345	90	414	130
20125	PSP MONZA 236 LB E	2x36	T8/G13	5,0	1225	345	90	1023	130
20325	PSP MONZA 258 LB E	2x58	T8/G13	7,0	1525	345	90	1323	130
20025	PSP MONZA 418 LB E	4x18	T8/G13	5,0	618	643	90	414	493
20725	PSP MONZA 436 LB E	4x36	T8/G13	9,0	1225	643	90	1323	493
with parabolic polished Al louvre									
20540	PSP MONZA 136 PAR	1x36	T8/G13	3,8	1233	215	90	1023	90
20440	PSP MONZA 158 PAR	1x58	T8/G13	4,8	1533	215	90	1323	90
20240	PSP MONZA 218 PAR	2x18	T8/G13	3,3	618	345	90	414	130
20140	PSP MONZA 236 PAR	2x36	T8/G13	6,1	1225	345	90	1023	130
20340	PSP MONZA 258 PAR	2x58	T8/G13	8,0	1525	345	90	1323	130
20040	PSP MONZA 418 PAR	4x18	T8/G13	5,7	618	643	90	414	493
20740	PSP MONZA 436 PAR	4x36	T8/G13	10,7	1225	643	90	1323	493
with parabolic polished Al louvre and electronic balast									
20545	PSP MONZA 136 PAR E	1x36	T8/G13	3,4	1233	215	90	1023	90
20445	PSP MONZA 158 PAR E	1x58	T8/G13	4,4	1533	215	90	1323	90
20245	PSP MONZA 218 PAR E	2x18	T8/G13	2,9	618	345	90	414	130
20145	PSP MONZA 236 PAR E	2x36	T8/G13	5,3	1225	345	90	1023	130
20345	PSP MONZA 258 PAR E	2x58	T8/G13	6,8	1525	345	90	1323	130
20045	PSP MONZA 418 PAR E	4x18	T8/G13	4,9	618	643	90	414	493
20745	PSP MONZA 436 PAR E	4x36	T8/G13	9,2	1225	643	90	1323	493
with parabolic matted Al louvre									
20550	PSP MONZA 136 MAT	1x36	T8/G13	3,8	1233	215	90	1023	90
20450	PSP MONZA 158 MAT	1x58	T8/G13	4,8	1533	215	90	1323	90
20250	PSP MONZA 218 MAT	2x18	T8/G13	3,3	618	345	90	414	130
20150	PSP MONZA 236 MAT	2x36	T8/G13	6,1	1225	345	90	1023	130
20350	PSP MONZA 258 MAT	2x58	T8/G13	8,0	1525	345	90	1323	130
20050	PSP MONZA 418 MAT	4x18	T8/G13	5,7	618	643	90	414	493
20750	PSP MONZA 436 MAT	4x36	T8/G13	10,7	1225	643	90	1323	493
with parabolic matted Al louvre and electronic balast									
20555	PSP MONZA 136 MAT E	1x36	T8/G13	3,4	1233	215	90	1023	90
20455	PSP MONZA 158 MAT E	1x58	T8/G13	4,4	1533	215	90	1323	90
20255	PSP MONZA 218 MAT E	2x18	T8/G13	2,9	618	345	90	414	130
20155	PSP MONZA 236 MAT E	2x36	T8/G13	5,3	1225	345	90	1023	130
20355	PSP MONZA 258 MAT E	2x58	T8/G13	6,8	1525	345	90	1323	130
20055	PSP MONZA 418 MAT E	4x18	T8/G13	4,9	618	643	90	414	493
20755	PSP MONZA 436 MAT E	4x36	T8/G13	9,2	1225	643	90	1323	493



## PSP - MONZA

### Surface mounted fluorescent lighting fittings

Order code	Type	Light sources	Light sources W	Ballast	Net weight kg	Dimensions (mm)				
						A	B	C	D	E
<b>with opal diffuser</b>										
20230	PSP MONZA 218 OP	2x18	T8/G13		3,2	618	345	90	414	130
20130	PSP MONZA 236 OP	2x36	T8/G13		6,0	1225	345	90	1023	130
20030	PSP MONZA 418 OP	4x18	T8/G13		5,6	618	643	90	414	493
<b>with opal diffuser and electronic ballast</b>										
20235	PSP MONZA 218 OP E	2x18	T8/G13		2,8	618	345	90	414	130
20135	PSP MONZA 236 OP E	2x36	T8/G13		5,2	1225	345	90	1023	130
20035	PSP MONZA 418 OP E	4x18	T8/G13		4,9	618	643	90	414	493
<b>with prismatic diffuser</b>										
20260	PSP MONZA 218 KR	2x18	T8/G13		3,2	618	345	90	414	130
20160	PSP MONZA 236 KR	2x36	T8/G13		6,0	1225	345	90	1023	130
20060	PSP MONZA 418 KR	4x18	T8/G13		5,6	618	643	90	414	493
<b>with prismatic diffuser and electronic ballast</b>										
20265	PSP MONZA 218 KR E	2x18	T8/G13		2,8	618	345	90	414	130
20165	PSP MONZA 236 KR E	2x36	T8/G13		5,2	1225	345	90	1023	130
20065	PSP MONZA 418 KR E	4x18	T8/G13		4,9	618	643	90	414	493

IP40



## PSP - MONZA II

### Surface mounted fluorescent lighting fittings

Order code	Type	Light sources	Light sources W	Ballast	Net weight kg	Dimensions (mm)				
						A	B	C	D	E
<b>with asymmetric reflector</b>										
20560	PSP MONZA II AS 136	1x36	T8/G13		3,3	1225	193	75	1023	78
20565	PSP MONZA II AS 136 E	1x36	T8/G13		2,9	1225	193	75	1023	78
20567	PSP MONZA II AS 136 ER	1x36	T8/G13		2,9	1225	193	75	1023	78
20460	PSP MONZA II AS 158	1x58	T8/G13		4,5	1525	193	75	1323	78
20465	PSP MONZA II AS 158 E	1x58	T8/G13		4,1	1525	193	75	1323	78
20467	PSP MONZA II AS 158 ER	1x58	T8/G13		4,1	1525	193	75	1323	78

IP20



## PSP - MONZA II T5

### surface mounted and suspended fluorescent lighting fittings

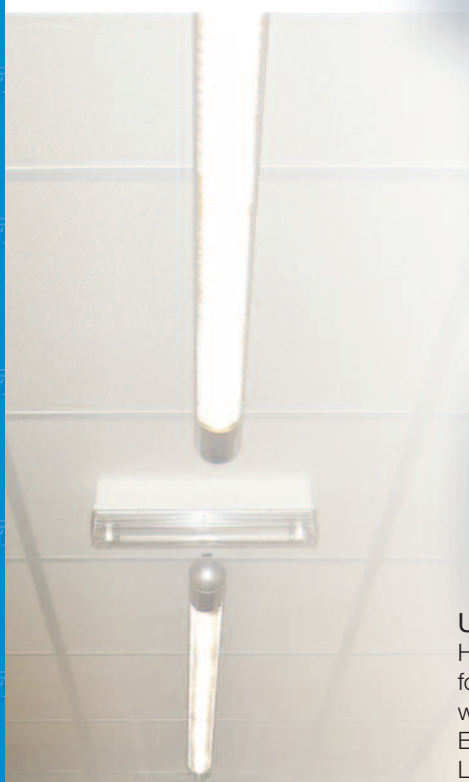
Order code	Type	Light sources	Light sources W	Ballast	Net weight kg	Dimensions (mm)		
						A	B	C
<b>with parabolic louvre</b>								
20921	PSP MONZA II 214 PAR ET5	2x14	T5/G5		1,8	637	216	57
20922	PSP MONZA II 221 PAR ET5	2x21	T5/G5		2,7	937	216	57
20923	PSP MONZA II 228 PAR ET5	2x28	T5/G5		3,6	1237	216	57
20924	PSP MONZA II 235 PAR ET5	2x35	T5/G5		4,5	1537	216	57
20925	PSP MONZA II 224 PAR ET5	2x24	T5/G5		1,8	637	216	57
20926	PSP MONZA II 239 PAR ET5	2x39	T5/G5		2,7	937	216	57
20927	PSP MONZA II 249 PAR ET5	2x49	T5/G5		4,5	1537	216	57
20928	PSP MONZA II 254 PAR ET5	2x54	T5/G5		3,6	1237	216	57
20929	PSP MONZA II 280 PAR ET5	2x80	T5/G5		4,5	1537	216	57
<b>with opal diffuser</b>								
20931	PSP MONZA II 214 OP ET5	2x14	T5/G5		1,8	637	216	57
20932	PSP MONZA II 221 OP ET5	2x21	T5/G5		2,7	937	216	57
20933	PSP MONZA II 228 OP ET5	2x28	T5/G5		3,6	1237	216	57
20934	PSP MONZA II 235 OP ET5	2x35	T5/G5		4,5	1537	216	57
20935	PSP MONZA II 224 OP ET5	2x24	T5/G5		1,8	637	216	57
20936	PSP MONZA II 239 OP ET5	2x39	T5/G5		2,7	937	216	57
20937	PSP MONZA II 249 OP ET5	2x49	T5/G5		4,5	1537	216	57
20938	PSP MONZA II 254 OP ET5	2x54	T5/G5		3,6	1237	216	57
20939	PSP MONZA II 280 OP ET5	2x80	T5/G5		4,5	1537	216	57
<b>suspension</b>								
20901	cable suspension for Monza II				0,2			

IP20



# HELIOS

PLASTIC FLUORESCENT EMERGENCY  
lighting fittings



#### Use:

HELIOS and HELIOS DS are universal emergency fluorescent lighting fittings for using as non-maintained or maintained emergency illumination of an area with ambient temperature from 0 °C to +40 °C. Insulation class II. Emergency operation time is 1, 2 or 3 hours. Charging time is 24 hrs. Luminaire includes electric power network and battery charge LED indicator, high-temperature nickel-cadmium batteries and electronic protection against complete battery discharge.

#### Description, optics:

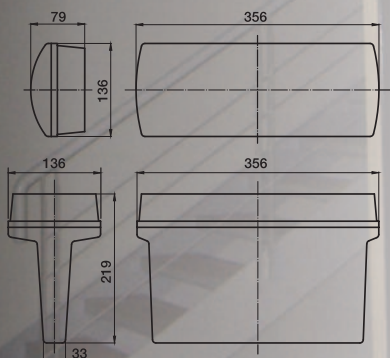
The body is made by injection of impact and heat resistant Polycarbonate of white colour. The electronic equipment of the lighting fixture is fixed in the body. Connection of the body and the diffuser is ensured by two screws and foamed Polyurethan sealing in the body.

The diffuser is made by injection of plastics.

- type HELIOS – one-sided - made of transparent stabilized Polycarbonate (PC)
- type HELIOS DS – two-sided - made of opal Polycarbonate (PC)
- type HELIOS PL – two-sided - made of transparent Polycarbonate (PC) with plexi glass
- type HELIOS LED – one-sided - made of opal Polycarbonate (PC)

The way of fitting's suspension:

- type HELIOS – directly on wall or ceiling using two screws in prepared holes.
- type HELIOS DS – directly on ceiling using two screws in prepared holes.
- type HELIOS PL – directly on ceiling using two screws in prepared holes.
- type HELIOS LED – directly on wall or ceiling using two screws in prepared holes.



IP42

IP65

230 V  
50 Hz



Ø 16  
G 5

2G 7/11

2,5 mm<sup>2</sup>

t<sub>a</sub>  
40 °C



Order code	Type	Inverter	Light source 8 W	Battery source A	Net weight kg	Protection	
<b>HELIOS – PC diffuser – recognition distance 25 m</b>							
<b>maintained emergency luminaires</b>							
43018	HELIOS 108 M1h	SA	T5/G5	1 hr/1,0 Ah	1,3 kg	IP 42	
43028	HELIOS 108 M2h	SA	T5/G5	2 hrs/1,5Ah	1,4 kg	IP 42	
43038	HELIOS 108 M3h	SA	T5/G5	3 hrs/2,5Ah	1,6 kg	IP 42	
43048	HELIOS 108 M1hAt	AT-SA	T5/G5	1 hr/1,0 Ah	1,3 kg	IP 42	
43058	HELIOS 108 M2hAt	AT-SA	T5/G5	2 hrs/1,5Ah	1,4 kg	IP 42	
43068	HELIOS 108 M3hAt	AT-SA	T5/G5	3 hrs/2,5Ah	1,6 kg	IP 42	
<b>non-maintained emergency luminaires</b>							
43019	HELIOS 108 NM1h	SE	T5/G5	1 hr/1,0 Ah	1,0 kg	IP 42	
43029	HELIOS 108 NM2h	SE	T5/G5	2 hrs/1,5 Ah	1,1 kg	IP 42	
43039	HELIOS 108 NM3h	SE	T5/G5	3 hrs/2,5 Ah	1,3 kg	IP 42	
43049	HELIOS 108 NM1hAt	AT-SE	T5/G5	1 hr/1,0 Ah	1,0 kg	IP 42	
43059	HELIOS 108 NM2hAt	AT-SE	T5/G5	2 hrs/1,5 Ah	1,1 kg	IP 42	
43069	HELIOS 108 NM3hAt	AT-SE	T5/G5	3 hrs/2,5 Ah	1,3 kg	IP 42	
<b>modification for emergency supply from central battery AC/DC</b>							
43078	HELIOS 108 CB		T5/G5		0,4 kg	IP 42	
<b>modification for network supply</b>							
43088	HELIOS 108		T5/G5		0,7 kg	IP 42	
431xx	HELIOS IP65 108	waterproof and dustproof modification					IP 65
<b>HELIOS DS – two-sided PC diffuser – recognition distance 25 m</b>							
<b>maintained emergency luminaires</b>							
43218	HELIOS DS 108 M1h	SA	T5/G5	1 hr/1,0 Ah	1,6 kg	IP 42	
43228	HELIOS DS 108 M2h	SA	T5/G5	2 hrs/1,5Ah	1,7 kg	IP 42	
43238	HELIOS DS 108 M3h	SA	T5/G5	3 hrs/2,5Ah	1,9 kg	IP 42	
43248	HELIOS DS 108 M1hAt	AT-SA	T5/G5	1 hr/1,0 Ah	1,6 kg	IP 42	
43258	HELIOS DS 108 M2hAt	AT-SA	T5/G5	2 hrs/1,5Ah	1,7 kg	IP 42	
43268	HELIOS DS 108 M3hAt	AT-SA	T5/G5	3 hrs/2,5Ah	1,9 kg	IP 42	
<b>non-maintained emergency luminaires</b>							
43219	HELIOS DS 108 NM1h	SE	T5/G5	1 hr/1,0 Ah	1,3 kg	IP 42	
43229	HELIOS DS 108 NM2h	SE	T5/G5	2 hrs/1,5 Ah	1,4 kg	IP 42	
43239	HELIOS DS 108 NM3h	SE	T5/G5	3 hrs/2,5 Ah	1,6 kg	IP 42	
43219	HELIOS DS 108 NM1hAt	AT-SE	T5/G5	1 hr/1,0 Ah	1,3 kg	IP 42	
43229	HELIOS DS 108 NM2hAt	AT-SE	T5/G5	2 hrs/1,5 Ah	1,4 kg	IP 42	
43239	HELIOS DS 108 NM3hAt	AT-SE	T5/G5	3 hrs/2,5 Ah	1,6 kg	IP 42	
<b>modification for emergency supply from central battery AC/DC</b>							
43278	HELIOS DS 108 CB		T5/G5		0,7 kg	IP 42	
433xx	HELIOS DS IP65 108	waterproof and dustproof modification					IP 65
43xx1/3 HELIOS 111 - modification with compact 11 W light source TC-EL/2G7							
43xx2/4 HELIOS 118 - modification with compact 18 W light source TC-EL/2G11							
<b>HELIOS PL – with plexi glass – recognition distance 30 m</b>							
<b>maintained emergency luminaires</b>							
43418	HELIOS PL 108 M1h	SA	T5/G5	1 hr/1,0 Ah	1,6 kg	IP 42	
43428	HELIOS PL 108 M2h	SA	T5/G5	2 hrs/1,5Ah	1,7 kg	IP 42	
43438	HELIOS PL 108 M3h	SA	T5/G5	3 hrs/2,5Ah	1,9 kg	IP 42	
43448	HELIOS PL 108 M1hAt	AT-SA	T5/G5	1 hr/1,0 Ah	1,6 kg	IP 42	
43458	HELIOS PL 108 M2hAt	AT-SA	T5/G5	2 hrs/1,5Ah	1,7 kg	IP 42	
43468	HELIOS PL 108 M3hAt	AT-SA	T5/G5	3 hrs/2,5Ah	1,9 kg	IP 65	
<b>non-maintained emergency luminaires</b>							
43419	HELIOS PL 108 NM1h	SE	T5/G5	1 hr/1,0 Ah	1,3 kg	IP 42	
43429	HELIOS PL 108 NM2h	SE	T5/G5	2 hrs/1,5 Ah	1,4 kg	IP 42	
43439	HELIOS PL 108 NM3h	SE	T5/G5	3 hrs/2,5 Ah	1,6 kg	IP 42	
43419	HELIOS PL 108 NM1hAt	AT-SE	T5/G5	1 hr/1,0 Ah	1,3 kg	IP 42	
43429	HELIOS PL 108 NM2hAt	AT-SE	T5/G5	2 hrs/1,5 Ah	1,4 kg	IP 42	
43439	HELIOS PL 108 NM3hAt	AT-SE	T5/G5	3 hrs/2,5 Ah	1,6 kg	IP 42	
<b>modification for emergency supply from central battery AC/DC</b>							
43478	HELIOS PL 108 CB		T5/G5		0,7 kg	IP 42	
<b>HELIOS LED – opal PC diffuser – 25 cd diodes - recognition distance 25 m</b>							
<b>maintained emergency luminaires</b>							
43518	HELIOS LED M1h	SA	LED	1 hr/1,0 Ah	1,6 kg	IP 42	
43528	HELIOS LED M2h	SA	LED	2 hrs/1,5Ah	1,7 kg	IP 42	
43538	HELIOS LED M3h	SA	LED	3 hrs/2,5Ah	1,9 kg	IP 42	
<b>non-maintained emergency luminaires</b>							
43519	HELIOS LED NM1h	SE	LED	1 hr/1,0 Ah	1,3 kg	IP 42	
43529	HELIOS LED NM2h	SE	LED	2 hrs/1,5 Ah	1,4 kg	IP 42	
43539	HELIOS LED NM3h	SE	LED	3 hrs/2,5 Ah	1,6 kg	IP 42	
436xx	HELIOS LED IP65 108	waterproof and dustproof modification					IP 65





IP22

230 V  
50 Hz



Ø 16  
G 5

2,5 mm<sup>2</sup>

t<sub>a</sub>  
40°C

# TIGRIS

PLASTIC FLUORESCENT EMERGENCY  
lighting fittings



### Use:

TIGRIS are universal emergency fluorescent lighting fittings for using as non-maintained or maintained emergency illumination of an area with ambient temperature from 0° C to +40 °C. Insulation class II. Emergency operation time is 1, 2 or 3 hours. Charging time is 24 hrs. Luminaire includes electric power network and battery charge LED indicator, high-temperature nickel-cadmium batteries and electronic protection against complete battery discharge.

### Description, optics:

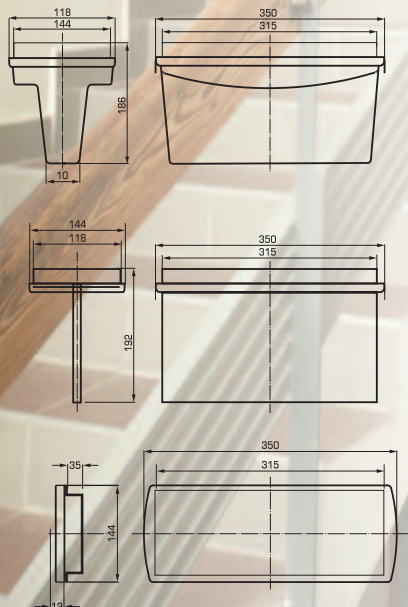
The body is made by injection of impact and heat resistant Polycarbonate of white colour. The electronic equipment of the lighting fixture is fitted into the body. Connection of the body and the diffuser is ensured by screws and foamed Polyurethan sealing in the body.

### Diffusers' modification:

- type TIGRIS – one-sided - made of transparent stabilized Polycarbonate (PC)
- type TIGRIS DS – two-sided - made of opal Polycarbonate (PC)
- type TIGRIS PL – two-sided - made of transparent Polycarbonate (PC) with plexi glass
- type TIGRIS LED – one-sided - made of opal Polycarbonate (PC)

### The way of fitting's suspension:

- type TIGRIS – directly on wall, ceiling or into plasterboard lower ceiling
- type TIGRIS DS – directly on wall, ceiling or into plasterboard lower ceiling
- type TIGRIS P – directly on wall, ceiling or into plasterboard lower ceiling
- type TIGRIS LED – directly on wall, ceiling or into plasterboard lower ceiling





Order code	Type	Inverter	Light source	Battery source	Net weight	Protection
			8 W	A	kg	
<b>TIGRIS – PC diffuser – recognition distance 20 m</b>						
maintained emergency luminaires						
42018	TIGRIS 108 M1h	SA	T5/G5	1 hr/1,0 Ah	1,3 kg	IP 42
42028	TIGRIS 108 M2h	SA	T5/G5	2 hrs/1,5Ah	1,4 kg	IP 42
42038	TIGRIS 108 M3h	SA	T5/G5	3 hrs/2,5Ah	1,6 kg	IP 42
42048	TIGRIS 108 M1hAt	AT-SA	T5/G5	1 hr/1,0 Ah	1,3 kg	IP 42
42058	TIGRIS 108 M2hAt	AT-SA	T5/G5	2 hrs/1,5Ah	1,4 kg	IP 42
42068	TIGRIS 108 M3hAt	AT-SA	T5/G5	3 hrs/2,5Ah	1,6 kg	IP 42
non-maintained emergency luminaires						
42019	TIGRIS 108 NM1h	SE	T5/G5	1 hr/1,0 Ah	1,0 kg	IP 42
42029	TIGRIS 108 NM2h	SE	T5/G5	2 hrs/1,5 Ah	1,1 kg	IP 42
42039	TIGRIS 108 NM3h	SE	T5/G5	3 hrs/2,5 Ah	1,3 kg	IP 42
42049	TIGRIS 108 NM1hAt	AT-SE	T5/G5	1 hr/1,0 Ah	1,0 kg	IP 42
42059	TIGRIS 108 NM2hAt	AT-SE	T5/G5	2 hrs/1,5 Ah	1,1 kg	IP 42
42069	TIGRIS 108 NM3hAt	AT-SE	T5/G5	3 hrs/2,5 Ah	1,3 kg	IP 42
modification for emergency supply from central battery AC/DC						
42078	TIGRIS 108 CB		T5/G5		0,4 kg	IP 42
modification for network supply						
42088	TIGRIS 108		T5/G5		0,7 kg	IP 42
<b>TIGRIS DS – two-sided PC diffuser – recognition distance 20 m</b>						
maintained emergency luminaires						
42218	TIGRIS DS 108 M1h	SA	T5/G5	1 hr/1,0 Ah	1,6 kg	IP 42
42228	TIGRIS DS 108 M2h	SA	T5/G5	2 hrs/1,5Ah	1,7 kg	IP 42
42238	TIGRIS DS 108 M3h	SA	T5/G5	3 hrs/2,5Ah	1,9 kg	IP 42
42248	TIGRIS DS 108 M1hAt	AT-SA	T5/G5	1 hr/1,0 Ah	1,6 kg	IP 42
42258	TIGRIS DS 108 M2hAt	AT-SA	T5/G5	2 hrs/1,5Ah	1,7 kg	IP 42
42268	TIGRIS DS 108 M3hAt	AT-SA	T5/G5	3 hrs/2,5Ah	1,9 kg	IP 42
non-maintained emergency luminaires						
42219	TIGRIS DS 108 NM1h	SE	T5/G5	1 hr/1,0 Ah	1,3 kg	IP 42
42229	TIGRIS DS 108 NM2h	SE	T5/G5	2 hrs/1,5 Ah	1,4 kg	IP 42
42239	TIGRIS DS 108 NM3h	SE	T5/G5	3 hrs/2,5 Ah	1,6 kg	IP 42
42219	TIGRIS DS 108 NM1hAt	AT-SE	T5/G5	1 hr/1,0 Ah	1,3 kg	IP 42
42229	TIGRIS DS 108 NM2hAt	AT-SE	T5/G5	2 hrs/1,5 Ah	1,4 kg	IP 42
42239	TIGRIS DS 108 NM3hAt	AT-SE	T5/G5	3 hrs/2,5 Ah	1,6 kg	IP 42
modification for emergency supply from central battery AC/DC						
42278	TIGRIS DS 108 CB		T5/G5		0,7 kg	IP 42
<b>TIGRIS PL – with plexi glass – recognition distance 30 m</b>						
maintained emergency luminaires						
42418	TIGRIS PL 108 M1h	SA	T5/G5	1 hr/1,0 Ah	1,6 kg	IP 42
42428	TIGRIS PL 108 M2h	SA	T5/G5	2 hrs/1,5Ah	1,7 kg	IP 42
42438	TIGRIS PL 108 M3h	SA	T5/G5	3 hrs/2,5Ah	1,9 kg	IP 42
42448	TIGRIS PL 108 M1hAt	AT-SA	T5/G5	1 hr/1,0 Ah	1,6 kg	IP 42
42458	TIGRIS PL 108 M2hAt	AT-SA	T5/G5	2 hrs/1,5Ah	1,7 kg	IP 42
42468	TIGRIS PL 108 M3hAt	AT-SA	T5/G5	3 hrs/2,5Ah	1,9 kg	IP 42
non-maintained emergency luminaires						
42419	TIGRIS PL 108 NM1h	SE	T5/G5	1 hr/1,0 Ah	1,3 kg	IP 42
42429	TIGRIS PL 108 NM2h	SE	T5/G5	2 hrs/1,5 Ah	1,4 kg	IP 42
42439	TIGRIS PL 108 NM3h	SE	T5/G5	3 hrs/2,5 Ah	1,6 kg	IP 42
42419	TIGRIS PL 108 NM1hAt	AT-SE	T5/G5	1 hr/1,0 Ah	1,3 kg	IP 42
42429	TIGRIS PL 108 NM2hAt	AT-SE	T5/G5	2 hrs/1,5 Ah	1,4 kg	IP 42
42439	TIGRIS PL 108 NM3hAt	AT-SE	T5/G5	3 hrs/2,5 Ah	1,6 kg	IP 42
modification for emergency supply from central battery AC/DC						
42478	TIGRIS PL 108 CB		T5/G5		0,7 kg	IP 42
<b>TIGRIS LED – opal PC diffuser – 25 cd diodes - recognition distance 20 m</b>						
maintained emergency luminaires						
42518	TIGRIS LED M1h	SA	LED	1 hr/1,0 Ah	1,6 kg	IP 42
42528	TIGRIS LED M2h	SA	LED	2 hrs/1,5Ah	1,7 kg	IP 42
42538	TIGRIS LED M3h	SA	LED	3 hrs/2,5Ah	1,9 kg	IP 42
non-maintained emergency luminaires						
42519	TIGRIS LED NM1h	SE	LED	1 hr/1,0 Ah	1,3 kg	IP 42
42529	TIGRIS LED NM2h	SE	LED	2 hrs/1,5 Ah	1,4 kg	IP 42
42539	TIGRIS LED NM3h	SE	LED	3 hrs/2,5 Ah	1,6 kg	IP 42



note: for emergency supply from central battery AC/DC

AC: 220 – 240 V

DC: 198 – 254 V

AT: autotest



IP2

230 V  
50 Hz



Ø 16  
G 5

2,5 mm<sup>2</sup>

t<sub>a</sub>  
40 °C

# PLEXI

FLUORESCENT EMERGENCY  
lighting fittings



#### Use:

PLEXI are universal emergency fluorescent lighting fittings for using as non-maintained or maintained emergency illumination of an area with ambient temperature from 0 °C to +40 °C. Insulation class I. They can be built into lower ceiling.

Emergency operation time is 3 hours. Charging time is 24 hrs.

Luminaire includes electric power network and battery charge LED indicator, high-temperature nickel-cadmium batteries and electronic protection against complete battery discharge.

#### Description, optics:

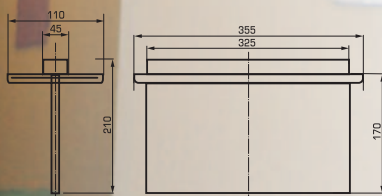
The body is made of steel sheet powder coated with white or silver colour.

The body is fitted with electronic equipment.

The diffuser is made of plexi glass.

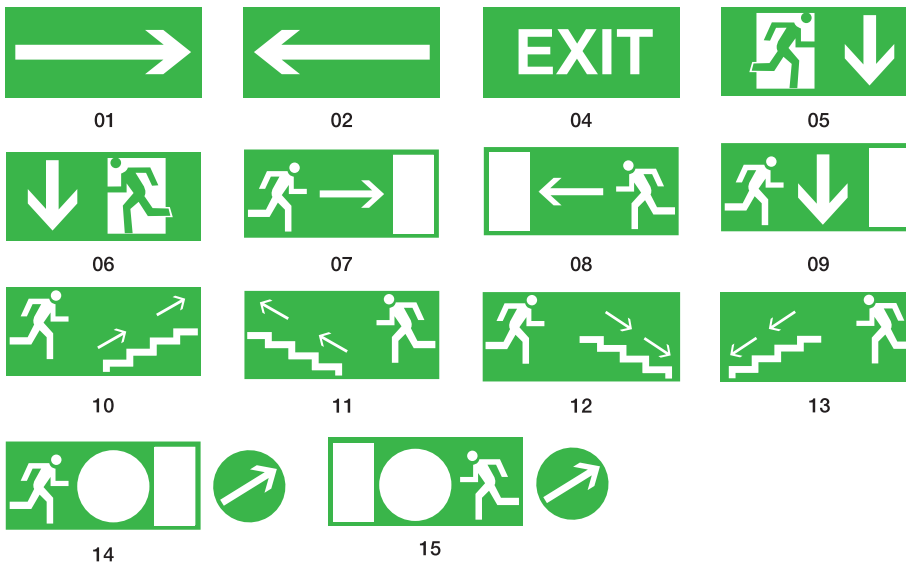
#### The way of fitting's suspension:

to be built in plasterboard lower ceiling





Order code	Type	Inverter	Light source	Battery source	Net weight	Protection
			8 W	A	kg	
<b>PLEXI – recognition distance 30 m</b>						
maintained emergency luminaires						
41038	PLEXI 108 M3h	SA	T5/G5	3 hrs/2,5Ah	1,6 kg	IP 20
41068	PLEXI 108 M3hAt	AT-SA	T5/G5	3 hrs/2,5Ah	1,6 kg	IP 20
non-maintained emergency luminaires						
41039	PLEXI 108 NM3h	SE	T5/G5	3 hrs/2,5 Ah	1,3 kg	IP 20
41069	PLEXI 108 NM3hAt	AT-SE	T5/G5	3 hrs/2,5 Ah	1,3 kg	IP 20
modification for emergency supply from central battery AC/DC						
41078	PLEXI 108 CB		T5/G5		0,4 kg	IP 20
modification for network supply						
41088	PLEXI 108		T5/G5		0,7 kg	IP 20
<b>PLEXI LED – 96 cd diodes - recognition distance 30 m</b>						
maintained emergency luminaires						
41538	PLEXI LED M3h	SA	LED	3 hrs/2,5Ah	1,9 kg	IP 20
non-maintained emergency luminaires						
41539	PLEXI LED NM3h	SE	LED	3 hrs/2,5 Ah	1,6 kg	IP 20



**Pictographs for HELIOS emergency luminaires – 15 types**

Order code	Type		Dimensions mm
43901	Pictograph 01 HE	recognition distance 25 m	125 x 250
43915	Pictograph 15 HE	recognition distance 25 m	125 x 250

**Pictographs for TIGRIS emergency luminaires – 15 types**

Order code	Type		Dimensions mm
42901	Pictograph 01 TG	recognition distance 20 m	100 x 300
42915	Pictograph 15 TG	recognition distance 20 m	100 x 300

**Pictographs for PLEXI, HELIOS PL, TIGRIS PL emergency luminaires – 15 types**

Order code	Type		Dimensions mm
41901	Pictograph 01 PL	recognition distance 30 m	150 x 300
41915	Pictograph 15 PL	recognition distance 30 m	150 x 300



# LIDER

## EMERGENCY KITS

### Use:

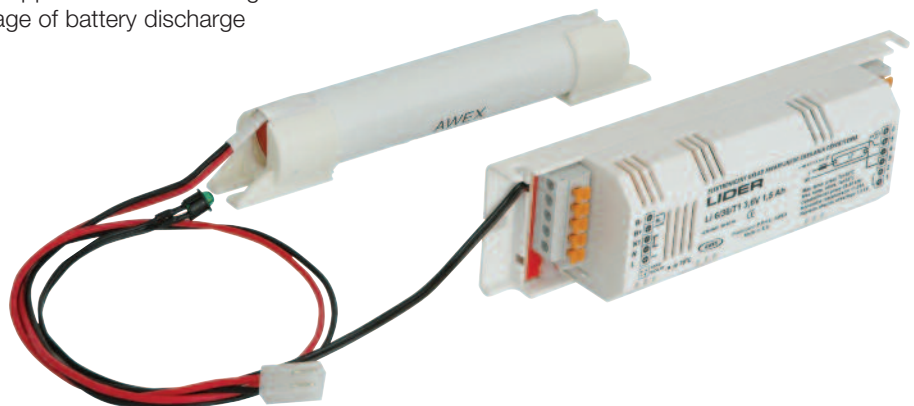
For luminaires to be used as maintained (M) or non-maintained (NM) illumination

### Technical specification:

- for fluorescent tubes 6-80W
- emergency operation time 1, 2 or 3 hours
- magnetic or electronic ballast
- regular power supply: 220-240 V/50-60 Hz
- ambient temperature: from 0 °C to +55 °C
- operation temperature: from 0 °C to +70 °C
- battery package voltage: 3,6 V; 4,8 V; 6 V and the capacity 1,0 – 4,0 Ah
- rated current of battery discharge 0,1 C
- maximum current of battery discharge <0,95 C (emergency operation)
- maximum charging time: 24 hours

### Characteristics:

- the built-in automatic switching system enables continuous operation of fluorescent lamps with regular power supply as well as in the emergency mode
- soft start system ensures long lamp life
- the control input enables the remote switching of the converter's operation mode from „stand-by“ into „power down“ mode
- the process of charging and proper battery connection is signalled by LED while the system is supplied with main voltage
- the control of minimum voltage of battery discharge



## LIDER with autotest

Test A is run automatically every 30 days

Test A checks the following parameters:

- enforcing emergency operation for 5 minutes
- control of battery power discharge
- control of minimum voltage of the battery

Test B is run automatically every 360 days

Test B checks the following parameters:

- enforcing emergency operation for all duration time (1, 2, 3 hours)
- control of battery power discharge
- control of minimum voltage of the battery

In case of power outage during TEST A or B the unit operates under emergency lighting power. Test signalling continues. After 230V AC power is on again the unit remains in emergency lighting mode until a full cycle of TEST A or B is completed.

LED colour		Information
● green	● red	
shining	–	regular battery package charging
–	flashing	defective lamp
–	shining	defective battery
–	–	running test / emergency mode



## Light sources - characteristics

Type of light sources	Total input [W]	Dimension [mm]	Luminous flux [Lm]		System input [W]		Input system current on light sources [A]		
			at 25 °C	at 35 °C	el. ballast	mag. ballast	el. ballast HPF	mag. ballast HPF	LPF
<b>T8 linear fl. tubes (827,830,840)</b>									
	15	438	950	875	15	19	0,07	0,08	0,17
	18	590	1350	1200	18	23	0,08	0,10	0,19
	36	1200	3350	3050	36	43	0,16	0,19	0,42
	58	1500	5200	4600	58	65	0,26	0,29	0,61
<b>T5 linear fl. tubes (827,830,840)</b>									
	14	549	1200	1350	15		0,07		
	21	849	1900	2100	22		0,10		
	24	549	1750	2000	26		0,12		
	28	1149	2600	2900	31		0,15		
	35	1449	3300	3650	38		0,18		
	39	849	3100	3500	42		0,19		
	49	1449	4300	4900	53		0,24		
	54	1149	4450	5050	58		0,26		
	80	1449	6150	7050	85		0,38		
<b>T8 circular fl.tubes (827,830,840)</b>									
	22	216	1350	1200	22	26	0,09	0,11	0,21
	32	307	2050	1850	35	37	0,15	0,18	0,31
	40	409	2900	2650	40	45	0,18	0,22	0,35
<b>T5 circular fl.tubes (827,830,840)</b>									
	22	225	1800	2050	24		0,11		
	40	300	3200	3600	43		0,19		
	55	300	4200	4850	59		0,27		
<b>Square tubes (827,835)</b>									
	16	141	1050		18	22	0,08	0,11	0,19
	28	207	2050		31	35	0,14	0,17	0,30
<b>PL-lamps (827,830,840)</b>									
	9	167	600		11	16	0,05	0,07	0,10
	11	237	900		13	17	0,06	0,08	0,12
	13	115	900		15	19	0,07	0,10	0,13
	18	130	1200		21	25	0,09	0,12	0,18
	26	149	1800		30	34	0,13	0,16	0,26

Correct choice of lamp spectrum	Shot light 79	Warm white					Neutral white				Daylight			Hortcul light 54 2A
		29 3	827 1B	927 1A	830 1B	930 1A	25 2A	33 2B	840 1B	940 1A	950 1A	865 1B	965 1A	
Groceries					●				●					
Shops with meat	●								●					
Shops with textile, leather				●		●				●				
Cosmetics, hairdressing				●		●				●				
Workshops									●			●		
Printing, graphical trades										●	●		●	
Stores									●					
Paint shops									●			●		
Colour testing											●		●	
Plant growers														●
Dwellings, restaurants			●	●										
Offices, schools					●				●					
Museums						●				●				
Hospital wards				●		●								
Treatment rooms										●				
Sport areas					●					●				
Exterior lighting	●									●				●

Recommended ● Suitable

### Luminosity comparison of TREVOS diffusers

Type	diffuser modification	luminosity	
PRIMA 236 PC	transparent PC	81 %	high luminosity
PROFI 236 PC	transparent PC	80 %	high luminosity
PROFI 228 AC T5	transparent acrylic	82 %	efficiency with tubeęs ambient temp. 25 °C
PROFI 228 AC T5	transparent acrylic	91 %	efficiency with tubeęs ambient temp. 35 °C
SM 236 OP	opal acrylic	70 %	undesirable glare suppressed
SM 236 KR	transparent acrylic	80 %	higher luminosity with eventual undesirable glare
SM 236 NOVA	opalized acrylic	78 %	undesirable glare suppressed with higher luminosity

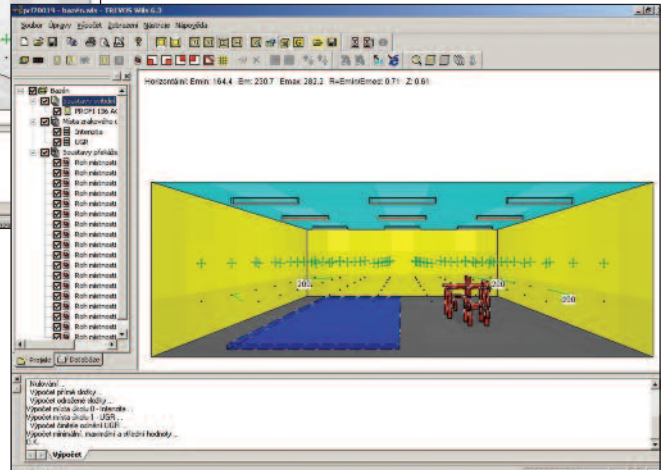
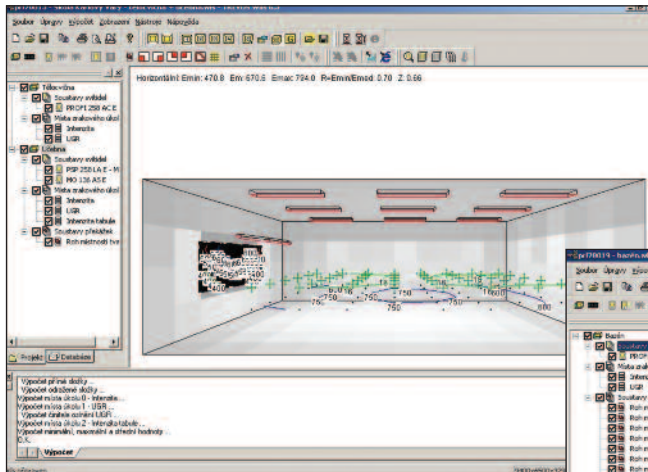
### Chemical resistance of lighting fittings made of thermoplasts

Environment	maximum concentration	polycarbonate/PC resistant			acrylate/(PMMA) resistant			polystyrol/PS H resistant			ABS (Forsan) resistant		
		yes	partially	no	yes	partially	no	yes	partially	no	yes	partially	no
Aceton (ketones)				•			•			•			•
Aniline			•				•			•			•
Ammonia	5%			•	•		•		•		•		•
Benzene and Benzaldehyde				•			•			•			•
Diethylether (ethers)				•		•				•			•
Potassium nitrate		•			•								
Ethanol (alcohols)	50%	•				•			•			•	
Ethylacetate (esters)				•			•			•			•
Ethyl alcohol		•				•			•		•		
Phenol				•			•			•			•
Glycerine			•		•								
Heptane						•			•				•
Ammonium hydroxide	25%			•			•		•		•		•
Sodium hydroxide -base	60%			•	•		•		•		•		•
Sodium chloride -salt solution	15%	•			•		•		•		•		•
Sulphur chloride and Calcium chloride		•			•		•			•			•
Carbon tetrachloride and Chloric ether				•			•			•			•
Iron dichloride			•		•								
Arsenic acid and Oleic acid		•			•				•		•		
Citric acid	20%	•			•				•		•		
Nitric acid	20%		•			•			•			•	
Nitric acid	50%			•			•			•			•
Hydrochlorid acid	5%	•			•				•		•		
Hydrochlorid acid	35%			•			•			•			•
Chromic acid	40%		•			•			•			•	
Formic acid	30%			•		•							•
Acetic acid	10%	•			•				•			•	
Sulphuric acid	30%	•			•				•			•	
Methanol				•			•			•			•
Fuel oil			•			•				•		•	
Mineral oil		•			•				•		•		
Vegetable oil		•			•				•		•		
Rape oil			•		•				•			•	
Lamp oil			•			•			•			•	
Hydrogen peroxide	30%						•			•		•	
Ammonium sulphate	15%	•			•				•		•		
Toluene				•			•			•			•
Turpentine oil									•				•
Trichlorethylene				•			•			•			•
Sodium carbonate	20%	•			•				•		•		
Aliphatic hydrocarbons		•			•							•	
Aromatic hydrocarbons				•	•		•			•			•
Alkali				•	•				•		•		





Company's calculation software for projecting of illumination by luminous flux and point method enables export of .ldt files for calculation in different software - DIALUX, RELUX.



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