

Weatherproof LED luminaire STRONGERTUBE

100,000 h product life

5 YEARS
warranty



STRONGERTUBE G2 B 6500-840 ET PMMA

IP 69K	IK 10
Frequency 0-50/60Hz	Rated voltage 220-240V
650°C	NON-SELV
UV	+35°C -25°C

General characteristics

- The new weather-proof luminaire STRONGERTUBE has been developed for highest demands. The luminaire is gas-proof, thus protecting its LEDs from premature ageing.
- The product features maximum LED efficiency in applications with special atmospheres containing fumes, gases or solvents as found for example in animal husbandry, tyre warehouses and special industrial areas.
- Luminaire body made of impact-resistant PMMA.
- End caps of impact-resistant and weather-resistant plastic (ASA).

Applications recommendation

- Farms
- Car wash tunnels
- Food and agricultural industry
- Chemical industry
- Industrial sewage
- Damp room areas
- Petrochemical industry

Approvals and markings



Mounting accessories

- Stainless steel fixing brackets included

Mounting possibilities



Product Options

- Through wiring
- Presence sensor

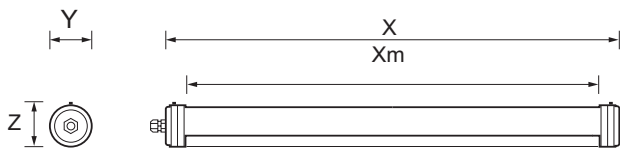
Weatherproof LED luminaire STRONGERTUBE

General technical data

Rated voltage range	220V-240V
Rated frequency	0-50Hz/60Hz
Protection class	Class I
Protection rating	IP69K
Impact resistance	IK10
UV protection	Diffuser and body with UV protection
Fire protection	PMMA: Flammability (UL94): HB /Glow wire test (EN 60695-2-11): 650°C
THD	< 10%
Chemical agents resistance	See appendix
Color Rendering Index (CRI)	> 80
Type of control gear	Electronic transformer, digitally dimmable (DALI)
Connection method	Terminal block, cable gland and connection cable

Operating data | Dimensions

Designation	Special features	Luminous Flux	Efficiency	Connection load	Color Temperature	X	Xm	Y	Z
		lm	lm/W	W	K	mm	mm	mm	mm
STRONGERTUBE G2 B 6500-840 ET PMMA		6500	145	46	4000	1340	1205	112	112
STRONGERTUBE G2 B 6500-840 ETDD PMMA		6500	145	46	4000	1340	1205	112	112



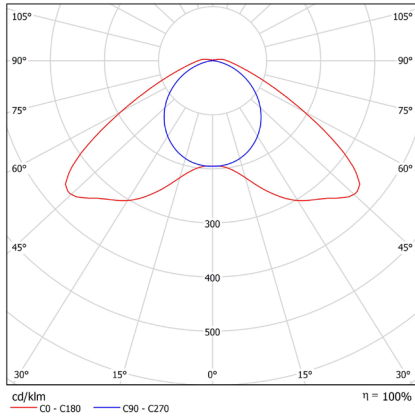
Logistical data

Designation	Order Number					
		L x W x H mm	Pcs./Box	Box	Groupage Pcs./Euro palett	Double pallet Pcs./Euro palett
STRONGERTUBE G2 B 6500-840 ET PMMA	10175731	1350 x 112 x 112	1	4.8	54	42+42
STRONGERTUBE G2 B 6500-840 ETDD PMMA	10175732	1350 x 112 x 112	1	4.8	54	42+42

For logistic estimations please contact our sales backoffice team

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Light characteristic



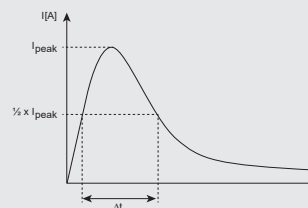
STRONGERTUBE G2 B 6500-840 ET PMMA
Other models similar distribution with different intensities

Circuit breaker/inrush current

Order Number	typ. $I_{peak}/\Delta t$	Number of ECGs on single-pole power circuit breakers (CB)				
		CB-Type	10 A	16 A	20 A	25 A
10175731	38 A / 163 μs	B	12	19	23	29
		C	20	31	39	49
10175732	36 A / 150 μs	B	12	19	23	29
		C	20	31	39	49

- Data for $U_{supply} = 230 \text{ VAC}$, mains impedance = 1 Ω
- In case of multi-polar CB the maximum number is reduced by 20 %
- The max. number may differ depending on CB manufacturer. Please consider the specifications of the manufacturer.
- Basically, CB with C-characteristics are recommended to be used in lighting groups.

Typical current-time profile of inrush current



Product life

T ^a Range	L Value	Lifetime
25°C	L80	100,000 h

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Conformity to standards

Electrical equipment designed to be used with certain voltage limitations

EN 60598-1	Luminaires - Part 1: General requirements and tests
EN 60598-2-1	Luminaires - Part 2: Particular requirements. Section 1: General purpose luminaires

Electromagnetic compatibility

EN 55015	Limits and methods of measurement of radio disturbance characteristics of electric lighting and similar equipment. Characteristics of electric lighting and similar equipment
EN 61000-3-2	Electromagnetic compatibility (EMC) Part 3-2: Limits - Limits for harmonic current emissions
EN 61000-3-3	Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems
EN 61547	Equipment for general lighting purposes EMC immunity requirements
EN 62471	Photobiological safety of lamps and lamp system
EN 62493	Assessment of lighting equipment related to human exposure to electromagnetic fields

APPENDIX

Chemical Agents	Polyester	Polycarbonate	Aluminium	PMMA	Stainless steel
Acetic acid 10%	✓	✓	✓	✓	✓
Acetone	∅	X	✓	X	✓
Alcoholic beverages	✓	✓	✓	∅	✓
Aluminium sulphate	✓	✓	✓	✓	∅
Ammonia 5%	∅	X	✓	✓	✓
Aniline	∅	X	✓	X	✓
Arsenic acid 20%	∅	✓	✓	✓	✓
Benzene	X	X	✓	X	∅
Bencylic alcohol	X	X	∅	X	∅
Bromine	X	X	X	X	X
Calcium Chloride	✓	✓	✓	✓	∅
Calcium nitrate	✓	✓	✓	✓	∅
Carbon tetrachloride	X	X	✓	X	∅
Carbonic acid	✓	X	✓	X	✓
Caustic potash 5%	X	X	X	✓	∅
Cement	✓	✓	✓	✓	∅
Hydrochloric acid 1-5%	∅	✓	X	✓	X
Chlorine liquids (vapours)	X	X	X	X	∅
Chloroform	X	X	✓	X	✓
Chromic acid	X	∅	X	∅	∅
Citric acid 20%	✓	✓	✓	✓	∅
Copper sulphate	✓	✓	X	✓	∅
Diesel-naphta oil	✓	∅	✓	✓	✓
Ethyl alcohol 30%	✓	✓	✓	∅	✓
Ethyl chloride	X	X	∅	X	✓
Ethyl ether	✓	X	✓	X	∅
Food oils and fats	✓	X	✓	✓	✓
Formic acid 10%	∅	✓	X	✓	∅
Glycerine	✓	✓	✓	✓	✓
Hexane	∅	✓	✓	✓	✓
Iodine	✓	X	∅	✓	X
Isopropylic alcohol	✓	∅	✓	∅	∅
Lubricating oil	✓	✓	✓	✓	✓
Magnesium sulphate	✓	✓	✓	✓	✓
Methanol	✓	X	✓	∅	✓
Mineral oils	✓	✓	✓	✓	✓
Nitric acid 20%	X	∅	X	✓	✓
Oxygen	✓	✓	✓	✓	✓
Ozone	✓	✓	✓	✓	∅
Perchloric acid 10%	X	✓	X	✓	X
Petrol	✓	X	✓	✓	✓
Phenol	∅	X	✓	X	∅
Pothassium bromide	✓	✓	∅	✓	∅
Pothassium nitrate	✓	✓	✓	✓	∅
Pothassium permanganate	✓	✓	✓	✓	∅
Sea climate	✓	✓	∅	✓	∅
Silicon oils	✓	✓	✓	∅	✓
Soda bleach 15%	✓	X	∅	✓	∅
Sodium chloride	✓	✓	∅	✓	∅
Sodium hydroxide 5%	✓	X	X	✓	∅
Sodium sulphate	✓	✓	✓	✓	∅
Sugar	✓	✓	✓	✓	✓
Sulphur	✓	✓	✓	✓	∅
Sulphuric acid 30%	X	✓	X	✓	X
Toluene	X	X	✓	X	✓
Trichloroethylene	X	X	✓	X	∅
Zinc sulphate	✓	✓	∅	✓	∅

✓ Resistant ∅ Relatively resistant X Non-resistant