

NLS

DESIGN. MANUFACTURING.
INSTALLATION. LIGHTING SYSTEMS

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Road lighting control



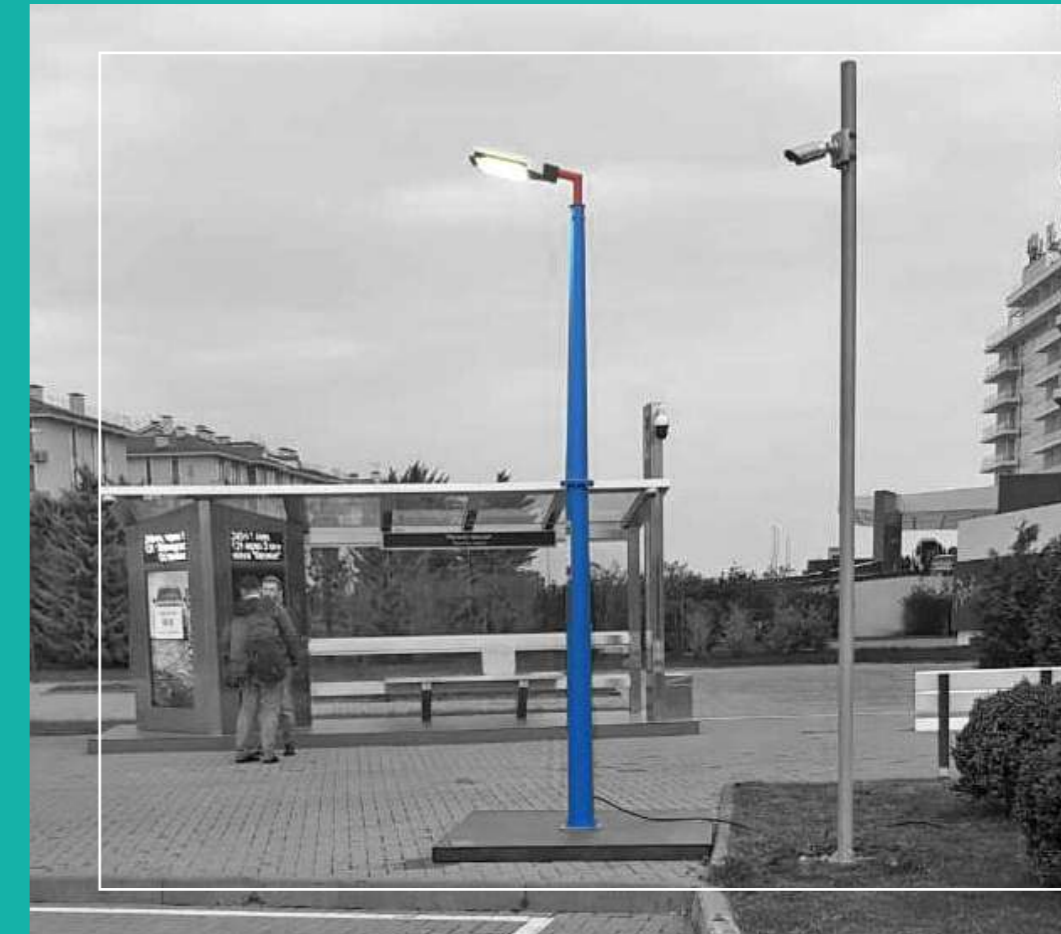
LIGHTING POLE WITH INTEGRATED CHARGING STATION FOR ELECTRIC VEHICLES

DESTINATION

Complete solution for Parking lighting and alternating current charging of electric vehicles

ADVANTAGES

- Easy installation and maintenance
- Built-in electricity metering device
- The possibility of painting in any color on the table RAL
- AC charging Mode 3 electric vehicles of all types and manufacturers
- Availability of GPRS modem for the organization of communication channel EZS-server; remote access-management, data collection
- Secure access to the station connectors is possible only after successful user identification through the mobile application



01



STRUCTURE

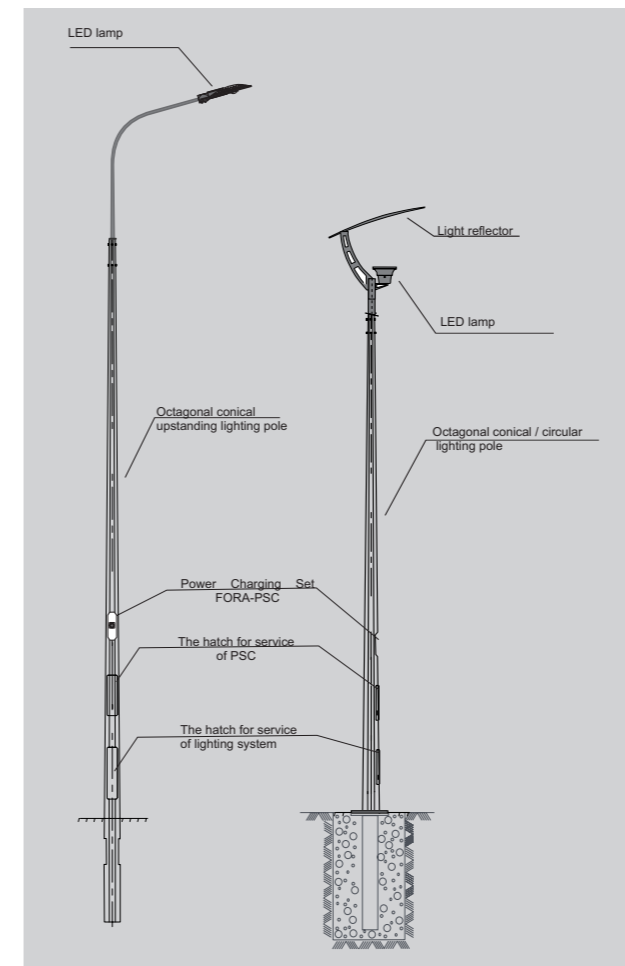
Octagonal conical pole with integrated electric charging station

The pole is made of sheet steel by bending with one longitudinal seam and protected from corrosion by hot-dip galvanizing (ISO 1461).

The integrated electric station charges electric vehicles with alternating current. Corresponds to standart IEC 61851.



CHARACTERISTIC	SETTINGS
Type	Cut-in metal box
Degree of protection of electronic components	IP 54
Operating temperature	- 30°C ~ 50°C
Humidity	90%
Power supply voltage	220 B AC
Supply frequency	50 Hz
Watt consumption	10 W
Quantity of relay exits, not less	2
The charge modes according to IEC 61851	Mode 3
Indication	Light indication of operating modes
System of identification of the user	Mobile application
Monitoring and management, information transfer	Ethernet, GSM 2G
Control system and electricity metering	By means of external metering devices with RS485 interface
Overcurrent protection	Built-in
Protection against leak on AC	Built-in
Protection against leak on a DC	Built-in, type A
Installed capacity	3,5 kW
Socket type	Schuko



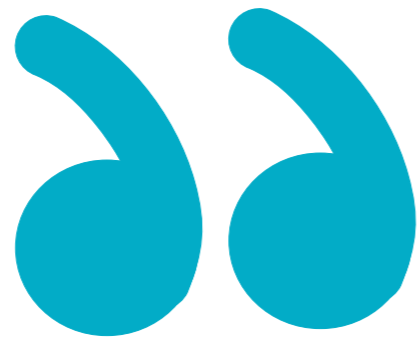
MAIN CHARACTERISTICS

Height	4 - 6 m
Operating temperature	-30°C ~ 40°C
Installed power	3,5 kw
Wind district	up I to VII
Climatik version	I ₂ , II ₄
Anticorrosion coating	Hot galvanizing



ADVANTAGES

- Easy installation and maintenance
- Low weight and aesthetic appearance
- Long service life
- High corrosion resistance of the coating, including for marine climate
- The possibility of making the poles by individual parameters



The program «My street» in Moscow, Russia

«My street» - is great project of development in modern history of Moscow. The main idea of the program becomes the creation of comfortable environment and making Moscow more comfortable for citizens and guests of the City.

As part of the program more than 60 streets were reconstructed and get new lighting, many octagonal poles were renovated.

CONICAL CIRCULAR LIGHTING POLE

DESTINATION

Lighting of traffic avenues, traffic junctions, bridges, squares, parks, parking areas, etc.



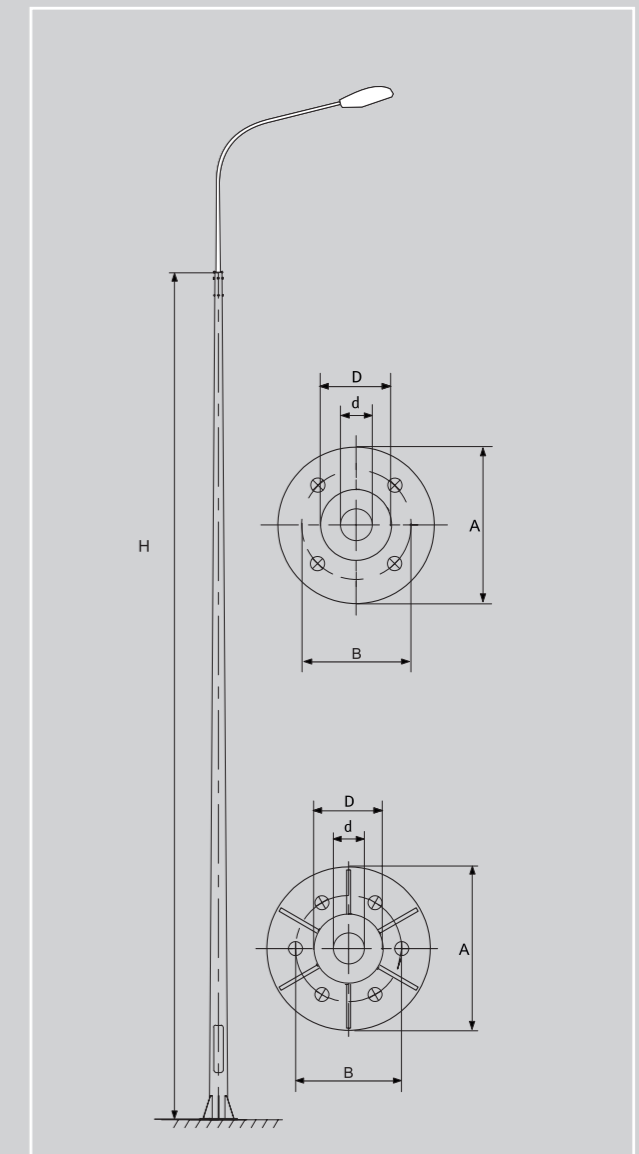
02

Among the customers:

British Petroleum
Gazprom

Neste
Novatek
Rosneft
SHELL
etc.

Lighting poles installed for facilities prepared for XXII Winter Olympic Games (2014), FIFA World Cup (2018), XXIX winter Universiade (2019).



STRUCTURE

Conical circular lighting pole is made of sheet steel by bending with one longitudinal seam and protected from corrosion by hot-dip galvanizing (ISO 1461).

This type of coating is not decorative, but only functional. Corrosion resistance warranty is at least 25 years. All the fasteners are galvanized.

The poles can be painted in different RAL colours



Heigh	3 - 16 m
Wind district	up I to VII
Climatik version	I ₂ , II ₄
Anticorrosion coating	Hot galvanizing

STRUCTURE

Conical circular traffic lighting pole is made of sheet steel by bending with one longitudinal seam and protected from corrosion by hot-dip galvanizing (ISO 1461).

This type of coating is not decorative, but only functional. Corrosion resistance warranty is at least 25 years. All the fasteners are galvanized.

The poles can be painted in different RAL colours

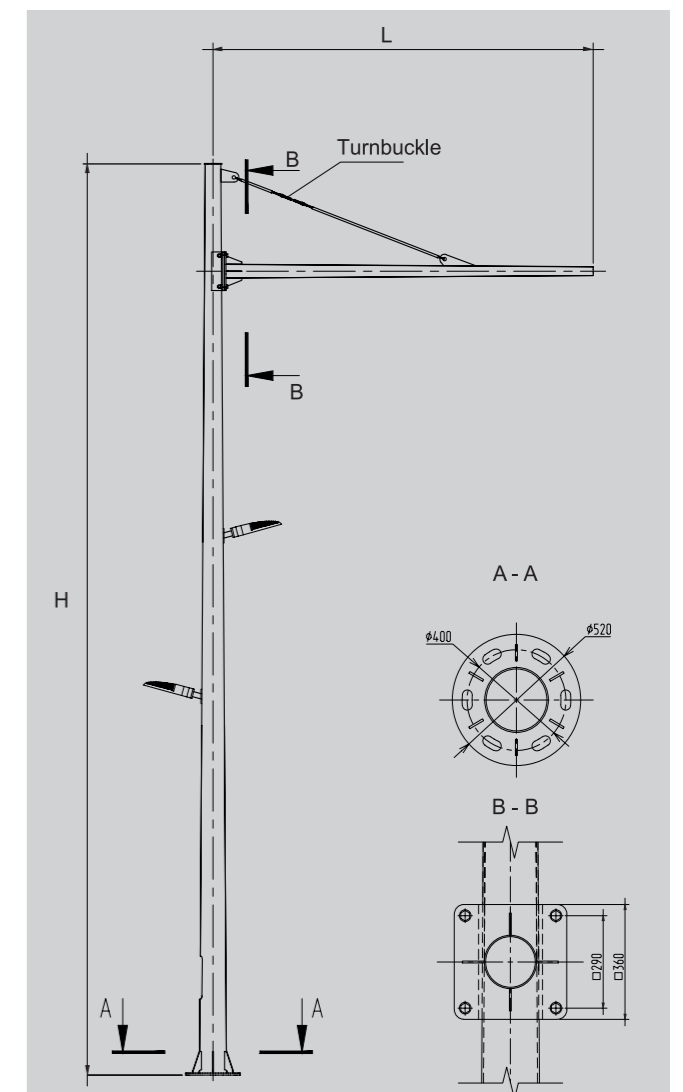


Height	7 - 8,5 m
Wind district	up I to VII
Climatik version	I ₂ , II ₄
Anticorrosion coating	Hot galvanizing

CONICAL CIRCULAR TRAFFIC LIGHTING POLE

For installation of flash equipment and information traffic signs in the streets and main roads. Poles have both standard execution, rated for regular operating condition, with account of special climatic conditions and order requirements.

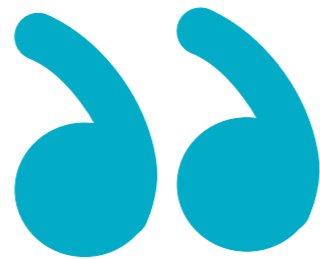
Can be equipped with lighting equipment





ADVANTAGES

- Easy installation and maintenance
- Low weight and aesthetic appearance
- Long service life
- High corrosion resistance of the coating, including for marine climate
- The possibility of making the poles by individual parameters



All installed lighting poles meets the technical requirements, reliable, easy in operation and have positive feedback from operation and installation organizations.

OCTAGONAL CONICAL LIGHTING POLE

DESTINATION

Lighting of traffic avenues, traffic junctions, bridges, squares, parks, parking areas, etc.



03

STRUCTURE

Conical octagonal lighting pole is made of sheet steel by bending with one longitudinal seam and protected from corrosion by hot-dip galvanizing (ISO 1461).

This type of coating is not decorative, but only functional. Corrosion resistance warranty is at least 25 years. All the fasteners are galvanized.

The poles can be painted in different RAL colours

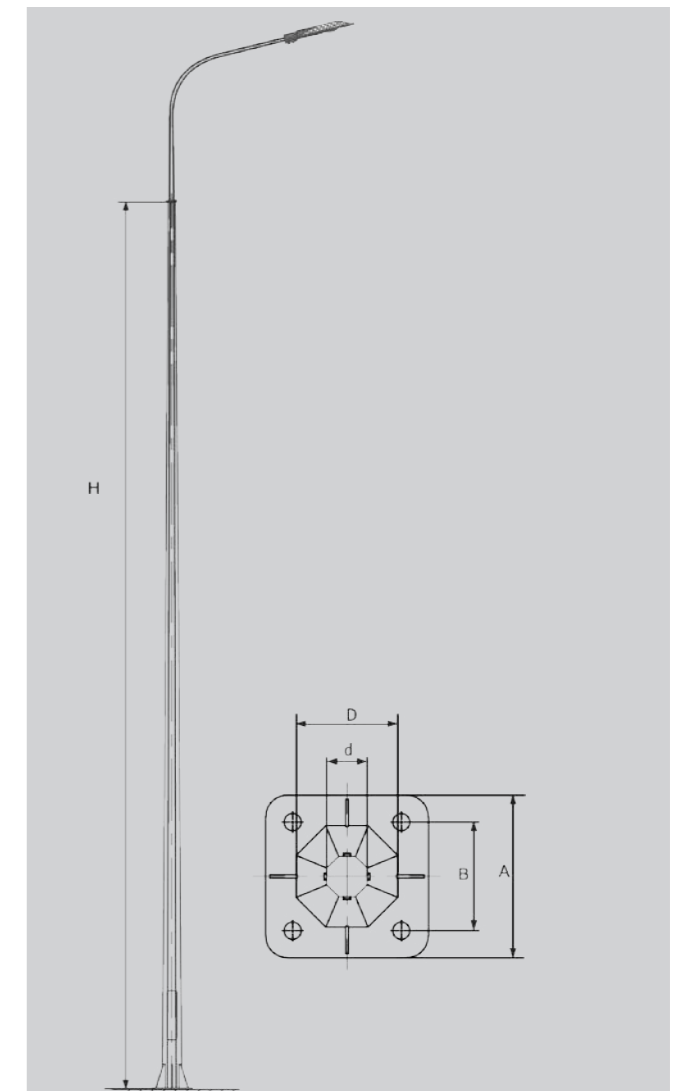


Height	3 - 16 m
Wind district	up I to VII
Climatik version	I ₂ , II ₄
Anticorrosion coating	Hot galvanizing

Among the customers:
British Petroleum
Gazprom
Neste

Novatek
Rosneft
SHELL
etc.

Lighting poles installed for facilities prepared for XXII Winter Olympic Games (2014), FIFA World Cup (2018), XXIX winter Universiade (2019).

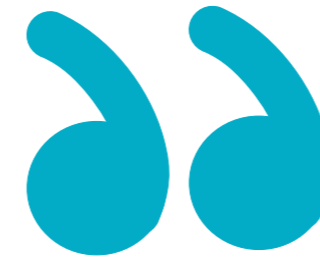


CONICAL CIRCULAR OR OCTAGONAL POLES FOR THE OVERHEAD ELECTRICAL NETWORK

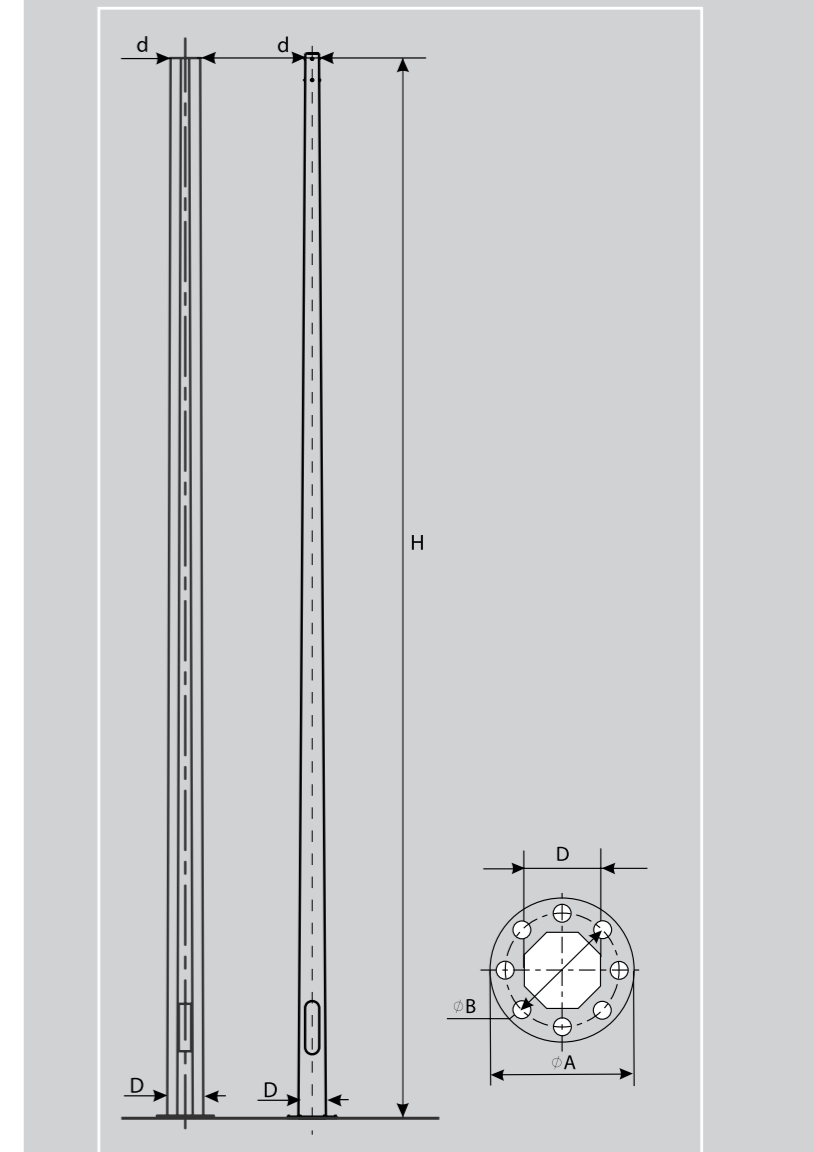
For construction for the city electrical transport overhead electric system, as well as for functional lighting of motor roads and junctions.

ADVANTAGES

- Easy installation and maintenance
- High corrosion resistance of the coating, including for marine climate
- Low weight and aesthetic appearance
- The possibility of making the poles by individual parametres
- Long service life



The first high speed tram line in Saint-Petersburg which was build in cooperation of private investors and city Government. Project has designed and manufacturing special octagonal poles for the overhaed electrical network. For this project the poles were stylized as ship masts.



STRUCTURE

Conical octagonal and circular lighting pole is made of sheet steel by bending with one longitudinal seam and protected from corrosion by hot-dip galvanizing (ISO 1461).

This type of coating is not decorative, but only fuctional. Corrosion resistance warranty is at least 25 years. All the fasteners are galvanized.

The poles can be painted in different RAL colours



Heigh	9 - 13 m
Wind district	up I to VII
Climatik version	I _{2'} II ₄
Anticorrosion coating	Hot galvanizing



DECORATIVE CARVED LIGHTING POLE

DESTINATION

Lighting of squares, parks, gardens, parking areas, etc.

ADVANTAGES

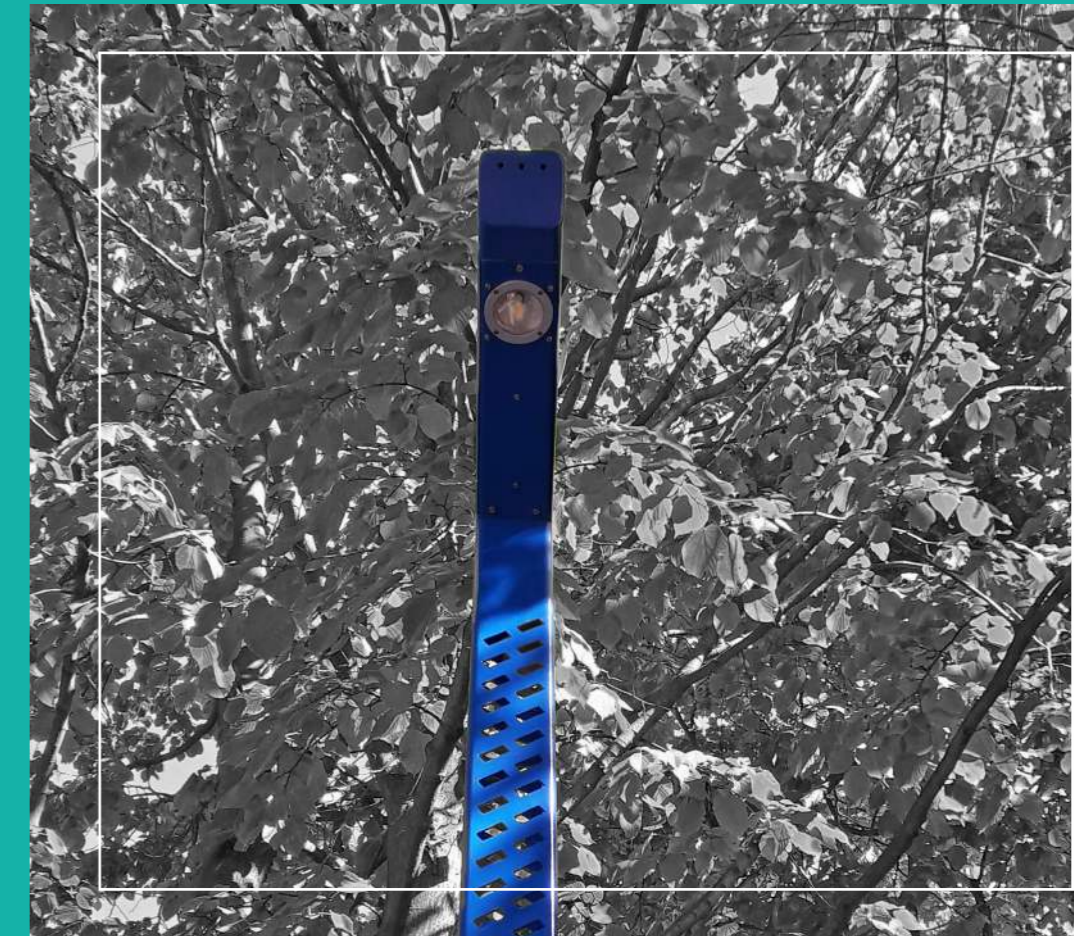
- Easy installation and maintenance
- Possibility of painting in any color according to RAL table
- Long service life
- High corrosion resistance of the coating, including for marine climate
- Possibility of manufacturing according to individual parameters
- RGB illumination inside the pole

MAIN CHARACTERISTICS

Height	4 - 8 m
Wind district	up I to VII
Climatic version	I ₂ , II ₄
Anticorrosion coating	Hot galvanizing

POSSIBLE CONFIGURATION OPTIONS

5G	WI-FI	LED LIGHT
GeSS	IP CAMERA	CHARGE



04

Poles are made of rolled metal of square and circular cross-section. At the bottom of the pole there is a closed compartment (hatch) for the installation of circuit breakers and terminal blocks.

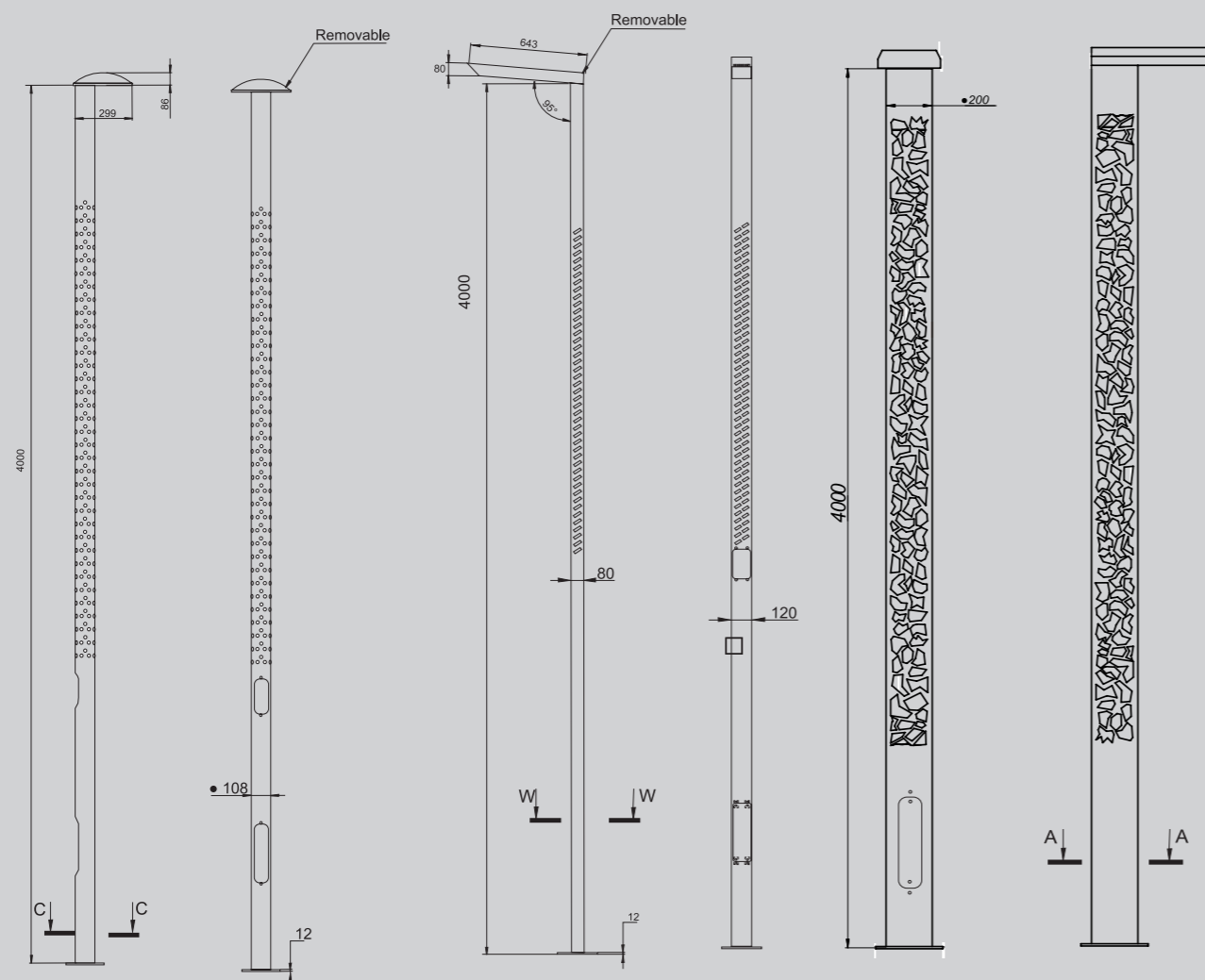
In the middle part of the pole there is an additional hatch for installing decorative lighting inside the pole (led RGB lamps). In the case of use as a backlight of the trunk pole these lamps can be integrated in the line of the lighting controller, providing simultaneous highlighting the entire line.

The backlight is equipped with an individual driver. All electrical connections of the support are made using WAGO terminals.

Input of power into the pole is carried out through sealed IP 67 input boxes, which perform a safety function.



TYPES OF POLES



LED FLOOD LIGHTING LED ROAD LIGHTING ROAD LIGHTING CONTROL

DESTINATION

Road lighting, sports facilities lighting, lighting of open areas, parks and gardens, embankments, parking etc.



LED Flood Lighting - Area Flood Lighting

SMA SUMA

Excellent light distribution even at long distance

- High luminous efficacy 105 lm/W
- Tilting structure for optimized aiming (Upward: 90°, Downward: 90°)
- Wired/Wireless dimming controls
- Outstanding cooling technology and durability



IP 66 diffused light no light pollution

Application

Harbour, Airport aprons, Airplane Hangars, Container terminals, Sporting facilities, Parking lots

Specifications

* Tolerance : ± 5%

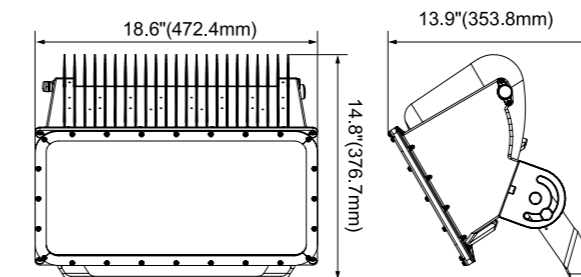
Driver Type	Model	Power	*Luminous Efficacy	*Luminous Flux	Color Temperature	CRI	Weight	Input Voltage	Operation Temperature
Built-in	SMA400	400W	105 lm/W	42,000 lm	5000K (3000K, 4000K available)	70 Ra	12.5 kg / 27.6 lb	AC200~240V	-50°C~55°C -58°F~131°F
Remote	SMA400						10.3 kg / 22.7 lb	AC200~277V	

Body	Cast Aluminum	Mounting Option	Swivel Bracket
Cover	Tempered Glass 4T (Clear)	Light Distribution	Asymmetric Wide
Finish	Powder Coating	Control System	Remote Type : Wired (RS-485) / Built-in Type : Wireless

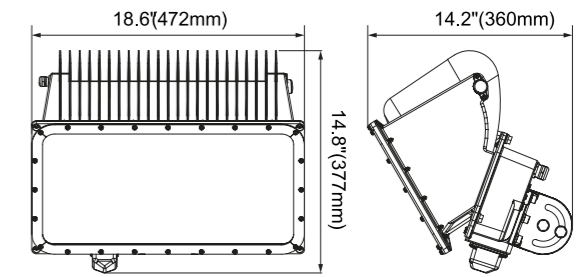
* more details of Remote Driver(RED) on p.30

Dimensions

• SMA400 (Remote Type)



• SMA400 (Built in Type)



05

SFH SUFA-H

High quality sports stadium lighting

- No glare from Narrow beam reflector
- 1,500 fps flicker free super slow-motion(SSM)
- High CRI & R9 Content better visibility
- Wired dimming controls
- Various module combination available
(1K2 : 600W x 2ea / 1K2 : 300W x 4ea/ 600W : 300W x 2ea)



Application

Sports Complex, Football Stadium, Soccer Stadium, Tennis Court, Indoor Arenas

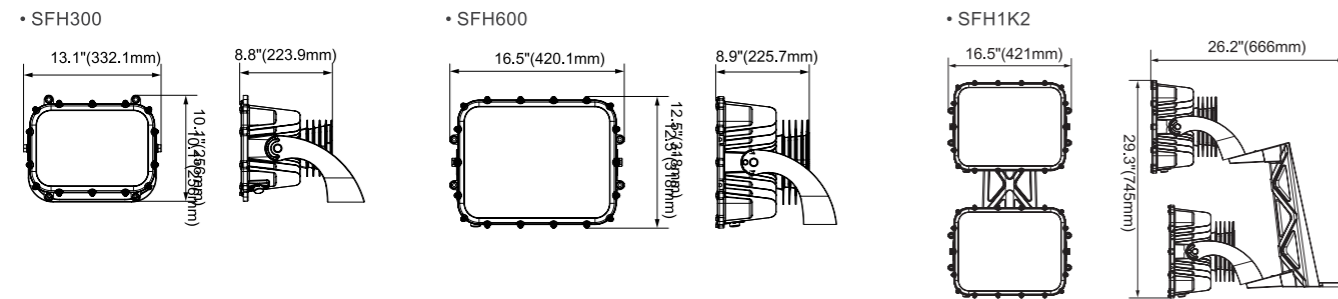
Specifications

* Tolerance : ± 5%

Model	Power	*Luminous Efficacy	*Luminous Flux	Color Temperature	CRI	Weight	Input Voltage	Operation Temperature
SFH1K2	1200W (600Wx2) (300Wx4)	95 lm/W	114,000 lm	5000K (3000K, 4000K, 5700K available)	90 Ra	26.0 kg / 57.3 lb	DC100V (RED)	-30°C~-55°C -22°F~-131°F
		105 lm/W	126,000 lm		80 Ra			
		110 lm/W	132,000 lm		70 Ra			
SFH600	600W	95 lm/W	57,000 lm	90 Ra	13.0 kg / 28.6 lb			
		105 lm/W	63,000 lm	80 Ra				
		110 lm/W	66,000 lm	70 Ra				

Body	Cast Aluminum	Light Distribution	13° / 20° / 30°
Cover	Tempered Glass 4.0T (Clear), Anti UV & Dust, Shatter Proof	Control System	Wired (RS-485)
Finish	Powder Coating		* more details of Remote Driver(RED) on p.30

Dimensions



SFM SUFA-M

Tilt and rotate for easy aiming and optimized uniformity

- Excellent cooling structure design increases heat dissipation
- High CRI & R9 for better visibility
- Wired event lighting control system
- Color Tunable (4000K ~ 5700K)



Application

Sports stadiums, Indoor Venues

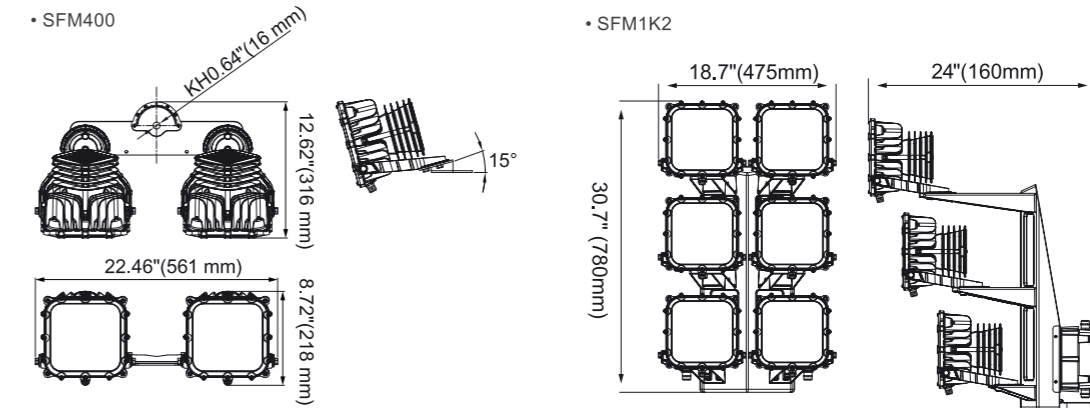
Specifications

* Tolerance : ± 5%

Model	Power	*Luminous Efficacy	*Luminous Flux	Color Temperature	CRI	Weight	Input Voltage	Operation Temperature
SFM1K2 200W x 6	1200W	100 lm/W	120,000 lm	5000K (3000K, 4000K, 5700K available)	90 Ra	21.0 kg / 46.3 lb	DC100V (RED)	-30°C~-55°C -22°F~-131°F
		110 lm/W	132,000 lm		80 Ra			
		115 lm/W	138,000 lm		70 Ra			
SFM400	400W	100 lm/W	40,000 lm	90 Ra	8.0 kg / 17.6 lb			
		110 lm/W	44,000 lm	80 Ra				
		115 lm/W	46,000 lm	70 Ra				
SFM400 Warm/Cool	400W	100 lm/W	40,000 lm	4000K, 5000K 5700K	80 Ra	8.0 kg / 17.6 lb	DC100V (Power box)	
		95 lm/W	38,000 lm		90Ra			
		90 lm/W	36,000 lm					

Body	Cast Aluminum	Light Distribution	15° / 30° / 45°
Cover	Tempered Glass 3.2T (Clear), Anti UV & Dust, Shatter Proof	Control System	Wired (RS-485)
Finish	Powder Coating		* more details of Remote Driver(RED) on p.30

Dimensions



SFA SUFA-A

Spectacular sports lighting comes with high efficacy and less glare optic technology

- No glare from Narrow beam reflector
- Flicker free 1,500 fps ultra slow-motion
- High CRI & R9 for better visibility
- Tilt and rotate for easy aiming
- Wired event lighting control system

Application

Sports stadiums, Indoor Venues, Ports

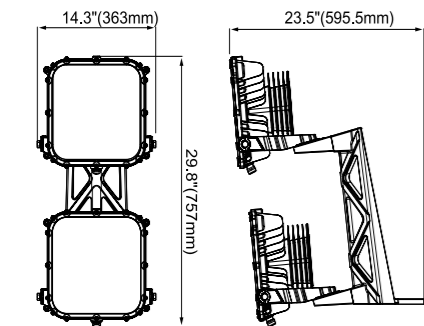
Specifications

Model	Power	*Luminous Efficacy	*Luminous Flux	Color Temperature	CRI	Weight	Input Voltage	Operation Temperature
SFA1K2	1200W	100 lm/W	120,000 lm	5000K (3000K, 4000K, 5700K available)	90 Ra	18.0 kg / 39.7 lb	DC100V (RED)	-30°C~55°C -22°F~131°F
		110 lm/W	132,000 lm		80 Ra			
		115 lm/W	138,000 lm		70 Ra			
SFA1K0	1000W	100 lm/W	100,000 lm	5000K (3000K, 4000K, 5700K available)	90 Ra	13.0 kg / 28.6 lb	DC190V (BLU)	-30°C~55°C -22°F~131°F
		110 lm/W	110,000 lm		80 Ra			
		115 lm/W	115,000 lm		70 Ra			
SFA800	800W	100 lm/W	80,000 lm	5000K (3000K, 4000K, 5700K available)	90 Ra	13.0 kg / 28.6 lb	DC190V (BLU)	-30°C~55°C -22°F~131°F
		110 lm/W	88,000 lm		80 Ra			
		115 lm/W	92,000 lm		70 Ra			

Body	Cast Aluminum	Light Distribution	15° / 30° / 45°
Cover	Tempered Glass 3.2T (Clear), Tempered Glass 4.0T (Clear, only 800W)	Control System	Wired(RS-485), Wireless(only 800W)
Finish	Anti UV & Dust, Shatter Proof Powder Coating	* more details of Remote Driver(RED, BLU) on p.29-30	

Dimensions

• SFA1K2 / SFA1K0



SFX SUFA-X

Spectacular sports lighting comes with high efficacy and less glare optic technology

- No glare from Narrow beam reflector
- Flicker free 1,500 fps ultra slow-motion
- High CRI & R9 for better visibility
- Wired event lighting control system

Application

Sports stadiums, Indoor Venues, Ports

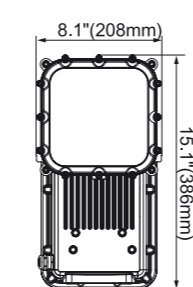
Specifications

Model	Power	*Luminous Efficacy	*Luminous Flux	Color Temperature	CRI	Weight	Input Voltage	Operation Temperature
SFX1K0	1000W	110 lm/W 115 lm/W	110,000 lm 115,000 lm	5000K (3000K, 4000K, 5700K available)	80 Ra 70 Ra	32.0 kg / 70.6 lb	AC200~277V AC347~480V	-30°C~55°C -22°F~131°F
SFX600	600W	110 lm/W 115 lm/W	66,000 lm 69,000 lm		80 Ra 70 Ra			
SFX500	500W	110 lm/W 115 lm/W	55,000 lm 57,500 lm		80 Ra 70 Ra			
SFX400	400W	110 lm/W 115 lm/W	44,000 lm 46,000 lm	5000K (3000K, 4000K, 5700K available)	80 Ra 70 Ra	16.6 kg / 36.6 lb	AC200~277V AC220~240V AC347~480V	-30°C~55°C -22°F~131°F
SFX200	200W	110 lm/W	22,000 lm		80 Ra			
		115 lm/W	23,000 lm		70 Ra			

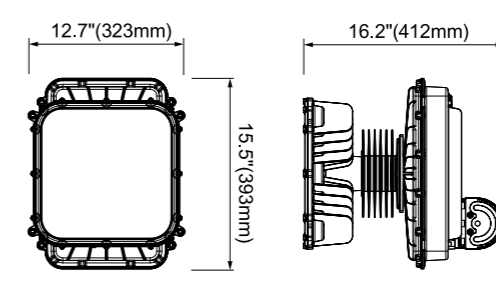
Body	Cast Aluminum	Mounting Option	Swivel Bracket
Cover	Tempered Glass 3.2T (Clear), Anti UV & Dust, Shatter Proof	Light Distribution	15° / 30° / 45°
Finish	Powder Coating	Control System	Wireless / Wired (RS-485)

Dimensions

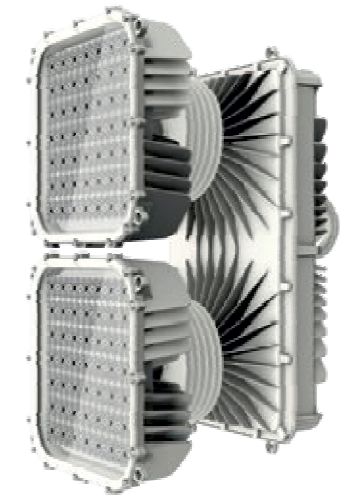
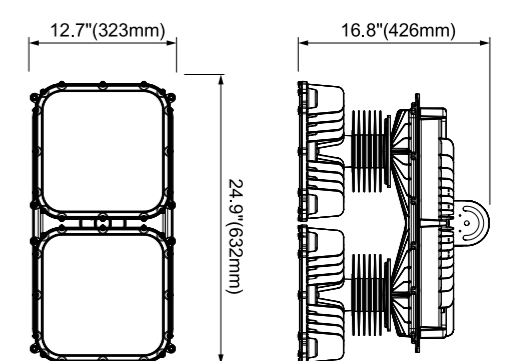
• SFX200



• SFX400/SFX500/SFX600



• SFX1K0



LED Flood Lighting - Area Flood Lighting

MAH MAHA

Unrivalled efficacy 150 lm/W

- Asymmetric beam distribution enabling cost efficient 1 on 1 replacement for HID flood light
- Outstanding cooling technology and durability
- Excellent light distribution and minimized glare
- Smart lighting control using wireless or Receptacle

Application

Sporting Facilities, Airplane Hangars, Airport Aprons, Parking Lots, Harbour, Yard

Specifications

* Tolerance : ± 5%

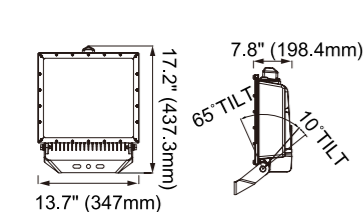
Driver Type	Model	Power	* Luminous Efficacy	* Luminous Flux	Color Temperature	CRI	Weight	Input Voltage	Operation Temperature	
Built-in	MAH600	600W	150 lm/W	90,000 lm	5000K (3000K, 4000K, 5700K available)	80 Ra	20.0 kg / 44.0 lb	AC220~240 V	-22°F~131°F	
				AC200~277 V				-30°C~55°C		
				AC347~480 V						
	MAH500	500W	150 lm/W	75,000 lm				15.0 kg / 33.1 lb	AC220~240 V	-22°F~122°F
									AC200~277 V	-30°C~50°C
	MAH400	400W	150 lm/W	60,000 lm				15.0 kg / 33.1 lb	AC100~240 V	-22°F~131°F
						AC120~277 V	-30°C~55°C			
						AC347~480 V				
	MAH250	250W	150 lm/W	37,500 lm			7.5 kg / 16.6 lb	AC220~240 V	-22°F~131°F	
								AC200~277 V	-30°C~55°C	
								AC347~480 V		
	MAH200	200W	150 lm/W	30,000 lm			7.5 kg / 16.6 lb	AC100~240 V	-22°F~131°F	
								AC120~277 V	-30°C~55°C	
								AC347~480 V		
	MAH150	150W	145 lm/W	21,750 lm			7.5 kg / 16.6 lb	AC100~240V	-30°C~60°C	
								AC100~277V	-22°F~140°F	
Remote	MAH500	500W	150 lm/W	75,000 lm			11.3 kg / 24.9 lb	DC100V (RED)	-22°F~131°F	
										-30°C~55°C
	MAH400	400W	150 lm/W	60,000 lm			11.3 kg / 24.9 lb			

Body	Cast Aluminum	Mounting Option	Swivel Bracket / Pole Mount Bracket
Cover	Tempered Glass 4T (Clear)	Light Distribution	Asymmetric Wide
Finish	Powder Coating	Control System	Wireless / NEMA-7 Receptacle / Wired (RS-485, Remote Driver Type Only)

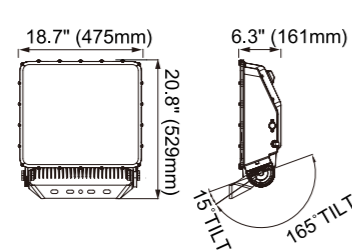
* more details of Remote Driver(RED) on p.30

Dimensions

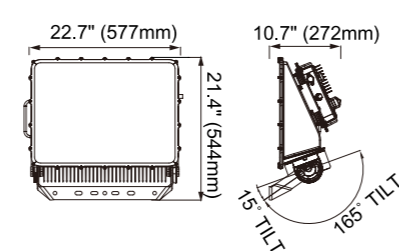
• MA150 / MAH200 / MAH250



• MAH400 / MAH500



• MAH600



IP 66

MAH600

Appendix - External Remote Driver

BLU Remote Driver

BLU (External Remote Driver)

- The output voltage of Remote Driver is DC48V when the distance of the luminaires is less 5.0m, DC190V when over 5.0m
- Distance between luminaire and remote driver is up to 70m

Application Product

SFA800

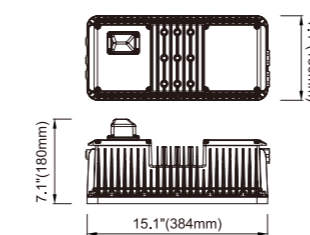
IP 66

Specifications

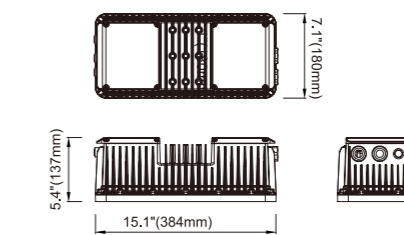
Model	Power	Input Voltage	Output Voltage	Input Current	Output Rated Current	Weight
BLU800	855W	AC200~277V	Typ. DC 190V	Max. 5.0 (@200Vac)	Max. 4.5A	10.0 kg / 22.1 lb

Dimensions

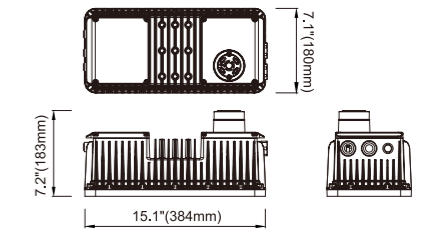
• BLU (Wireless)



• BLU (Wired)



• BLU (NEMA)



RED Remote Driver

RED (External Remote Driver)

- The output voltage of Remote Driver is DC48V when the distance of the luminaires is less 5.0m, DC100V when over 5.0m
- Distance between luminaire and remote driver is up to 50m

Application Products

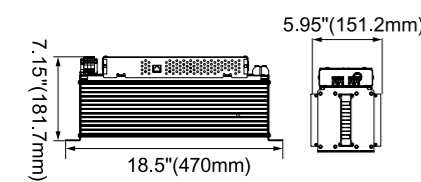
SMA400, SFH1K2, SFH600, SFM400, SFA1K2, SFA1K0, MAH500, MAH400

Specifications

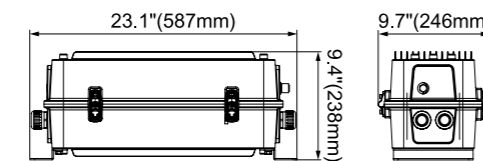
Model	Power	Input Voltage	Output Voltage	Input Current	Output Rated Current	Weight
RED1K2	1300W			Max. 7.6 (@200Vac) Max. 5.0 (@347Vac)	Max. 6.5A x 2EA	
RED1K0	1100W	AC200~277V AC200~240V	Typ. DC 100V	Max. 6.3 (@200Vac) Max. 4.4 (@347Vac)	Max. 5.5A x 2EA	13.0 kg / 28.7 lb
RED800	900W	AC220~240V AC347~480V		Max. 5.0 (@200Vac) Max. 3.8 (@347Vac)	Max. 4.5A x 2EA	
RED600	650W			Max. 3.8 (@200Vac) Max. 2.5 (@347Vac)	Max. 6.5A	10.0 kg / 22.0 lb

Dimensions

• RED (Remote Driver)



• RED IP BOX (Optional)



IP 20



IP 66

MT&MTL META & META linear tilting

High Luminous Efficacy 140 lm/W

- Excellent Light Distribution and Uniformity
- Wireless Lighting Control
- Built-in 20kV Surge Protection Device

Application

Expressway, Highways, Roadways, Streets

Specifications

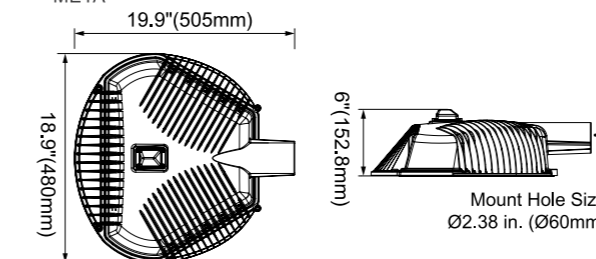
Model	Power	*Luminous Efficacy	*Luminous Flux	Color Temperature	CRI	Weight	Input Voltage	Operation Temperature
MT180 MTL180	180W		25,200 lm			7.9 kg / 17.4 lb 7.7 kg / 16.9 lb		
MT150 MTL150	150W	140 lm/W	21,000 lm	5000K (3000K, 4000K, 5700K available)	80 Ra	7.9 kg / 17.4 lb 7.7 kg / 16.9 lb	AC100~277 V AC100~240 V AC347~480 V	-30°C~60°C -22°F~140°F
MT130 MTL130	130W		18,200 lm			7.9 kg / 17.4 lb 7.7 kg / 16.9 lb		
MT100 MTL100	100W		14,000 lm			7.9 kg / 17.4 lb 7.7 kg / 16.9 lb	AC100~277V	

* Tolerance : ± 5%

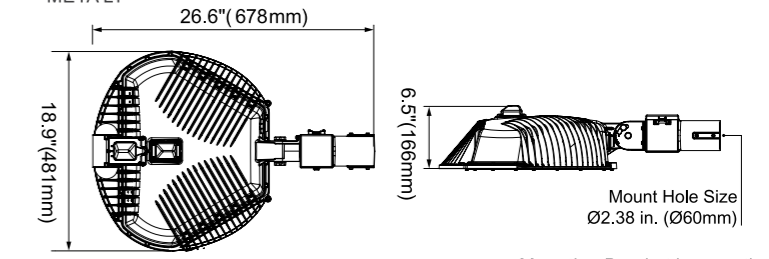
Body	Cast Aluminum	Mounting Option	Horizontal Tenon Mount
Cover	Tempered Glass 4T (Clear)	Light Distribution	Type III-S
Finish	Powder Coating	Control System	Wireless / Sensor (Daylight)

Dimensions

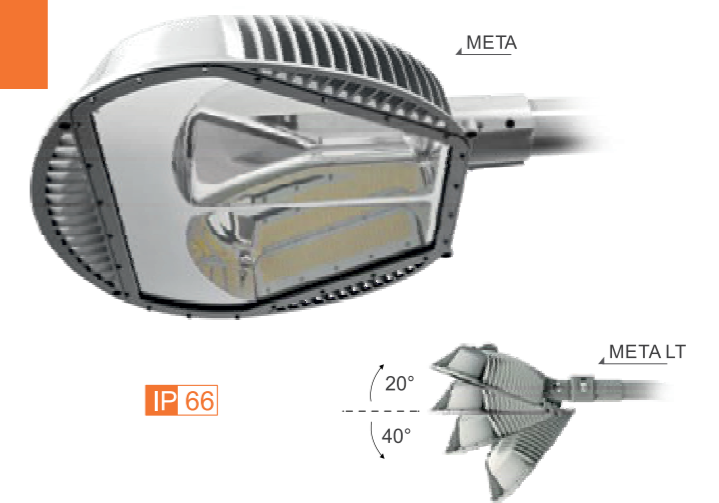
• META



• META LT



*Mounting Bracket is an optional.



META-WHISTLE

Air-Alert



IP 66

Emergency Signal System

- Alert function for different event with RGBA (4 colors)
- Wireless Node
- IP66 Rated

Application

Highways, Roadways, Streets

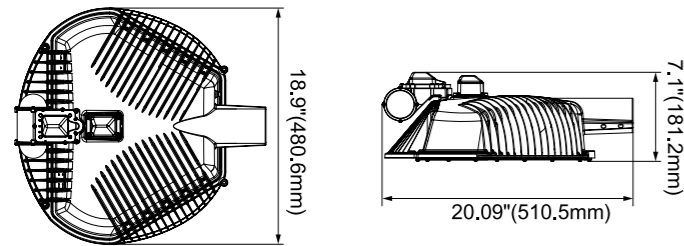
Whistle Specifications

* Tolerance : ± 5%

Model	Standard	Frequency	RF Tx Power	RF Rx Sensitivity	Transfer Speed	Transfer Distance	Color Code	Network Configuration	Operating Temp.
Whistle	IEEE 802.15.4	2.4GHz	5dBm	-96dBm	250kbps	150M	4Color (RGB & Amber)	Mesh	-30°C~60°C -22°F~140°F

Dimensions

• META-Whistle



Whistle

Wireless Node



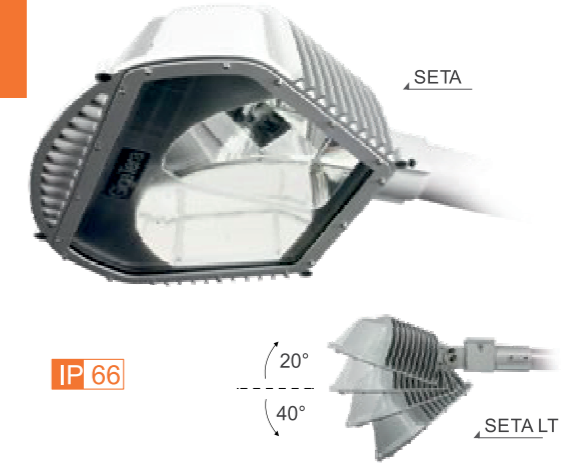
Whistle (RGBA 4 colors)

System configuration



SET&STL

SETA & SETA linear tilting



IP 66

High Efficiency 135 lm/W

- Wireless Lighting Control
- Built-in 20kV Surge Protection Device

Application

Industry complexes, Business parks, Local-ways, Alley-ways

Specifications

* Tolerance : ± 5%

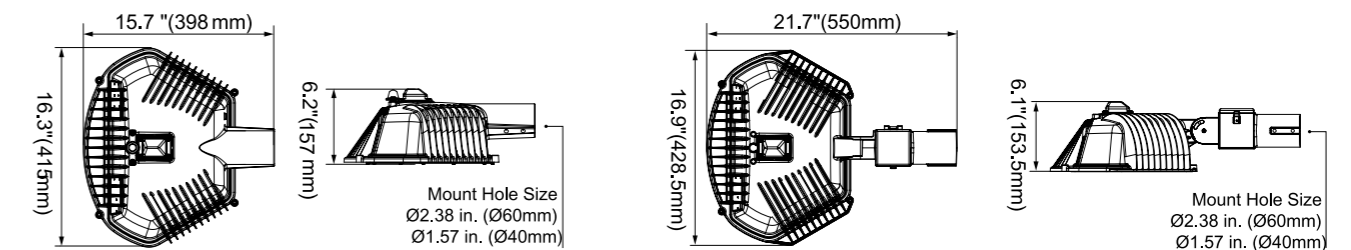
Model	Power	*Luminous Efficacy	*Luminous Flux	Color Temperature	CRI	Weight	Input Voltage	Operation Temperature
SET100 STL100	100W	135 lm/W	13,500 lm	5000K	80 Ra	4.5 kg / 9.9 lb 5.5 kg / 12.2 lb	AC100~277 V AC100~240 V	-30°C~60°C -22°F~140°F
SET080 STL080	80W	135 lm/W	10,800 lm	(3000K, 4000K, 5700K available)				
SET060 STL060	60W	130 lm/W	7,800 lm			4.5 kg / 9.9 lb 5.5 kg / 12.2 lb		

Body	Cast Aluminum	Mounting Option	Horizontal Tenon Mount
Cover	Tempered Glass 4T (Clear)	Light Distribution	Type II-S
Finish	Powder Coating	Control System	Wireless / Sensor (Daylight)

Dimensions

• SETA

• SETA LT



LED Roadway Lighting -Control and Alert

SETA-WHISTLE

Air-Alert

Emergency Signal System

- Alert function for different event with RGBA (4 colors)
- Wireless Node
- IP66 Rated

Application

Highways, Roadways, Streets

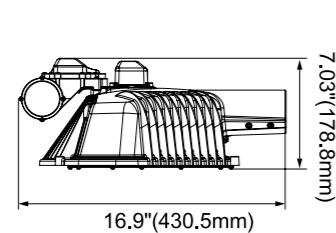
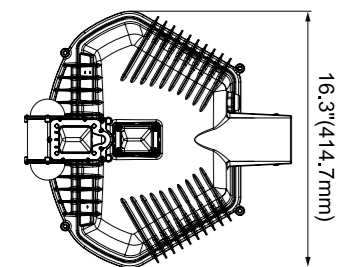
Whistle Specifications

Model	Standard	Frequency	RF Tx Power	RF Rx Sensitivity	Transfer Speed	Transfer Distance	Color Code	Network Configuration	Operating Temp.
Whistle	IEEE 802.15.4	2.4GHz	5dBm	-96dBm	250kbps	150M	4Color (RGB & Amber)	Mesh	-30°C~60°C -22°F~140°F

* Tolerance : ± 5%

Dimensions

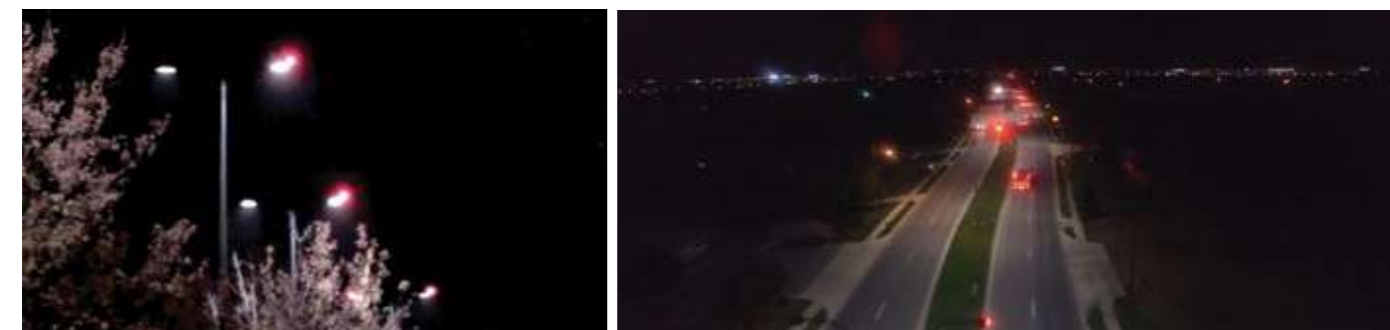
• SETA-Whistle



Whistle



System configuration



IT Converged LED Lighting - Security

SPES-ST SPES-SETA

IP camera based convergence product that meets street light distribution (Type II-S) requirements

- High efficiency LED lighting that comes equipped with intelligent lighting controls
- Full-HD PTZ IP Camera (Optical 10x Mega pixel Zoom Lens)
- Built in micro SD card automatically saves video footage
- Function that prevent a video trembling due to vibration (DIS : Digital Image Stabilization)
- Onvif compliant

Application

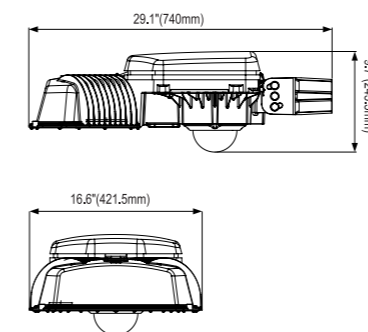
Walkways, Driveways, Industrial facilities, School zones, Cultural asset facilities, Hospitals, Shopping malls, Parking lots, Estates, Potential crime zones

Specifications

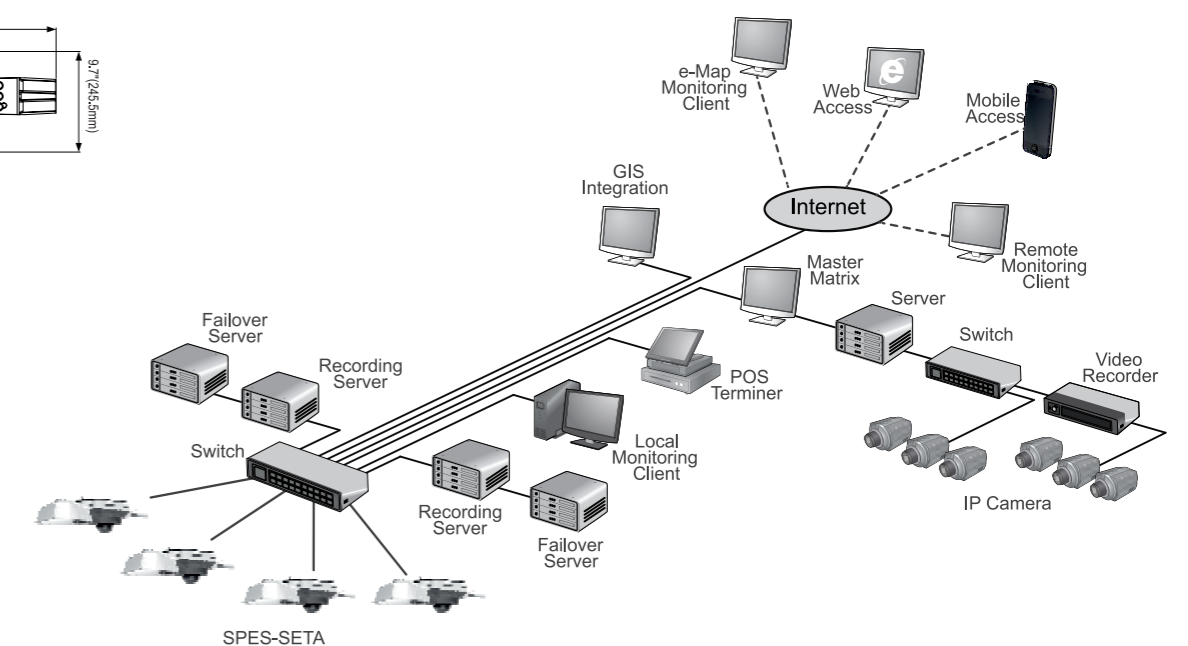
Model	Power	*Luminous Efficacy	*Luminous Flux	Color Temperature	CRI	Weight	Input Voltage	Operation Temperature
SST	110W (LED: 100W, CAM:10W)	135 lm/W	13,500 lm	5000K (4000K available)	80 Ra	12kg 26.5 lb	AC100~277V	-30°C~60°C -22°F~140°F
Body	Cast Aluminum		Mounting Option	Horizontal Tenon Mount	Control System		Wireless / Sensor (Motion, Daylight)	
Cover	Tempered Glass 4T (Clear)		Mount Hole	Ø2.4 in. (Ø60.5mm)	IP Camera		2M pixel IP Camera	
Finish	Powder Coating		Light Distribution Option	Type II-S Whistle			10X Zoom PTZ (f=5.1 ~ 51mm) onvif	

Tolerance : ± 5%

Dimensions



City Surveillance System Diagram (Central Control System)



Gateway

Roadway Lighting Control

The Gateway allows communication with command between the GeSS system and node.

- This action is carried by using 2G/3G wireless connection and Ethernet.
- Through wireless connection, the lighting fixture and node can be monitored and controlled.



Application

Highway, Roadway, Street

Specifications

* Tolerance : ± 5%

Model	Power Consumption	Communication Method	Dimension	Weight	Input Voltage	Operation Temperature
Gateway	Max. 2.5W	Ethernet, WCDMA (Web/GUI) Wireless (Lighting)	191 x 388 x 158 mm 7.5 x 15.3 x 6.2 inch	3.2kg / 7.1 lb	AC 100~277V AC 347~480V	-20°C~60°C -4°F~140°F

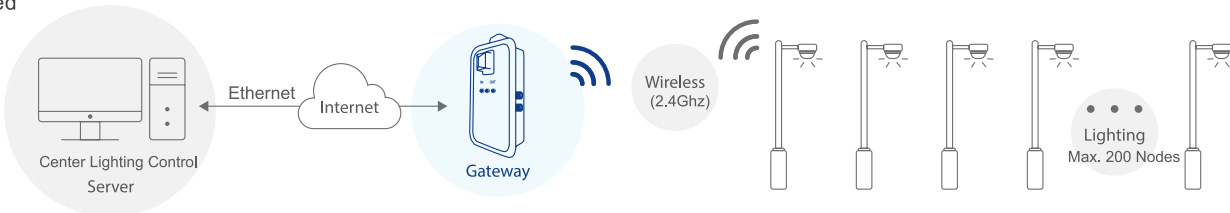
System configuration

• Wireless

*For local control only due to the distance limitation



• Wired



* **Notes** | Up to monodirectional *LOS@200M is valid between the gateway and the first node.
One gateway can be used to control up to 200 roadway lightings.



CERTIFICATE

Products have certificate of constancy of performance 1922-CPR-0683

Dedal Attestation & Certification

Notified body No. 1922
Bulgaria, 8230 Nesebar
Mladost #50

CERTIFICATE

of constancy of performance

1922 - CPR - 0683

In compliance with Regulation (EU) No 305/2011 of the European Parliament and of the council of 9 March 2011 (the Construction Products Regulation or CPR), this certificate applies to the construction products

Steel Lighting Columns, material: S235 and S355
Resistance to horizontal load: C - v=30 m/s
Wind area: v≤30 m/s
Terrain category: II
Performance under impact (passive safety): Class O

(The types of lighting columns and the relevant resistance to horizontal loads parameters are described in Annex I, that is an integral part of this certificate.)
 placed on the market under the name or trade mark of
AMIRA JSC
Russia, 195027, Saint Petersburg, 51 Magnitogorska st., liter D
 and produced in the manufacturing plant
MEGAPOLIS
Russia, 187015, Leningradskaya region, settl. Krasny Bor, 12 Promyshlennaya st.

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standard
EN 40-5:2002
 under system 1 for the performance set out in this certificate are applied and that the factory production control conducted by the manufacturer is assessed to ensure the constancy of performance of the construction product.

This certificate was first issued on 24.06.2016 and will remain valid until 24.06.2020 as long as neither the harmonised standard, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified factory production control certification body. The certificate is supported through annual surveillance audit and is reissued after each surveillance audit. The validity of the certificate may be confirmed in the CE register at the web address www.dedal-bg.net.





Manager: 
 arch. Galina Vasileva

Issued:
Burgas, 26 August 2019

Dedal Attestation & Certification




Notified body No. 1922
Bulgaria, 8230 Nesebar
Mladost #50


ANNEX I TO CERTIFICATE OF CONSTANCY OF PERFORMANCE

1922-CPR-0683/ 26.08.2019
PAGE 1/1

Type	Height m	Section	Base diameter (min-max) mm	Top diameter (min-max) mm	Thickness (min-max) mm
ОГК	4-20	octagonal	180-350	64-120	4-12
ОГК/ МОГК	3-16	octagonal	100-275	58-150	3-8
ОТ	3-20	circular	159-219	108-133	3,5-10
ОГС	7-13	octagonal	275-460	150-375	4-20
ОКК	3-20	circular	92-600	60-360	3-12
ОКС	8-13	circular	273-426	159-325	4-12
ВМО	8-20	polygonal	440-2000	150-300	4-20
ВМОН	8-20	polygonal	440-2000	150-600	4-20
КОДСК	4-6	circular	108-133	108-133	4

This certificate was first issued on 24.06.2016 and will remain valid until 24.06.2020 as long as neither the harmonised standard, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified factory production control certification body. The certificate is supported through annual surveillance audit and is reissued after each surveillance audit. The validity of the certificate may be confirmed in the CE register at the web address www.dedal-bg.net.

Manager: 
 arch. Galina Vasileva

Issued:
Burgas, 26 August 2019



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