

1. **EU-TYPE EXAMINATION CERTIFICATE**

2. **Equipment or Protective System Intended for use in Potentially explosive atmospheres**
Directive 2014/34/EU

3. EU-Type Examination Certificate Number: **EESF 19 ATEX 033X**

4. Product: **Explosion-proof light fixtures**

Certified types: **SGU01..., SGP05..., SGR07...**

5. Manufacturer: **ZAVOD GORELTEX Co. Ltd.**

6. Address: **195176, Saint Petersburg, Revolutsii road, 18, lit. A**

Russian Federation

7. This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8. Eurofins Expert Services Oy, Notified Body number 0537, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential report No. RU/CCVE/ExTR19.0002/00.

9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0:2012/A11:2013 EN 60079-1:2014 EN IEC 60079-7:2015/A1:2018
EN 60079-18:2015/A1:2017 EN 60079-31:2014

10. If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

11. This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

12. The marking of the product shall include the following:



II 2 G Ex db eb mb IIC T6...T4 Gb and/or
II 2 D Ex tb IIIC T51°C...T111°C Db
IP54/IP66

Espoo, 12.12.2019
Eurofins Expert Services Oy

Kari Koskela
 Expert

Ilkka Riihimäki
 Expert

This document is digitally signed.

13. **Schedule**

14. **EU-Type Examination Certificate EESF 19 ATEX 033X**

15. **Description of Product**

Equipment and systems covered by this certificate are as follows:

Light fixtures series SGU01..., SGP05..., SGR07... are intended for lighting of rooms, open production sites and other facilities where lighting is required.

The enclosure of the light fixture has two compartments: a flameproof enclosure, in which LED light sources are arranged and a thin-walled enclosure, in which power supply for LEDs with the type of protection encapsulation "m" and certified terminals for connection to external power supply are placed. Light-transmitting part is made of tempered glass and has a sealed connection with an enclosure. Entries for installation of cable glands, plugs and other accessories are arranged on the thin-walled enclosure.

Electric mains or power supply unit can be a source of power.

Ambient temperature range, °C: -60...+60.

Degree of protection (EN 60529): IP54/IP66.

Supply voltage: 110-230V AC, 10-36V DC.

The temperature class is a function of the enclosure size, of the maximum power and ambient temperature as specified in the tables 1, 2, 3 given in the Annex to this certificate.

Main technical characteristics and structure of designation are given in the operation, safety and maintenance manual LGSA.1.019.2018.

16. **Report Number**

RU/CCVE/ExTR19.0002/00

17. **Specific Conditions of Use**

1. Cables used for connection of light fixtures shall be suitable for operation in the same temperature conditions as the relevant products and shall be resistant to the temperature which occurs on the surface of the enclosure.
2. Cable glands and other devices which can be installed are subject to a separate certification as Ex-equipment and they shall not invalidate the type of protection and IP degree of protection and shall correspond to connecting thread, its size and type of inserted cable.
3. Unused openings shall be plugged with certified plugs which do not invalidate the type of explosion protection of the light fixture.

18. **Essential Health and Safety Requirements**

The Essential Health and Safety Requirements are covered by the standards listed at item 9.

19. **Drawings and Documents**

Drawings and documents are listed in the confidential report RU/CCVE/ExTR19.0002/00.

Annex

Table 1. Technical characteristics of SGU01... series light fixtures.

Model	Maximum luminous flux of the light source, lm	Installed power P _{inst} , W	-60°C ≤ T _{amb} ≤ +40°C		-60°C ≤ T _{amb} ≤ +50°C		-60°C ≤ T _{amb} ≤ +60°C	
			Temperature class	Temperature for dust atmosphere, °C	Temperature class	Temperature for dust atmosphere, °C	Temperature class	Temperature for dust atmosphere, °C
SGU01-1240S-12DC	1240	9,6	T6	53	T6	63	T6	73
SGU01-1240S-220AC	1240	9,6	T6	54	T6	64	T6	74
SGU01-2480S-12DC	2480	18,5	T6	60	T6	70	T6	80
SGU01-2480S-220AC	2480	18,5	T6	60	T6	70	T6	80
SGU01-3720S-12DC	3720	28,5	T6	64	T6	74	T6	84
SGU01-3720S-220AC	3720	28,5	T6	63	T6	73	T6	83
SGU01-4960S-12DC	4960	37	T6	63	T6	73	T6	83
SGU01-4960S-220AC	4960	37	T6	62	T6	72	T6	82
SGU01-7440S-12DC	7440	59	T6	69	T6	79	T5	89
SGU01-7440S-220AC	7440	59	T6	68	T6	78	T5	88
SGU01-9920S-12DC	9920	71	T6	75	T5	85	T5	95
SGU01-9920S-220AC	9920	71	T6	74	T6	84	T5	94
SGU01-14880S-12DC	14880	110	T6	68	T6	78	T5	88
SGU01-14880S-220AC	14880	110	T6	68	T6	78	T5	88
SGU01-19840S-12DC	19840	147	T6	73	T6	83	T5	93
SGU01-19840S-220AC	19840	147	T6	74	T6	84	T5	94
SGU01-24800S-12DC	24800	184	T6	81	T5	91	T4	101
SGU01-24800S-220AC	24800	184	T6	81	T5	91	T4	101

Table 2. Technical characteristics of SGP05... series light fixtures.

Model	Maximum luminous flux of the light source, lm	Installed power P _{inst} , W	-60°C ≤ T _{amb} ≤ +40°C		-60°C ≤ T _{amb} ≤ +50°C		-60°C ≤ T _{amb} ≤ +60°C	
			Temperature class	Temperature for dust atmosphere, °C	Temperature class	Temperature for dust atmosphere, °C	Temperature class	Temperature for dust atmosphere, °C
SGP05-5080S-220AC	5080	37	T6	66	T6	76	T5	86
SGP05-5080S-12DC	5080	37	T6	66	T6	76	T5	86
SGP05-17696S-220AC	17696	134	T6	72	T6	82	T5	92
SGP05-17696S-12DC	17696	134	T6	70	T6	80	T5	90
SGP05-22120S-220AC	22120	168	T6	81	T5	91	T4	101
SGP05-22120S-12DC	22120	168	T6	81	T5	91	T4	101
SGP05-26544S-220AC	26544	202	T5	91	T4	101	T4	111
SGP05-26544S-12DC	26544	202	T5	90	T5	100	T4	110

Table 3. Technical characteristics of SGR07... series light fixtures.

Model	Maximum luminous flux of the light source, lm	Installed power P _{inst} , W	-60°C ≤ T _{amb} ≤ +40°C		-60°C ≤ T _{amb} ≤ +50°C		-60°C ≤ T _{amb} ≤ +60°C	
			Temperature class	Temperature for dust atmosphere, °C	Temperature class	Temperature for dust atmosphere, °C	Temperature class	Temperature for dust atmosphere, °C
SGR07-1240S-220AC	1240	9,6	T6	52	T6	62	T6	72
SGR07-1240S-12DC	1240	9,6	T6	51	T6	61	T6	71
SGR07-2480S-220AC	2480	18,5	T6	56	T6	66	T6	76
SGR07-2480S-12DC	2480	18,5	T6	55	T6	65	T6	75
SGR07-3720S-220AC	3720	28,5	T6	62	T6	72	T6	82
SGR07-3720S-12DC	3720	28,5	T6	60	T6	70	T6	80
SGR07-4960S-220AC	4960	37	T6	62	T6	72	T6	82
SGR07-4960S-12DC	4960	37	T6	61	T6	71	T6	81
SGR07-7440S-220AC	7440	59	T6	66	T6	76	T5	86
SGR07-7440S-12DC	7440	59	T6	66	T6	76	T5	86
SGR07-9920S-220AC	9920	71	T6	68	T6	78	T5	88
SGR07-9920S-12DC	9920	71	T6	66	T6	76	T5	86

The light fixtures can have additional designation "QFM..." or "UVG..." in accordance with "ZAVOD GORELTEX" Co. Ltd. classifier.