Wolf® LFX1 Floodlite Ex-Proof

The Wolf LFX1 LED Floodlite is an ultra-durable, high-performance ex-proof projector designed to meet both fixed and temporary lighting requirements in hazardous locations. Offered by IST Safety Ltd, the official distributor of Wolf, this model serves as one of the most efficient LED alternatives to traditional halogen lamps, combining a compact structure with low energy consumption.

Certified for Zone 1/21, the LFX1 delivers a powerful and uniform output of 2,150 lumens. With its highly impact-resistant aluminum body, toughened glass lens, and IP66/67 ingress protection rating, it maintains peak performance even under the harshest industrial conditions. Its "light for life" LED technology minimizes maintenance costs while maximizing operational safety.

Usage Areas

- **Oil & Gas:** Pump stations, valve rooms, and maintenance areas within refineries and petrochemical plants.
- **Marine:** Engine rooms, cargo tanks, and deck lighting where corrosive marine environments are prevalent.
- **Chemical Industry:** General site lighting in areas where flammable liquids are processed or stored.
- **Industrial Maintenance:** Confined space inspections and temporary repair operations.

Certification & Compliance

- The LFX1 Floodlite™ is perfect for safely lighting medium to large-sized Hazardous Areas that need wide, even light coverage.
- It is ATEX, IECEx, and UKEX certified for Zones 1, 2, and 21, 22.
- The LFX1 is available with either 12 or 16 LEDs.
- It is IP66/67 certified and comes with a full range of fixing accessories.
- With a T4 temperature class and a lower ambient temperature of -50°C, plus high-temperature

versions up to 65°C, the LFX1 Floodlite™ is suitable for a wide range of Hazardous Area environments.
- The LFX1 Floodlite™ is suitable for both indoor and outdoor use in potentially explosive atmospheres.
- Complies with EN IEC 60079-0, EN 60079-18, EN 60079-7 and 60079-31
- EX II 2 G Ex eb mb IIC T4 Gb
  II 2 D Ex tb IIIC T110°C Db
  Ta -50°C to +45°C to +65°C (dependent on model type)

Technical Specifications

- Supplied with LFX1-AB.
- Simple design for quick and easy installation.
- Two versions available: 12 or 16 LED arrays.
- A robust, durable aluminium body with strengthened glass for long life and resistance to damage.
- Ultra-long-life LEDs, configured to give a protected L70 figure of 145,000 hours.
- Options for light output range from 6,483 lumens to 12,996 lumens, allowing you to choose based on your specific light level requirements.
- Available in beam angles of 36°, 45°, 62°, and 102°, enabling you to direct the light where needed.
- 5000K white light provides bright, crisp lighting, perfect for general work area illumination.

Warranty and Technical Support

- **Warranty:** 2-year manufacturer's warranty.
- **Official Support:** Original spare parts and professional technical service are provided through IST Safety Ltd, the official distributor of Wolf in Turkey.

Standards

Ex-Proof (ATEX)

IECEx

TECHNICAL DETAILS

PRODUCT REFERENCE	LFX1S-12-55	LFX1S-12-65	LFX1S-16-45	LFX1S-16-55
CODE	II 2 G D Ex eb mb IIC T4 Gb Ex tb IIIC T110 °C Db			
CERTIFICATION	ExVeritas 19 ATEX 0586X IECEx EXV 19.0079X ExVeritas 21 UKEX 0939X			
Input Voltage Range	88 - 140V AC; 180 - 277 VAC			
Input Power	67.5W	45W	90W	60W
Frequency	50 - 60 Hz			
Power Factor	>0.90	>0.90	>0.95	>0.95
Enclosure Size	Small			
Lumen Output (Max)*	9,724	6,483	12,996	8,644
LEDs	12 LED	12 LED	16 LED	16 LED
Beam Angles	Narrow (36°), Medium (45°), Wide (62°), Ultra Wide (102°)			
Ingress Protection	IP66/IP67***			
Gas Temp. Class	T4			
Weight	9.5kg			
Colour Temperature	5000K			

- Lumen output figures stated for 230V AC
- LFX1S-12-55 and LFX1S-12-65 do not have through wiring capability
- IP rating dependent upon gland fitted

What is ATEX Lighting?

What is ATEX and what does exproof mean? The **ATEX directive** is a set of European Union standards that define the safety requirements for equipment used in hazardous areas with explosive atmospheres. **Exproof** (Explosion-proof) refers to protection methods designed to prevent explosions by inhibiting the formation of sparks or electrical arcs in environments containing flammable gases, dust, or vapors. To ensure life and property safety in industrial facilities, the use of **ATEX-certified exproof devices** is a legal requirement.

What is ATEX Zone Classification?

ATEX Zone coding is a technical classification based on the frequency and duration of the occurrence of an explosive atmosphere in a given area. While the terms **Zone 0, 1, and 2** are used for risks originating from gas, vapor, and mist; the codes **Zone 20, 21, and 22** are designated for environments containing combustible dust. This classification is a legal standard that determines the required Equipment Protection Level (EPL) for devices. Accurate zone identification both optimizes operational costs and minimizes occupational safety risks.

What is IECEx Certification? How Does it Differ from ATEX?

In addition to ATEX certification, some projects may also require the IECEx Certification System (International Electrotechnical Commission Explosive Atmospheres System) certification. IECEx is an internationally recognized conformity assessment system for equipment intended for use in explosive atmospheres.

While ATEX is a European Union directive and a legal requirement within the European market, IECEx is a globally accepted certification system, widely preferred in regions such as the Middle East, Asia, and Australia.

From a technical perspective, both ATEX and IECEx are based on similar standards (e.g., the EN/IEC 60079 series). However:

- ATEX is a mandatory legal directive, whereas
- IECEx is an international certification system (voluntary, but widely required)

Therefore, while ATEX certification may be sufficient for certain projects, international tenders or critical industries such as oil & gas often prefer or require products that are certified to both ATEX and IECEx standards.

The appropriate certification should be determined based on the project location, client requirements, and application area.