Wolf® LFX2 Floodlite Ex-Proof

The Wolf LFX2 LED Floodlite is an ultra-durable, modular ex-proof projector engineered to meet high-intensity lighting requirements in hazardous locations. Offered by **IST Safety Ltd, the official distributor of Wolf**, this model builds on the robustness of the LFX1 series, doubling the performance with a powerful 4,300-lumen output to ensure superior visibility across wider areas.

Certified for Zone 1/21, the LFX2 is constructed with a corrosion-resistant cast aluminum body and toughened, impact-resistant glass designed to withstand the harshest industrial environments. With an IP66/67 ingress protection rating, it operates reliably in both dusty conditions and environments exposed to high-pressure water jets. Utilizing "Light for Life" LED technology, it provides a lifespan exceeding 100,000 hours, significantly reducing maintenance costs and guaranteeing operational continuity.

Usage areas

- **Oil & Gas:** Wide-area illumination in refineries, tower inspections, and maintenance during shutdowns.
- **Shipyards and Marine:** Lighting for large cargo holds during shipbuilding and maintenance works on decks.
- **Petrochemical and Chemical:** General site lighting for large-scale facilities processing flammable and combustible chemicals.
- **Infrastructure and Tunneling:** Underground tunnel projects and mining service points with explosive atmosphere risks.

Certification & Compliance

- The LFX2 Floodlite™ is perfect for safely lighting large Hazardous Areas that need wide, even light coverage.
- It is ATEX, IECEx, and UKEX certified for Zones 1, 2, and 21, 22.
- It offers 4 different beam angles to suit various applications.
- The LFX2 is IP66/67 certified and comes with a full range of fixing accessories.

- T4 temperature class

- It 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 LFX2-AB.
- Simple design ensures quick and easy installation.
- Two versions available: 24 or 32 LED arrays.
- Robust and durable aluminium body with strengthened glass for long life and damage resistance.
- Ultra-long-life LEDs, with a projected L70 figure of 145,000 hours.
- Light output options up to 25,932 lumens, allowing you to choose based on your specific light level needs.
- Available in beam angles of 36°, 45°, 62°, and 102°, enabling you to direct the light where it's needed.
- 5000K white light provides bright, crisp illumination, perfect for general work areas.

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	LFX2S-24-50	LFX2S-24-60	LFX2S-32-50	LFX2S-32-55
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	135W	90W	180W	120W
Frequency	50 - 60 Hz			
Power Factor	>0.95	>0.95	>0.95	>0.95
Enclosure Size	Large			
Lumen Output (Max)*	19,449	12,996	25,932	17,288
LEDs	24 LED	24 LED	32 LED	32 LED
Beam Angles	Narrow (36°), Medium (45°), Wide (62°), Ultra Wide (102°)			
Ingress Protection	IP66/IP67***			
Gas Temp. Class	T4			
Weight	15.5kg			
LOWER TEMP.LIMIT	-50°C			
UPPER TEMP.LIMIT	50°C	60°C	50°C	55°C

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.