Wolf® LINKEX™ WF-250XL LED FLOODLITE

The Wolf WF-250XL LinkEx LED Floodlite is a high-performance, modular **next-generation** ex-proof projector designed to provide wide-area illumination in hazardous locations. Offered by **IST Safety Ltd, the official distributor of Wolf**, this model serves as a highly efficient alternative to traditional 250W and 400W halogen lamps, delivering over 6,300 lumens of powerful light output with significantly lower energy consumption.

A key feature of the device is the "LinkEx" technology, which allows multiple floodlights to be daisy-chained together, enabling the illumination of large sites from a single power source. Certified for Zone 1/21, the WF-250XL combines a lightweight 6 kg design with impact-resistant polycarbonate glass and an IP66/67 ingress protection rating, making it the ideal choice for demanding environments ranging from shipyards to oil refineries.

Usage Areas

- **Oil & Gas:** Large-scale maintenance works, refinery shutdowns, and internal tank inspections.
- **Marine & Shipyards:** Shipbuilding processes, cargo hold lighting, and blasting/painting operations.
- **Petrochemical:** Temporary illumination of chemical storage facilities and hazardous material processing areas.
- **Heavy Industry:** Power plants, large-scale manufacturing sites, and technical service operations.

The LinkEx™ WF-250XL LED Floodlite™ provides optimal lighting for smaller hazardous area confined spaces using its innovative and patented light engine. It is ideal for 24V applications with limited power supply, allowing up to 8 ATEX LED floodlights to be used in different strings from a single Wolf transformer.

Certification

- Certified for safe use in Zone 1, T4, IIC hazardous gas, vapour, mist, or dust environments.
- Suitable for ambient temperatures from -40°C to +55°C.
- The LinkEx™ WF-250XL LED Floodlite™ provides optimal light for smaller Hazardous Areas and

confined spaces.
- It uses an innovative and patented light engine.
- Ideal for 24V applications.
- Perfect for situations with a limited power supply.
- Up to 8 WF-250XL Floodlites can be powered by a single 400VA Wolf transformer.
- Complies with the EN60079-0,EN60079-7,EN60079-18 and EN60079-31 standards.
- Groups IIA, IIB and IIC
- EX II 2 G D
  Ex eb mb IIC T4 Gb
  Ex tb IIIC T118°C Db
  Ta= -40°C to +55°C or
  Ta= -40°C to +40°C when the optional protective cover is fitted.

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

CE 0598

TECHNICAL DETAILS

- Innovative light engine: Patented design for optimal performance.
- LED light output:
  HV: 4,334 lumens (source), 3,189 lumens (emitted)
  LV: 4,224 lumens (source), 3,065 lumens (emitted)
- Ideal for confined spaces: Minimal glare and shadows for better visibility.
- Long lifespan: LEDs last 100,000+ hours with efficient heat dissipation.
- Energy efficient: Low power consumption (HV: 31W, LV: 28W).
- Connection flexibility: Up to 8 lights can be powered from one transformer.
- Durable construction:
  Marine grade aluminium, toughened glass lens, 316 stainless steel frame.

Easy to clean, resistant to dirt, scratches, impact, and chemicals.

- Water and dust resistant: IP66/67 rating for tough environments.
- Compliant with ATEX & IECEx standards including optical intrinsic safety.

LINKEX™ WF-250XL LED FLOODLITE		
PRODUCT REFERENCE	**WF-250XL**	
PRODUCT DESCRIPTION	LinkEx™ LED Floodlite	
CODE	II 2 G D Ex eb mb op is IIC T4 Gb Ex tb op is IIIC T118°C Db	
TYPE OF PROTECTION	'eb' increased safety 'mb' encapsulation 'tb' enclosure protection	
AREA OF CLASSIFICATION	Zones 1 and 2, Gas Groups IIA, IIB and IIC	
TEMP. CLASSIFICATION	T4	
AREA OF CLASSIFICATION (DUST)	Zones 21 and 22, Dust Groups IIIA, IIIB and IIIC	
MAX SURFACE TEMP (DUST)	T118°C	
AMBIENT TEMPERATURE	-40°C to +55°C	
CERTIFICATE	CML 18ATEX3372X IECEx CML 18.0198X	
VOLTAGE	18-50V AC / DC	90-264V AC / DC
POWER	28w	31w
ENCLOSURE	Marine grade aluminium alloy, epoxy powder coated	
LENS	Toughened Glass	

BEAM TYPE		Medium Flood
Light Source	**TYPE**	18 x White High Power LEDs
	LIFE	100,000+ hrs
	OUTPUT AT LED SOURCE (LUMENS)	Up to 4,788
WEIGHT		5.4kg (excluding cable)
INGRESS PROTECTION		IP66/67
ACCESSORIES		Supplied with bridle and lamp stand

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.