



SLAM FIXED



ATEXOR Case Study

NESTE REFINERY

ATEX certified SLAM FIXED® WS luminaires

The WS product family was developed according to Neste Corporation's specific needs to improve both energy efficiency and safety under special conditions.

ATEXOR





The cooperation between Neste Corporation and Atexor Oy resulted in a lighting solution that improves not only energy efficiency but also safety.

Neste has a strong foothold in the fuel market, particularly in the Baltic Sea area, and the company is the largest producer of renewable diesel made from waste and residues. In addition to its fuel production, Neste is constantly developing new products and solutions, in order to better meet the needs of its customers.

In EX-hazardous areas, every detail is important and every risk must be prevented. Reliable, energy-efficient and Ex-certified lighting solution promotes the safety of each employee at the refinery.

Neste wanted to replace its old fluorescent tubes with new equipment that would have positive effects on safety, maintenance costs and the environment.

Neste chose Atexor Oy for several reasons: cost-effective, environmentally friendly LED technology, an established reputation for high quality and reliable deliveries of Ex luminaires, as well as Atexor's decades of experience in lighting EX-hazardous areas, to name a few.

From the beginning, it was clear what Neste needed was not standard lighting, but rather a joint development project that would culminate in a custom lighting solution.

The result was the SLAM FIXED WS product family, a market leading fixed lighting solution for hazardous areas with full ATEX certification. In addition, new LED certification requirements optical radiation or 'op is' (IEC60079-28) have also been taken into account.

"a joint development project that would culminate in a custom lighting solution"



SLAM FIXED® MZ2268 (one LED unit & pole fittings)

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Special aspects of the project included several occupational safety risks that needed to be addressed along with the more common tasks such as turning on lights and maintaining them in a cost-effective and safe manner. It was important to get rid of the hazards and maintenance of old light bulbs and fluorescent tubes.

Thanks to modern LED technology, SLAM FIXED® WS luminaires need notably less maintenance compared to previous equipment. The shock resistance of SLAM lights, which clearly exceeds the Ex requirements, along with the antistatic plastic parts, lead to further cost reductions and safety benefits.

The light from the luminaires is bright, precise and, thanks to the SafeEye® feature, non-irritating. The color of the light also matches the client's wishes.

The lights and fixtures have to endure a lot under the harsh Nordic circumstances. The products are encased within an extra shock-resistant Ex plastic cover. The luminaires are also certified, from -40 °C degrees, which makes them particularly well-suited for cold climates. And yet SLAM FIXED® WS luminaires remain exceptionally light-weight.

- Long life cycle with a reduced need for maintenance
- Safe, sufficiently strong but glare-free LED light with the SafeEye® feature
- Exceptionally light-weight for easy installation
- Shock resistance that clearly exceeds test standards
- Conducting cover made from durable, Ex-certified plastic
- Pre-prepared, adaptable installation kit – easy to install
- Optimal cold and heat properties in the northern climate
- ATEX certified
- The certificates already comply with IEC 60079-28 ("op is")
- Replaceable protective film (accessory)



"We carried out a comprehensive, long-term technical assessment on Atexor's products. We managed to test and solve several technical issues, and the outcome satisfies all our requirements," says **Timo Pietäinen Maintenance Manager, Electrical, Production Porvoo and Naantali. Neste Corporation**

Neste valued Atexor's ability to produce custom-made fittings. Factory-mounted fittings and cables make the installation quicker and easier, and after the collaborative development phase, the acid-proof steel was chosen as the installation kit material.



Atexor Oy has 30 years of experience in designing and developing ATEX & IECEx lighting and power supply solutions. In cooperation with the customer, Atexor finds the most economical solution, without compromising any safety elements. We are known for our ability to solve customers' hazardous area challenges in demanding time schedules.

Atexor is part of Teknopower Group. The group has subsidiaries and offices in Sweden, Russia, United Kingdom, Poland, United Arab Emirates, India, Malaysia and United States of America.