SHS Light Guide

Port installations

Sammode

SILL

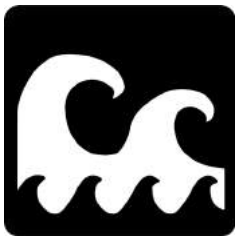
Lübeck Port, Germany.

THE BENEFITS

The lighting in port areas must be able to respond to numerous external constraints: Humidity, particularly aggressive saline environment, vibrations, installation at great heights on gantries or masts - all while providing reliable and high-quality performance in order to ensure the safety of users. In response to these numerous requirements, Sill and Sammode, who are specialists in high power lighting and lighting in difficult conditions respectively, offer robust, sustainable solutions and guarantee lighting levels and necessary uniformity.

Performance and efficiency

- Uniformity and lighting level over a very long range
- Optimisation of the amount of luminaires thanks to their lighting performance
- User safety as they are glare-free
- Reduction of light pollution



Resistance to marine atmospheres

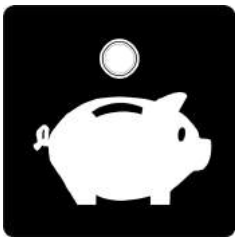
- Materials that are not sensitive to corrosion : aluminium ALSi12 with low copper content and 316 L stainless steel
- Completely water resistant IP65/IP68/69K

SHS Lighting Guarantee

Sammode and Sill are committing to delivering high-quality, long-lasting luminaires. All of our products enjoy a minimum 5-year guarantee, which can be extended to 8 years for models exposed to extreme environments.

Sustainable Solutions

- Reparability and interchangeability of components
- Electronic industrial components
- Mechanical design resistant to vibrations
- Long-life driver

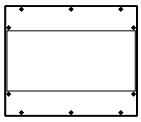


Optimisation of the Total Cost of Ownership

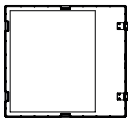
- Evolving modular design
- Sustainable and maintainable solutions
- Reduced installation and maintenance costs
- Luminaires with an exceptional service life

CONTAINER TERMINALS

Container terminals, Zeebrugge, Belgium.



SILL 176



SILL 177

SILL 153

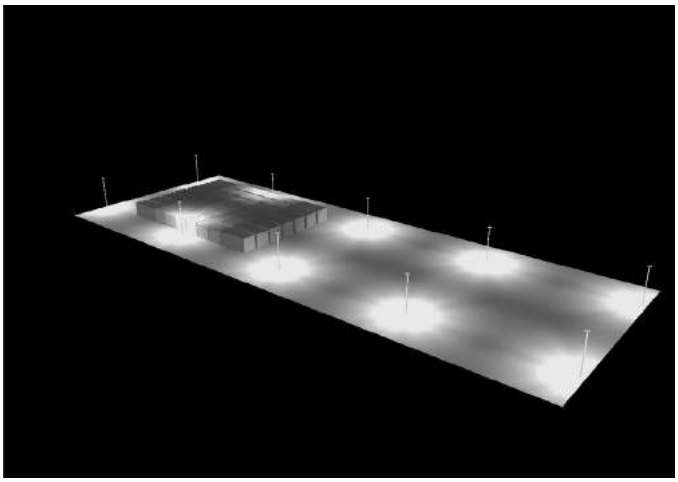
SILL 155

Areas of heavy traffic and handling, container zones require very specific lighting: safety must be guaranteed by a minimum illumination level for good visibility and optimal uniformity for visual comfort. Our luminaires equipped with LED technology limit the risks of glares by ensuring a homogeneous distribution of light.

Thanks to their long-range asymmetrical optics, Sill projectors limit the number of light points on new installations and reduce power in renovation — all while guaranteeing an unequalled level of uniformity. These optics reduce light pollution by ensuring a ULR = 0 (upward light ratio).

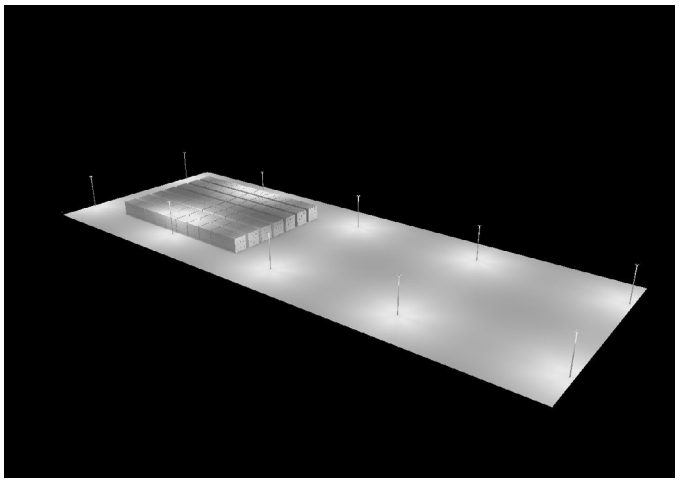
CASE STUDY

Before



Traditional source lighting 430 W

After



SILL 177 lighting 350 W

Amount of light points: 60

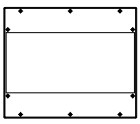
Amount of luminaires per mast: 6

Distance between each mast: 100 metres

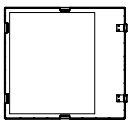
Installation height: 25 metres

	Traditional source	Sill 177	
Source	Metallic iodide	LED	
Power consumption (W)	430 W	350 W	18% lower energy consumption
Uniformity	0,150	0,5	

LOADING/UNLOADING DOCK



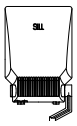
SILL 176



SILL 177

SILL 153

SILL 155



SILL 154

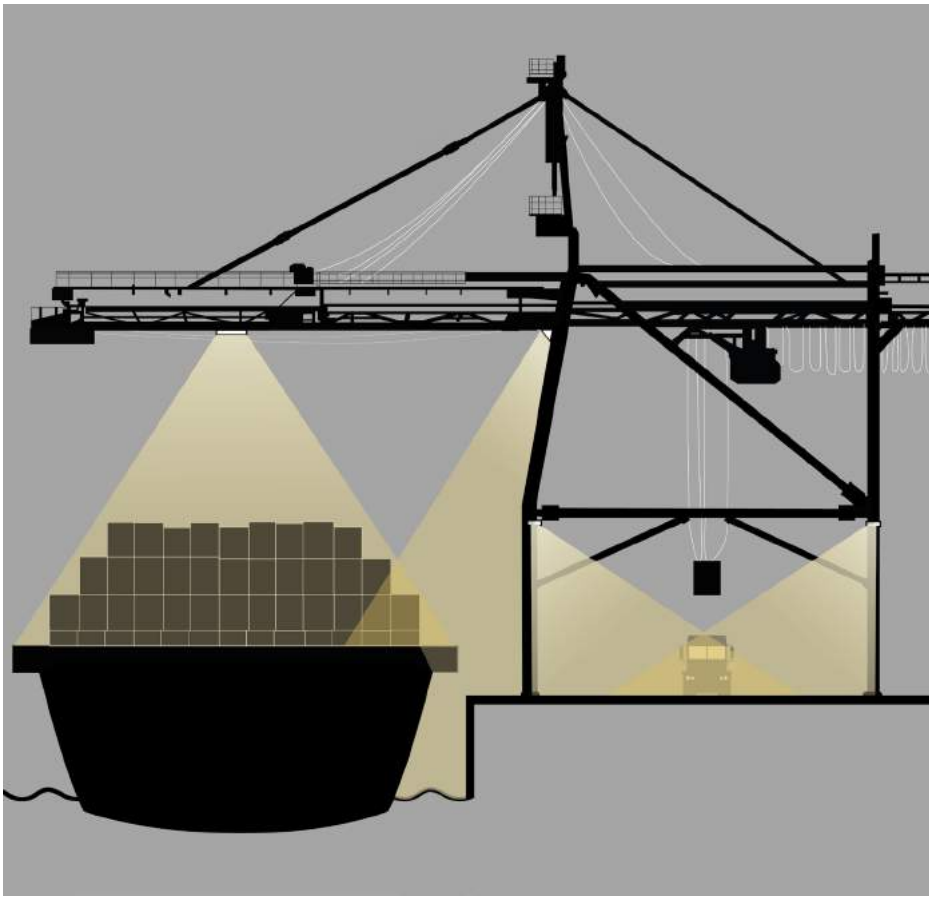
Cugnot

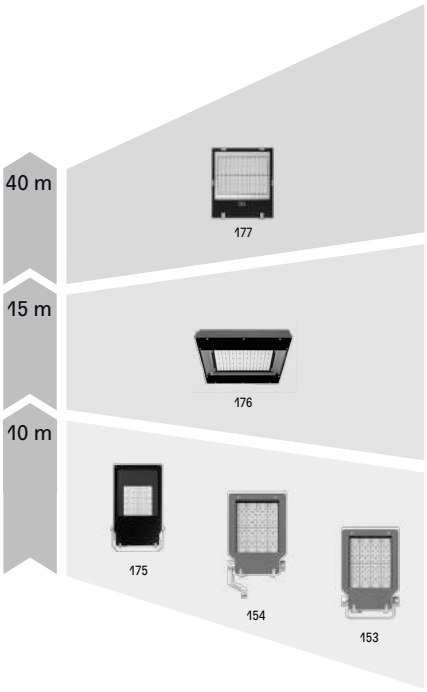
Maxwell

Installed on the gantries and unloading cranes, luminaires face extreme conditions: saline environments, vibrations, humidity and shipping seas. The materials from Sill and Sammode products are selected to resist saline: 316L stainless steel and low copper content (aluminium AlSi12) which are naturally not sensitive to corrosion phenomena.

The projectors and their tailored optics - intensive, extensive and asymmetrical - can reach a good illumination level depending on the height of the installation or the zone requiring illumination, from the dock to the bilge.

QUAYSIDE CONTAINER CRANE





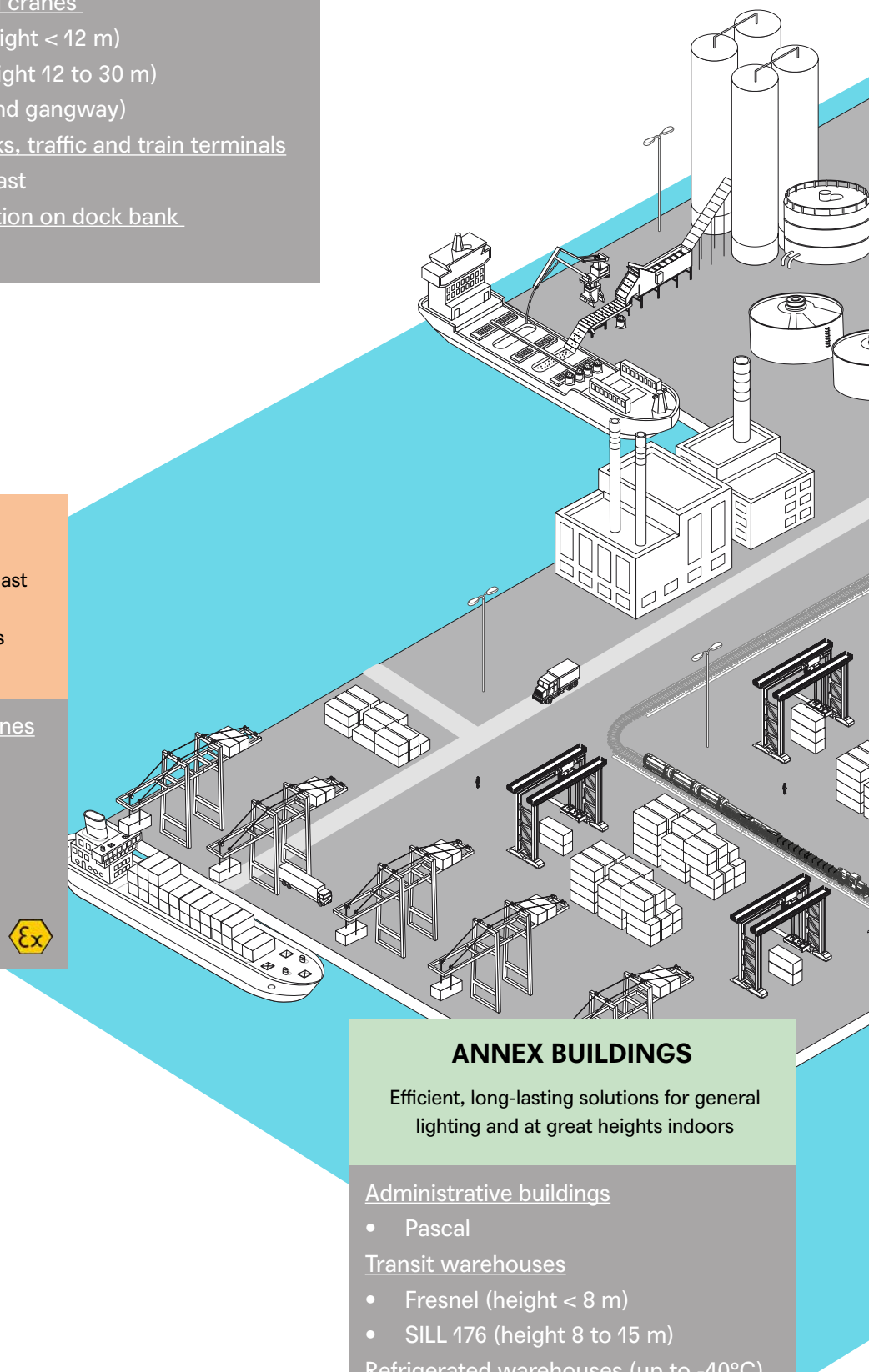
LOADING DOCK

A vast array of highly efficient lighting solutions,
for reliable and effective illumination
from the docks to the bilge

Gantries and loading cranes
- SILL 153, 155 (height < 12 m)
- SILL 176, 177 (height 12 to 30 m)
- Cugnot (stairs and gangway)

Approaches for docks, traffic and train terminals
- SILL 154, on a mast

Low-angled illumination on dock bank
- Fresnel



CONTAINER TERMINAL

High-performance, efficient, made-to-last
solutions dedicated to lighting
of intensive activities in large spaces
requiring a high level of security

Projectors on masts in container zones
- SILL 176, 177

Mounted on gantries
- SILL 153, 155, 176
- Cugnot

Emergency lighting
- Maxwell

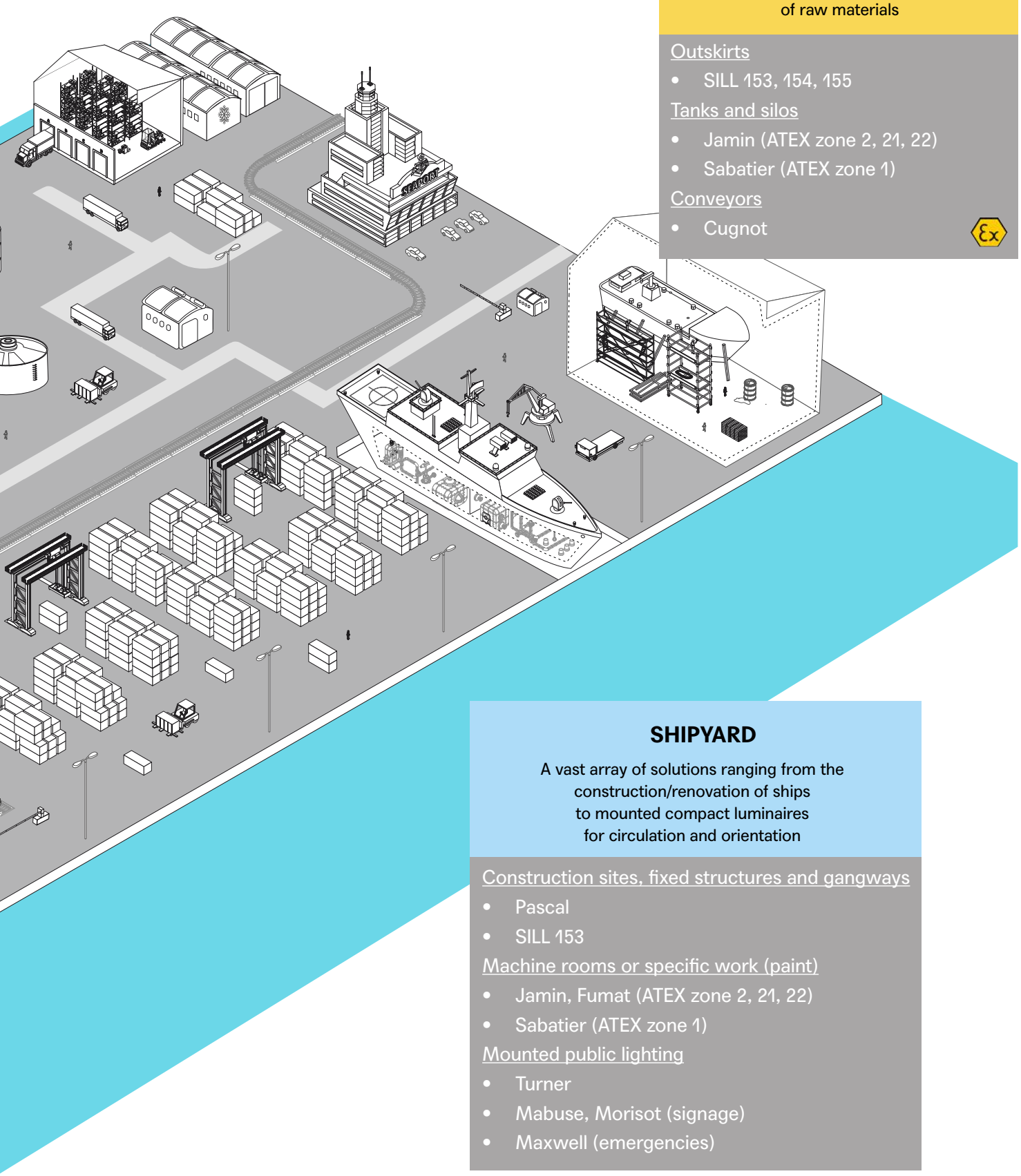
ANNEX BUILDINGS

Efficient, long-lasting solutions for general
lighting and at great heights indoors

Administrative buildings
- Pascal

Transit warehouses
- Fresnel (height < 8 m)
- SILL 176 (height 8 to 15 m)

Refrigerated warehouses (up to -40°C)
- Bering, Barents
- Maxwell BT



SPECIFIC TERMINALS

Reliable and robust solutions dedicated to conveyance and stocking zones of raw materials

Outskirts

- SILL 153, 154, 155

Tanks and silos

- Jamin (ATEX zone 2, 21, 22)
- Sabatier (ATEX zone 1)

Conveyors

- Cugnot

SHIPYARD

A vast array of solutions ranging from the construction/renovation of ships to mounted compact luminaires for circulation and orientation

Construction sites, fixed structures and gangways

- Pascal
- SILL 153

Machine rooms or specific work (paint)

- Jamin, Fumat (ATEX zone 2, 21, 22)
- Sabatier (ATEX zone 1)

Mounted public lighting

- Turner
- Mabuse, Morisot (signage)
- Maxwell (emergencies)

SPECIFIC TERMINALS

Port of Nantes

Jamin

Sabatier

Cugnot

Bulk materials, whether they are dry or liquid, require specific modes of handling. Petrochemicals, aggregates, grain and other goods need to be loaded and unloaded using conveyor systems.

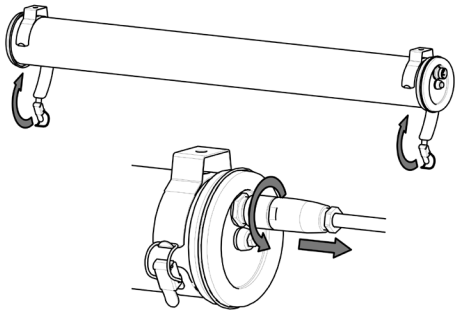
Lighting in these areas requires specific solutions, particularly in ATEX explosive zones (hydrocarbons, cereals). The luminaires must also be able to withstand strong vibrations and erosion in the conveyor zones.

The range of Sammode tubular luminaires covers standard lighting as well as ATEX zone 1, 2, 21, and 22.

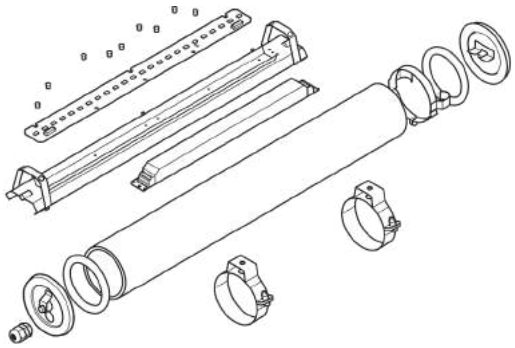
In compliance with the severe requirements of EN 60598-1 (tests in accordance with IEC 60068-2-6) and IK10, our tubular luminaires are designed to withstand heavy vibrations and shocks, thus ensuring the sustainability of the installation.

Thanks to their ergonomic and light design they are distinguished by their great ease of installation.

An added benefit is that they are entirely maintainable. All parts of the luminaire can be replaced on site.



Plug and play installation concept

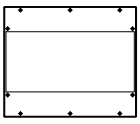


Modular concept

SHIPYARDS

Port of Nantes Saint-Nazaire

SILL 153



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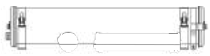

Sabatier

Maxwell

The illumination of shipyards is characterised by the large dimensions, especially in height, of the structures on which the luminaires rest. These must be light, very flexible in their installation but also powerful enough to illuminate these great heights.

Shipyard lighting has to meet very different needs going from great height lighting to extra lighting or even of ATEX zones for painting areas.
Aesthetic and functional, Sammode tubular luminaires are also suitable for illuminating the ships themselves for safety lighting, mark-up lighting or external deck lighting.

Photo credit : mf-guddy, primeimages

BELGIUM
Duisburger Hafen
Port Zeebrugge

FRANCE

Grand port maritime de Rouen
Port of St Nazaire
Port of Bordeaux - Lumignon, Bordeaux
Port of The Hague

GABON

Comilog - Owendo Port

GERMANY

SWRN (Sekundärwertstoff-Recycling-Hafen-Nürnberg)

(GERMANY)
Duisburger Hafen
Speicher Hafen
Hafen Wismar
Hafen Stralsund
Hafen Wiek
Hafen Brake
Hafen Hamburg
Seehafen Rostock

NETHERLANDS

CRO Ports Vlissingen

UNITED KINGDOM

Port Killingholme