SHS Light Guide

Port installations

Sammode

SILL

Port of Hamburg, Germany

Performance and efficiency

- Uniformity and lighting level over a very wide range
- Minimum quantity of luminaires due to their high performance
- Improved User Safety due to the reduction of glare
- No upward light spill

Resistance to marine atmospheres

- Materials that are not sensitive to corrosion: ALSi12 aluminium with low copper content and 316L stainless steel
- IP Ratings to provide complete water resistance in each application. Sammode tubular range has an IP68 / IP69K rating

The Benefits

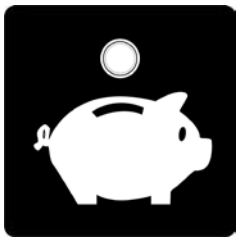
Lighting in port areas must be capable of withstanding various environmental demands: Humidity, particularly aggressive salt environment, temperature and UV degradation. Further difficulties are vibrations or installation at great heights on gantries or masts - all while providing reliable and high-quality 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 demanding conditions, offer robust, sustainable solutions and guarantee lighting levels and necessary lighting uniformity.

The Guarantee Sammode and Sill

Sammode and Sill are committing to delivering high-quality, long-lasting luminaires. All our products are supplied with a minimum 5 year guarantee even in extreme environments. Selected Sammode tubular fixtures are supplied with an 8 year guarantee.

Sustainable Solutions

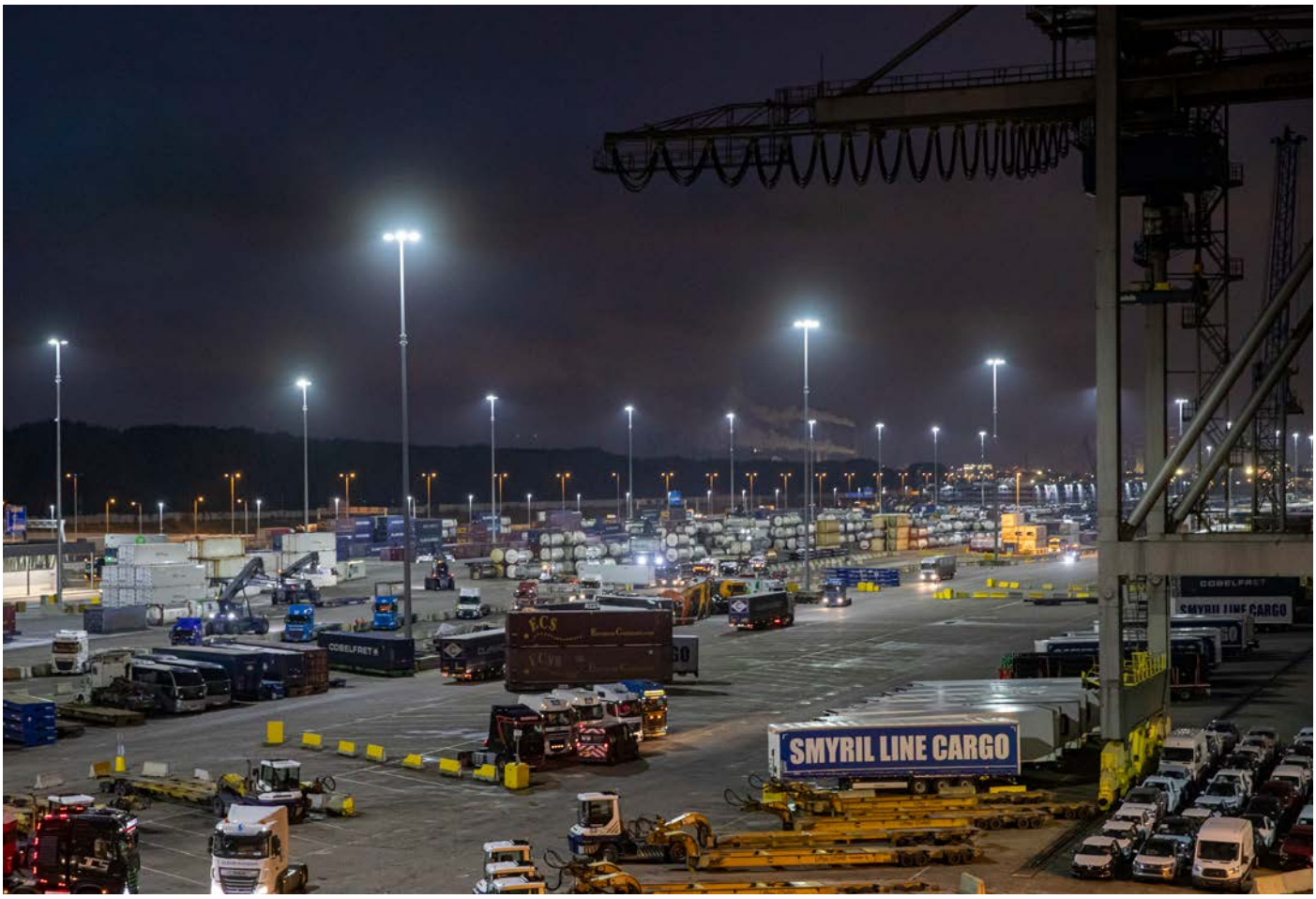
- All components can be maintained as needed
- Industry rated components
- Mechanical design resistant to vibrations



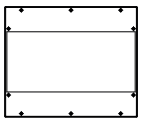
Optimisation of the Total Cost of Ownership

- Replaceable components maximise the total fixture life
- Sustainable and maintainable solutions
- Reduced installation and maintenance costs

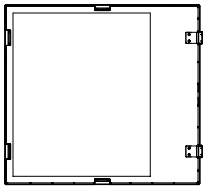
Container Terminals



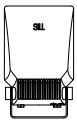
Port of Rotterdam, Netherlands



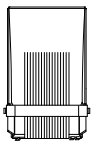
SILL 176



SILL 177



SILL 153

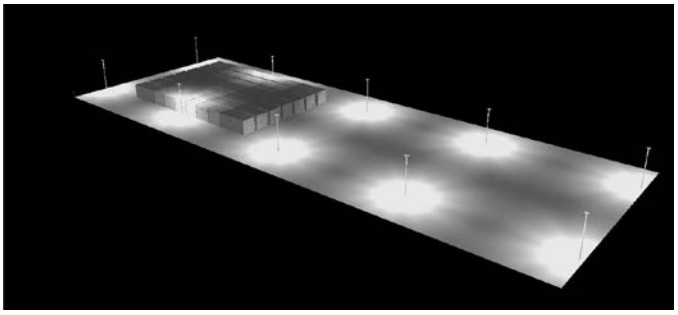


SILL 155

Container zones are areas of heavy traffic and handling and require very specific lighting: safety must be guaranteed by a minimum illumination level for good visibility and uniformity for visual comfort.
Our luminaires are equipped with LED technology that limits the risks of glare by ensuring a homogeneous distribution of light. Thanks to their long-range asymmetrical optics, Sill projectors limit the number of fixtures on new installations and reduce total power consumption — whilst providing a high level of lighting uniformity.
These optics reduce light pollution by ensuring a ULR of 0 (Upward Light Ratio).

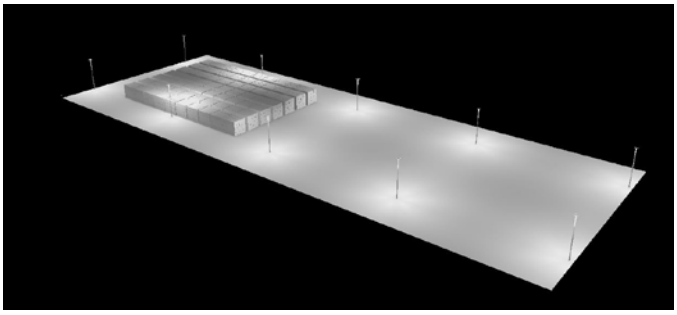
Case Study

Before



Traditional source lighting 430 W

After



SILL 177 lighting 350 W

Amount of light points: 60

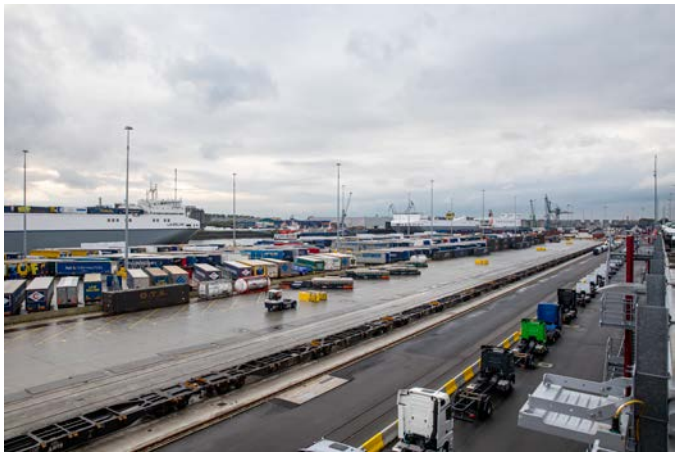
Amount of luminaires per mast: 6

Distance between each mast: 100 metres

Installation height: 25 metres

	Traditional source	Sill 177	Advantages
Source	Metal Halide	LED	Lifetime
Power consumption (W)	430 W	350 W	18% lower energy consumption
Uniformity	0,150	0,5	Uniformity x 3

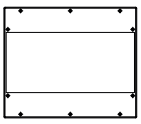
Daylight Conditions



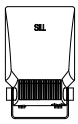
Night Conditions

Loading Docks

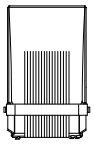
Port installations



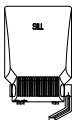
SILL 176



SILL 153



SILL 155



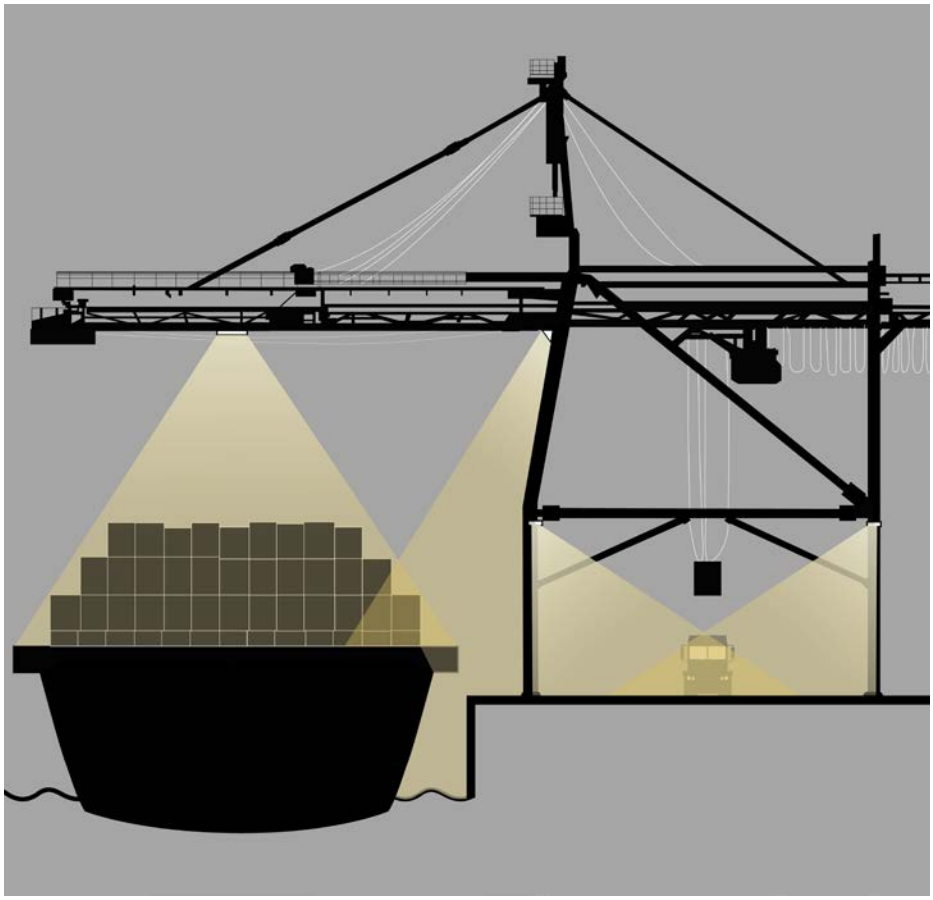
SILL 154

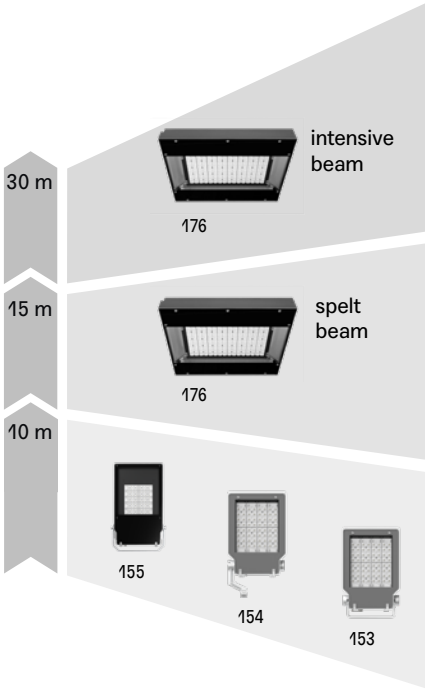
Cugnot

Maxwell

Installed on the gantries and cranes, luminaires face extreme conditions: saline environments, vibrations, humidity and stormy seas. The materials from Sill and Sammode products are selected to be salt resistant:
316L Stainless Steel and low copper content aluminium (AlSi12) which are higher resistant to corrosion.
The projectors and their engineered optics - intensive, extensive and asymmetrical - can provide lighting solutions from the Dock to the Bilge, depending on the mounting height and area to the illuminated.

Quayside Container Crane





SPECIFIC TERMINALS

Reliable and robust solutions dedicated to Conveyor and Stock Piles of raw materials

Outskirts
- SILL 153, 154, 155

Tanks and silos
- Jamin (Hazardous Areas 2, 21, 22)
- Sabatier (Hazardous Areas 1)

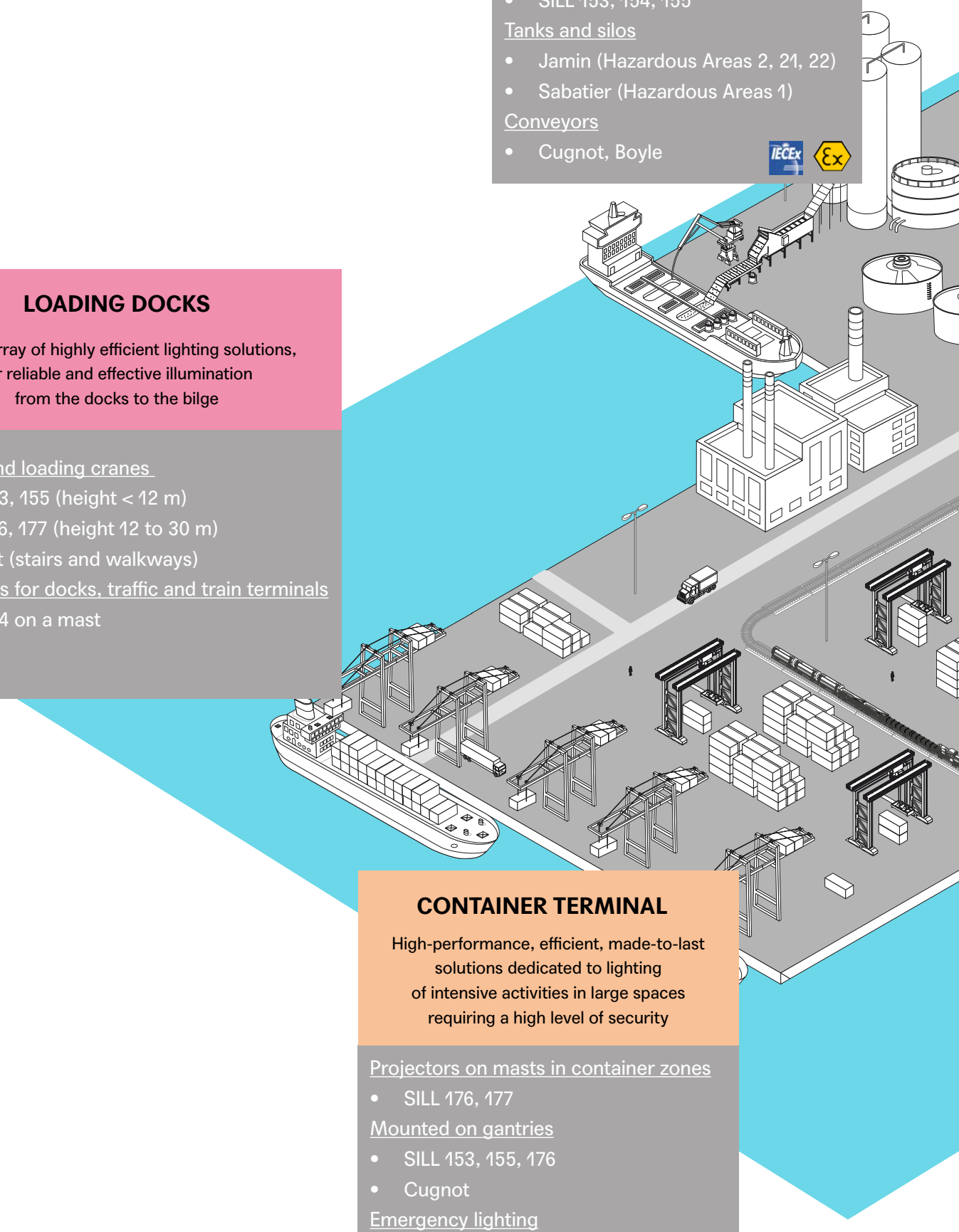
Conveyors
- Cugnot, Boyle

LOADING DOCKS

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 walkways)

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



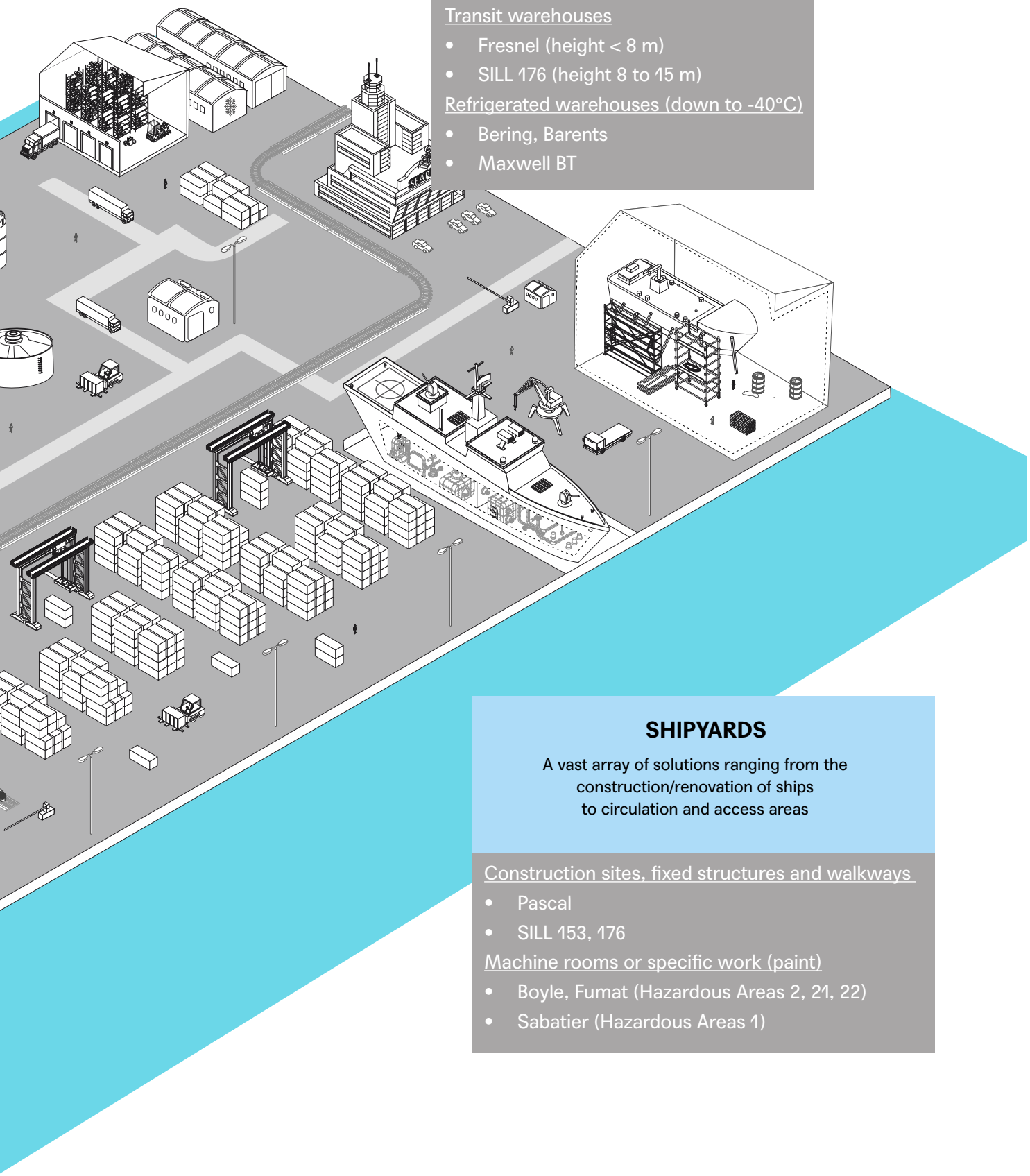
CONTAINER TERMINAL

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



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 (down to -40°C)
- Bering, Barents
- Maxwell BT

SHIPYARDS

A vast array of solutions ranging from the construction/renovation of ships to circulation and access areas

Construction sites, fixed structures and walkways
- Pascal
- SILL 153, 176

Machine rooms or specific work (paint)
- Boyle, Fumat (Hazardous Areas 2, 21, 22)
- Sabatier (Hazardous Areas 1)

Specific Terminals

Port of Nantes, Saint-Nazaire, coal conveyor

Boyle

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.

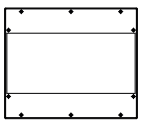
Lighting in these areas requires specific solutions, particularly in hazardous areas (hydrocarbons, cereals). The luminaires must also be able to withstand strong vibrations and abrasion in the conveyor zones.

The range of Sammode tubular luminaires covers standard lighting as well as Hazardous 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. They are entirely maintainable, which is an added benefit. All parts of the luminaire can be replaced on site.

Shipyards

Port of Nantes Saint-Nazaire

SILL 153



SILL 176

Sabatier

Maxwell

Shipyards are characterised by the large dimensions, especially in height, of the structures the luminaires are installed on. These must be lightweight, very flexible in their installation and also powerful to illuminate from these great heights.
Shipyard lighting has to be suitable for the differing demands and applications; high mounting heights, task lighting or even hazardous zones around painting areas.
Sammode tubular luminaires are also suitable for illuminating the ships themselves for safety lighting, signage lighting or deck lighting.

Sammode

Sustainable and high-performance lighting

Cugnot, Bering

Pascal

Turner

Sabatier

Jamin

Boyle

Maxwell

Mabuse / Morisot

Fresnel, Barents, Fumat

Options and Accessories

Stainless Steel protective cover

Shock-resistant fixing strap

Nickel-plated brass cable gland

Double cable entry for loop in loop out

SILL

- Loading Docks
- Container Terminals
- Buildings
- Shipyards
- Specific Terminals

High-performance projectors

177

176

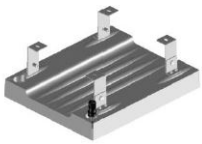
155

154

153

Options and Accessories

Connector for loop in loop out



Angle bracket

Swivel bracket

Suspension kit

Photocredits:

©Industrielicht, ©André Bocquel, ©mf-guddy, prime images, ©pixabay

References

AUSTRALIA
Port Dalrymple Bay Coal Terminal

BELGIUM
Port Zeebrugge

FRANCE
Grand port maritime de Rouen
Plaque portuaire Bordeaux
Port de Brest
Port de Lorient
Port de Nantes Saint-Nazaire
Port de Vannes

GABON
Comilog Port of Owendo

GERMANY
Berliner Hafen- und Lagerhausgesellschaft GmbH
Duisburger Hafen
Hafen Brake
Hafen Hamburg
Hafen Stralsund
Hafen Wiek
Hafen Wismar
Seehafen Rostock
Speicher Hafen
SWRN (Sekundärwertstoff-Recycling-Hafen-Nürnberg)

NETHERLANDS
CRO Ports Vlissingen
Port of Rotterdam
Port of The Hague

SCOTLAND
Port of Ayr

UNITED KINGDOM
Port Killingholme

Sammode, Hoffmeister and Sill form a new alliance:
SHS Lighting, the European specialist in technical lighting.

Industrial and family-owned, our three companies share decades of expertise, innovation and excellence. Our lighting expertise sets the benchmark. It defines our uniquely high standards, allowing us to guarantee the precision, performance, reliability and long-term robustness of all our products, with the utmost flexibility and a particular attention to design.

We are at the same time designers, manufacturers and technical advisors. When clients choose one of our products, they get more than a light fixture: they acquire intelligence and service.

Contact

Sammode, Hoffmeister, SILL

Principal office France
24, rue des Amandiers
75020 Paris
T +33(0) 1 43 14 84 90

info@sammode.com
enquiry@sammode.com

Principal office Germany
Gewerbering 28-32
58579 Schalksmühle
T +49 (0) 23 55 50 41 0

mail@hoffmeister.de

sammode.com
studio.sammode.com
hoffmeister.de
sill-lighting.com

@sammode.lighting
@hoffmeister.lighting
@sill.lighting

Subject to changes.
©Sammode, Hoffmeister, Sill
02/2020.