

Light Guide

Port infrastructures



Sammode SILL

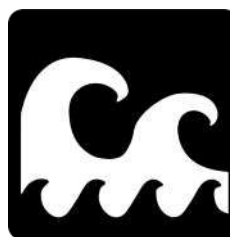


Port of Hamburg, Germany



Performance and efficiency

- Uniformity of lighting levels over a very long range
- Optimisation of the number of luminaires needed thanks to their lighting performance
- User safety because there is no glare
- Reduced light pollution



Resistance in marine environments

- Materials that are impervious to corrosion: aluminium ALSI12 with low copper content and 316L stainless steel
- Hermetically sealed IP65/IP68/69K

Why choose Sammode?

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 to ensure the safety of users. In response to these multiple requirements, Sill and Sammode, the specialists in high-power lighting and lighting in harsh environments, offer robust, sustainable solutions that guarantee the necessary levels and uniformity of lighting.

The Sammode guarantee

Sammode is committed to the quality and durability of its lighting solutions. Thanks to our experience in extreme environments, we can offer you long-lasting solutions with an up to 8-year guarantee in 24/7 intensive operation.



Long-lasting, repairable solutions

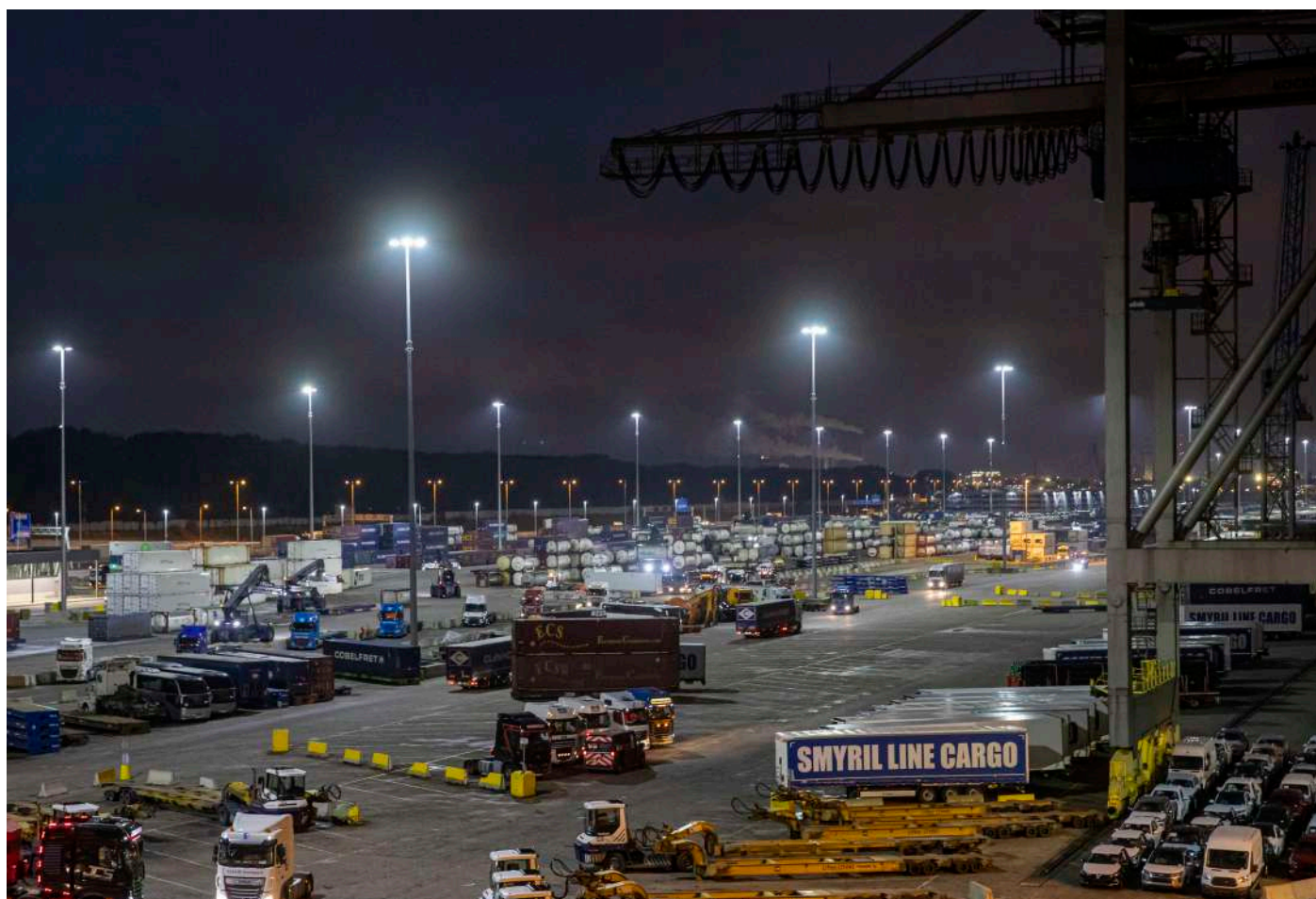
- Repairability and interchangeability of components
- Industrial electronic components
- Mechanical design resistant to vibrations



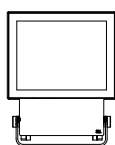
Optimised total cost of ownership

- Minimal energy consumption
- Reduced installation and maintenance costs
- Exceptional service life of our luminaires

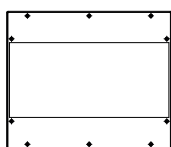
Container terminal



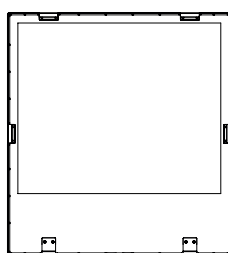
Port of Rotterdam, Netherlands



SILL 48L



SILL 176



SILL 177

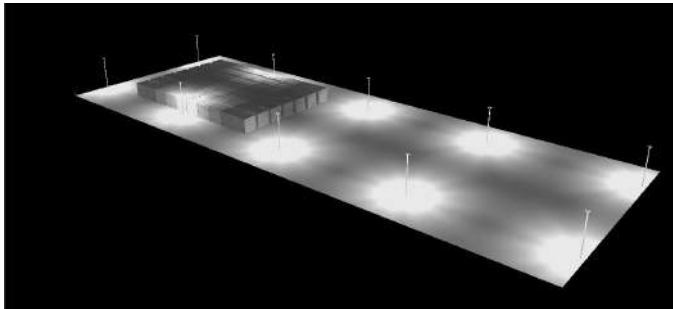


CUGNOT

As areas of heavy traffic and handling, container zones require very specific lighting: safety must be guaranteed with the need for minimum lighting levels providing good visibility and optimal uniformity for visual comfort. With their LED technology, our luminaires limit the risks of glare by ensuring homogeneous distribution of light output. Thanks to their long-range asymmetrical optics, Sill projectors enable the number of light points on new installations to be kept to a minimum and the power consumption in renovation projects to be reduced. All this while guaranteeing an unequalled level of lighting uniformity. These optics reduce light pollution by ensuring a ULR (upward light ratio) equal to 0.

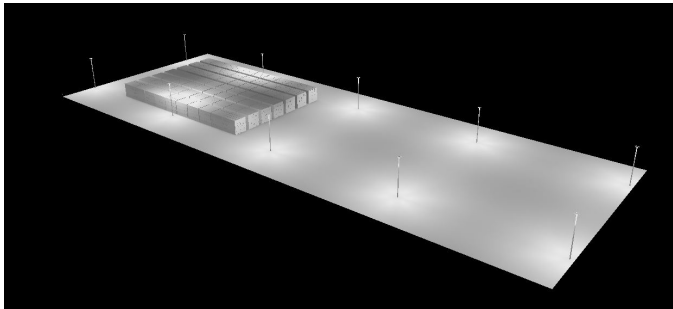
Case study

Before



Traditional source lighting: 430 W

After



Sill 177 lighting: 350 W

- Number of light points: 60
- Number of luminaires per mast: 6
- Distance between each mast: 100 metres
- Mast height: 25 metres

	Traditional source lighting	Sill 177	Benefits
Source	Metallic iodide	LED	Service life x 5
Power consumption (W)	430 W	350 W	Energy savings 20%
Uniformity	0.150	0.5	Uniformity x 3

Day



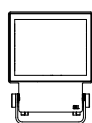
Night



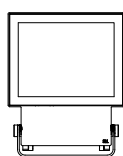
Loading/Unloading dock



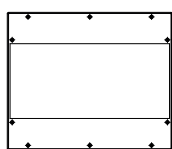
Port infrastructures



SILL 48M



SILL 48L



SILL 176



CUGNOT

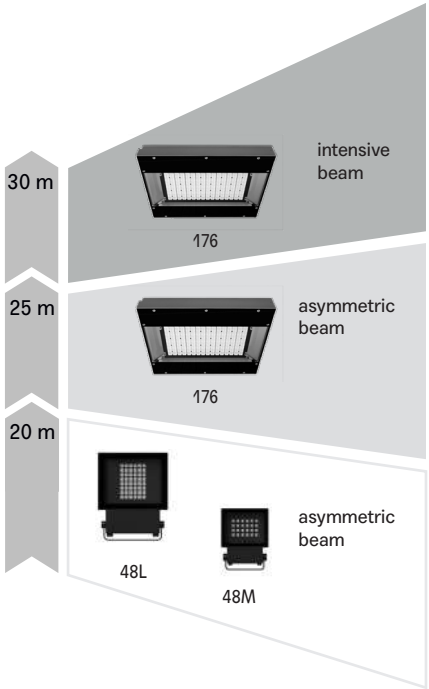
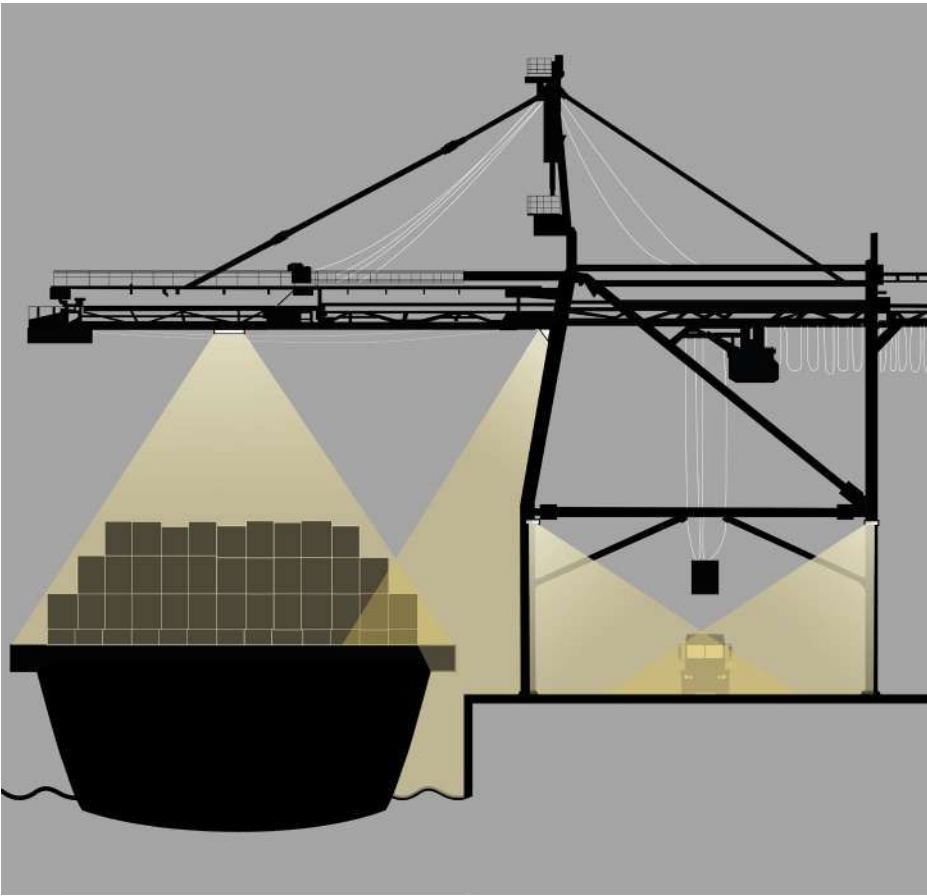


COULOMB,
MAXWELL

Installed on gantries and unloading cranes, luminaires face extreme conditions: saline environments, vibrations, humidity and wave splash. The materials used in Sill and Sammode products are selected to resist saline corrosion: 316L stainless steel and low copper content aluminium (AlSi12), which are naturally impervious to corrosion phenomena.

The projectors and their tailored optics—intensive, extensive and asymmetrical—can provide good illumination levels tailored to the height of the installation or the zone that requires lighting, from dockside to bilge tank.

Projectors on Ship/Shore Crane



BULK TERMINALS

Reliable and robust solutions suited to raw material conveyance and storage zones

Exterior approaches

- SILL 48

Conveyors

- CUGNOT
- BOYLE (ATEX zones 2, 21, 22)

Tanks and silos

- JAMIN (ATEX zones 2, 21, 22)
- SABATIER (ATEX zone 1)
- FUMAT (ATEX for great heights)



(UN)LOADING DOCK

A vast array of high-performance lighting solutions, for reliable, effective lighting from dock surrounds to bilge tank.

Gantries and loading cranes

- Heights < 20 m: SILL 48
- Heights 20-30 m: SILL 176
- CUGNOT (stairs and gangways)

Vicinity of docks, passageways and train terminal

- SILL 48

Emergency lighting

- COULOMB, MAXWELL

CONTAINER TERMINAL

Powerful and efficient, built-to-last solutions designed specifically for lighting intensive activity zones in large areas requiring a high level of security

Projectors on masts in the container zone

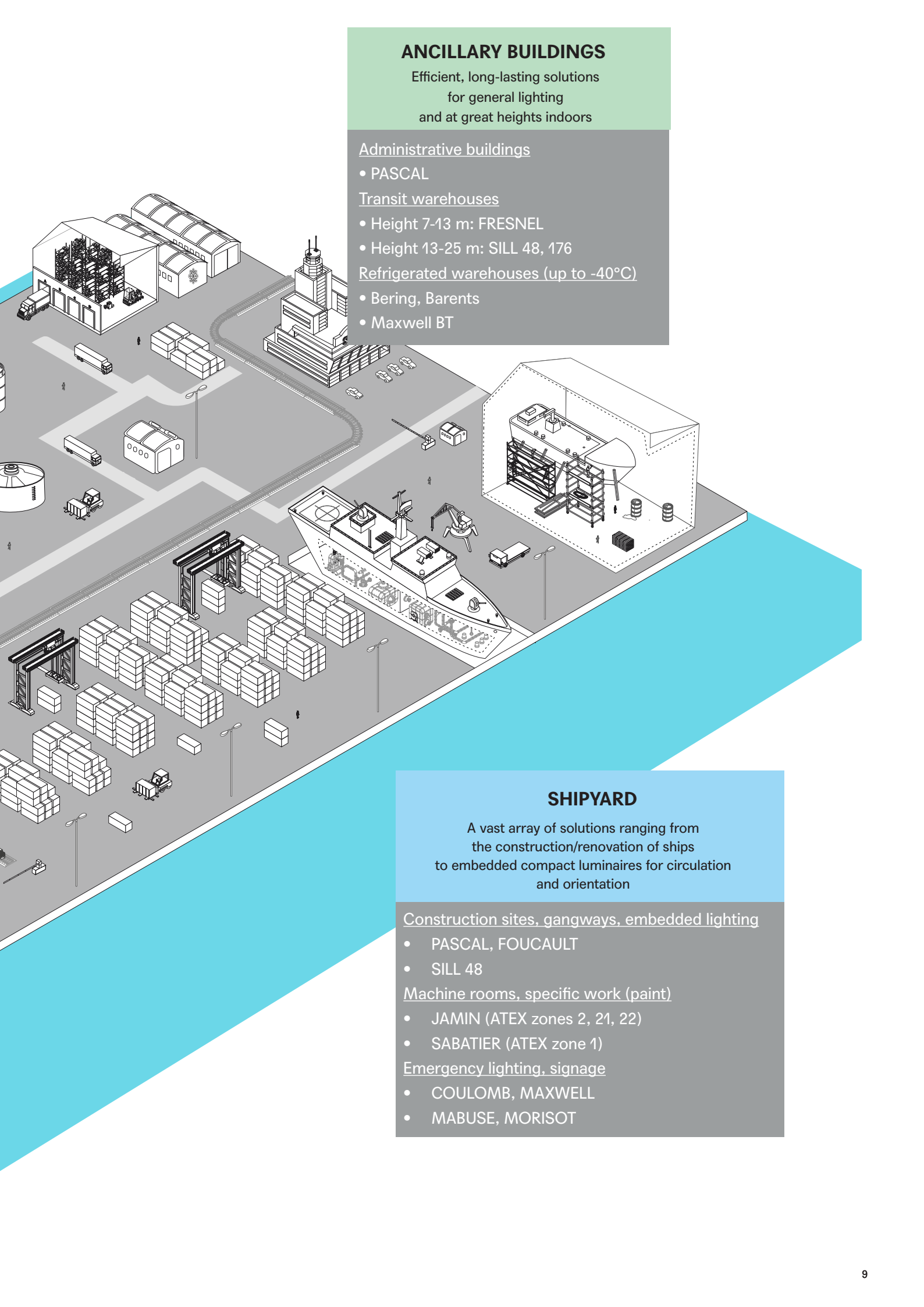
- SILL 176, 177

Mounted on gantries

- SILL 48, 176
- CUGNOT

Emergency lighting

- COULOMB, MAXWELL

An isometric line drawing of a shipyard. In the foreground, a large ship is docked at a pier. To the left of the ship, there are numerous stacks of rectangular blocks, possibly cargo or materials, with a crane nearby. Further back, there are several large industrial buildings, some with arched roofs. A road with a few cars and trucks runs through the middle ground. The background shows a body of water. The entire scene is rendered in a clean, technical style with black lines on a white background, with some blue shading for the water.

ANCILLARY BUILDINGS

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

Administrative buildings

- PASCAL

Transit warehouses

- Height 7-13 m: FRESNEL
- Height 13-25 m: SILL 48, 176

Refrigerated warehouses (up to -40°C)

- Bering, Barents
- Maxwell BT

SHIPYARD

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

Construction sites, gangways, embedded lighting

- PASCAL, FOUCAULT
- SILL 48

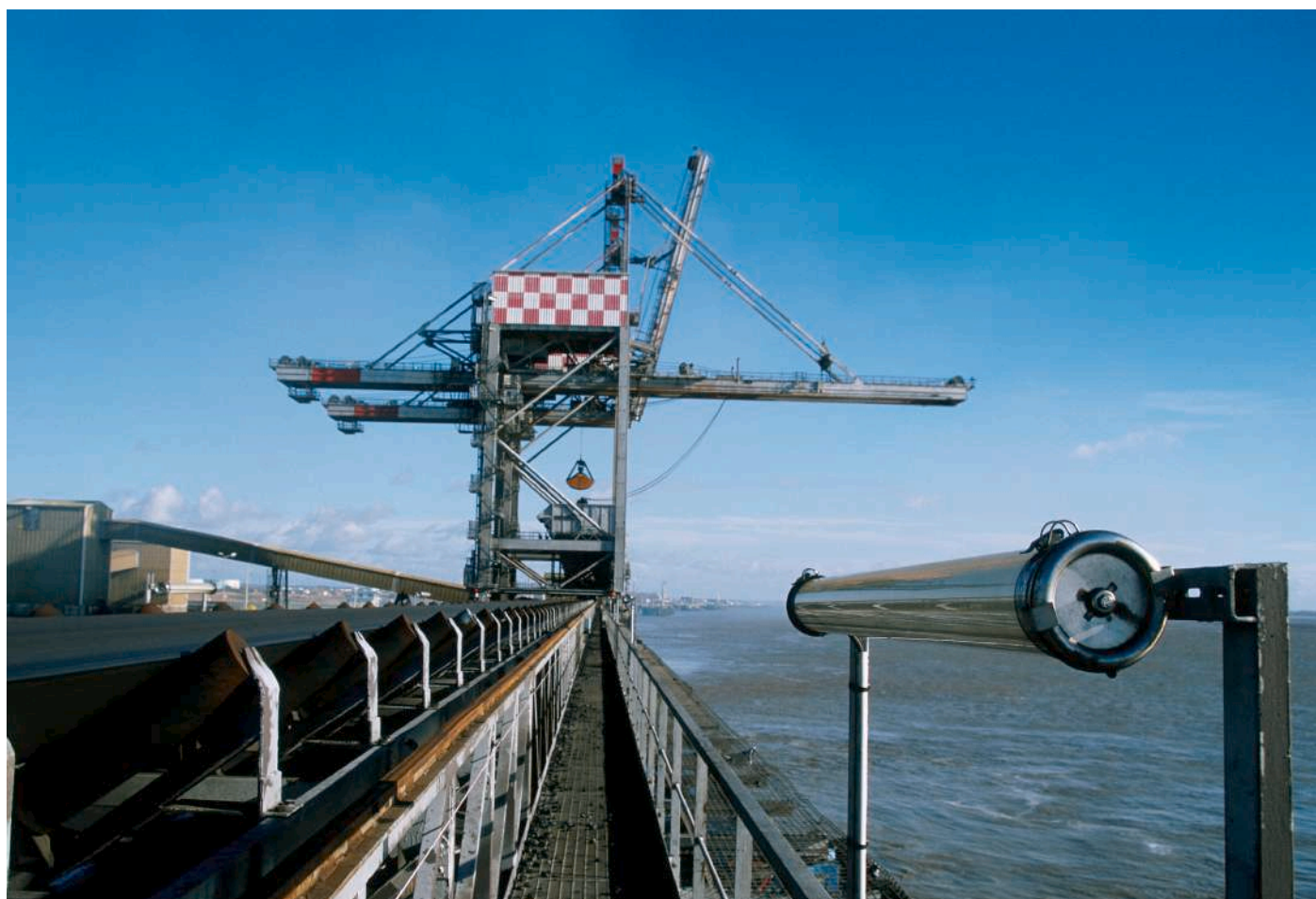
Machine rooms, specific work (paint)

- JAMIN (ATEX zones 2, 21, 22)
- SABATIER (ATEX zone 1)

Emergency lighting, signage

- COULOMB, MAXWELL
- MABUSE, MORISOT

Bulk terminals



Port of Nantes Saint-Nazaire, coal conveyor



BOYLE  



FUMAT  



CUGNOT

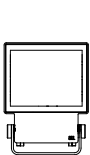
Bulk materials, whether dry or liquid, require specific modes of handling. Petrochemicals, aggregates, grain and other goods need to be loaded and unloaded using conveyor systems. Lighting in these areas requires specific solutions, particularly in ATEX explosive zones (hydrocarbons, cereals). The luminaires must also be able to withstand strong vibrations and abrasion in the conveyor zones.

The range of Sammode tubular luminaires covers standard lighting as well as ATEX/IECEx zone 1, 2, 21, and 22 explosive environments. In compliance with the stringent 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, lightweight design, they are renowned for being so easy to install. An added benefit is that they are entirely maintainable. All parts of the luminaire can be replaced on site.

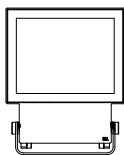
Shipyards



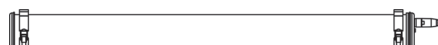
Port of Nantes Saint-Nazaire



SILL 48M



SILL 48L



PASCAL



SABATIER  



COULOMB,
MAXWELL

Shipyards lighting is characterised by the vast dimensions of the buildings and structures on which the luminaires are used. The light fittings must therefore be lightweight, very flexible in their installation and powerful enough to illuminate these great heights.

Shipyards lighting has to meet a wide range of needs, from lighting up great heights to top-up lighting, not to mention lighting ATEX zones in painting areas.



The long-lasting, high-performance tube light



 CUGNOT, BERING



 FRESNEL, BARENTS



 FUMAT 



 PASCAL



 MABUSE, MORISOT



 BOYLE, SABATIER 



 FOUCAULT



 MAXWELL



 JAMIN 

Accessories and options:



PS3 plug



Fixings
on brackets



Protective
stainless steel covers



ATEX prewiring  with Maréchal lead

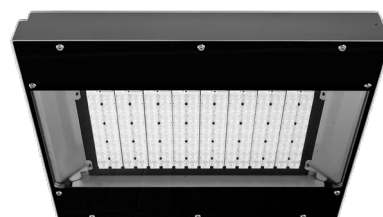
SILL

- (Un)loading dock
- Container terminal
- Ancillary buildings
- Shipyards
- Bulk terminals

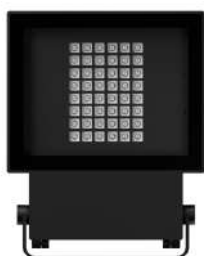
High-power projectors



■ SILL 177



■ ■ ■ SILL 176



■ ■ ■ ■ SILL 48L

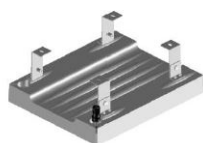


SILL 48M

Accessories and options for SILL 176, 177:



Connector for
splicing



Angle
brackets



Swivel
bracket



Suspension
kit

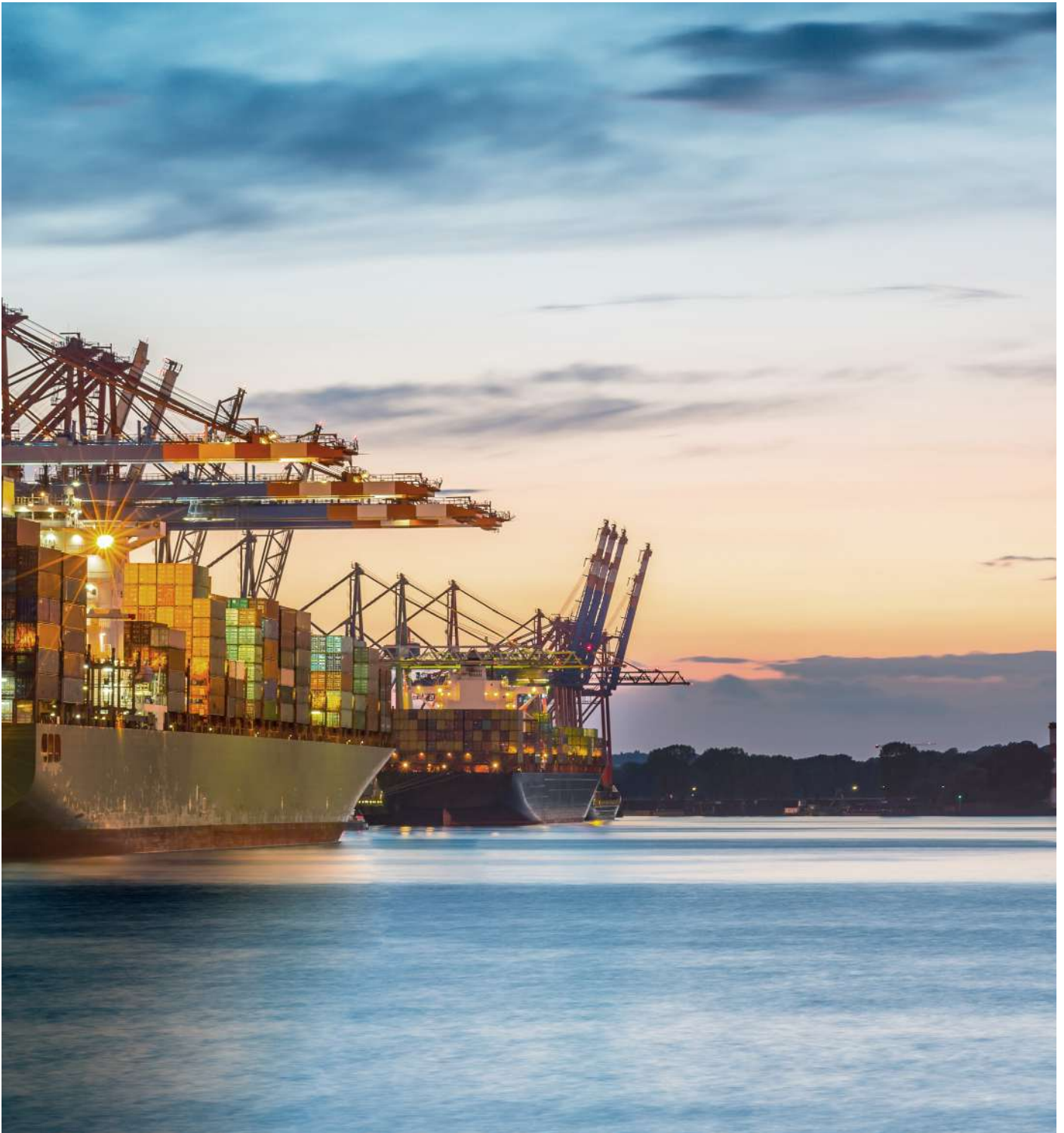


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References

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 and Sill are the European specialists in technical lighting.

Industrial and family-owned, our companies share decades of expertise, innovation and excellence. Our industrial expertise means we can guarantee the suitability, performance, reliability and long-term robustness of all our products, with particular attention paid to design.

As designer, manufacturer and consultant all in one, we favour a customer-centric approach, ranging all the way to made-to-measure solutions.

When clients choose one of our products, they get more than a light fixture: they acquire intelligence and service.

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