



# MODERN URBAN AREAS

Harbours and maritime environments  
with focus on safety and security

# THE CITY

## IS MOVING CLOSER TO THE WATER

Today, we experience an ever-increasing fusion between city life and waterfronts. The marine environments slowly become an integrated part of our daily life in both work and leisure, and with many people passing through these city areas every single day.

High-End neighbourhoods, exclusive residential areas and café environments are replacing old industrial halls and warehouses, and new life blossoms in the old ports. Our daily life cuts through the

harbours, which have become part of the daily cityscape. However, as both people and the residential areas move closer to the water front, the risk of incidents increases significantly and it becomes obvious that the safety measures have not developed at the same pace as that of our cities and harbours.

### **VISIBLE SECURITY**

Visible security measures help create a safe environment around the daily life in

the harbour areas and in marine environments. Living the daily life in new ways must be secure and safe, and thus safety measures need to be an integrated and natural part of any port, harbour and marine environment development. The SEA-SAFE rescue ladder is an innovative way of ensuring security and safety in places that many people access daily, as well as in these new, residential areas and café environments located in harbours and close to the waterfront.

**Alcohol is considered a serious risk factor for drowning among adolescents and adults**





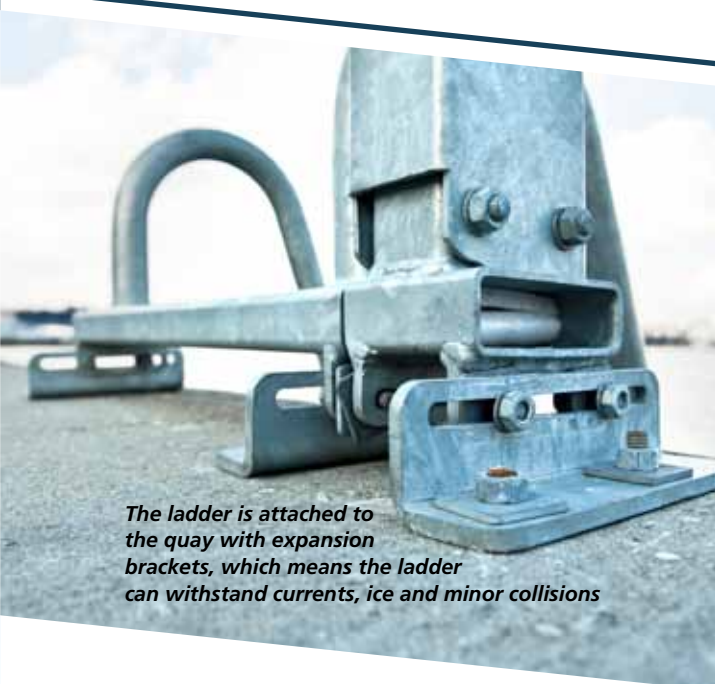
## INTEGRAL PART OF THE HARBOUR

The rescue ladder is a natural and integrated part of the port. At the same time, it is a visible security measure, which provides both safety and security to the area, its residents and people visiting and passing through.

The rescue ladder is designed with handrails going over the quayside to facilitate easy ascent from the water without the help of others. The ladder is mounted in such a way that the bottom step is at least 120 cm below the lowest water level. LED's are powered by the solar panel fitted onto the ladder. The light from the LED's is clearly visible at a 180-degree angle and from a distance of 300 meters, making the ladder fully illuminated in the dark, and clearly visible from both shore and water.

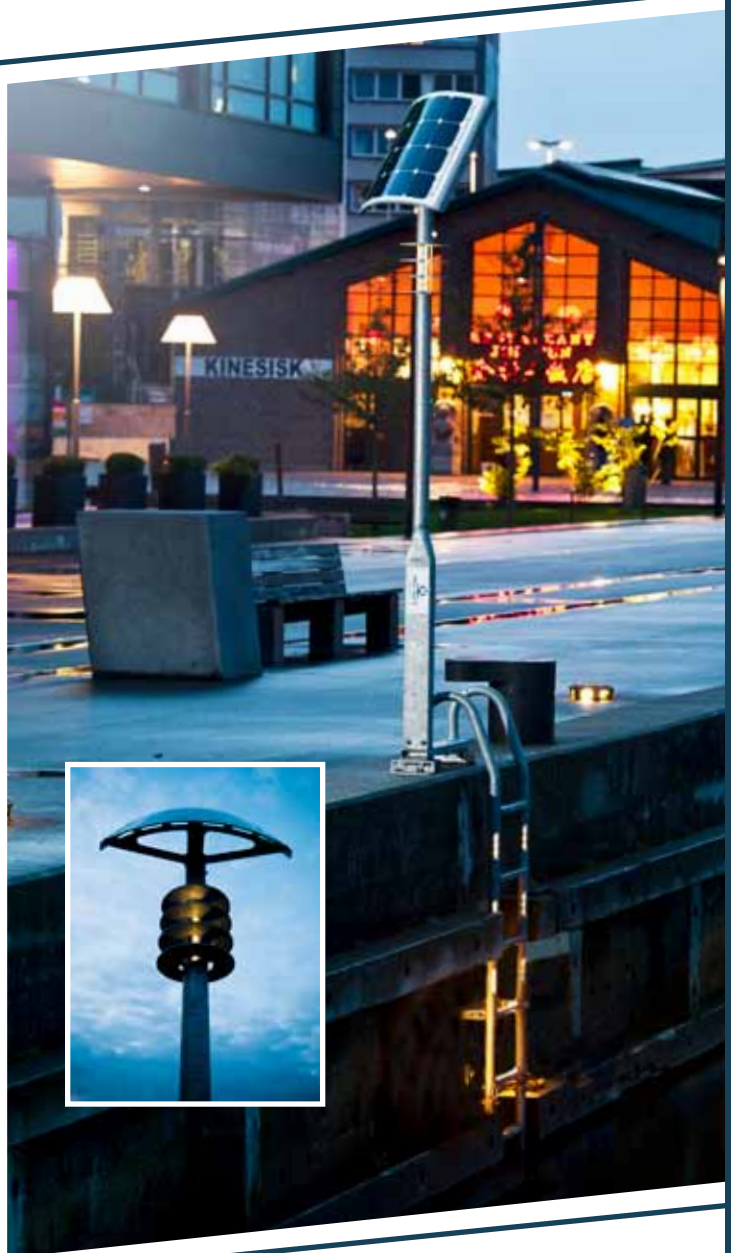
The rescue ladder can be further equipped with a lifebuoy which has a built-in GPS transmitter and a GSM modem, transmitting a signal to the correct emergency response teams as soon the lifebuoy is removed from the ladder. In this way, the emergency response personnel receive an alert signal very quickly and the distressed person in the water can be located much faster. Additionally, the lifebuoy's GPS function also works as a safety measure against vandalism and theft.

**372.000 people die from drowning every year, worldwide**



*The ladder is attached to the quay with expansion brackets, which means the ladder can withstand currents, ice and minor collisions*

- Modern design
- Visible safety measure
- Easy to integrate in development-projects
- Illuminated in the dark
- Secured against rough weather
- Minimal maintenance
- Visible from a distance of 300 meters
- GPS and GSM in lifebuoy
- Secured against vandalism and theft
- Two-piece ladder prevents breakage by surrounding freezing waters
- No external cabling required



**Drowning is one of the 10 leading causes of death for people aged 1-24**



**One-third of water-related deaths occur after dark**

*"When accidents happen, when someone falls into the water at the harbour, it is important that the person is given the best options for rescue, either by himself or with the help of bystanders nearby. In our opinion, the quality of the SEA-SAFE products is the best on the market today."*

**Henrik Jess Jensen**

Head of Department: Urban and Landscape Department  
Aalborg Municipality

*"Arendal Harbour is experiencing increasing Supply & Offshore activities, which prompts the need for a greater focus on safety in our harbour environment. It is our assessment that the SEA-SAFE products are the best on the market today. Flexibility and additional functionality with light and alert fixtures are built-in features of the rescue ladder, as well as operational reliability. These are the reasons why the rescue ladder is an integral part of our safety equipment."*

**Rune Hvass**

Harbour Master: Arendal Harbour, Norway



SEA-SAFE DANMARK  
CVR: DK34715645  
GRABOWSVEJ 24  
9460 BROVST  
M. +45 22 24 35 67

SEA-SAFE NORGE  
ORG: 812021362 .  
BENDIKSKLEV 16  
4836 ARENDAL  
M. +47 40 61 80 38

**SEA-SAFE.AS**