

A dramatic photograph of a man in a life vest floating in dark, choppy water. The man is on the left, with his head and shoulders above water, looking down. A large, white, splashing wave of water is behind him, creating a sense of movement and urgency. To the right, a red and white life preserver floats on the surface. The overall tone is dark and somber, emphasizing the importance of safety equipment.

# LIFELADDER

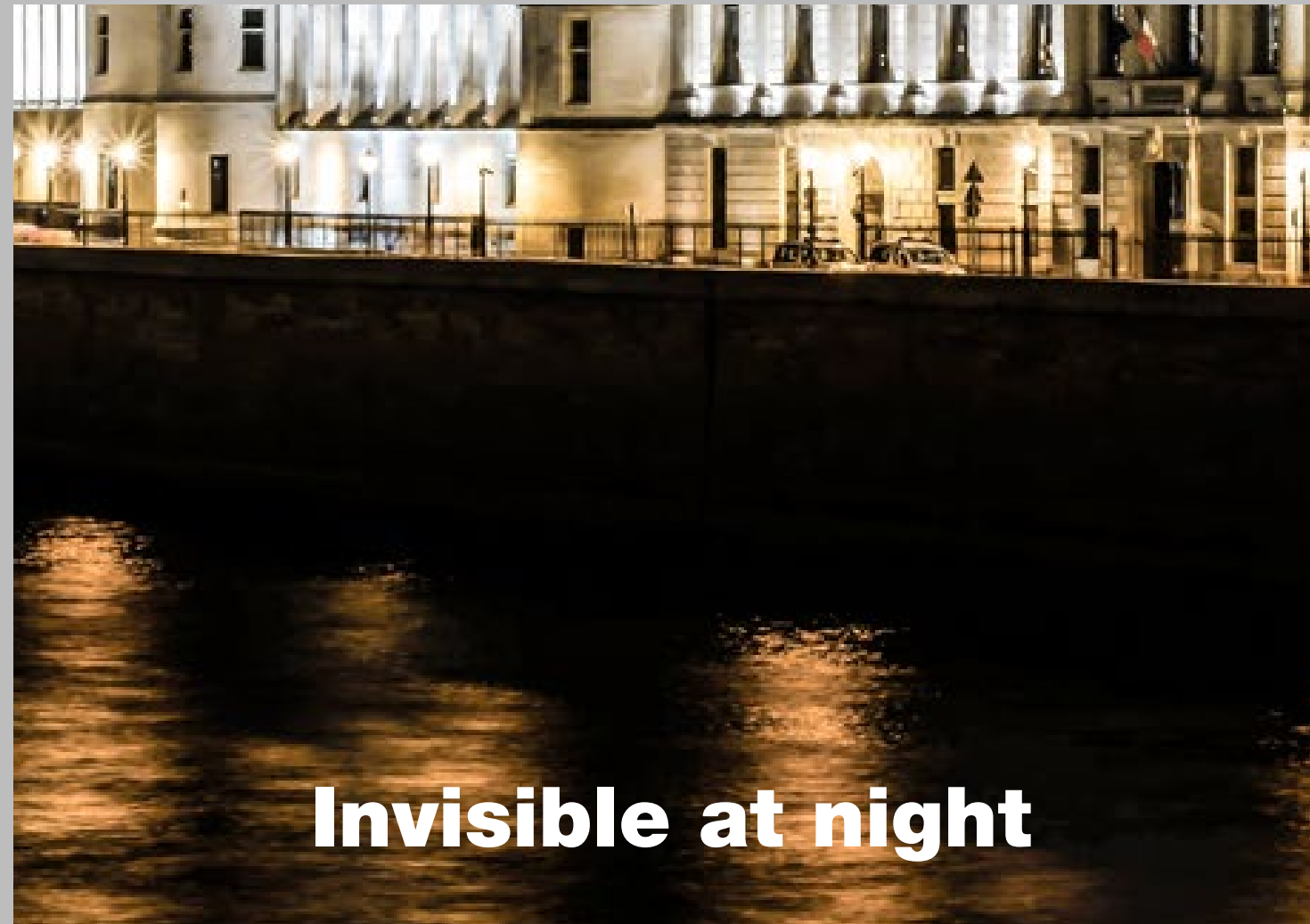
by port:safety



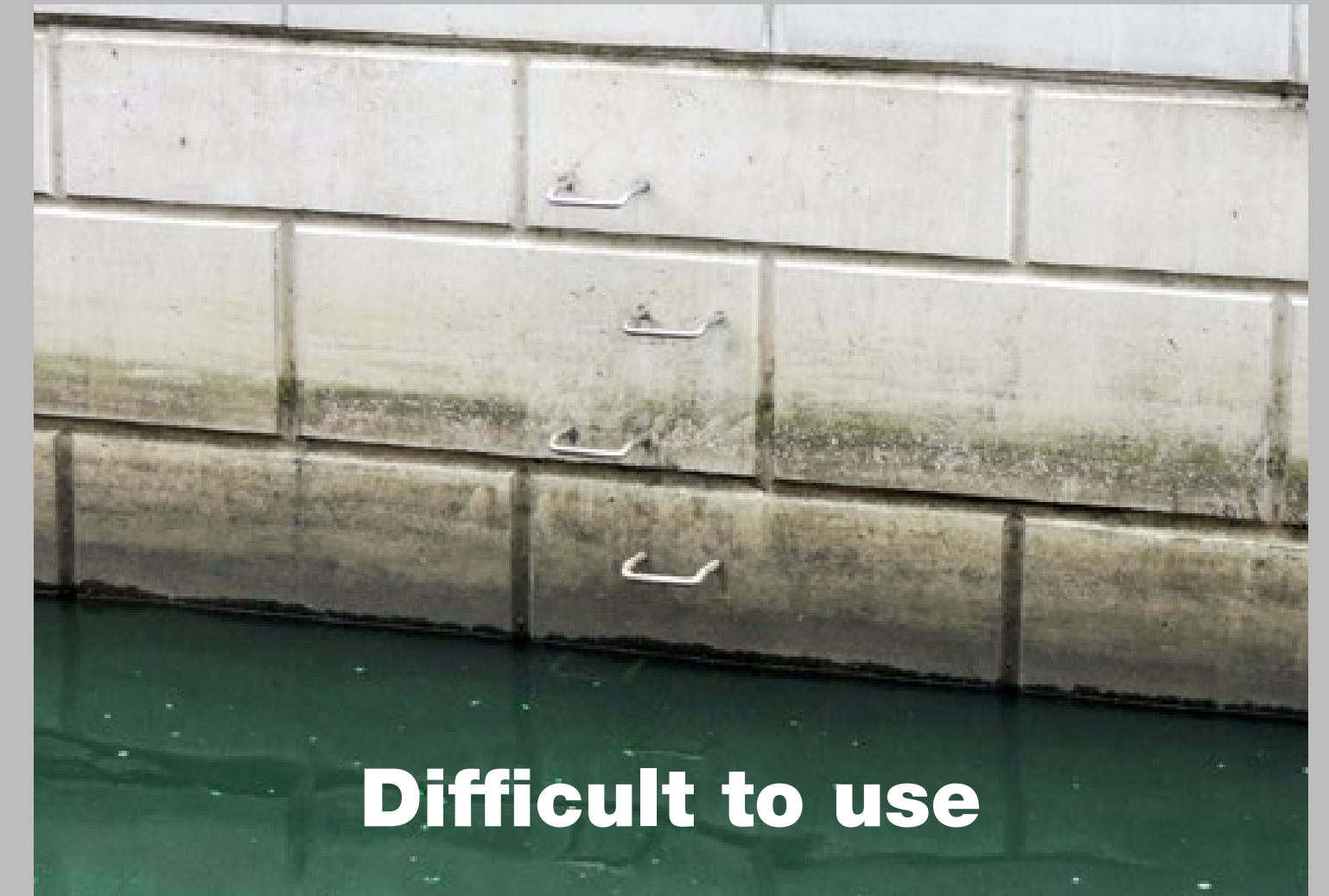
# Traditional safety ladders...



**Hard to find**



**Invisible at night**



**Difficult to use**



**Dangerous**



**Out of reach**



**Require maintenance**



**Visible 24/7**

**Modular construction**

**Maintenance free**





**Made for the port environment**

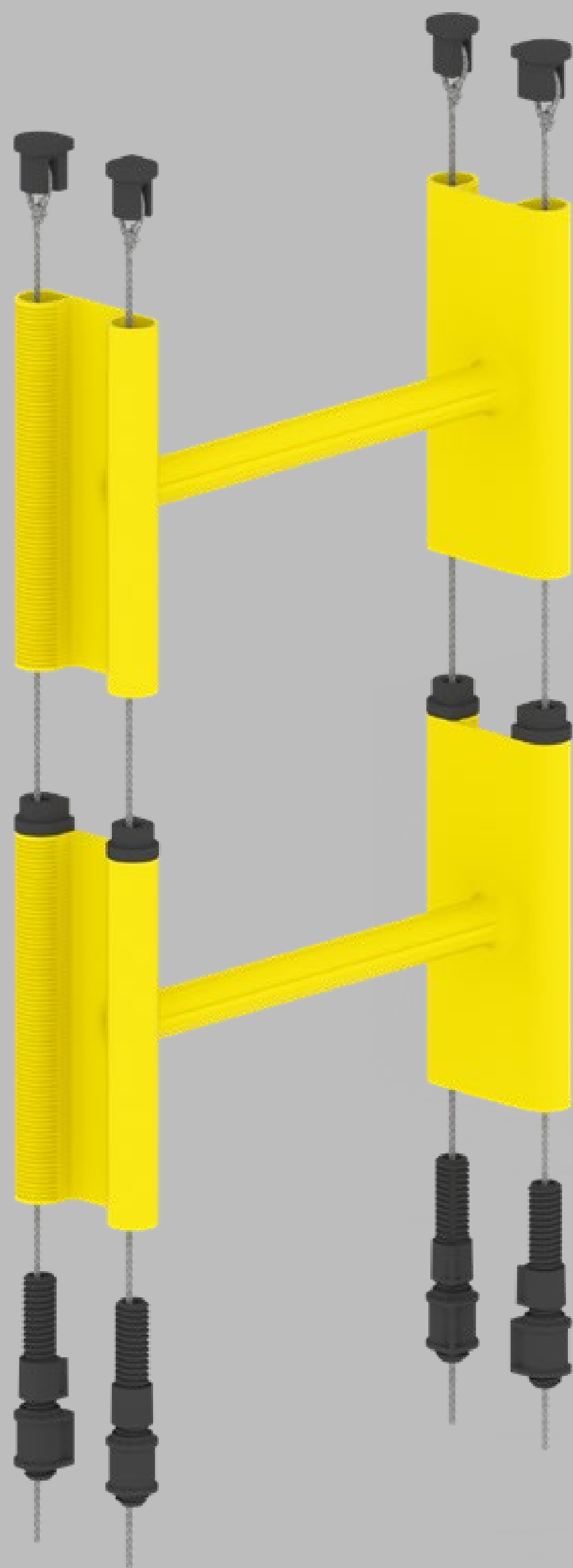
Super visible all year round. Non-corrosive  
Light weight and easy to install

**Port of Esbjerg, Denmark**





# Construction



**Main modules**  
High strength

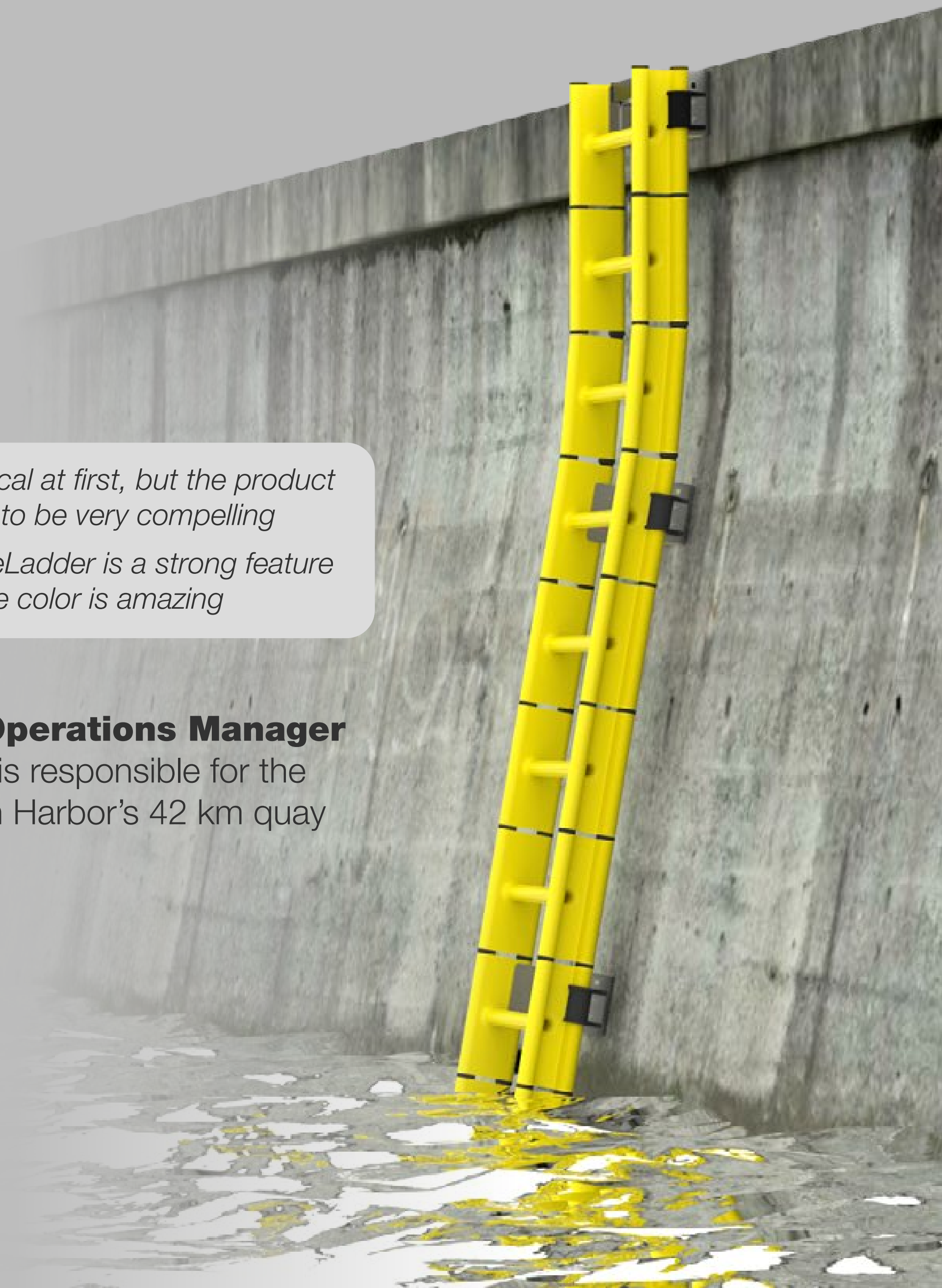
**Spacers**  
Compressible

**Ropes**  
Static, 2 ton each

*We were skeptical at first, but the product turned out to be very compelling*  
*The light on LifeLadder is a strong feature and the color is amazing*

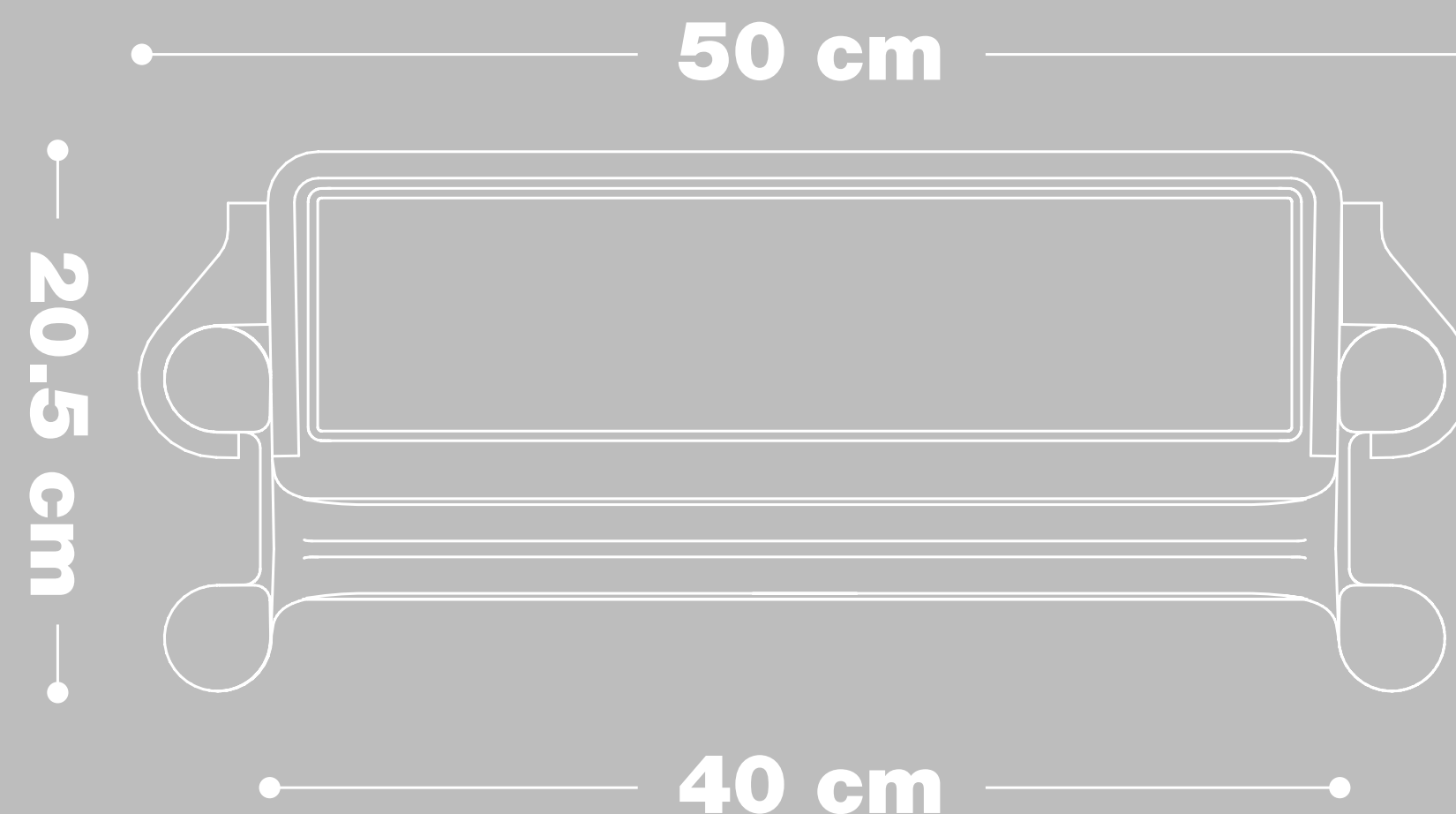
**Per Staal, Operations Manager**  
By & Havn is responsible for the Copenhagen Harbor's 42 km quay

The invention behind LifeLadder is covered by Pending Patent Application no. EP17166906.2



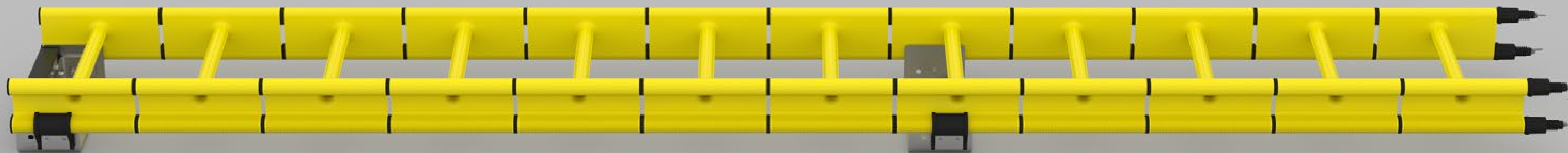


# Specifications



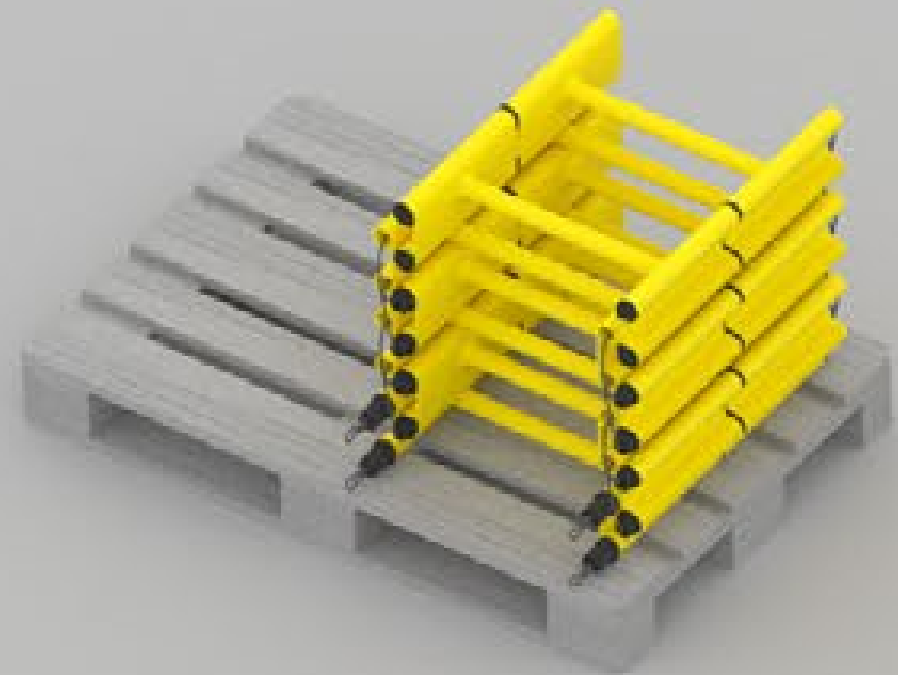
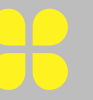
**34.4 kg**

3.6 meter ladder + steel brackets + LightUnit



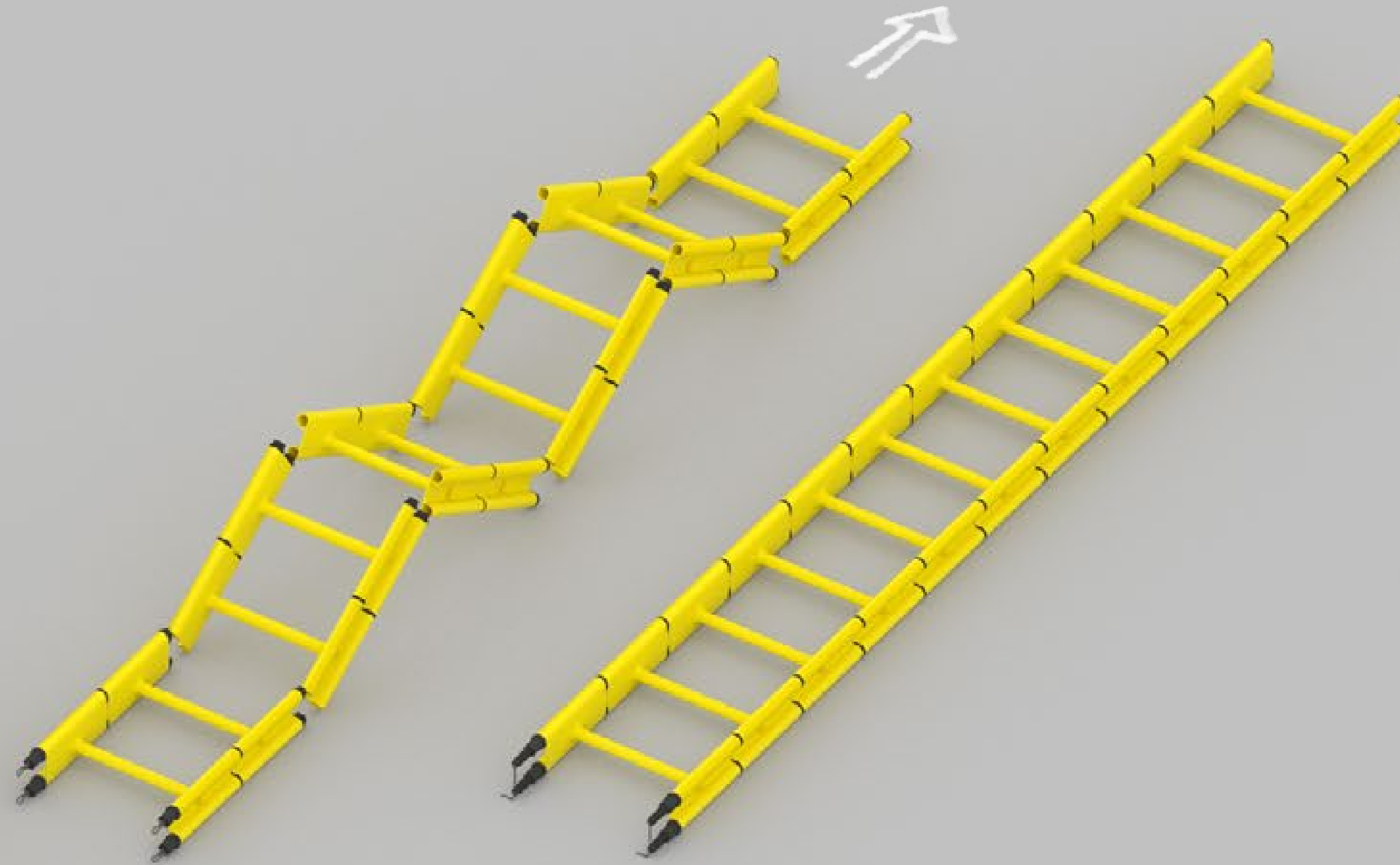
LifeLadder is dimensioned to comply with European Standard EN 14329

# Delivery



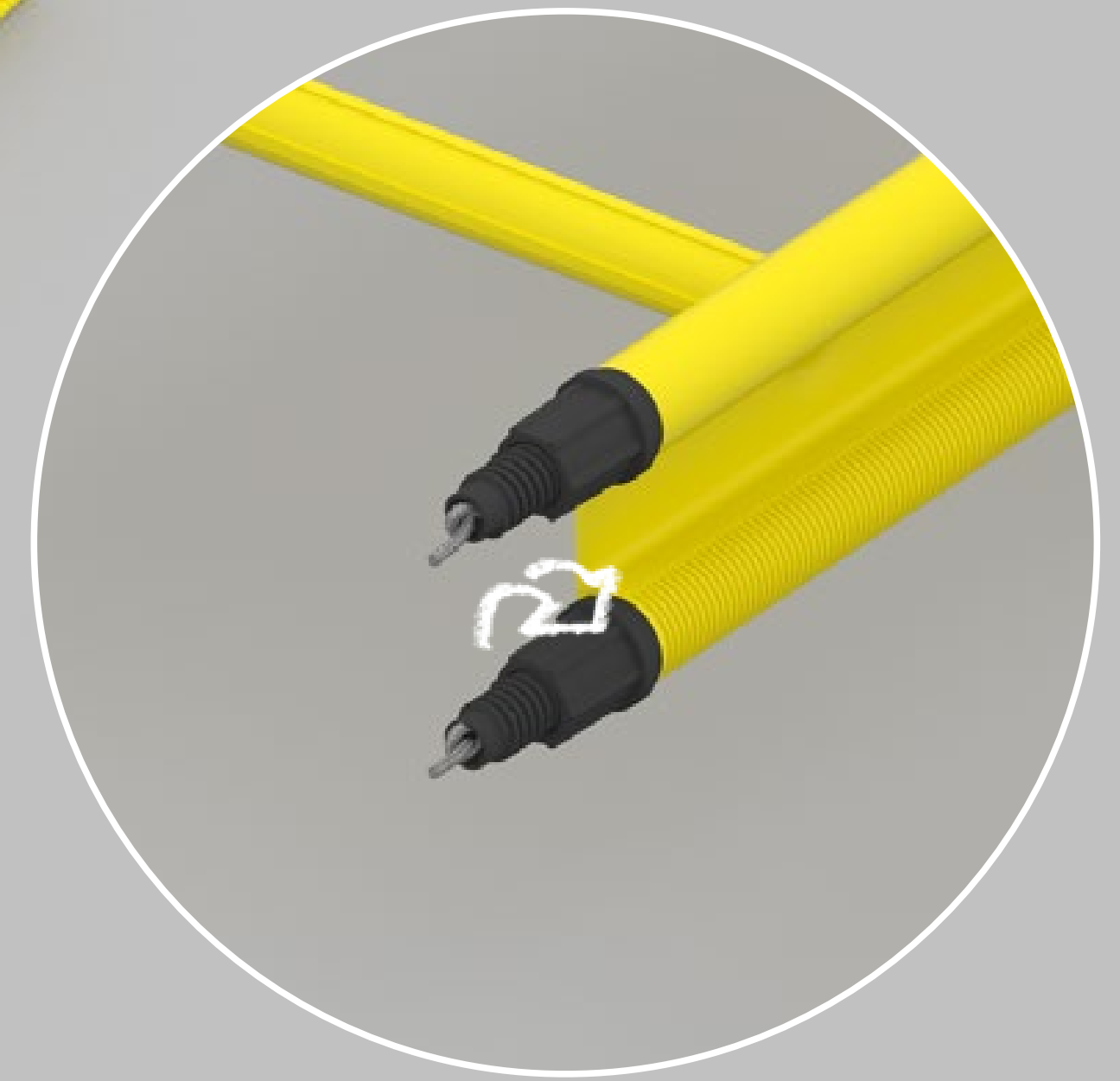
**1.**

Receive on pallet



**2.**

Fold out



**3.**

Tighten

# Installation



**1.**  
Mount the brackets



**2.**  
Attach LifeLadder



**3.**  
Insert LightUnit



**Suitable for manual handling:**  
3.6 m LifeLadder weighs 20.8 kg



# LightUnit



## **Solar powered**

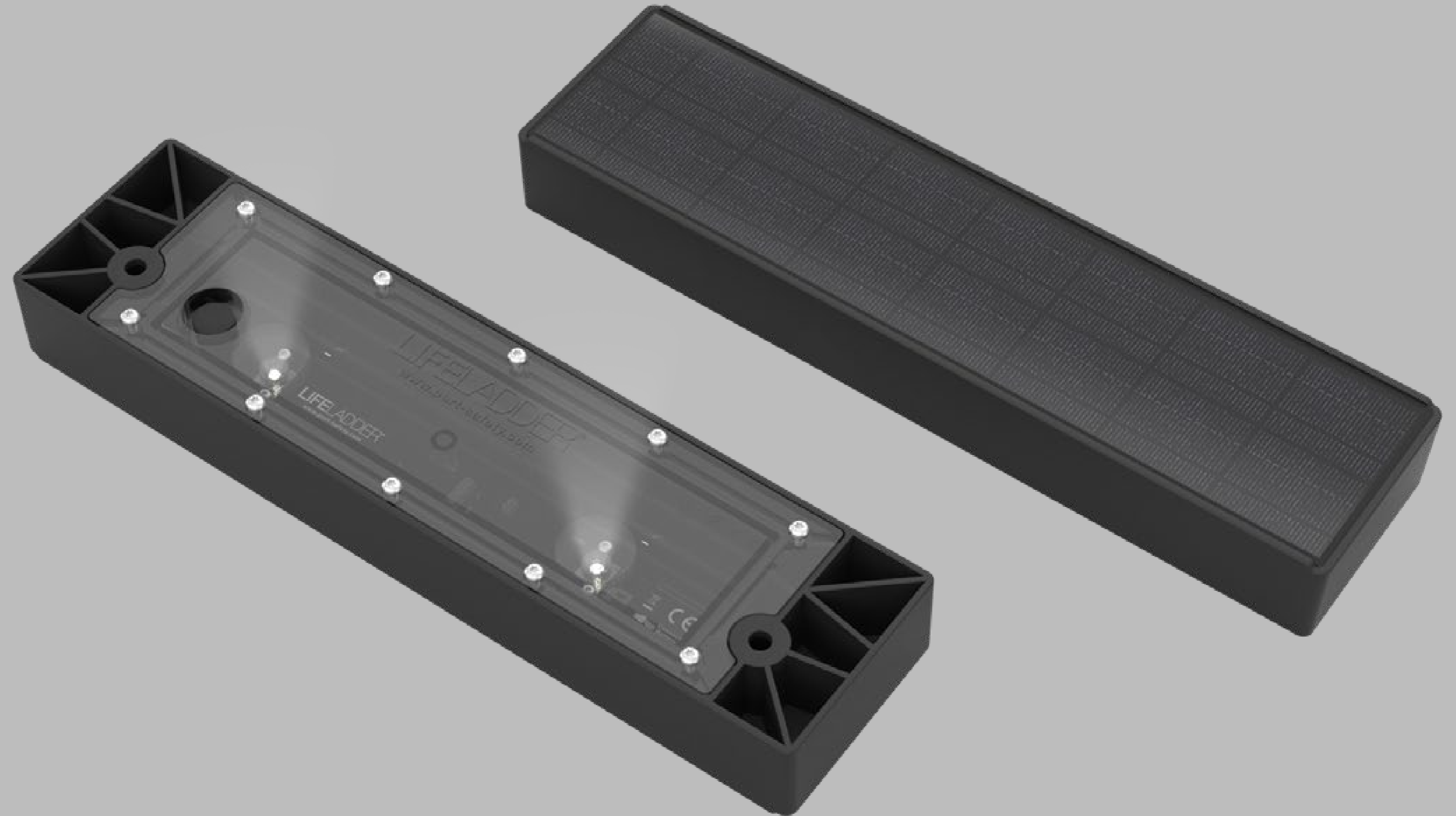
Ensures 24/7 visibility  
Independent of power grid

## **Functions all year**

Optimized for full year  
performance up to 60°N

## **Robust materials**

Reinforced PA66  
Waterproof IP68





### **Speaks to the intuition**

Steps, stiles and quay wall is illuminated  
The ladder appears recognizable to a person in distress

**Copenhagen**





# Added Value

## Improved Safety

Visible day and night  
Solar lighting

## Maintenance-free

Robust materials  
with superior lifetime

## Sustainable

Easy to repair  
50% CO<sub>2</sub> reduction

Improved safety and early break even





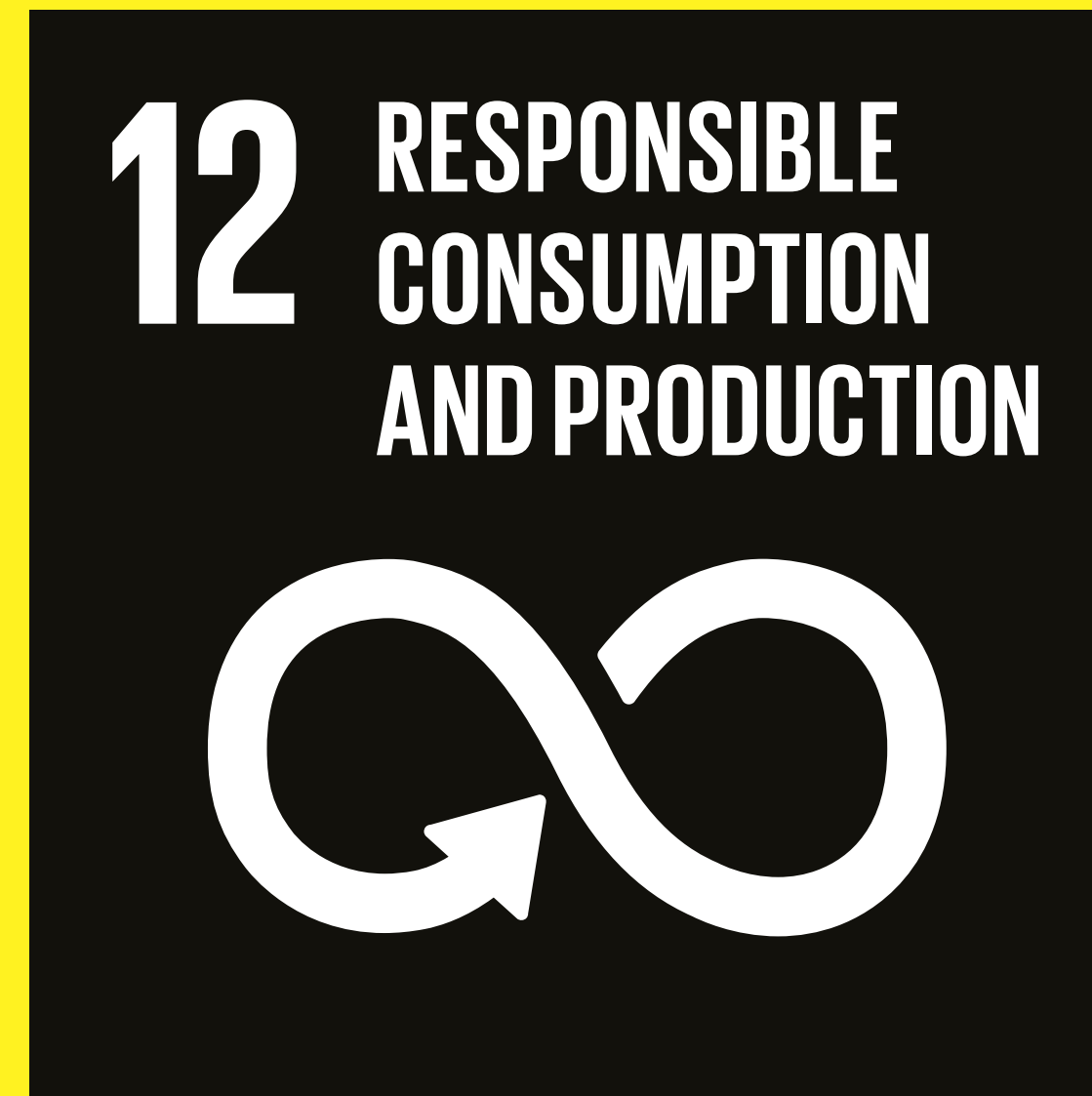
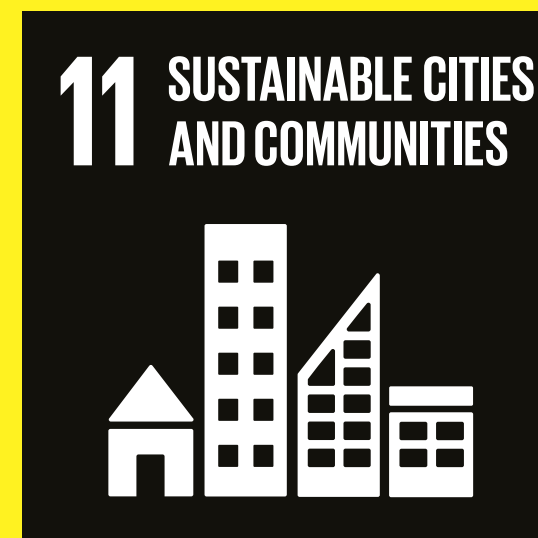
# Mission

**"We are in the business of saving lives"**

Port-Safety supports the SDGs:

**Combining known technologies**  
to tie up less energy, produce less waste,  
and provide safer solutions

**Fewer drowning accidents**  
both in old and new city areas  
where people are close to the waterfronts



**Reducing carbon footprint by 50%**  
compared to conventional solutions\*



THE GLOBAL GOALS

\*Port-Safety is part of ReFlow Maritime's "Sailing Towards Zero" - an impartial case study on the Carbon Footprint of Maritime Components. Results show that LifeLadder® reduces impact on climate change by 50% compared to traditional safety ladders of stainless or galvanized painted steel (cradle-to-gate):  
[www.re-flow.io/project-sailing-towards-zero](http://www.re-flow.io/project-sailing-towards-zero)

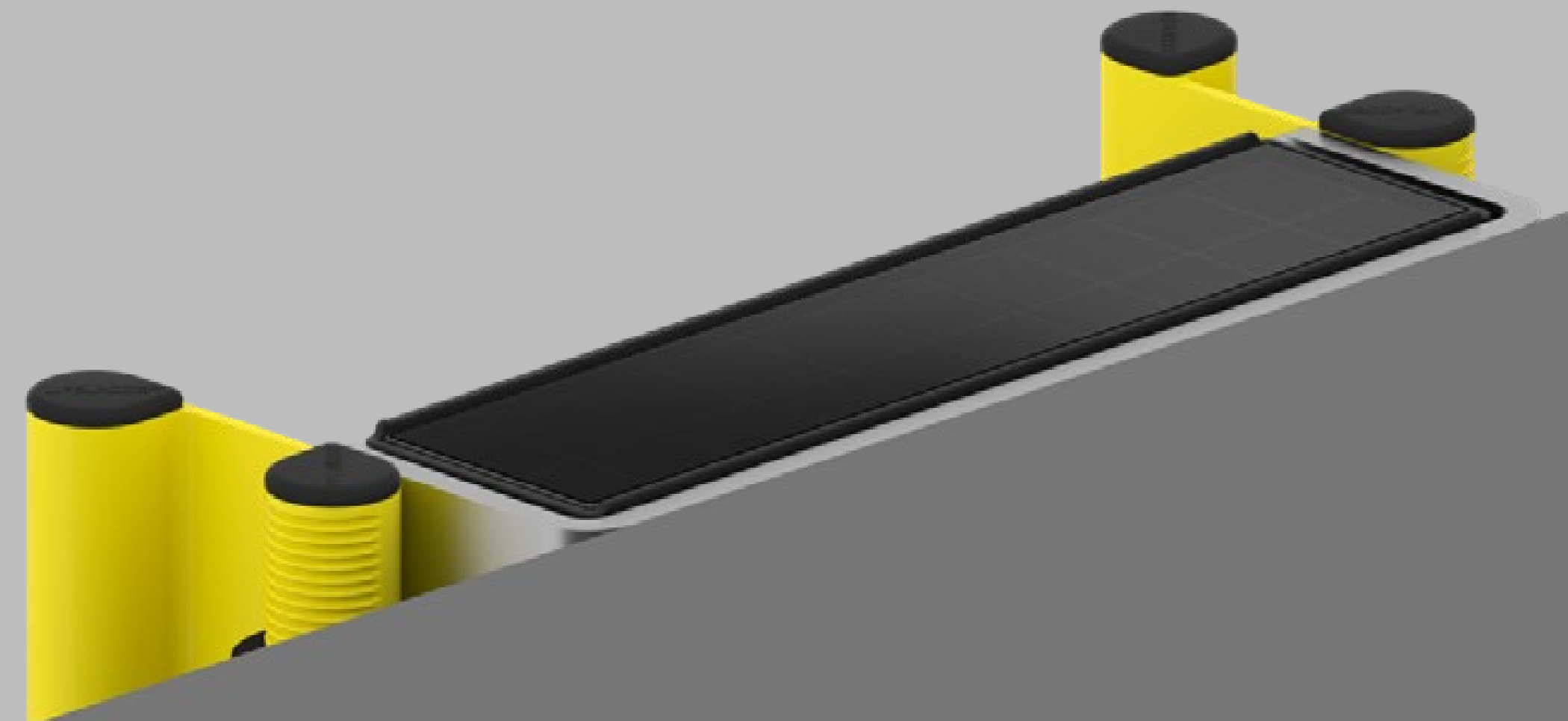




# Economy

Long lifetime  
Maintenance free  
Easy module replacement  
Lightweight installation  
Compact storage  
Reduced Costs

**Loyalty Agreement available**



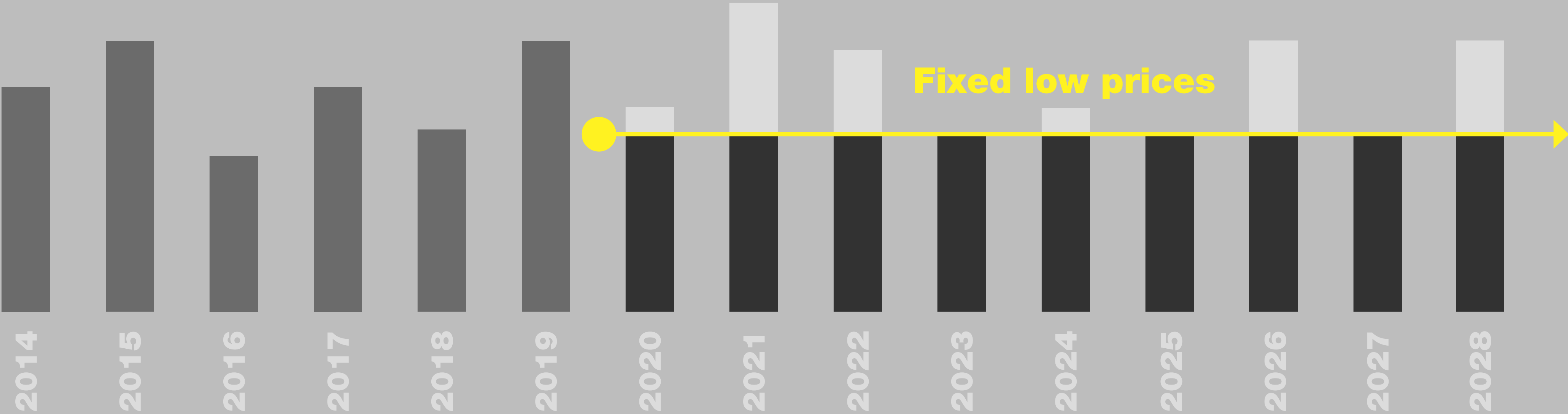


# Replacement

Maintenance-free safety upgrade

## Loyalty Agreement:

Predictable costs  
Volume discount from first ladder







## City wharfs, marinas and industrial ports



# LIFELADDER

by port:safety

**Safety upgrade**

**Reduced Costs**

**Sustainable**







**port:safety**  
in the business of saving lives

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