



LightUnit

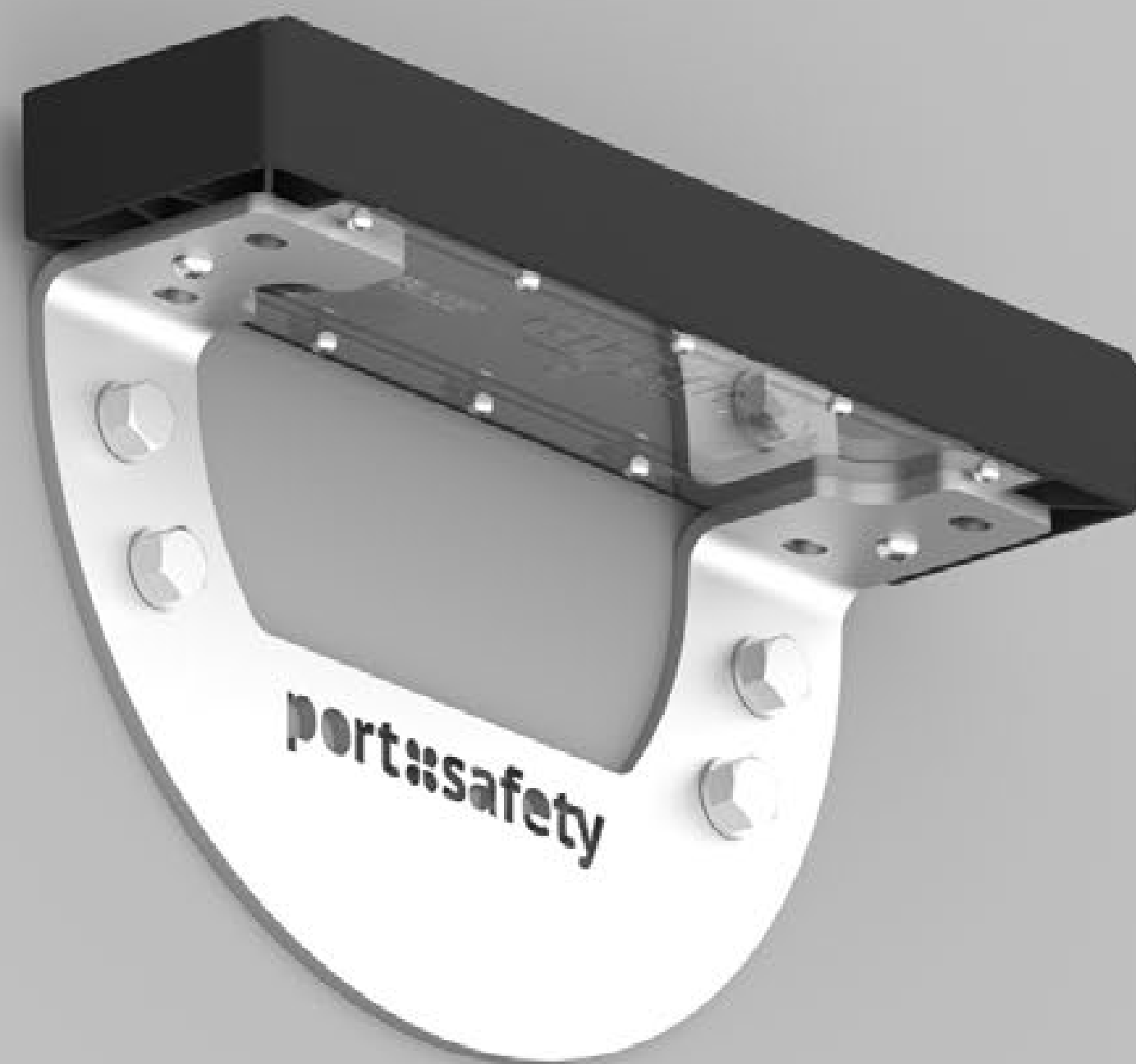
by port:safety



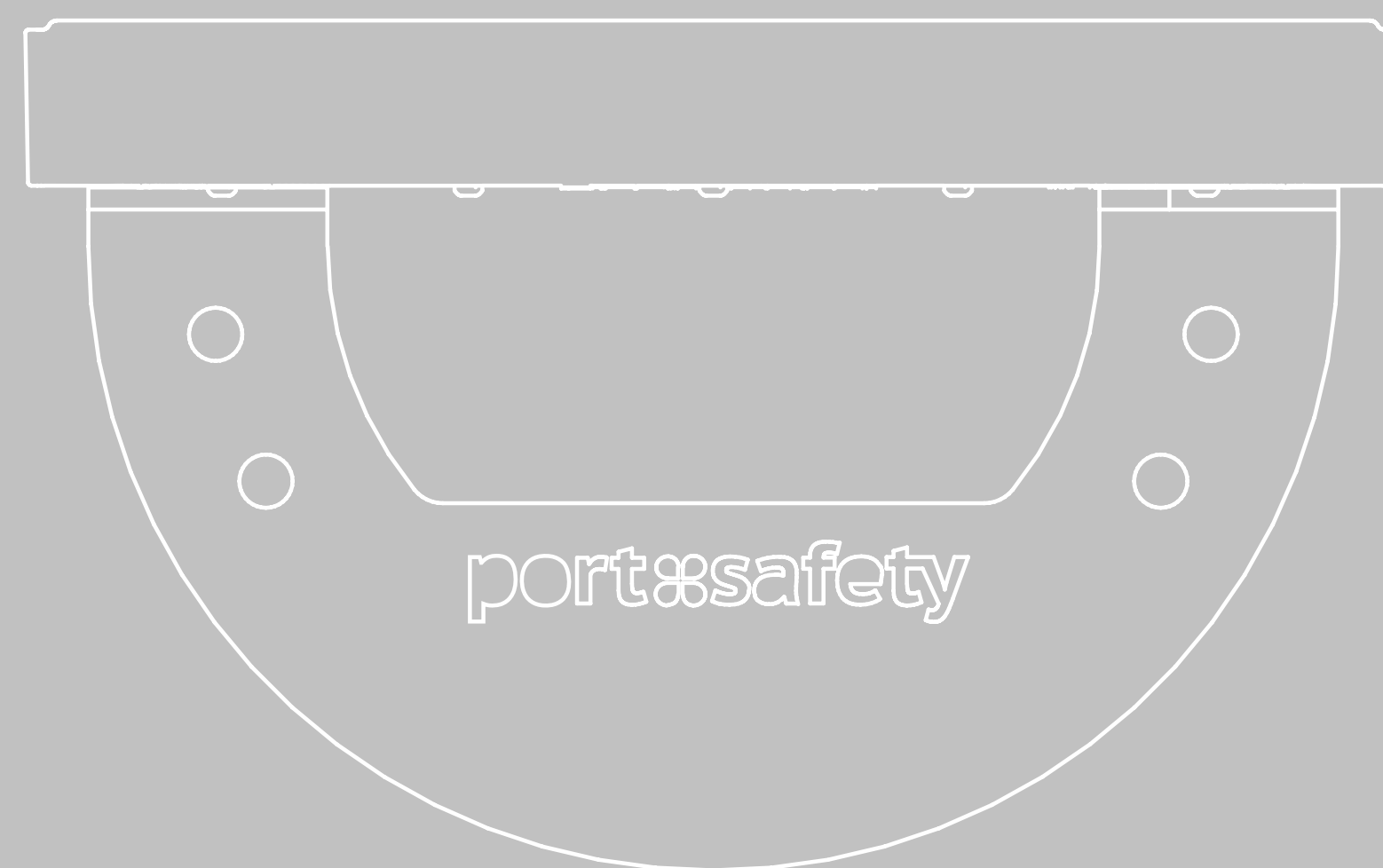
Simple addition = Major upgrade
Also for old fashioned orange and grey ladders



LightUnit with Wallmount



• 340 •



• 375 •

230 •



• 105 •

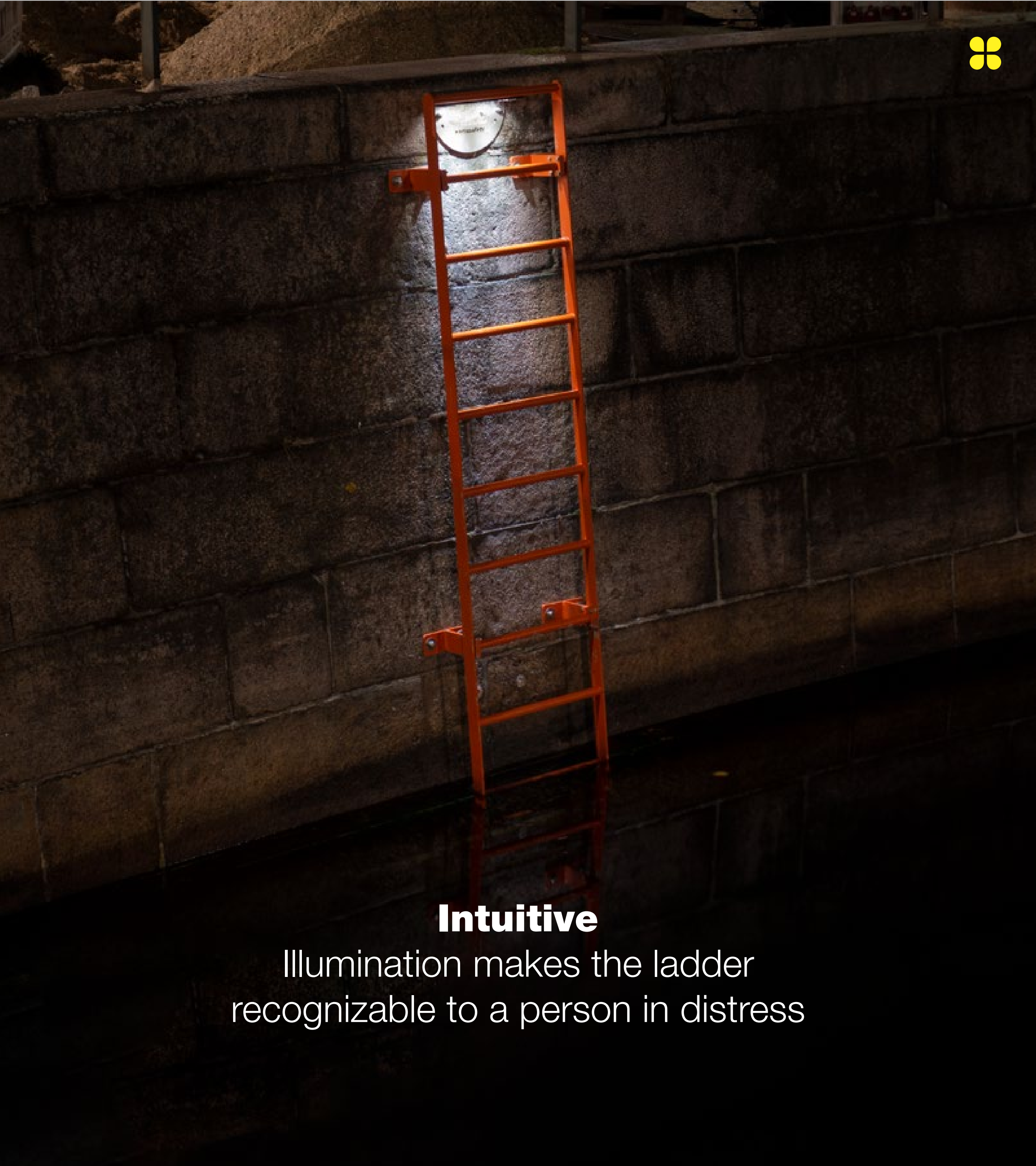
• Install flush with top of quay





Versatile

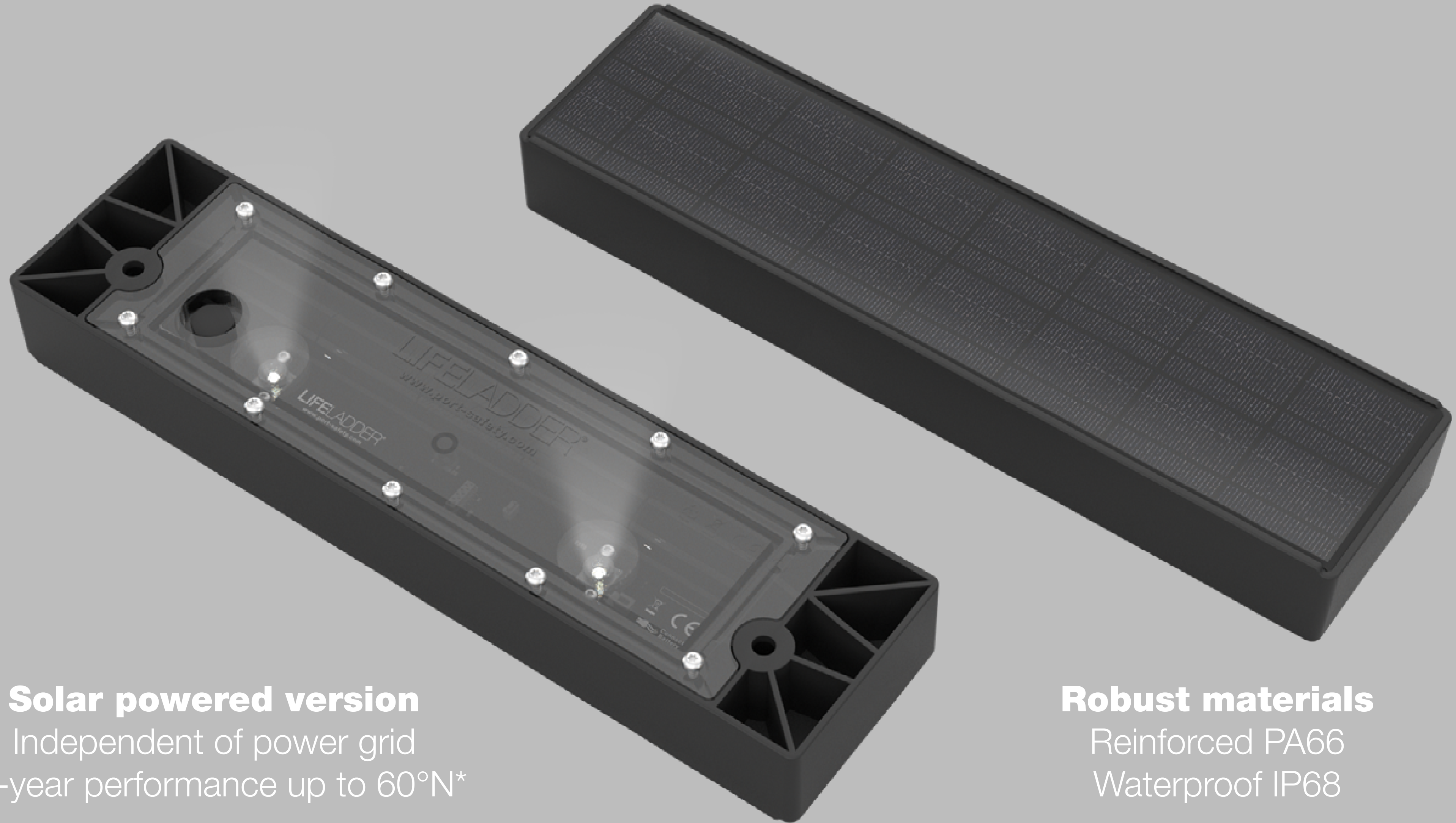
The LightUnit is dimensioned to fit all standard safety ladders



Intuitive

Illumination makes the ladder recognizable to a person in distress





Solar powered version

Independent of power grid
All-year performance up to 60°N*

Robust materials

Reinforced PA66
Waterproof IP68

*For all-year performance up to 60°N, the solar panel must be clean and fully exposed to sunlight, not shaded by the quay side, surrounding buildings, trees etc.
From a fully charged battery, the LightUnit can emit light every night in a full winter month up to 60°N without receiving additional energy from the solar panel.



Grid powered version

For locations above 60°N

Custom cable length

port:safety



Stands out

The illuminated ladder is clearly visible against the dark quay

Central Copenhagen, in front of the Foreign Ministry



Ideal combination

The yellow steps and stiles of the LifeLadder® are optimized for reflecting light from the LightUnit

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Customer Statement

“At Port of Oslo we found that the existing options for installation of safety ladders on an open quay all faced disadvantages on safety level or costs. Together with Port-Safety ApS our ambition is to achieve an improved safety level on open quays without having to make a costly fixation of the ladder at water level, and still achieve a ladder that is rigid and safer for a person in distress. This solution should also permit stronger forces to bend the long cantilever arm, and afterwards allow the cantilever arm to return to its original rigid and vertical position.

Since November 2018 we have had 8 x 4,5 m LifeLadders installed with the lower 3,5 m being unsupported. These LifeLadders are customized with FlexJoints, where the forces of the unsupported part concentrate. For two years the ladders have handled the daily operations well. During the second winter we experienced a damage on two modules. These have now been replaced with modules in an upgraded 2nd generation material, and we look to see the performance in the winter ahead.” from Overingeniør Port of Oslo KF, November 2020.

LifeLadder - Cantilever tests



Impact tests, preparations for Oslo Installations

LifeLadder with 3.5 meter unsupported lower part installed on wall. Bottom step pulled in different directions by crane.

Results:

- At no push/pull: LifeLadder hangs straight down and does not bend, even when climbed by a person.
- At impact (push/pull): LifeLadder bends and deflects, eventually returning to initial position.
- At extreme impact: “Flex-joints” added just below lowest steel bracket protect the GRP-modules and help the ladder return to initial vertical position.



Oslo Installations

8 LifeLadders, 3.5 meter unsupported
Customized with Flex-joints placed just below lowest bracket





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