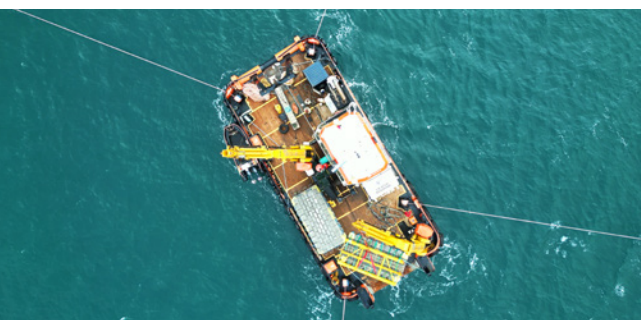


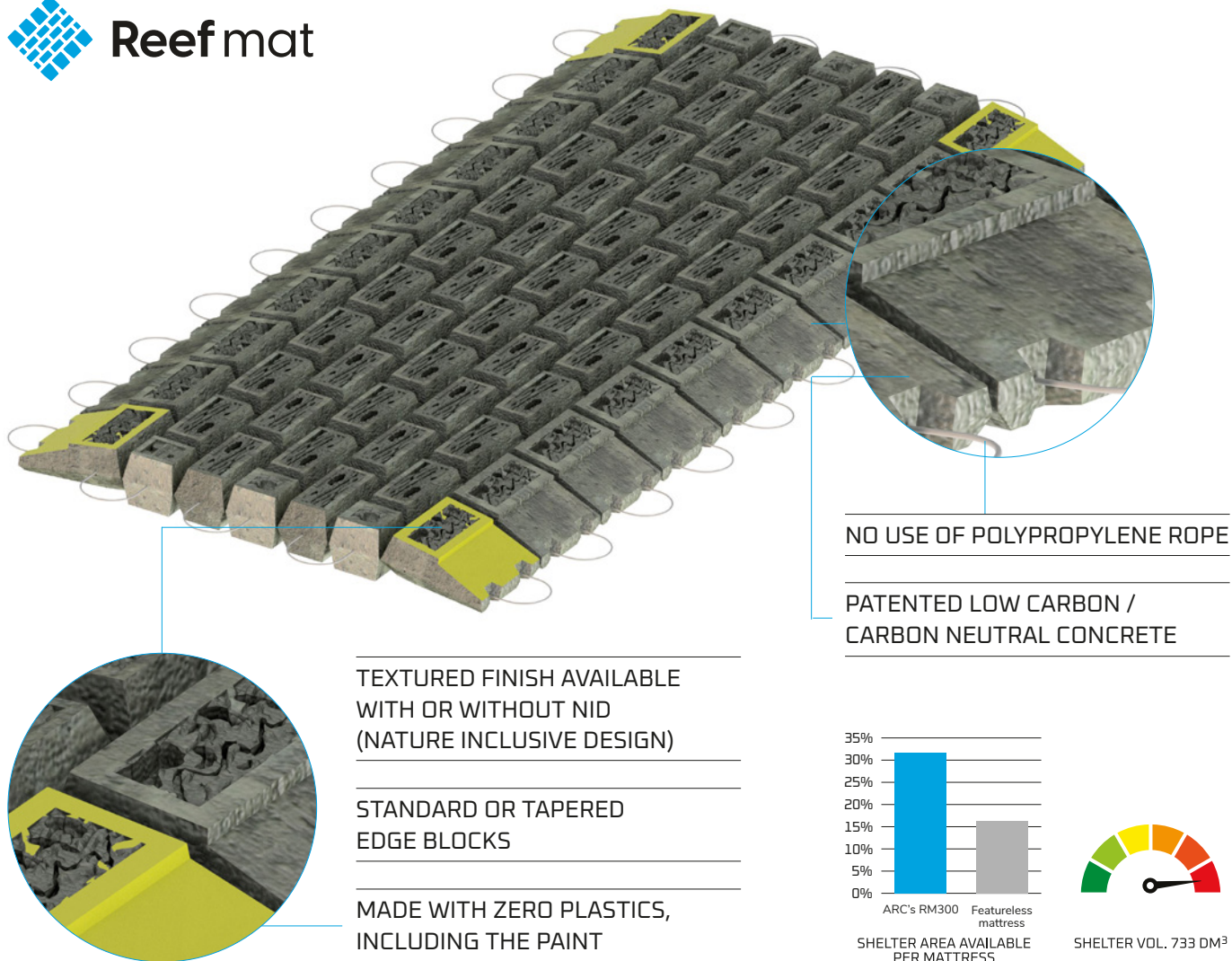


PROTECT YOUR INFRASTRUCTURE WHILE PROTECTING OUR PLANET, WITH REEF MAT.

Unique low carbon / carbon-neutral, plastic-free protection for subsea cables and pipelines.

Designed and produced by ARC marine® using its proprietary Marine crete construction, 98% recycled materials, zero plastics and developed with Nature Inclusive Design (NID) principles. The Reef mat meets robust offshore asset protection requirements whilst reducing its carbon footprint and increasing biodiversity gains to the area.





AN INTRODUCTION

ARC marine®'s Reef mat is a nature-inclusive solution for protecting subsea cables and pipelines while enhancing marine ecosystems.

Its durable, eco-friendly design ensures infrastructure protection whilst maximising local marine growth.

Made with absolutely no toxic or plastic components.

The Reef mat utilises recycled materials and its own patented Marine crete to drastically reduce CO₂ emissions and align with its sustainability goals. This makes the most environmentally responsible choice for subsea applications in the market.

The Reef mat is customisable to project requirements and is designed for ease of installation using standard industry deployment equipment.

It is made to industry standard mattress dimensions and can be decommissioned in situ, offering a cost-effective, eco-conscious end-of-life solution.

By integrating Reef mats, projects achieve reliable subsea protection, reducing its CO₂ footprint whilst fostering marine biodiversity and creating new marine life habitats. An innovative environmental solution meeting industry protection requirements whilst excelling in sustainability benefits.

FEATURES AND BENEFITS

PRODUCT BENEFITS

Impact tested - To conform with: 'Recommended Practice DNV-RP-F107 - Risk Assessment of Pipeline Protection'

Stability tested - Assessed in-line with standard industry practice using 'DNV-RP-F109 - On-bottom stability design of submarine pipelines, cables and umbilicals'

Eco-engineering - The only carbon-neutral and plastic free subsea cable and pipeline protection available

Conventional Installation - Reef mats use existing industry standard installation frames (available to hire)

Nature Inclusive Design - Fully customised textured finish to target growth of local marine species and increase biodiversity levels. Designed in accordance with PAS1401:2025

Industry Standard - Reef mats are designed to align with industry standard sizes, handling and installation practices

Anodes (optional, if required) - Not essential, but can increase lifespan and help to reduce corrosion

Over trawlerable design features - Angled steel rope and rounded corners / tapered edges to reduce chances of snagging

REEF MAT SPECIFICATIONS

Dimensions:

6m x 3m (Nominal)

Thickness:

150mm/300mm/450mm

Edge blocks:

Standard or Tapered

Top surfaces:

Nature Inclusive Design / Fair Face

Strength:

20-50 mpa

Density:

2,350 kg/m³

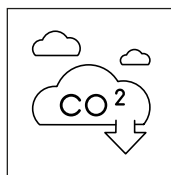
Emissions:

-10Kg CO₂/tonne

Materials:

Meets EU leachate testing standards

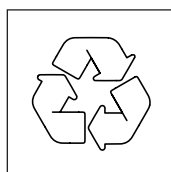
SUSTAINABLE CHOICE



CARBON NEUTRAL - Made using our patented Marine crete, a substitute to ordinary Portland cement, we are able to make our mattresses fully carbon neutral or even carbon negative depending on application.



PLASTIC FREE - Containing absolutely zero plastics, not even on the paint, to make it as pollutant free as possible.



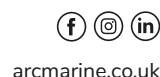
98% RECYCLED MATERIALS - Produced using locally sourced recycled materials we are able to provide a minimum 91% carbon saving before adding our further carbon reducing Marine crete solution.

TRUSTED BY



WITH ITS NATURE INCLUSIVE DESIGN FINISH AND LOW CARBON FEATURES, ARC'S REEF MATS MEET DECOMMISSIONING IN SITU REQUIREMENTS AND IN THEORY CAN BE LEFT ON THE SEA FLOOR INDEFINITELY. THIS RESULTS IN LONG TERM FINANCIAL SAVINGS WITH ONGOING ENVIRONMENTAL & BIODIVERSITY BENEFITS.

PARTNERS



Designed to PAS1401:2025