

EXPERIENCING NATURE IS THE ESSENCE OF YACHTING

Tenders designed to preserve the wilderness



yachtwerft meyer of



SUSTAINABLE PROPULSION ELECTRIC & HYBRID SOLUTIONS











ELECTRIC PROPULSION

CHARACTERISTICS

- Electric
- 100 + miles
- Long range
- Speed up to 12 Knots







ELECTRIC PROPULSION Catamaran





ELECTRIC PROPULSION CCLine Open Tender 6.8 m

CHARACTERISTICS

- Powerful motor & zero pollution
- Quiet planing
- Access to restricted waters
- Fast charging
- Easy manoeuvring
- Low maintenance







ELECTRIC PROPULSION CCLine Open Tender 6.8 m

Battery pack

CHARACTERISTICS

- Powerful motor & zero pollution
- Quiet planing
- Access to restricted waters
- Fast charging
- Easy manoeuvring
- Low maintenance









HYBRID PROPULSION Silverline Open Tender 8.12 m

SILVERLINE

HYBRID PROPULSION Silverline Open Tender 8.12 m

OPPORTUNITIES

- No emissions and noise at slow speeds
- Reduced fuel costs
- Access to restricted waters
- Easier manoeuvring
- No fear of empty batteries
- Smaller engine can achieve the same acceleration

RESEARCH – FLAX-FIBRE SANDWICH PANELS

RENEWABLE MATERIALS Research – Flax-fibre sandwich panels

IN-HOUSE LABORATORY TESTING NOVEL MATERIALS

- Examining new materials
- Verifying their properties
- DSC thermal analysis to ISO 11357-1
- Dielectric measurement
- Tensile, compression and shear tests
- Setting quality standards
- Improving material quality

We don't guess, we find out!

OUR RESEARCH PROJECT Building with flax-fibre sandwich panels

- Designing the panels
- Using natural cork as core material.

• Assessing different types of flax fibre.

 Achieving comparable properties to conventional E-glass with PVC foam core.

RENEWABLE MATERIALS Research – Flax-fibre sandwich panels

Different types of non-crimp flax fabrics Flax fibres in bio-based epoxy matrix as top layer for panels

RENEWABLE MATERIALS Research – Flax-fibre sandwich panels

BEND, STRETCH AND SHEER TESTING OF FLAX FIBRES IN A BIO-BASED EPOXY MATRIX

- Flax showed greater stability than standard lay-up
- Tension test in accordance with DIN EN ISO 527

RENEWABLE MATERIALS Research – Flax-fibre sandwich panels

WHY CORK CORE ?

FLAX-FIBRE SANDWICH PANELS The renewable alternative

- Only slightly heavier
- Better fire resistance / retardance

Near identical mechanical properties to conventional panels

• Flax fibres are hollow, giving more stability on impact

Cork core has better acoustic properties than conventional panels

• Ultimate sustainability – cork regrows without harming the tree

SUSTAINABILITY ACROSS OUR SHIPYARD

SUSTAINABILITY Across our shipyard

SUSTAINABILITY AT YACHTWERFT MEYER

Geothermal heating system at our office building for more than 10 years

Environmentally integrated wash-down area for boats, protecting the river and surroundings from contamination

Workshops thermally insulated beyond the norm, heating with the latest technology

All lights within the yard are LEDs

Paint shop equipped with air filters to minimise particulate pollution

SUSTAINABILITY Across our shipyard

Heated production hall with • 9m x 3m x 1.5m 5-axis milling machine 6.5m x 3m 3-axis milling machine

> Office with its own engineering and design department

Office for possible construction supervision

Measurement laboratory

SUSTAINABILITY AT **YACHTWERFT MEYER**

Responsible disposal of oil and bilge water, as well as paint

Use of bio-based oil in all hydraulic machinery and lifting appliances minimizes the risk of contaimination.

Electric crane, not diesel

YWM's office is going paperless and the company is testing new ways to perform tasks digitally

