

Case Study Mirabella V



Background:

Mirabella V (MV) is the World's largest single-masted yacht.

The mast is so high, it means the superyacht is unable to pass under any bridge in the world, even the Golden Gate Bridge.

Challenges

Providing free air flow within a narrow profile whilst also acting as an insect barrier

- Salted water tested to ISO 9227
- Accelerated weather tested to ASTM G154
- Humidity tested to ISO 6270
- Lightweight (only 1.1 kgs/square metre)

The Problem:

Modern technologies in spars, rigging, sailmaking, powered winches and electronics enable rigs with larger sail areas, higher aspect ratios, larger loads and simpler handling, which enabled Mirabella V to be constructed.



IMO: 8979374

Name: M5

Vessel Type - Generic: Pleasure Craft

Vessel Type - Detailed: Yacht

Navigational Status: Active

MMSI: 319191100

Call Sign: MDJS3

Flag: Cayman Is [KY]

Gross Tonnage: 1017

Summer DWT: 66 t

Length Overall x Breadth Extreme: 84.7 x 16.7 m

Year Built: 2004

Microlouvre Koolshade® was installed in the critical areas of air handling ventilation, providing the necessary free air flow within a narrow profile whilst being very light and durable. The fine louvres also act as an insect barrier and are able to withstand corrosion from the elements.

RESULTS

- 80% open area for free airflow
- 80% open area for outward visibility
- Heat and fire-proof
- Hurricane force 12 wind resistant
- Light and durable