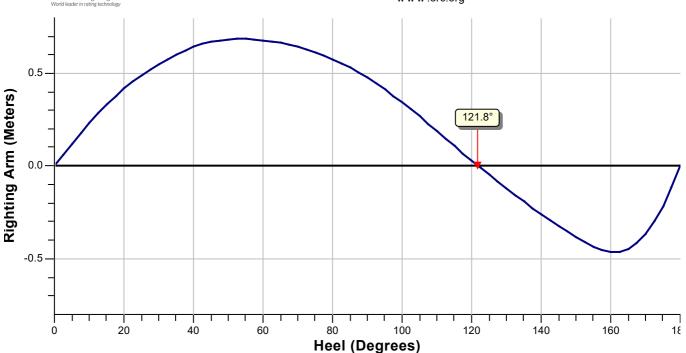


STABILITY AND HYDROSTATICS DATASHEET

© Offshore Racing Congress 2019 www.orc.org



STABILITY CURVE

Righting Moment at 1° 129.5k Stability Curve Positive Area 54.949 Stability Curve Ratio 3.3208 Stability Index 121.3 Limit of positive stability 121.8° Stability Curve Negative Area 16.547 BLR Index 0.0000

Righting Arm (meters)

±0° ±90° ±2° ±10° ±20° ±25° ±30° ±40° ±60° ±120° ±150° ±165° ±180° 682kg 0.000 Default Crew Weight 0.049 0.233 0.418 0.490 0.549 0.644 0.679 0.029 -0.383 -0.447 0.000 0.477

Declared Crew Weight **780kg** 0.000 0.048 0.231 0.414 0.484 0.543 0.637 0.667 0.462 0.017 -0.388 -0.446 0.000 0.000

BOAT

Name DARK & STORMY

Sail Number SM69

Class Murray 37

Designer Ian MURRAY

Builder PACESETTER

Age Date 12/1993

Measured 07/10/2019

Measurer John Duffin

Issued On 23/10/2019 - VPP 2019 1.01

FLOTATION (MEASUREMENT TRIM)

Forward Freeboard at 0.300m **1.215m**Freeboard at mast at 4.290m **1.095m**

Aft Freeboard at 10.850m 1.017m

1.01711

Overhang Forward 0.464m

Overhang Aft 1.006m
Length Waterline 9.914m

MOVABLE BALLAST

Arm Canting Keel Angle
Weight List Angle

HULL CHARACTERISTICS (MEASUREMENT TRIM)

Length Overall 11.560m

Max. Beam 3.446m Max. Beam Station 7.400m

Draft 2.735m Max. Draft Station 6.095m

Moment Unit Trim 9.1kg•m/mm

Displacement Unit Immersion 18.99kg/mm

Block Coefficient 0.3883 Prismatic Coefficent 0.5391

HYDROSTATIC DATA		
Trim	Measurement	Sailing
Displacement	4,685kg	5,601kg
Wetted Area	25.89m²	27.71m²
Water Plane Area	18.17m²	19.60m²
Water Plane Beam	2.717m	2.803m
Longitud. Centre of Flotation	6.241m	6.398m
Longitud. Centre of Buoyancy	5.949m	6.073m
Vertical Centre of Gravity	-0.104m	0.056m
Max. Section Area	1.03m²	1.15m²
Max. Section Area Station	5.686m	5.686m

Sail Area Upw ind 83.02m²

Sail Plan Centre of Effort Height 7.748m

Rating Office

Australian Sailing Ltd Locked Bag 806 Milsons Point NSW 1565



Owner DONTSCHUK/KOURTIS/ME

16 CLONAIG STREET EAST BRIGHTON VIC 3187

I certify that I understand my responsibilities under ORC Rules and Regulations

Signature