



6



INTERNATIONAL SIX METRE CLASS

Yacht's Name	<i>STELLA</i>		
National Letters & Sail Number	<i>GBR 112</i>	Fleet	<i>OPEN</i>
Designer	<i>Juan Kouyoumdjian</i>	Design Year	<i>2017</i>
Builder	<i>Javi Cela O Grove</i>	Build Year	<i>2017</i>
Owner	<i>Six Metre Sailing Ltd</i>	World Sailing Building Plaque no. (If built after 1 Jan 1991)	<i>1103</i>

RATING CERTIFICATION ISMA

This yacht has been measured by the measurer(s) noted below, who is(are) approved by the yacht's Member National Authority (MNA) or by ISMA, to certify that it has been found to rate not more than 6.000:

Dated (certification start date)	<i>29/06/2023</i>
Measured by	<i>David Chivers</i>
On Behalf of MNA	<i>RYA</i>
Valid until	<i>28/06/2027</i>
Supersedes	<i>10/04/2019</i>
Place & Time of Measurements	<i>Palma Majorca</i>
Conditions at Flotation (wind, water & temperature)	<i>Light wind with flat water</i>
SG (specific gravity) of Water at Flotation	<i>1.025</i> kg/m ³
Any correction applied to flotation/freeboards due to conditions (mm)	<i>0</i> (Salt Water 1.025 kg/m ³ & Immersion in salt/fresh water = 0.012m)
Loadcell details/calibration	<i>Locally sourced load cell</i>

Stamp of MNA (or ISMA):



MNA (or ISMA) signature:

RATING CALCULATION**OVERALL LENGTH**

Overhang Forward to L1	0.680		
Overhang Aft to L1	2.293		
Total Overhang (Subtract)	2.973		

10.710

10.710

MEASURED LENGTH (L1 to L1)

Girth at Bow	0.828		
Twice vertical Height at Bow (Subtract)	0.600		
O at Bow	0.228		
Add 1 1/2 O at Bow (min 0.270 m)			
Girth at Stern	2.264		
Twice vertical Height at Stern (Subtract)	1.280		
O at Stern	0.984		

7.737

0.342

Add 1/3 O at Stern (min 0.200 m)			0.328
Add any penalty at O2 (see Rule 3. Length - only for boats after 1 Nov 1970)			0.000
Add any Beam and/or Displacement Penalty			0.000

CORRECT LENGTH L (Sum of L1 Length and O Bow/Stern Girth Corrections)

8.407

Skin d to d1 Port	1.872		
Chain d to d1 Port	1.872		
d Port	0.000	0.000	
Skin d to d1 Starboard	1.870		
Chain d to d1 Starboard	1.870		
d Starboard	0.000	0.000	
Add d			0.000

GIRTH MIDSHIP DIFFERENCES (2d)

0.000

RATED LENGTH (Sum of Correct Length and Midship Girth Differences 2d)

8.407

(Calc. only nec. for boats after 1 Nov 1970)

	Actual	Calc.
Mean Freeboard Bow O	0.851	0.851
Mean Freeboard Midship d	0.735	0.735
Mean Freeboard Stern O	0.730	0.730
Sum of Freeboards		2.316

Classic Immersion Marks d Freeboard (only for Classic Appendix A boats) n/a

Subtract F, 1/3 FREEBOARD (max 0.730)

0.772

0.730

7.677

Add Square root of TOTAL RATED SAIL AREA

6.543

TOTAL OF MEASUREMENTS

14.220

Add any Tumblehome and/or Draught Penalty 0.000 14.220

RATING Calculation - Total of Measurements (max 14.222)/2.37 (= not more than 6.000)

6.000

PENALTIES

Overhang Forward to L (LWL)	0.988	
Overhang Aft to L (LWL)	2.723	
Subtract from overall length		3.711
Add any increase to Aft L location due to Projections, Notches or Hollows		0.000

(see Measurement Instructions M18 & M20, including for rudder flaps extending aft further than CL of rudder stock axis)

WATERLINE LENGTH (LWL)

Minimum Displacement for Zero Penalty [m ³] (0.2*LWL+0.15) ³	3.716	
Minimum Weight for Zero Penalty [metric tons] (water of sg 1.025 tonne/m ³)	3.808	

DISPLACEMENT

WEIGHT [metric tons] (actual including added ballast)

Equivalent LWL for Zero Penalty ((weight/1.025) ³ -0.15)/0.2	7.005	
Difference	0.000	

DISPLACEMENT PENALTY (add 2x to L)

0.000

BEAM (minimum beam at 1/3 of midship freeboard)

Actual beam at 1/3 of midship freeboard	1.830	
Difference (if positive)	2.040	

BEAM PENALTY (add 4x to L, only for yachts laid down after Sept 1937)

0.000

TUMBLEHOME (max 2x 2% of Extreme Beam)

Extreme Beam	0.080	
Beam at deck	2.040	
Difference (if positive)	2.000	

TUMBLEHOME PENALTY (add 3x excess to Rating)

0.000

DRAUGHT (actual at deepest point) keel, rudder or wing tips (span not to exceed 1830mm)

Maximum Draught for Zero Penalty (0.16*LWL+0.5)	1.615	
Difference (if positive)	1.619	

DRAUGHT PENALTY (add 3x excess to Rating)

0.000

SAIL PLAN

Maximum Height of Sail Plan (max 13.000m above datum)	13.000	J	3.270	I	9.750	
Boom Height (min 400 to 1100mm from datum)	0.853	A	12.147	B	4.818	
Foretriangle area (max (J or spin boom)xI/2)	15.941			Rated Mainsail Area (AxB/2)	29.262	
Rated Foretriangle Area (85% of measured area)	13.549			Total Rated Sail Area (S)	42.811	
				VS	6.543	
Spinnaker boom (length in extension to outer end from fwd face of the mast)	3.270		110% J	3.597		

Sail Limits

Mainsail	Max girth at 1/2 height (MHW 67%)	3.228	Max girth at 3/4 height (MTW 39%)	1.879
Genoa	Max foot length (HFL J + 3.000)	6.270		
Spinnaker	Max luff SLU/leech SLE length (80% of vJ+vI + 2.500m)	10.726	Max foot breadth (SFL 250% J)	8.175

SPARS MEASUREMENTS

MAST CG from datum point (90mm above sheer) (CG position min 4.940m above datum)	5.650	Mast Weight (min 63.51kg)			63.5	Material
	Deck (min 132.7cm ²)	1/2 Height (min 147.4cm ²)	Forestay (min 95cm ²)	Head (min 37.4cm ²)		Fibreglass
MAST dimensions [mm]	130x165	130x165	130x165	080x085		
MAST sectional area [cm ²]	177	177	177	56		Builder & Yr
MAST section ratio [max 1.35]	1.269	1.269	1.269	1.063		Southern Spars
DECK MEASUREMENTS	Length	Aft width	Fwd width	Area m ²		Distance to sheer
Cockpit dimensions:	fwd (or single) cockpit	1.005	1.140	2.563		210
(max 2.700m ² & fwd keyhole	0.000	0.000	0.000	0.000		Total Area m ²
sheer distance min 200mm) aft keyhole	0.000	0.000	0.000	0.000		2.563
Hatch dimensions (max 0.400m ² & sheer min 300mm)	0.480	0.450	0.000	0.216		Distance to sheer
						1

NOTES & COMMENTS:

(include as many details as possible & all comments on measurements and/or conditions)

Eg.

No internal ballast but lifejackets included at 4.2kg

This certificate based on a weight and floatation check. Some other measurements checked within the difficult conditions and the girth measurements taken and added.

Measurements transferred from previous certificate.