



6



INTERNATIONAL SIX METRE CLASS

Yacht's Name	<i>Elghi II</i>		
National Letters & Sail Number	<i>GBR 74</i>	Fleet	<i>OPEN</i>
Designer	<i>F. Camatte</i>	Design Year	<i>1952</i>
Builder	<i>Attilio Chiesa & fils</i>	Build Year	<i>1952</i>
Owner	<i>Esben Poulsson</i>	World Sailing Building Plaque no. (If built after 1 Jan 1991)	<i>n/a</i>

RATING CERTIFICATION

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

Dated (certification start date)	<i>23/08/2023</i>
Measured by	<i>Andrew Yates</i>
On Behalf of NMA	<i>Royal Yachting Association</i>
Valid until	<i>22/08/2027</i>
Supercedes	<i>01/01/2019</i>
Place & Time of Measurements	<i>Bembridge Harbour - 18:00 / 23 August 2023</i>
Conditions at Flotation (wind, water & temp)	<i>5 knots / calm water</i>
SG (specific gravity) of Water at Flotation	<i>1.021</i> kg/m ³
Any correction applied to flotation/freeboards due to conditions (mm 2)	<i>(Salt Water 1.025 kg/m³ & Immersion in salt/fresh water = 0.012m)</i>
Loadcell details/calibration	<i>Weight from DSC Certificate with Corrections</i>

Stamp of NMA (or ISMA):



NMA (or ISMA) signature:

RATING CALCULATION**OVERALL LENGTH**

Overhang Forward to L1
Overhang Aft to L1
Total Overhang (Subtract)

	10.417	10.417
1.356		
1.336		
2.692		

MEASURED LENGTH (L1 to L1)

Girth at Bow
Twice vertical Height at Bow (Subtract)
O at Bow
Add 1½ O at Bow (min 0.270 m)

	7.725	
0.808		
0.600		
0.208		
	0.312	

Girth at Stern
Twice vertical Height at Stern (Subtract)
O at Stern
Add ⅓ O at Stern (min 0.200 m)
Add any penalty at O2 (see Rule 3. Length - only for boats after 1 Nov 1970)
Add any Beam and/or Displacement Penalty

1.935		
1.152		
0.783		
	0.261	
	0.000	
	0.000	

CORRECT LENGTH L (Sum of L1 Length and O Bow/Stern Girth Corrections)**8.298**

Skin d to d1 Port
Chain d to d1 Port
d Port
Skin d to d1 Starboard
Chain d to d1 Starboard
d Starboard
Add d

1.055		
1.050		
0.005	0.005	
1.050		
1.044		
0.006	0.006	
	0.011	

GIRTH MIDSHIP DIFFERENCES (2d)**0.022****RATED LENGTH (Sum of Correct Length and Midship Girth Differences 2d)****8.320**

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

	Actual	Calc.
Mean Freeboard Bow O	0.828	0.828
Mean Freeboard Midship d	0.689	0.689
Mean Freeboard Stern O	0.666	0.666
Sum of Freeboards		2.183

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

n/a

Subtract F, ⅓ FREEBOARD (max 0.730)

0.727

0.727**7.593****Add Square root of TOTAL RATED SAIL AREA****6.629****TOTAL OF MEASUREMENTS****14.222**

Add any Tumblehome and/or Draught Penalty

0.000

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

PENALTIES

Overhang Forward to L (LWL)	1.596	
Overhang Aft to L (LWL)	1.640	
Subtract from overall length		3.236
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] $(0.2 * LWL + 0.15)^3$	3.989	
Minimum Weight for Zero Penalty [metric tons] (water of sg 1.025 tonne/ m^3)	4.088	

DISPLACEMENT**WEIGHT [metric tons] (actual including added ballast)** **4.132**

Equivalent LWL for Zero Penalty $((\text{weight}/1.025)^{1/3} - 0.15)/0.2$	7.205	
Difference	0.000	

DISPLACEMENT PENALTY (add 2x to L)**0.000****BEAM** (minimum beam at $\frac{1}{3}$ of midship freeboard)

Actual beam at $\frac{1}{3}$ of midship freeboard	1.830	
Difference (if positive)	1.841	
	0.000	

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	0.072	
Beam at deck	1.844	
Difference (if positive)	1.832	
	0.000	

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 $(0.16 * LWL + 0.5)$	1.648	
Difference (if positive)	1.648	
	0.000	

DRAUGHT PENALTY (add 3x excess to Rating)**0.000****SAIL PLAN**

Maximum Height of Sail Plan (max 13.000m above datum)	12.994	J	3.670	I	9.728	(max 9.750m)
Boom Height (min 400 to 1100mm from datum)	0.928	A	12.066	B	4.770	
Foretriangle area (max (J or spin boom) \times l/2)	17.850	Rated Mainsail Area (AxB/2)		28.777		
Rated Foretriangle Area (85% of measured area)	15.172	Total Rated Sail Area (S)		43.949		
				VS	6.629	
Spinnaker boom (length in extension to outer end from fwd face of the mast)	3.670	110% J	4.037			

Sail Limits

Mainsail	Max girth at 1/2 height (MHW 67%)	3.195	Max girth at 3/4 height (MTW 39%)	1.860
Genoa	Max foot length (HFL J + 3.000m)	6.670		
Spinnaker	Max luff SLU/leech SLE length (80% of VJ+VI + 2.500m)	10.817	Max foot breadth (SFL 250% J)	9.175

SPARS MEASUREMENTS

MAST CG from datum point (90mm above sheer) (CG position min 4.940m above datum)	0.000	Mast Weight (min 63.51kg)	0	Material	Aluminium
	Deck (min 132.7cm ²)	1/2 Height (min 147.4cm ²)	Forestay (min 95cm ²)	Head (min 37.4cm ²)	
MAST dimensions [mm]	122x164	122x164	122x164	070x087	
MAST sectional area [cm ²]	165	165	165	50	Builder & Yr
MAST section ratio [max 1.35]	1.344	1.344	1.344	1.243	Unknown

DECK MEASUREMENTS

Cockpit dimensions	Length	Aft width	Fwd width	Area m ²	Distance to sheer
fwd (or single) cockpit	0.000	0.000	0.000	0.000	0
(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	0.000
Hatch dimensions (max 0.400m ² & sheer min 300mm)	0.000	0.000	0.000	0.000	Distance to sheer
					0

NOTES & COMMENTS:

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

Bow Reference Height @ 1.025 from stainless bow plate	923 mm
Stern Freeboard @ 1.025 from hull to transom intersection	454 mm

Anchor & Chain (14kg) + Weighted Rope (10kg) - Stored under floor by helm seat

Ballast - 12kg & 6kg Blocks under floor midships (By primary winches)

Battery 1 - 7kg by Rudder Stock

Battery 2 - 7kg By Mast

Additional Weight from DSV Weighing

6kg Ballast

2 x Batteries - 14kg

Electronics - 4kg

Winch & Chainplate upgrades 10kg

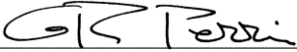

Total - 34kg

INTERNATIONAL SIX METRE CLASS

6 Classic

Yacht's Name	<u>Aida</u>	ISAF N°
National letters and Sail Number	<u>ESP-59</u>	Club	<u>Club Nautico la Penela</u>
Designer	<u>Bjorne Aas</u>	Design year	<u>1936</u>
Builder	<u>Bjorne Aas</u>	Building Year	<u>1936</u>
Owner	<u>Juan Carlos Escotet Francisco Botas</u>		
Owner's Address		

Lloyds R class certificate (Number or Date) Norske Veritas

RATING CERTIFICATE	Salt Water 1.025 kg/dm3
This yacht has been measured by measurer(s) approved by this Authority and has been found to rate not more than 6.000 metres or 6.03m if in fresh water <i>Immersion salt/fresh water = [m] 0,012</i>	
This certificate is dated	<u>22.04.22</u> <u>Sanxexo</u>
and its validity confirmed by	<u>G.R.Perrin</u>
for	<u>Swiss Sailing</u>
Valid until	<u>21-Apr-26</u>
Supersedes	<u>20-Apr-18</u> (enter former certif. number or date)
Signature 	Stamp of Authority Firmado por BONILLA PAZ RAFAEL JUAN - ***5607** elodia 25/09/2024 con un 
Comments :	

OVERALL LENGTH		11,400
Overhang Forward to L1	1,599	
Overhang Aft to L1	2,058	
Total Overhang (Subtract)	3,657	
MEASURED LENGTH (L1 L1)		7,743
Girth at Bow	0,803	
Twice vertical Height at Bow (Subtract)	0,600	
O at Bow	0,203	
Add 1 1/2 O at Bow (min 0.270 m)	0,305	
Girth at Stern	2,043	
Twice vertical Height at Stern (Subtract)	1,260	
O at Stern	0,783	
Add 1/3 O at Stern (min 0.200 m)	0,261	
Add any penalty (Displ. & Beam)	0,000	
CORRECT LENGTH L		8,309
Skin d to d1 Port	1,706	
Chain d to d1 Port	1,704	
d Port	0,002	
Skin d to d1 Starboard	1,704	
Chain d to d1 Starboard	1,702	
d Starboard	0,002	
Add d	0,004	
Add GIRTH 2 d		0,008
Mean Freeboard Bow O	Actual	0,840
Mean Freeboard Midship d	Actual	0,670
Mean Freeboard Stern O	Actual	0,720
Sum of Freeboards		2,194
Subtract FREEBOARD, F (max 0.730 if build after 1934)		0,730
Add SAIL AREAS (Square root)		6,633
TOTAL OF MEASUREMENTS		14,220
PENALTY (Draught)		0,000
RATING		6,00

PENALTIES

Overhang Forward to L	1,860	Overhang Aft to L	2,291
Subtract from overall length			4,151
Difference of immersion from salt to fresh water [m]			0,012
Appendix A delta			
WATERLINE LENGTH			7,249
Minimum Displacement for Zero Penalty [m3]			4,094
Minimum Weight for Zero Penalty [ton] (Water of sg 1.025)			4,197
DISPLACEMENT (by weighing)			4,203
Equivalent LWL (for Displ. < min.)	7,253	Difference	
DISPLACEMENT PENALTY (add to L)			0,000
DRAUGHT (actual)			1,610
Max. Draught for Zero Penalty	1,660	Difference (if positive)	
DRAUGHT PENALTY (add to Rating)			0,000
BEAM (Min)			1,830
Max Beam at 1/3 of Midship Freeboard	1,845	Difference (if positive)	
BEAM PENALTY (add to L, for yacht build or designed after sept 1937)			0,000
Tumblehome Max. (2 x 2% of Extr. Beam)			0,074
Extreme Beam	1,845	Beam at deck	1,845
Difference (if positive)			
TUMBLEHOME PENALTY (add to Rating)			0,000

SAIL PLAN

Max Height of Sail Plan (Max 13.00m)	13,000	J=	3,450	I =	9,750
Boom Height =	0,750	A=	12,250	B=	4,850
Rated Foretriangle Area	14,296	Rated Mainsail Area	29,706		
TOTAL RATED SAIL AREA	44,002	SQRT(S)	6,633	110% J	3,795
SAIL LIMITS					
Mainsail:	max girth at 1/2 height 67%	3,250	Max girth at 3/4 height 39%	1,892	
Genua:	max. foot length (J + 3m)	6,450	Spi boom =	3,450	
Spinnaker:	max. luff length	10,774	foot max breadth (250% J)	8,625	

SPARS MEASUREMENTS

MAST CG position (from meas. point)		Mast Weight		Material	0,00
	Deck	Half-Height	Jib-Halyard	Head	Builder
Mast dimensions [mm]					0,000
Mast section area [cm ²]					
Mast section ratio (Max 1.35)					

DECK MEASUREMENTS

	Length	Aft width	Front width	Area	Dist.to sheerline
Cockpit dimensions (max 2.70m2)	0,000	0,000	0,000	0,000	
Hatch dimensions (max 0.4 m2)					
	Length	Width	Depth		
Spi boom recess on deck					

Date and place of Measurement	22.04.2022	Sanxexo
Measurer's Name(s)	G.R.Perrin	
Measurer recognised by : (enter National Authority)	Swiss Sailing	
Measurer's signature		



6



INTERNATIONAL SIX METRE CLASS

Yacht's Name	<i>Alibaba II</i>		
National Letters & Sail Number	<i>ESP 50</i>	Fleet	<i>CLASSIC</i>
Designer	<i>Tore Holm</i>	Design Year	<i>1948</i>
Builder	<i>AB Tore Holm Yacht arv</i>	Build Year	<i>1948</i>
Owner	<i>Miguel Lago</i>	World Sailing Building Plaque no. (if built after 1 Jan 1991)	<i>n/a</i>

RATING CERTIFICATION

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>07/09/2024</i>
Measured by	<i>Antonio Cardona</i>
On behalf of MNA	<i>RFEV</i>
Valid until	<i>06/09/2028</i>
Supersedes	<i>08/04/2023</i>
Place of measurements & flotation	<i>Sanxenxo</i>
Conditions at location of flotation	<i>0 knots with flat water at 15°C</i> (Include details of wind & water conditions, air temperature & the time of day)
SG (specific gravity) of water at flotation	<i>1,022</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>gram c5, last calibration 27-08-24</i>

Stamp of MNA (or ISMA):



MNA (or ISMA) signature:

Firmado por BONILLA
PAZ RAFAEL JUAN -
***5607** el día
24/09/2024 con un
certificado emitido

RATING CALCULATION**OVERALL LENGTH**

Overhang Forward to L1	1,287	10,843	10,843
Overhang Aft to L1	2,030		
Total Overhang (Subtract)	3,317		

MEASURED LENGTH (L1 to L1)

Girth at Bow	0,809	7,526	
Twice vertical Height at Bow (Subtract)	0,600		
O at Bow (min 0.180 m)	0,209		
Add 1 1/2 O at Bow (min 0.270 m)		0,313	
Girth at Stern	2,059		
Twice vertical Height at Stern (Subtract)	1,190		
O at Stern	0,869		
Add 1/3 O at Stern (min 0.200 m)		0,289	
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)

Skin d to d1 Port	1,800		
Chain d to d1 Port	1,794		
d Port	0,006	0,006	
Skin d to d1 Starboard	1,801		
Chain d to d1 Starboard	1,795		
d Starboard	0,006	0,006	
Add d		0,012	

GIRTH MIDSHIP DIFFERENCES (2d)**RATED LENGTH (Sum of Correct Length and Midship Girth Differences 2d)**

(Calc. only nec. for boats after 1 Nov 1970)	Actual	Calc.		
Mean Freeboard Bow O	0,864	0,864		
Mean Freeboard Midship d	0,731	0,731		
Mean Freeboard Stern O	0,685	0,685		
Sum of Freeboards		2,280		
Classic Immersion Marks d Freeboard (only for Classic Appendix A boats)		n/a		

Subtract F, 1/2 FREEBOARD (max 0.730)

	0,760	0,730	7,422
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Add Square root of TOTAL RATED SAIL AREA

		6,799	
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TOTAL OF MEASUREMENTS (max 14.222)

			14,221
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RATING Calculation (Total of Measurements/2.37)

			6,000
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Tumblehome and/or Draught Penalty (to be added to the Rating)		0,000	
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FINAL RATING (not more than 6.000)

			6,000
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PENALTIES

Overhang Forward to L (LWL)	1,492		
Overhang Aft to L (LWL)	2,218		
Subtract from overall length		3,710	10,843
Add any increase to L due to Projections, Notches or Hollows (Aft R5 & Fwd M18)		0,000	
<small>(see Rule 5 Hollows, Measurement Instructions M18 & M20, also include rudder flaps extending aft further than CL of rudder stock axis @ LWL)</small>			
WATERLINE LENGTH (LWL)			7,133
Minimum Displacement for Zero Penalty [m ³] (0.2*LWL+0.15) ³		3,914	
Minimum Weight for Zero Penalty [metric tons] (water of sg 1.025 tonne/m ³)		4,011	
DISPLACEMENT WEIGHT [metric tons] (actual including added ballast)			4,180
Equivalent LWL for Zero Penalty ((weight/1.025) ³ -0.15)/0.2		7,235	
Difference		0,000	
DISPLACEMENT PENALTY (add 2x to L)			0,000
BEAM (minimum beam at 1/2 of midship freeboard above LWL)		1,830	
Actual beam at 1/2 of midship freeboard		1,840	
Difference (if less than minimum allowed)		0,000	
BEAM PENALTY (add 4x to L, only for yachts laid down after Sept 1937)			0,000
TUMBLEHOME (max 2x 2% of Extreme Beam)		0,072	
Extreme Beam		1,840	
Beam at deck		1,785	
Difference (if greater than maximum allowed)		0,000	
TUMBLEHOME PENALTY (add 3x excess to Rating)			0,000
DRAUGHT (actual at deepest point) keel, rudder or wing tips (span not to exceed 1830mm)		1,641	
Maximum Draught for Zero Penalty (0.16*LWL+0.5)		1,641	
Difference (if greater than maximum allowed)		0,000	
DRAUGHT PENALTY (add 3x excess to Rating)			0,000

SAIL PLAN

Height of Sail Plan (max 13.000m above datum)	13,000	J	3,500	I	9,750
Boom Height (min. 400 to max. 1100mm above datum)	0,900	A	12,100	B	5,245
Foretriangle area (max (J or spin boom)xI/2)	17,062	Rated Mainsail Area (Ax8/2)		31,732	
Rated Foretriangle Area (85% of measured area)	14,502	Total Rated Sail Area (s)		46,234	
pinnaker boom (length in extension to outer end from fwd face of the mast)	3,500	vs		6,799	

Sail Limits

Mainsail	Max girth at 1/2 height (MHW 6)	3,514	Max girth at 3/4 height (MTW 39%)	2,045
Genoa	Max foot length (HFL J + 3.00)	6,500		
Spinnaker	Max luff SLU/leech SLE length (80% of VJ+VI +2.500m)	10,787	Max foot breadth (SFL 250% J)	8,750

SPARS MEASUREMENTS

MAST CG from datum point (90mm above sheer)	4,940	Mast Weight (min 63.51kg)	63,75	Material
(CG position min 4.940m above datum)				Aluminium
MAST dimensions [mm]	Deck (min 132.7cm ²)	1/2 Height (min 147.4cm ²)	Forestay (min 95cm ²)	Head (min 37.4cm ²)
	129x161	127x161	127x158	076x110
MAST sectional area [cm ²]	171	169	165	69
MAST section ratio [max 1.35]	1,248	1,268	1,244	1,447
				Builder & Yr

DECK MEASUREMENTS

Cockpit dimensions:	Length	Aft width	Fwd width	Area m ²	Distance to sheer
(max 2.700m ² & fwd keyhole)	1,595	0,795	0,760	1,240	200mm
sheer distance min 200mm) aft keyhole	0,920	1,077	0,640	0,789	Total Area m ²
Hatch dimensions (max 0.400m ² & sheer min 300mm)	0,866	0,920	0,630	0,671	2,700
	0,500	0,500	0,500	0,250	Distance to sheer
					300mm

NOTES & COMMENTS:

Measurements		International six metre class yacht		Astrée III		FIN-80	
OVERALL LENGTH							
Overhang Forward to L1		1.388					10.918
Overhang Aft to L1		1.751					
MEASURED LENGTH (L1 L1)							
Girth at Bow		0.810		Girth at Stern		1.962	
2x vertical Height at Bow (Subtract)		0.600		2x vertical Height at Stern (Subtract)		1.164	
O at Bow		0.210		O at Stern		0.798	
Add 1 1/2 O at Bow (min 0.270)			0.315	Add 1/3 O at Stern (min 0.200 after 1961)		0.266	
Add any penalty (displ. and beam)						0.000	
CORRECT LENGTH L							
Skin d to d1 Port		1.713		Skin d to d1 Starboard		1.714	
Chain d to d1 Port		1.712		Chain d to d1 Starboard		1.713	
d Port		0.001		d Starboard		0.001	
Add d						0.002	
Add GIRTH 2 d							
Mean Freeboard Bow O Actual		0.828					0.004
Mean Freeboard Midship d Actual		0.710					
Mean Freeboard Stern O Actual		0.672					
Subtract FREEBOARD, F (max 0.730)							
Add SAIL AREAS (Square root)						0.737	0.730
TOTAL OF MEASUREMENTS							
Total of measurements divided by		2.37					6.585
PENALTY (draught and tumble home)							14.219
FINAL RATING						0.000	5.999578
							6.000

PENALTIES

Overhang Forward to L	bow Δ L-L1	0.252	1.640	Total overhang (Subtract from overall length)	3.658
Overhang Aft to L	aft Δ L-L1	0.267	2.018	Differ. of immersion from salt water to fresh	0.011
WATERLINE LENGTH Actual					
DISPLACEMENT (by weighing)	weight (tons)	4.288		Minimum Weight for Zero Penalty (ton) (Water of sg 1.025ton/m ³)	4.214
Displacement in m ³		4.183		Minimum Displacement for Zero Penalty, m ³	4.111
Equivalent LWL (for Displ. < min.)		7.307		= (0.2*LWL+0.15) ³	
Difference (eq. Lwl - actual Lwl) (if positive penalty)		-0.047		DISPLACEMENT PENALTY (add 2x to L)	0.000
DRAUGHT (actual)					
Max. Draught for Zero Penalty (0.16*LWL+0.5)		1.662		Difference (if positive penalty)	-0.017
BEAM (Min)		1.830		DRAUGHT PENALTY (add 3x excess to Rating)	0.000
Max Beam at 1/3 of Midship Freeboard		1.870		Difference (if positive penalty)	-0.040
Tumblehome Max. (2% of Extr. Beam)		0.037		BEAM PENALTY (add 4x to L)	0.000
Measured Tumblehome		0.005		Extreme Beam	1.870
Difference (if positive penalty)		-0.032		Beam at deck	1.860
				TUMBLEHOME PENALTY (add 3x excess to Rating)	0.000

SAIL PLAN


Mainsail luff length A =	11.975	Height of foretriangle I (max 9.75m) =	9.750	Height of Sail Plan (max 13m) =	13.000
Mainsail boom length B =	4.938	Base of foretriangle J =	3.330	Boom Height (400...1100mm) =	1.025
Rated Mainsail Area	29.566	Rated Foretriangle Area	13.799	Sail Area for Rating S =	43.365
SAIL LIMITS					
Mainsail half width, MHW	3.308	67 %	Genua foot length HFL	6.330	
Mainsail 3 quarter width MTW	1.926	39 %			
Spinnaker:					
Half width SHW 75% of 1/2 SFL	3.122	Foot length (250% J) SFL	8.325	Luff length SLU & SLE	10.742
				Boom length 1/4SFL	3.330

SPARS MEASUREMENTS

	Deck	Half-Height	Jib-Halyard	Head	New Alspar mast 2016
Mast dimensions (mm)	in rule	in rule	in rule	in rule	MAST CG position (from meas. point)
Mast section area (cm ²)	in rule	in rule	in rule	in rule	Mast Weight
Mast section ratio (max 1.35)	in rule	in rule	in rule	in rule	Mast material
					Aluminium

DECK MEASUREMENTS

Cockpit dimensions		Hatch dimensions		Spinnaker boom recess on deck	
Distance to sheerline				Length	
1st cockpit				Width	
2nd cockpit				Depth	
Total area of openings m ²	in rule		no hatch		

Date and place of Measurement	1.9.2021	Kotka	date
Measurer's Name(s)	Heikki Hämäläinen., 6m class OM FIN-81		
Measurer recognised by: (enter National Authority)	Finnish Sailing & Boating Federation		
Measurer's signature			





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INTERNATIONAL SIX METRE CLASS

Yacht's Name	<i>Bribon-Gallant</i>		
National Letters & Sail Number	<i>ESP 16</i>	Fleet	<i>CLASSIC</i>
Designer	<i>Arvid Laurin</i>	Design Year	<i>1947</i>
Builder	<i>Plyms Varv, Neglinge</i>	Build Year	<i>1947</i>
Owner	<i>RCNSanxenxo</i>	World Sailing Building Plaque no. (If built after 1 Jan 1991)	<i>n/a</i>

RATING CERTIFICATION

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>06/07/2023</i>		
Measured by	<i>Antonio Cardona Espin</i>		
On Behalf of MNA	<i>RFEV</i>		
Valid until	<i>05/07/2027</i>		
Supersedes	<i>29/04/2022</i>		
Place & Time of Measurements	<i>Sanxenxo</i>	<i>7:00</i>	
Conditions at Flotation (wind, water & ter	<i>2 knots light wind with flat water at 15°C</i>		
SG (specific gravity) of Water at Flotation	<i>1,025</i>	<i>kg/m³</i>	
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>KERN HFAST-3 WF19012330 (CALIBRATION 10-04-23)</i>		

Stamp of MNA (or ISMA):



MNA (or ISMA) signature:

Firmado por BONILLA
PAZ RAFAEL JUAN -
***5607** el día
31/08/2023 con un
certificado emitido

RATING CALCULATION

OVERALL LENGTH

Overhang Forward to L1	1,177		10,655	10,655
Overhang Aft to L1	1,757			
Total Overhang (Subtract)	2,934			

MEASURED LENGTH (L1 to L1)

Girth at Bow	0,751			
Twice vertical Height at Bow (Subtract)	0,600			
O at Bow (min 0.180 m)	0,151			
Add 1 1/2 O at Bow (min 0.270 m)			0,270	
Girth at Stern	1,970			
Twice vertical Height at Stern (Subtract)	1,160			
O at Stern	0,810			
Add 1/3 O at Stern (min 0.200 m)			0,270	
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)

Skin d to d1 Port	1,747			
Chain d to d1 Port	1,741			
d Port	0,006		0,006	
Skin d to d1 Starboard	1,746			
Chain d to d1 Starboard	1,741			
d Starboard	0,005		0,005	
Add d			0,011	

GIRTH MIDSHIP DIFFERENCES (2d)

			0,022	
--	--	--	-------	--

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

				8,283
--	--	--	--	-------

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

	Actual	Calc.
Mean Freeboard Bow O	0,846	0,846
Mean Freeboard Midship d	0,677	0,677
Mean Freeboard Stern O	0,670	0,670
Sum of Freeboards		2,193

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

n/a

Subtract F, 1/5 FREEBOARD (max 0.730)

	0,731	0,730	7,553
--	-------	-------	-------

Add Square root of TOTAL RATED SAIL AREA

		6,652	
--	--	-------	--

TOTAL OF MEASUREMENTS (max 14.222)

			14,205
--	--	--	--------

RATING Calculation (Total of Measurements/2.37)

			5,993
--	--	--	-------

Tumblehome and/or Draught Penalty (to be added to the Rating)

		0,003	
--	--	-------	--

FINAL RATING (not more than 6.000)

			5,996
--	--	--	-------

PENALTIES

Overhang Forward to L (LWL)	1,383		
Overhang Aft to L (LWL)	2,062		
Subtract from overall length		3,445	10,655
Add any increase to Aft L location due to Projections, Notches or Hollows (see Measurement Instructions M18 & M20, including for rudder flaps extending aft further than CL of rudder stock axis)		0,000	

WATERLINE LENGTH (LWL)

Minimum Displacement for Zero Penalty [m^3] $(0.2 \cdot LWL + 0.15)^3$	4,034		7,210
Minimum Weight for Zero Penalty [metric tons] (water of sg 1.025 tonne/ m^3)	4,134		

DISPLACEMENT**WEIGHT [metric tons] (actual including added ballast)** **4,145**

Equivalent LWL for Zero Penalty $((\text{weight}/1.025)^{3/2} - 0.15)/0.2$	7,215		
Difference	0,000		

DISPLACEMENT PENALTY (add 2x to L)**0,000****BEAM** (minimum beam at $\frac{1}{3}$ of midship freeboard)

Actual beam at $\frac{1}{3}$ of midship freeboard	1,830		
Difference (if positive)	1,847		
	0,000		

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	0,072		
Beam at deck	1,847		
Difference (if positive)	1,847		
	0,000		

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 $(0.16 \cdot LWL + 0.5)$	1,654		
Difference (if positive)	1,653		
	0,001		

DRAUGHT PENALTY (add 3x excess to Rating)**0,003****SAIL PLAN**

Maximum Height of Sail Plan (max 13.000m above datum)	13,000	J	3,350	I	9,750
Boom Height (min 400 to 1100mm from datum)	0,880	A	12,120	B	5,013
Foretriangle area (max (J or spin boom) \times l/2)	16,331			Rated Mainsail Area (A \times B/2)	30,378
Rated Foretriangle Area (85% of measured area)	13,881			Total Rated Sail Area (S)	44,259
				VS	6,652

Spinnaker boom (length in extension to outer end from fwd face of the mast)	3,350	110% J	3,685	
---	-------	--------	-------	--

Sail Limits

Mainsail	Max girth at 1/2 height (MHW 67%)	3,358	Max girth at 3/4 height (MTW 39%)	1,955
Genoa	Max foot length (HFL J + 3.00m)	6,350		
Spinnaker	Max luff SLU/leech SLE length (80% of vJ+vI + 2.500m)	10,747	Max foot breadth (SFL 250% J)	8,375

SPARS MEASUREMENTS

MAST CG from datum point (90mm above sheer) (CG position min 4.940m above datum)	5,430	Mast Weight (min 63.51kg)	64.06 kg	Material	Aluminium
MAST dimensions [mm]	Deck (min 132.7cm ²)	1/2 Height (min 147.4cm ²)	Forestay (min 95cm ²)	Head (min 37.4cm ²)	
MAST sectional area [cm ²]	123x166	123x166	123x166	095x095	
MAST section ratio [max 1.35]	168	168	168	74	Builder & Yr
	1,350	1,350	1,350	1,000	John Mast 2023

DECK MEASUREMENTS

Cockpit dimensions:	Length	Aft width	Fwd width	Area m ²	Distance to sheer
fwd (or single) cockpit	3,070	1,025	0,730	2,693	200mm
(max 2.700m ² & fwd keyhole	-	-	-	#iVALOR!	Total Area m ²
sheer distance min 200mm) aft keyhole	-	-	-	#iVALOR!	2,693
Hatch dimensions (max 0.400m ² & sheer min 300mm)	0,500	0,500	0,500	0,250	Distance to sheer
					300mm

NOTES & COMMENTS:

06/07/2023 Nauta Sanxenxo - flotation & weighing for revalidation checks.
Flat water with no wind.
No extra weight - anchor (10kg) positioned forward of the mast with line.



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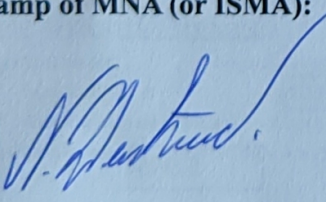
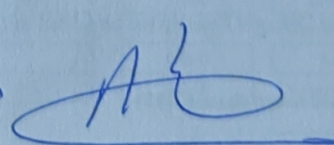
INTERNATIONAL SIX METRE CLASS

Yacht's Name	<i>Essentia</i>		
National Letters & Sail Number	<i>ROU 65</i>	Fleet	<i>CLASSIC</i>
Designer	<i>Olin Stephens</i>	Design Year	<i>1956</i>
Builder	<i>J.J. Taylor & Son, Toronto</i>	Build Year	<i>1956</i>
Owner	<i>Association Club Sportiv Callatis YC</i>	World Sailing Building Plaque no. (If built after 1 Jan 1991)	<i>n/a</i>

RATING CERTIFICATION

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>27/09/2024</i>
Measured by	<i>Antonio Cardona</i>
On behalf of MNA	<i>ISMA</i>
Valid until	<i>06/10/2024</i>
Supersedes	<i>26/06/2024</i>
Place of measurements & flotation	<i>Sanxenxo</i>
Conditions at location of flotation	<i>1 knot, flat water, 15 degrees C in the marina</i>
<small>(Include details of wind & water conditions, air temperature & the time of day)</small>	
SG (specific gravity) of water at flotation	<i>1.025</i> <i>kg/m³</i>
Any correction applied to flotation/freeboards due to conditions (mm)	<i>0</i>
<small>(Salt Water 1.025 kg/m³ & Immersion in salt/fresh water = 0.012m)</small>	
Loadcell details/calibration	<i>Scale gram c5 5.000 tons, calibration 27/08/2024</i>

Stamp of MNA (or ISMA):	MNA (or ISMA) Print Name:
	<i>CANARD BERTHOUD</i>
	Signature:
	<i>A. CARDONA</i> 

RATING CALCULATION**OVERALL LENGTH**

Overhang Forward to L1
 Overhang Aft to L1
 Total Overhang (Subtract)

1.440
2.000
3.440

11.241
11.241

MEASURED LENGTH (L1 to L1)

Girth at Bow
 Twice vertical Height at Bow (Subtract)
 O at Bow (min 0.180 m)
 Add 1 1/2 O at Bow (min 0.270 m)
 Girth at Stern
 Twice vertical Height at Stern (Subtract)
 O at Stern
 Add 1/3 O at Stern (min 0.200 m)
 Add any penalty at O2 (see Rule 3. Length - only for boats after 1 Nov 1970)
 Add any Beam and/or Displacement penalty

0.781
0.600
0.181
2.037
1.238
0.799

7.801

0.271

0.266
0.000
0.074

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

8.412

Skin d to d1 Port
 Chain d to d1 Port
 d Port
 Skin d to d1 Starboard
 Chain d to d1 Starboard
 d Starboard
 Add d

1.032
1.030
0.002
1.001
0.999
0.002

0.002

0.002
0.004

GIRTH MIDSHIP DIFFERENCES (2d)

0.008

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

8.420

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

	Actual	Calc.
Mean Freeboard Bow O	0.811	0.811
Mean Freeboard Midship d	0.706	0.706
Mean Freeboard Stern O	0.709	0.709
Sum of Freeboards		2.226

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

n/a

Subtract F, 1/3 FREEBOARD (max 0.730)

0.742

0.730
7.690

Add Square root of TOTAL RATED SAIL AREA

6.528

TOTAL OF MEASUREMENTS (max 14.222)

14.218

RATING Calculation (Total of Measurements/2.37)

5.999

Tumblehome and/or Draught Penalty (to be added to the Rating)

0.000

FINAL RATING (not more than 6.000)

5.999

PENALTIES

Overhang Forward to L (LWL)
 Overhang Aft to L (LWL)
 Subtract from overall length

1.699
2.240

3.939	11.241
-------	--------

Add any increase to L due to Projections, Notches or Hollows (Aft R5 & Fwd M18)
 (see Rule 5 Hollows, Measurement Instructions M18 & M20, also include rudder flaps extending aft further than CL of rudder stock axis @ LWL)

0.000

WATERLINE LENGTH (LWL)

Minimum Displacement for Zero Penalty [m3] $(0.2 \cdot LWL + 0.15)^3$

4.173

7.302

Minimum Weight for Zero Penalty [metric tons] (water of sg 1.025 tonne/m3)

4.277

DISPLACEMENT

WEIGHT [metric tons] (actual including added ballast)

4.229

Equivalent LWL for Zero Penalty $((\text{weight}/1.025) \sqrt[3]{-0.15})/0.2$

Difference

7.265

DISPLACEMENT PENALTY (add 2x to L)

0.037

0.074

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

Actual beam at 1/3 of midship freeboard

1.830

Difference (if less than minimum allowed)

1.872

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

0.000

0.000

TUMBLEHOME (max 2x 2% of Extreme Beam)

Extreme Beam

0.074

Beam at deck

1.872

Difference (if greater than maximum allowed)

1.866

TUMBLEHOME PENALTY (add 3x excess to Rating)

0.000

0.000

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

Maximum Draught for Zero Penalty $(0.16 \cdot LWL + 0.5)$

1.618

Difference (if greater than maximum allowed)

1.668

DRAUGHT PENALTY (add 3x excess to Rating)

0.000

0.000

SAIL PLAN

Height of Sail Plan (max 13.000m above datum)

13.000

J

3.450

I

(max 9.750m) 9.750

Boom

1.100

A

11.900

B

4.760

Foretr:

16.818

Rated

14.295

Rated Mainsail Area (AxB/2)

28.322

Total Rated Sail Area (S)

42.617

Spinnaker boom (length in extension to outer end from fwd face of the mast)

3.450

\sqrt{S}

6.528

Sail Limits

Mainsail

Max girth at 1/2 height (MHW 67%)

3.189

Max girth at 3/4 height (MTW 39%)

1.856

Genoa

Max foot length (HFL J + 3.000m)

6.450

Spinnaker

Max luff SLU/leech SLE length (80% of $\sqrt{J} + \sqrt{I} + 2.500\text{m}$)

10.773

Max foot breadth (SFL 250% J)

8.625

SPARS MEASUREMENTS

MAST CG from datum point (90mm above sheer)

(CG position min 4.940m above datum)

--

Mast Weight (min 63.51kg)

--

Material

Deck
(min 132.7cm2)

125x167

1/2 Height
(min 147.4cm2)

125x167

Forestay (min 95cm2)

122x164

Head
(min 37.4cm2)

075x089

Aluminium

MAST dimensions [mm]

MAST sectional area [cm2]

MAST section ratio [max 1.35]

172

172

165

55

Builder & Yr

1.336

1.336

1.344

1.187

John Mast DK

DECK MEASUREMENTS

Cockpit dimensions:

fwd (or single) cockpit

(max 2.700m2 &

fwd keyhole

sheer distance min 200mm)

aft keyhole

Hatch dimensions (max 0.400m2 & sheer min 300mm)

Length
1.700

Aft width
1.010

Fwd width
0.880

Area m2
1.606

Distance to sheer

0.000

0.000

0.000

0.000

Total Area m2

0.490

0.500

0.500

0.245

1.606

Distance to sheer

NOTES & COMMENTS:

27/9/24

Antonio Cardona & Canard Berthoud re-measure overhangs, freeboards & weight prior to 6mR Europeans in Sanxenxo.
Certificate valid for the duration of the European Championships 2024 until 06/10/2024.



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INTERNATIONAL SIX METRE CLASS

Yacht's Name	<i>Fun</i>		
National Letters & Sail Number	<i>FRA 11</i>	Fleet	<i>CLASSIC</i>
Designer	<i>Olin Stephens</i>	Design Year	<i>1937</i>
Builder	<i>Henry B. Nevins, NYC</i>	Build Year	<i>1937</i>
Owner	<i>Louis Heckly</i>	World Sailing Building Plaque no. (If built after 1 Jan 1991)	<i>n/a</i>

RATING CERTIFICATION

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>10/07/2023</i>		
Measured by	<i>GR Perrin & JP Marmier</i>		
On Behalf of MNA	<i>Yacht Club De France</i>		
Valid until	<i>09/07/2027</i>		
Supersedes	<i>10/06/2023</i>		
Place & Time of Measurements	<i>Villeneuve</i>		
Conditions at Flotation (wind, water & temp)			
SG (specific gravity) of Water at Flotation	<i>1.025</i>	kg/m³	
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			

Stamp of MNA (or ISMA):



MNA (or ISMA) signature:

RATING CALCULATION**OVERALL LENGTH**

Overhang Forward to L1
 Overhang Aft to L1
 Total Overhang (Subtract)

1.485

2.060

3.545

11.245

11.245

MEASURED LENGTH (L1 to L1)

Girth at Bow
 Twice vertical Height at Bow (Subtract)
 O at Bow
 Add 1½ O at Bow (min 0.270 m)
 Girth at Stern
 Twice vertical Height at Stern (Subtract)
 O at Stern
 Add ⅓ O at Stern (min 0.200 m)
 Add any penalty at O2 (see Rule 3. Length - only for boats after 1 Nov 1970)
 Add any Beam and/or Displacement Penalty

0.793

0.600

0.193

7.700

0.289

2.022

1.158

0.864

0.288

0.000

0.000

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

8.277

Skin d to d1 Port
 Chain d to d1 Port
 d Port
 Skin d to d1 Starboard
 Chain d to d1 Starboard
 d Starboard
 Add d

1.050

1.045

0.005

1.033

1.030

0.003

0.005

0.003

0.008

0.016

GIRTH MIDSHIP DIFFERENCES (2d)**RATED LENGTH (Sum of Correct Length and Midship Girth Differences 2d)**

8.293

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

Actual

Calc.

Mean Freeboard Bow O

0.819

0.819

Mean Freeboard Midship d

0.691

0.691

Mean Freeboard Stern O

0.669

0.669

Sum of Freeboards

2.179

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

n/a

Subtract F, ½ FREEBOARD (max 0.730)

0.726

0.726

7.567

Add Square root of TOTAL RATED SAIL AREA

6.654

TOTAL OF MEASUREMENTS (max 14.222)

14.221

Add any Tumblehome and/or Draught Penalty

0.000

14.221

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

6.000

PENALTIES

Overhang Forward to L (LWL)	1.774	
Overhang Aft to L (LWL)	2.333	
Subtract from overall length		4.107
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	3.921	
Minimum Weight for Zero Penalty [metric tons] (water of sg 1.025 tonne/m ³)	4.019	

DISPLACEMENT**WEIGHT [metric tons] (actual including added ballast)**

Equivalent LWL for Zero Penalty ((weight/1.025) ³ -0.15)/0.2	7.150	
Difference	0.000	

DISPLACEMENT PENALTY (add 2x to L)**BEAM** (minimum beam at 1/3 of midship freeboard)

Actual beam at 1/3 of midship freeboard	1.830	
Difference (if positive)	0.000	

BEAM PENALTY (add 4x to L, only for yachts laid down after Sept 1937)**TUMBLEHOME** (max 2x 2% of Extreme Beam)

Extreme Beam	0.072	
Beam at deck	1.830	
Difference (if positive)	1.760	

TUMBLEHOME PENALTY (add 3x excess to Rating)**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)	1.623	
Difference (if positive)	1.642	

DRAUGHT PENALTY (add 3x excess to Rating)**SAIL PLAN**

Maximum Height of Sail Plan (max 13.000m above datum)	13.000	J	3.250	I	9.750	(max 9.750m)
Boom Height (min 400 to 1100mm from datum)	0.725	A	12.205	B	5.050	
Foretriangle area (max (J or spin boom)xI/2)	15.843	Rated Mainsail Area (AxB/2)		30.817		
Rated Foretriangle Area (85% of measured area)	13.466	Total Rated Sail Area (S)		44.283		
				VS	6.654	
Spinnaker boom (length in extension to outer end from fwd face of the mast)	0.000	110% J	3.575			

Sail Limits

Mainsail	Max girth at 1/2 height (MHW 67%)	3.383	Max girth at 3/4 height (MTW 39%)	1.969
Genoa	Max foot length (HFL J + 3.000m)	6.250		
Spinnaker	Max luff SLU/leech SLE length (80% of √J+√I +2.500m)	10.721	Max foot breadth (SFL 250% J)	8.125

SPARS MEASUREMENTS

MAST CG from datum point (90mm above sheer) (CG position min 4.940m above datum)	5.200	Mast Weight (min 63.51kg)			63.80	Material
	Deck (min 132.7cm ²)	1/2 Height (min 147.4cm ²)	Forestay (min 95cm ²)	Head (min 37.4cm ²)		Aluminium
MAST dimensions [mm]	127x163	125x165	125x165	071x110		
MAST sectional area [cm ²]	171	170	170	64		Builder & Yr
MAST section ratio [max 1.35]	1.283	1.320	1.320	1.549		Allspars 2023

DECK MEASUREMENTS

Cockpit dimensions:	fwd (or single) cockpit	Length	Aft width	Fwd width	Area m ²	Distance to sheer
(max 2.700m ² &	fwd keyhole	0.000	0.000	0.000	0.000	-
sheer distance min 200mm)	aft keyhole	0.000	0.000	0.000	0.000	Total Area m ²
Hatch dimensions (max 0.400m ² & sheer min 300mm)		0.000	0.000	0.000	0.000	0.000
		0.000	0.000	0.000	0.000	Distance to sheer
						-

NOTES & COMMENTS:

Density of water at flotation 1.025

Location of anchor & battery: at mast level



6



INTERNATIONAL SIX METRE CLASS

Yacht's Name	<i>IAN</i>			
National Letters & Sail Number	<i>ESP 59</i>	Fleet RCNS	<i>CLASSIC</i>	Apendix A
			Second Rule	
Designer	<i>Gustaf Estlander</i>	Design Year	<i>1929</i>	
Builder	<i>Arendals varv Goteborg</i>	Build Year	<i>1929</i>	
Owner	<i>Cesar Elizaga</i>	World Sailing Building Plaque no.		
		(If built after 1 Jan 1991)		<i>n/a</i>

RATING CERTIFICATION

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>07/09/2024</i>
Measured by	<i>Antonio Cardona</i>
On behalf of MNA	<i>RFEV</i>
Valid until	<i>06/09/2028</i>
Supersedes	<i>20/11/2019</i>
Place of measurements & flotation	<i>Sanxenxo</i>
Conditions at location of flotation	<i>0 kns flat water 20 C</i>
	(Include details of wind & water conditions, air temperature & the time of day)
SG (specific gravity) of water at flotation	<i>1,022</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>Gram C5 last calibration 27-08-24</i>

Stamp of MNA (or ISMA):



MNA (or ISMA) signature:

Firmado por BONILLA PAZ RAFAEL
JUAN - ***5607** el día
24/09/2024 con un certificado
emitido por AC FNMT Usuarios

RATING CALCULATION**OVERALL LENGTH**

Overhang Forward to L1	1,625	11,355	11,355
Overhang Aft to L1	2,250		
Total Overhang (Subtract)	3,875		

MEASURED LENGTH (L1 to L1)

Girth at Bow	0,809	7,480	
Twice vertical Height at Bow (Subtract)	0,600		
O at Bow (min 0.180 m)	0,209		
Add 1 1/2 O at Bow (min 0.270 m)		0,313	
Girth at Stern	2,179		
Twice vertical Height at Stern (Subtract)	1,110		
O at Stern	1,069		
Add 1/3 O at Stern (min 0.200 m)		0,356	
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)**8,149**

Skin d to d1 Port	1,081		
Chain d to d1 Port	1,074		
d Port	0,007	0,007	
Skin d to d1 Starboard	1,081		
Chain d to d1 Starboard	1,074		
d Starboard	0,007	0,007	
Add d		0,014	

GIRTH MIDSHIP DIFFERENCES (2d)**0,028****RATED LENGTH (Sum of Correct Length and Midship Girth Differences 2d)****8,177**

(Calc. only nec. for boats after 1 Nov 1970)	Actual	Calc.
Mean Freeboard Bow O	0,861	0,861
Mean Freeboard Midship d	0,685	0,685
Mean Freeboard Stern O	0,645	0,645
Sum of Freeboards		2,191

Classic Immersion Marks d Freeboard (only for Classic Appendix A boats)	0,680
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Subtract F, 1/3 FREEBOARD (max 0.730)

0,730

0,730**7,447****Add Square root of TOTAL RATED SAIL AREA****6,010****TOTAL OF MEASUREMENTS (max 14.222)****13,457****RATING Calculation (Total of Measurements/2.37)****5,678**

Tumblehome and/or Draught Penalty (to be added to the Rating)	0,027
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FINAL RATING (not more than 6.000)**5,705****PENALTIES**

Overhang Forward to L (LWL)	1,865		
Overhang Aft to L (LWL)	2,407		
Subtract from overall length		4,272	11,355
Add any increase to L due to Projections, Notches or Hollows (Aft R5 & Fwd M18)		0,000	

WATERLINE LENGTH (LWL)Minimum Displacement for Zero Penalty [m^3] $(0.2 * LWL + 0.15)^3$ **7,083**Minimum Weight for Zero Penalty [metric tons] (water of sg 1.025 tonne/ m^3)

3,840

3,936

DISPLACEMENT**WEIGHT [metric tons] (actual including added ballast)****3,966**Equivalent LWL for Zero Penalty $((\text{weight}/1.025)^{\frac{1}{3}} - 0.15)/0.2$

7,095

Difference

0,000

DISPLACEMENT PENALTY (add 2x to L)**0,000****BEAM** (minimum beam at $\frac{1}{3}$ of midship freeboard above LWL)

1,830

Actual beam at $\frac{1}{3}$ of midship freeboard

1,970

Difference (if less than minimum allowed)

0,000

BEAM PENALTY (add 4x to L, only for yachts laid down after Sept 1937)**0,000****TUMBLEHOME** (max 2x 2% of Extreme Beam)

0,078

Extreme Beam

1,970

Beam at deck

1,968

Difference (if greater than maximum allowed)

0,000

TUMBLEHOME PENALTY (add 3x excess to Rating)**0,000****DRAUGHT** (actual at deepest point) **keel, rudder or wing tips (span not to exceed 1830mm)**

1,642

Maximum Draught for Zero Penalty $(0.16 * LWL + 0.5)$

1,633

Difference (if greater than maximum allowed)

0,009

DRAUGHT PENALTY (add 3x excess to Rating)**0,027****SAIL PLAN**

(max 9.750m)

Height of Sail Plan (max 13.000m above datum)

13,000

J

3,170

I

9,810

Boom Height (min. 400 to max. 1100mm above datum)

0,630

A

12,370

B

5,290

Foretriangle area (max (J or spin boom)xI/2)

4,012

Rated Mainsail Area (AxB/2)

32,718

Rated Foretriangle Area (85% of measured area)

3,410

Total Rated Sail Area (S)

36,128

Spinnaker boom (length in extension to outer end from fwd face of the mast)

3,480

VS

6,010

Sail Limits

Mainsail

Max girth at 1/2 height (MHW 67%)

3,544

Max girth at 3/4 height (MTW 39%)

2,063

Genoa

Max foot length (HFL J + 3.000m)

6,170

Spinnaker

Max luff SLU/leech SLE length (80% of $\sqrt{J+I} + 2.500m$)

10,747

Max foot breadth (SFL 250% J)

7,925

SPARS MEASUREMENTS

MAST CG from datum point (90mm above sheer)

5,222

Mast Weight (min 63.51kg)

64,5

Material

(CG position min 4.940m above datum)

Deck

1/2 Height

Forestay

Head

(min

Aluminium

(min 132.7cm²)(min 147.4cm²)(min 95cm²)37.4cm²)

MAST dimensions [mm]

130x160

130x160

130x160

062x083

Builder & Yr

MAST sectional area [cm²]

172

172

172

42

Allspars 2023

MAST section ratio [max 1.35]

1,231

1,231

1,231

1,339

DECK MEASUREMENTS

Cockpit dimensions:

fwd (or single) cockpit

Length

Aft width

Fwd width

Area m²

Distance to sheer

(max 2.700m² &

fwd keyhole

1,685

0,810

0,725

1,293

200mm

sheer distance min 200mm)

aft keyhole

1,050

0,770

0,750

0,798

Total Area m²Hatch dimensions (max 0.400m² & sheer min 300mm)

0,510

1,090

0,000

0,277

2,368

0,500

0,500

0,500

0,250

Distance to sheer

300mm

NOTES & COMMENTS:

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

6

INTERNATIONAL SIX METRE CLASS 'CLASSIC' 2023



Yacht's Name	JOY	Original name Joy
National letters and Sail Number	FIN-36	Original Sail Number L-36 Club HSS
Designer	Tore Holm	
Builder	Wileniuksen Veneveistämö, Porvoo	Building Year 1935
Owner	Ismo Hentula, Kari Loukola & Sami Sailo	
Owner's Address	c/o Loukola, Kangastie 15, 00630 Helsinki	
Lloyds R class certificate	(Number or Date)	

CERTIFICATE of RATING

This yacht has been measured by measurer(s) approved by Finnish Sailing & Boating Federation and has been found to rate not more than 6.000 metres.

This certificate is dated	18.7.2014 20.7.2015 15.5.2019	measured Loviisa	17.4.2010 11.11.2009 23.10.2009
and its validity confirmed by	Matti Muoniovaara 11.8.2023	sign.	<i>Matti Muoniovaara</i>
for (enter name of National Authority)	Finnish Sailing & Boating Federation		
Valid until	11.8.2027		
Supersedes (former cert. nr or date)	6.7.1935		

Signature

Matti Muoniovaara
Matti Muoniovaara, FSBF chief measurer

Stamp of Authority



Comments:

The yacht has been measured as a CLASSIC 6 metre. Measurement and this certificate is based on the first certificate of measurement 6 L-36 dated 6.7.1935 G. Jakobsson. Measured Length 7.720m is from the original certificate.
New steel construction for shrouds, corrector weight reduced to 9kg. Matti Muoniovaara, 6m class measurer

Weight:

It is not possible to increase the weight of the ... ing extra correctors.

Immersion of "I":

31 millimetres (40mm in Helsinki)

To be signed by the owner:

I undertake to race this International 6 metre class yacht only so long as I maintain it in conformity with the Class Rules. I also undertake that the weight correctors (if any) will not be altered or removed except when done in conjunction with an official reweighing and that only sails, spars etc., which have been measured and found to be in accordance with the rules, will be used.

Signature Kari Loukola

Kari Loukola

Date: 1.6.2019

Reweighting Endorsement

Date	Total Hull Weight (kg)	Corrector Weight (kg)	No. of Correctors, placed at	Name & Signature of Measurer
6.7.1935	4220kg	25kg	1 between frames 8 & 9 aft	Gunnar Jakobsson
5.8.2010	4255kg	22kg	2 at mast (lead and accumulator)	Matti Muoniovaara
20.7.2015	4255kg	9kg	at mast	Matti Muoniovaara

Issue of Rating Certificates

Date	Boat name	Sail-no	Measured Length	LWL	Weight	Sail area	Rating	Measurer
6.7.1935	JOY	L-36	7.720	7.264	4220kg	43.328	6.000	Gunnar Jakobsson
7.7.1948	JOY	L-36	7.720	7.262	4220kg	43.327	6.000	Harry Strang
15.5.2019	JOY	FIN-36	7.720	7.286	4255kg	43.328	6.000	Matti Muoniovaara

OVERALL LENGTH					11.610
Overhang Forward to L1	1.609				
Overhang Aft to L1	2.281				
MEASURED LENGTH (L1 L1)					7.720
Girth at Bow	0.824		Girth at Stern	2.003	
2x vertical Height at Bow (Subtract)	0.600		2x vertical Height at Stern (Subtract)	1.130	
O at Bow	0.224		O at Stern	0.873	
Add 1 1/2 O at Bow (min 0.270 yachts after 31.12.61)	0.336		Add 1/3 O at Stern (min 0.200)	0.291	
Add any penalty (displ. and beam)				0.000	
CORRECT LENGTH L					8.347
Skin d to d1 Port	1.769		Skin d to d1 Starboard	1.764	
Chain d to d1 Port	1.763		Chain d to d1 Starboard	1.759	
d Port	0.006		d Starboard	0.005	
Add d				0.011	
Add GIRTH 2 d					0.022
Mean Freeboard Bow O Actual	0.845				
Mean Freeboard Midship d Actual	0.695				
Mean Freeboard Stern O Actual	0.655		Sum of Freeboards	2.195	
Subtract FREEBOARD, F (max 0.730)				0.732	0.730
Add SAIL AREAS (Square root)					6.582
TOTAL OF MEASUREMENTS					14.221
Total of measurements divided by	2.37				6.000
PENALTY (draught and tumble home)				0.000	
FINAL RATING					6.000

PENALTIES

Overhang Forward to L	bow Δ L-L1	0.246	1.855	Total overhang (Subtract from overall length)	4.324
Overhang Aft to L	aft Δ L-L1	0.188	2.469	Differ. of immersion from salt water to fresh	0.011
WATERLINE LENGTH	Actual				7.286
DISPLACEMENT (by weighing)	weight (tons)		4.255	Minimum Weight for Zero Penalty (ton) (Water of sg 1.025ton/m ³)	4.255
Displacement in m ³			4.151	Minimum Displacement for Zero Penalty, m ³	4.152
Equivalent LWL (for Displ. < min.)			7.286	= (0.2 * LWL + 0.15) ³	
Difference (eq. Lwl - actual Lwl) (if positive penalty)			0.000	DISPLACEMENT PENALTY (add 2x to L)	0.000
DRAUGHT (actual)			1.655	Difference (if positive penalty)	-0.011
Max. Draught for Zero Penalty (0.16 * LWL + 0.5)			1.666	DRAUGHT PENALTY (add 3x excess to Rating)	0.000
BEAM (Min)	built before 1937		1.830	Difference (if positive penalty) no penalty	0.031
Max Beam at 1/3 of Midship Freeboard			1.799	BEAM PENALTY (add 4x to L)	0.000
Tumblehome Max. (2% of Ext. Beam)			0.036	Extreme Beam	1.799
Measured Tumblehome			0.034	Beam at deck	1.731
Difference (if positive penalty)			-0.002	TUMBLEHOME PENALTY (add 3x excess to Rating)	0.000

SAIL PLAN

Mainsail luff height A =	12.300	Height of foretriangle I (max 9.75m) =	9.750	Height of Sail Plan (max 13m) =	13.000
Mainsail boom length B =	5.158	Base of foretriangle J =	2.800	Boom Height =	0.700
Rated Mainsail Area	31.725	Rated Foretriangle Area	11.603	Sail Area for Rating S =	43.328
SAIL LIMITS					
Mainsail max girth at 1/2 ht. 67%	3.456	Genua max. foot length (J + 3m)	5.800		
Mainsail max girth at 3/4 ht. 39%	2.012				
Spinnaker:					
Min. 1/2 girth 75% of 1/2 foot length	2.625	Foot max breadth (250% J)	7.000	Max. luff length	10.615
				Boom length	2.800

SPARS MEASUREMENTS

	Deck	Half-Height	Jib-Halyard	Head		Note: New mast
Mast dimensions (mm)	125x162	125x162	125x162	67x90	MAST CG position (from meas. point)	in Rule
Mast section area (cm ²)	158	158	158	in Rule	Mast Weight	> 63 kg
Mast section ratio (max 1.35)	1.30	1.30	1.30	1.34	Mast material	Aluminium

DECK MEASUREMENTS

Cockpit dimensions		Hatch dimensions		Spinnaker boom across on deck	
Distance to sheerline				Length	
1st cockpit				Width	
2nd cockpit				Depth	
Total area of openings m ²	in Rule		no hatch		

Date and place of Measurement: 18.7.2011 20.7.2015 Loviisa 17.4.2011
 Measurer's Name(s): Matti Muoniovaara, 6m class OM FIN-0039
 Measurer recognised by: (enter National Authority) Finnish Sailing & Boating Federation
 Measurer's signature: *Matti Muoniovaara*



Measurements	International six metre class yacht	MAY BE VI	FIN-51
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OVERALL LENGTH			10.917
Overhang Forward to L1	1.297		
Overhang Aft to L1	1.947		
MEASURED LENGTH (L1 L1)			7.673
Girth at Bow	0.785	Girth at Stern	2.117
2x vertical Heigth at Bow (Subtract)	0.600	2x vertical Heigth at Stern (Subtract)	1.260
O at Bow	0.185	O at Stern	0.857
Add 1 1/2 O at Bow (min 0.270m)	0.278	Add 1/3 O at Stern (min 0.200m if built after 1961)	0.286
Add any penalty (displ. and beam)			0.000
CORRECT LENGTH L			8.237
Skin d to d1 Port	1.801	Skin d to d1 Starboard	1.807
Chain d to d1 Port	1.796	Chain d to d1 Starboard	1.803
d Port	0.005	d Starboard	0.004
Add d			0.009
Add GIRTH 2 d			0.018
Mean Freeboard Bow O Actual	0.850		
Mean Freeboard Midship d Actual	0.733		
Mean Freeboard Stern O Actual	0.720		
Subtract FREEBOARD, F (max 0.730)		Sum of Freeboards	2.303
Add SAIL AREAS (Square root)			0.768
TOTAL OF MEASUREMENTS			0.730
Total of measurements divided by	2.37		6.696
PENALTY (draught and tumble home)			14.221
			6.000
FINAL RATING			0.000
			6.000

PENALTIES			
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Overhang Forward to L	bow Δ L-L1 0.250	1.547	Total overhang (Subtract from overall length)	3.605
Overhang Aft to L	aft Δ L-L1 0.111	2.058	Differ. of immersion from salt water to fresh	0.011
WATERLINE LENGTH Actual				7.312
DISPLACEMENT (by weighing) weight (tons)		4.297	Minimum Weight for Zero Penalty (ton) (Water of sg 1.025ton/m ³)	4.297
Displacement in m ³		4.192	Minimum Displacement for Zero Penalty, m ³	4.192
Equivalent LWL (for Displ. < min.)		7.312	= (0.2*LWL+0.15) ³	
Difference (eq. Lwl - actual Lwl) (if positive penalty)		0.000	DISPLACEMENT PENALTY (add 2x to L)	0.000
DRAUGHT (actual)		1.662	Difference (if positive penalty)	-0.008
Max. Draught for Zero Penalty (0.16*LWL+0.5)		1.670	DRAUGHT PENALTY (add 3x excess to Rating)	0.000
BEAM (Min) built before 1937		1.830	Difference (if positive penalty) no penalty	-0.025
Max Beam at 1/3 of Midship Freeboard		1.855	BEAM PENALTY (add 4x to L)	0.000
Tumblehome Max. (2% of Extr. Beam)		0.037	Extreme Beam	1.855
Measured Tumblehome		0.006	Beam at deck	1.843
Difference (if positive penalty)		-0.031	TUMBLEHOME PENALTY (add 3x excess to Rating)	0.000

SAIL PLAN			
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Mainsail luff height A =	12.300	Height of foretriangle I (max 9.75m) =	9.750	Height of Sail Plan (max13m) =	13.000
Mainsail boom length B =	4.965	Base of foretriangle J =	3.450	Boom Height =	0.700
Rated Mainsail Area	30.535	Rated Foretriangle Area	14.296	Sail Area for Rating S =	44.831
SAIL LIMITS					
Mainsail max girth at 1/2 ht. 67%	3.327	Genua max. foot length (J + 3m)	6.450		
Mainsail max girth at 3/4 ht. 39%	1.936				
Spinnaker:					
Min. 1/2 girth 75% of 1/2 foot length	3.234	Foot max breadth (250% J)	8.625	Max. luff length	10.774
				Boom length	3.450

SPARS MEASUREMENTS					
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	Deck	Half-Height	Jib-Halyard	Head		
Mast dimensions (mm)	125x160	125x160	125x160	75x95	MAST CG posititon (from meas. point)	5.12
Mast section area (cm ²)	165	165	165	59	Mast Weight	64.8
Mast section ratio (max 1.35)	1.28	1.28	1.28	1.27	Mast material	Alu

DECK MEASUREMENTS			
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Cockpit dimensions		Hatch dimensions		Spinnaker boom recess on deck	
Distance to sheerline			-	Length	
1st cockpit				Width	
2nd cockpit				Depth	
Total area of openings m ²	in Rule		no hatch		

Date and place of Measurement	21.7.2013	Kotka	21.7.2013
Measurer's Name(s)	Matti Muoniovaara, 6 m class measurer FIN-0039		
Measurer recognised by: (enter National Authority)	Finnish Sailing & Boating Federation		
Measurer's signature			





6

INTERNATIONAL SIX METRE CLASS

Yacht's Name	Nirvana		
National letters and Sail Number	GBR 33	Club	
Designer	Olin Stephens (1939)		
Builder	&R and Robbie &Berkir	Building Year	2011
Owner	Andy & Lisa Postle		
Owner's Address	9 Third Avenue, Billacombe, Plymouth, PL9 8AN		
Lloyds R class certificate			

RATING CERTIFICATE

This yacht has been measured by measurer(s) appointed by the Royal Yachting Association and has been found to rate not more than 6.000 metres.

This certificate is dated	31-May-22		
Measurer	Adam Parry	Signature	A.Parry
Valid until	31-May-26		
Supersedes	18th June 2020	(enter former certif. number or date)	
Signature	 RYA Technical		

Yacht's name : Nirvana

Date : 31-May-22

RATING CALCULATION

OVERALL LENGTH

	11.026	11.026
Overhang Forward to L1	1.544	
Overhang Aft to L1	1.679	
Subtract Total Overhang	3.223	-3.223

MEASURED LENGTH (L1 L1)

	7.803	
Girth at Bow	0.789	
Subtract Twice vertical Height at Bow	0.600	
O at Bow (min 0.180 m)	0.189	
Add 1 1/2 O at Bow (min 0.270 m)		0.284
Girth at Stern	1.949	
Subtract Twice vertical Height at Stern	1.146	
O at Stern	0.803	
Add 1/3 O at Stern (min 0.200 m)		0.268
Add any penalty at O2		0.000
Add any Beam / Displacement Penalty		
Sum of Length and Girth Corrections		8.354

CORRECT LENGTH L

8.354

	1.760	
Skin d to d1 Port	1.758	
Chain d to d1 Port	0.002	0.002
d Port	1.761	
Skin d to d1 Starboard	1.758	
Chain d to d1 Starboard	0.003	0.003
d Starboard		0.005
Add d		0.010

GIRTHS Add 2d

Add to find sum of measurements		8.364
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8.364

Mean Freeboard Bow O	Actual	0.845	0.845	
Mean Freeboard Midship d	Actual	0.712	0.712	
Mean Freeboard Stern O	Actual	0.661	0.661	
Sum of Freeboards			2.218	

Subtract (1/3) FREEBOARD, F

Add SAIL AREAS (Square root)

	0.730
	6.587
	14.221

TOTAL OF MEASUREMENTS

14.221

Calculated Rating	6.000
Add any Tumblehome / Draught Penalty	0.000

RATING

6.000

Date and place of Measurement	Plymouth May 2022	
Measurer's Name(s)	Adam Parry	Signature A.Parry

Yacht's name : Nirvana	Date : 31-May-22
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PENALTIES

Length overall	11.026	
Overhang Forward to L	1.814	
Overhang Aft to L	2.001	
Subtract from overall length	3.815	
WATERLINE LENGTH	7.211	
BEAM		
Beam at 1/3 of Midship Freeboard (actual)	1.872	
Minimum Beam at 1/3 of Midship Freeboard	1.830	
Difference (if positive)	0.000	
BEAM PENALTY (add to L)		0.000
TUMBLEHOME		
Tumblehome Max both sides. (2 x 2% of Extr. Beam)	0.075	
Extreme Beam	1.872	
Beam at deck	1.866	
Difference (if positive)	0.006	
TUMBLEHOME PENALTY (add to Rating)		0.000
WEIGHT [ton] (actual including added ballast)		
Minimum Displacement for Zero Penalty [m3]	4.221	
Minimum Weight for Zero Penalty [ton] (Water of sg 1.025)	4.036	
LWL for Zero Penalty	4.137	
Difference	7.264	
DISPLACEMENT PENALTY (add to L)	0.000	0.000
DRAUGHT (actual)		
Maximum Draught for Zero Penalty	1.647	
Difference (if positive)	1.654	
DRAUGHT PENALTY (add to Rating)	0.000	0.000

SAIL PLAN

Spinnaker boom Length	3.735		
	J= 3.735	I = 9.745	
	A= 12.140	B= 4.600	
Rated Mainsail Area	27.922		
Rated Foretriangle Area	15.469		
TOTAL RATED SAIL AREA	43.391	√S	6.587

Flotation

Flotation checked satisfactory
 Water Salinity = 1.025

Measurer's Notes

Anchor position under mainsheet post. Weight 10kgs class minimum.
 Reweighed + flotation checked
 New Mast and rig setup

Date and place of Measurement	Plymouth May 2022
Measurer's Name(s)	Adam Parry
	Signature A.Parry

Yacht's name : Nirvana

Date : 31-May-22



6



INTERNATIONAL SIX METRE CLASS

Yacht's Name	<i>Stardust</i>		
National Letters & Sail Number	<i>ESP 91</i>	Fleet	<i>CLASSIC</i> Appendix A
Designer	<i>H.Copponex</i>	Design Year	<i>1945</i>
Builder	<i>Egger</i>	Build Year	<i>1945</i>
Owner	<i>Brothers Campos</i>	World Sailing Building Plaque no. (If built after 1 Jan 1991)	<i>n/a</i>

RATING CERTIFICATION

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>07/09/2024</i>
Measured by	<i>Antonio Cardona</i>
On behalf of MNA	<i>RFEV</i>
Valid until	<i>06/09/2028</i>
Supersedes	<i>20/11/2019</i>
Place of measurements & flotation	<i>Sanxenxo</i>
Conditions at location of flotation	<i>0 kns flat water 20 C</i> (Include details of wind & water conditions, air temperature & the time of day)
SG (specific gravity) of water at flotation	<i>1,022</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>Gram C5 last calibration 27-08-24</i>

Stamp of MNA (or ISMA):



MNA (or ISMA) signature:

Firmado por BONILLA PAZ RAFAEL
JUAN - ***5607** el día
24/09/2024 con un certificado
emitido por AC FNMT Usuarios

RATING CALCULATION**OVERALL LENGTH**

Overhang Forward to L1
Overhang Aft to L1
Total Overhang (Subtract)

1,410
1,739
3,149

10,735

10,735

MEASURED LENGTH (L1 to L1)

Girth at Bow
Twice vertical Height at Bow (Subtract)
O at Bow (min 0.180 m)
Add 1½ O at Bow (min 0.270 m)
Girth at Stern
Twice vertical Height at Stern (Subtract)
O at Stern
Add ⅓ O at Stern (min 0.200 m)
Add any penalty at O2 (see Rule 3. Length - only for boats after 1 Nov 1970)
Add any Beam and/or Displacement penalty

0,800
0,600
0,200
0,300
1,990
1,046
0,944
0,314
0,000
0,000

7,586

0,300

0,314

0,000

0,000

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

8,200

Skin d to d1 Port
Chain d to d1 Port
d Port
Skin d to d1 Starboard
Chain d to d1 Starboard
d Starboard
Add d

1,081
1,074
0,007
1,081
1,074
0,007
0,007

0,007

0,007

0,014

GIRTH MIDSHIP DIFFERENCES (2d)

0,028

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

8,228

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

	Actual	Calc.
Mean Freeboard Bow O	0,828	0,828
Mean Freeboard Midship d	0,658	0,658
Mean Freeboard Stern O	0,613	0,613
Sum of Freeboards		2,099

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

0,680

Subtract F, ⅓ FREEBOARD (max 0.730)

0,699

0,699

7,529

Add Square root of TOTAL RATED SAIL AREA

6,690

TOTAL OF MEASUREMENTS (max 14.222)

14,219

RATING Calculation (Total of Measurements/2.37)

5,999

Tumblehome and/or Draught Penalty (to be added to the Rating)

0,000

FINAL RATING (not more than 6.000)

5,999

PENALTIES

Overhang Forward to L (LWL)	1,677		
Overhang Aft to L (LWL)	2,064		
Subtract from overall length		3,741	10,735
Add any increase to L due to Projections, Notches or Hollows (Aft R5 & Fwd M18)	0,000		

(see Rule 5 Hollows, Measurement Instructions M18 & M20, also include rudder flaps extending aft further than CL of rudder stock axis @ LWL)

WATERLINE LENGTH (LWL)

Minimum Displacement for Zero Penalty [m ³] (0.2*LWL+0.15) ³	3,709		
Minimum Weight for Zero Penalty [metric tons] (water of sg 1.025 tonne/m ³)	3,801		

DISPLACEMENT

WEIGHT [metric tons] (actual including added ballast) 4,208

Equivalent LWL for Zero Penalty ((weight/1.025) ^{1/3} -0.15)/0.2)	7,255		
Difference	0,000		

DISPLACEMENT PENALTY (add 2x to L) 0,000

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

Actual beam at 1/3 of midship freeboard	1,830		
Difference (if less than minimum allowed)	1,905		
	0,000		

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	0,076		
Beam at deck	1,905		
Difference (if greater than maximum allowed)	1,845		
	0,000		

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)	1,640		
Difference (if greater than maximum allowed)	1,619		
	0,021		

DRAUGHT PENALTY (add 3x excess to Rating) 0,063

SAIL PLAN

Height of Sail Plan (max 13.000m above datum)	12,800	J	3,480	I	9,750
Boom Height (min. 400 to max. 1100mm above datum)	0,900	A	11,900	B	5,100
Foretriangle area (max (J or spin boom)xI/2)	16,965			Rated Mainsail Area (AxB/2)	30,345
Rated Foretriangle Area (85% of measured area)	14,420			Total Rated Sail Area (S)	44,765
Spinnaker boom (length in extension to outer end from fwd face of the mast)	0,000			VS	6,690

(max 9.750m)

Sail Limits

Mainsail	Max girth at 1/2 height (MHW 67%)	3,417	Max girth at 3/4 height (MTW 39%)	1,989
Genoa	Max foot length (HFL J + 3.000)	6,480		
Spinnaker	Max luff SLU/leech SLE length (80% of VJ+VI +2.500m)	10,781	Max foot breadth (SFL 250% J)	8,700

SPARS MEASUREMENTS

MAST CG from datum point (90mm above sheer)	5,200	Mast Weight (min 63.51kg)	64kg	Material
(CG position min 4.940m above datum)				Aluminium
MAST dimensions [mm]	Deck (min 132.7cm ²)	1/2 Height (min 147.4cm ²)	Forestay (min 95cm ²)	Head (min 37.4cm ²)
MAST sectional area [cm ²]	130x160	130x160	130x160	062x083
MAST section ratio [max 1.35]	1,231	1,231	1,231	1,339

Builder & Yr

Allspars 2023

DECK MEASUREMENTS

Cockpit dimensions:	Length	Aft width	Fwd width	Area m ²	Distance to sheer
(max 2.700m ² & fwd (or single) cockpit	1,685	0,810	0,725	1,293	200mm
fwd keyhole	1,050	0,770	0,750	0,798	Total Area m ²
sheer distance min 200mm aft keyhole	0,510	1,090	0,000	0,277	2,368
Hatch dimensions (max 0.400m ² & sheer min 300mm)	0,500	0,500	0,500	0,250	Distance to sheer
					300mm

NOTES & COMMENTS:

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

Eg.
Ballast position fore & aft (%) and weight (kg) inside the boat
Location & weight of anchor (min. 10kg) with line (min. 30m of min. 10mm diameter) & battery(s)
Subject to any additional flotation check before xyz date/event
Changes in trim, freeboards or weight



6



INTERNATIONAL SIX METRE CLASS


Yacht's Name	<i>TITIA</i>		
National Letters & Sail Number	<i>ESP 72</i>	Fleet	<i>CLASSIC</i>
Designer	<i>David Boyd</i>	Design Year	<i>1952</i>
Builder	<i>Woodnut and Co.</i>	Build Year	<i>1952</i>
Owner	<i>Mauricio Sanchez-Bella</i>	World Sailing Building Plaque no. (If built after 1 Jan 1991)	<i>n/a</i>

RATING CERTIFICATION

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>06/07/2023</i>
Measured by	<i>Antonio Cardona Espin</i>
On Behalf of MNA	<i>RFEV</i>
Valid until	<i>05/07/2027</i>
Supersedes	<i>06/07/2023</i>
Place & Time of Measurements	<i>Sanxenxo 7:00</i>
Conditions at Flotation (wind, water & ter	<i>2 knots light wind with flat water</i>
SG (specific gravity) of Water at Flotatio	<i>1,025 kg/m³</i>
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>KERN HFA 5T -3WF19012330 CALIBRATION 10-4-23</i>

Stamp of MNA (or ISMA):	MNA (or ISMA) signature: Firmado por BONILLA PAZ RAFAEL JUAN - ***5607** el día 24/09/2024 con un certificado emitido por AC FNMT Usuarios
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RATING CALCULATION**OVERALL LENGTH**

		11,246	11,246
Overhang Forward to L1	1,482		
Overhang Aft to L1	1,953		
Total Overhang (Subtract)	3,435		

MEASURED LENGTH (L1 to L1)

		7,811	
Girth at Bow	0,797		
Twice vertical Height at Bow (Subtract)	0,600		
O at Bow	0,197		
Add 1 1/2 O at Bow (min 0.270 m)		0,295	
Girth at Stern	1,940		
Twice vertical Height at Stern (Subtract)	1,182		
O at Stern	0,758		
Add 1/3 O at Stern (min 0.200 m)		0,252	
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)

			8,358
Skin d to d1 Port	1,741		
Chain d to d1 Port	1,737		
d Port	0,004	0,004	
Skin d to d1 Starboard	1,746		
Chain d to d1 Starboard	1,741		
d Starboard	0,005	0,005	
Add d		0,009	

GIRTH MIDSHIP DIFFERENCES (2d)**RATED LENGTH (Sum of Correct Length and Midship Girth Differences 2d)**

			0,018	
				8,376
(Calc. only nec. for boats after 1 Nov 1970)	Actual	Calc.		
Mean Freeboard Bow O	0,859	0,859		
Mean Freeboard Midship d	0,715	0,715		
Mean Freeboard Stern O	0,681	0,681		
Sum of Freeboards		2,255		

Classic Immersion Marks d Freeboard (only for Classic Appendix A boats) **0.680 or n/a**

Subtract F, 1/2 FREEBOARD (max 0.730)

	0,751	0,730	7,646
Add Square root of TOTAL RATED SAIL AREA		6,575	

TOTAL OF MEASUREMENTS

			14,221
Add any Tumblehome and/or Draught Penalty		0,000	14,221

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

			6,000
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PENALTIES

Overhang Forward to L (LWL)	1,712	
Overhang Aft to L (LWL)	2,267	
Subtract from overall length		3,979
Add any increase to Aft L location due to Projections, Notches or Hollows (see Measurement Instructions M18 & M20, including for rudder flaps extending aft further than CL of rudder stock axis)		0,000
WATERLINE LENGTH (LWL)		7,267
Minimum Displacement for Zero Penalty [m ³] (0.2*LWL+0.15) ³	4,119	
Minimum Weight for Zero Penalty [metric tons] (water of sg 1.025 tonne/m ³)	4,221	
DISPLACEMENT WEIGHT [metric tons] (actual including added ballast)		4,249
Equivalent LWL for Zero Penalty ((weight/1.025) ^{1/3} -0.15)/0.2	7,280	
Difference	0,000	
DISPLACEMENT PENALTY (add 2x to L)		0,000
BEAM (minimum beam at 1/2 of midship freeboard)	1,830	
Actual beam at 1/2 of midship freeboard	1,850	
Difference (if positive)	0,000	
BEAM PENALTY (add 4x to L, only for yachts laid down after Sept 1937)		0,000
TUMBLEHOME (max 2x 2% of Extreme Beam)	0,074	
Extreme Beam	1,850	
Beam at deck	1,820	
Difference (if positive)	0,000	
TUMBLEHOME PENALTY (add 3x excess to Rating)		0,000
DRAUGHT (actual at deepest point) keel, rudder or wing tips (span not to exceed 1830mm)	1,660	
Maximum Draught for Zero Penalty (0.16*LWL+0.5)	1,662	
Difference (if positive)	0,000	
DRAUGHT PENALTY (add 3x excess to Rating)		0,000

SAIL PLAN

Maximum Height of Sail Plan (max 13.000m above datum)	13,000	J	3,600	I	9,748
Boom Height (min 400 to 1100mm from datum)	0,900	A	12,130	B	4,670
Foretriangle area (max (J or spin boom)xI/2)	17,546		Rated Mainsail Area (AxB/2)		28,323
Rated Foretriangle Area (85% of measured area)	14,914		Total Rated Sail Area (S)		43,237
				VS	6,575
Spinnaker boom (length in extension to outer end from fwd face of the mast)	3,500	110% J	3,960		
Sail Limits					
Mainsail Max girth at 1/2 height (MHW 67%)	3,128				1,821
Genoa Max foot length (HFL J + 3.000)	6,600				
Spinnaker Max luff SLU/leech SLE length (80% of VJ+VI +2.500m)	10,813				9,000

SPARS MEASUREMENTS

MAST CG from datum point (90mm above sheer) (CG position min 4.940m above datum)	5,285	Mast Weight (min 63.51kg)	77,1	Material	aluminium
	Deck (min 132.7cm ²)	1/2 Height (min 147.4cm ²)	Forestay (min 95cm ²)	Head (min 37.4cm ²)	
MAST dimensions [mm]	126x167	123x166	110x133	072x079	
MAST sectional area [cm ²]	174	168	121	47	Builder & Yr
MAST section ratio [max 1.35]	1,325	1,350	1,209	1,097	
DECK MEASUREMENTS	Length	Aft width	Fwd width	Area m ²	Distance to sheer
Cockpit dimensions:					
(max 2.700m ² & fwd keyhole)	0,000	0,000	0,000	0,000	200mm
sheer distance min 200mm) aft keyhole	1,930	0,850	0,630	1,428	Total Area m ²
Hatch dimensions (max 0.400m ² & sheer min 300mm)	1,170	0,453	1,214	0,530	1,958
	0,500	0,500	0,500	0,250	Distance to sheer
					300mm

NOTES & COMMENTS:

new mast

Titia mast changed due broken , actual mast measured 2023

SPARS MEASUREMENTS

MAST CG from datum point (90mm above sheer)

5,285

Mast Weight (min 63.51kg)

77,1

Material

(CG position min 4.940m above datum)

Deck
(min 132.7cm²)

1/2 Height
(min 147.4cm²)

Forestay
(min 95cm²)

Head
(min 37.4cm²)

ALUMINIUM

MAST dimensions [mm]

170X125

170X125

170X125

062x083

MAST sectional area [cm²]

175

175

175

42

Builder & Yr

MAST section ratio [max 1.35]

0,735

0,735

0,735

1,339

ALLSPARTS



6



INTERNATIONAL SIX METRE CLASS

Yacht's Name	<i>Valdai</i>		
National Letters & Sail Number	<i>GBR 40</i>	Fleet	<i>CLASSIC</i>
Designer	<i>Alfred Mylne</i>	Design Year	<i>1930</i>
Builder	<i>Bute Slip Dock Co.</i>	Build Year	<i>1930</i>
Owner	<i>Dirk Stolp & Tom Owen</i>	World Sailing Building Plaque no. (If built after 1 Jan 1991)	<i>n/a</i>

RATING CERTIFICATION

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>03/09/2021</i>		
Measured by	<i>David Chivers</i>		
On behalf of MNA	<i>RYA, UK</i>		
Valid until	<i>02/09/2025</i>		
Supersedes	<i>08/10/2015</i>		
Place of measurements & flotation	<i>Fowey</i>	<i>11:00</i>	
Conditions at location of flotation	<i>5 knots light wind with flat water at 14°C</i> (Include details of wind & water conditions, air temperature & the time of day)		
SG (specific gravity) of water at flotation	<i>1.025</i>	<i>kg/m³</i>	
Any correction applied to flotation/freeboards due to conditions (mm)	<i>0</i>		
	<i>(Salt Water 1.025 kg/m³ & Immersion in salt/fresh water = 0.012m)</i>		
Loadcell details/calibration	<i>Borrowed from Ian Howlett</i>		

Stamp of MNA (or ISMA):

MNA (or ISMA) signature:



RATING CALCULATION**OVERALL LENGTH**

Overhang Forward to L1
Overhang Aft to L1
Total Overhang (Subtract)

1.240
1.860
3.100

10.700	10.700
--------	--------

MEASURED LENGTH (L1 to L1)

Girth at Bow
Twice vertical Height at Bow (Subtract)
O at Bow (min 0.180 m)
Add 1 1/2 O at Bow (min 0.270 m)

0.840
0.600
0.240

7.600

Girth at Stern
Twice vertical Height at Stern (Subtract)
O at Stern
Add 1/3 O at Stern (min 0.200 m)

2.190
1.202
0.988

0.360

Add any penalty at O2 (see Rule 3. Length - only for boats after 1 Nov 1970)
Add any Beam and/or Displacement penalty

0.329
0.000
0.000

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

8.289

Skin d to d1 Port
Chain d to d1 Port
d Port
Skin d to d1 Starboard
Chain d to d1 Starboard
d Starboard
Add d

1.797
1.789
0.008
1.793
1.786
0.007

0.008

0.007
0.015

GIRTH MIDSHIP DIFFERENCES (2d)

0.030

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

8.319

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

Mean Freeboard Bow O
Mean Freeboard Midship d
Mean Freeboard Stern O
Sum of Freeboards

	Actual	Calc.
0.772	0.772	
0.697	0.697	
0.691	0.691	
2.160	2.160	

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

0.672

Subtract F, 1/3 FREEBOARD (max 0.730)

0.720

0.720

7.599

Add Square root of TOTAL RATED SAIL AREA

6.623

TOTAL OF MEASUREMENTS (max 14.222)

14.222

RATING Calculation (Total of Measurements/2.37)

6.000

Tumblehome and/or Draught Penalty (to be added to the Rating)

0.000

FINAL RATING (not more than 6.000)

6.000

PENALTIES

Overhang Forward to L (LWL)	1.550			
Overhang Aft to L (LWL)	2.165			
Subtract from overall length		3.715	10.700	
Add any increase to L due to Projections, Notches or Hollows (Aft R5 & Fwd M18)		0.000		
<small>(see Rule 5 Hollows, Measurement Instructions M18 & M20, also include rudder flaps extending aft further than CL of rudder stock axis @ LWL)</small>				

WATERLINE LENGTH (LWL)

Minimum Displacement for Zero Penalty [m ³] (0.2*LWL+0.15) ³	3.702			6.985
Minimum Weight for Zero Penalty [metric tons] (water of sg 1.025 tonne/m ³)	3.794			

DISPLACEMENT

WEIGHT [metric tons] (actual including added ballast)

Equivalent LWL for Zero Penalty ((weight/1.025) ³ -0.15)/0.2)	7.085			
Difference	0.000			

DISPLACEMENT PENALTY (add 2x to L) 0.000

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

Actual beam at 1/3 of midship freeboard	1.830			
Difference (if less than minimum allowed)	1.996			
	0.000			

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	0.078			
Beam at deck	1.996			
Difference (if greater than maximum allowed)	1.942			
	0.000			

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)	1.554			
Difference (if greater than maximum allowed)	1.617			
	0.000			

DRAUGHT PENALTY (add 3x excess to Rating) 0.000

SAIL PLAN

Height of Sail Plan (max 13.000m above datum)	13.000		J	3.422		I	9.700	
Boom Height (min 400 to 1100mm above datum)	0.730		A	12.270		B	4.852	
Foretriangle area (max (J or spin boom)xI/2)	16.596							(max 9.750m)
Rated Foretriangle Area (85% of measured area)	14.106							Rated Mainsail Area (AxB/2)
Spinnaker boom (length in extension to outer end from fwd face of the mast)	3.422							Total Rated Sail Area (S)
						VS	6.623	

Sail Limits

Mainsail	Max girth at 1/2 height (MHW 67%)	3.250	Max girth at 3/4 height (MTW 39%)	1.892
Genoa	Max foot length (HFL J + 3.000m)	6.422		
Spinnaker	Max luff SLU/leech SLE length (80% of vJ+vI +2.500m)	10.728	Max foot breadth (SFL 250% J)	8.555

SPARS MEASUREMENTS

MAST CG from datum point (90mm above sheer) <small>(CG position min 4.940m above datum)</small>	4.972	Mast Weight (min 63.51kg)			64kg	Material
	Deck <small>(min 132.7cm²)</small>	1/2 Height <small>(min 147.4cm²)</small>	Forestay <small>(min 95cm²)</small>	Head <small>(min 37.4cm²)</small>		Aluminium
MAST dimensions [mm]	125x162	125x162	125x162	082x110		
MAST sectional area [cm ²]	167	167	167	74		Builder & Yr
MAST section ratio [max 1.35]	1.296	1.296	1.296	1.341		Allspars 2011

DECK MEASUREMENTS

	Length	Aft width	Fwd width	Area m ²	Distance to sheer
Cockpit dimensions: fwd (or single) cockpit	1.873	0.965	0.749	1.605	465mm
(max 2.700m ² & fwd keyhole	0.754	0.804	0.918	0.649	Total Area m ²
sheer distance min 200mm) aft keyhole	-	-	-	-	2.254
Hatch dimensions (max 0.400m ² & sheer min 300mm)	-	-	-	-	Distance to sheer
					n/a

NOTES & COMMENTS:

4 July 2012- Andy Wibroe & Bas Edmonds (RYA) new full measurement post full restoration, Appendix A Classic rating.
Lloyds registry 1931 reference 6249,13 R.

27 July 2013 - Sail Plan adjusted with J corrected at 3.400m (from 3.365) and A changed to 12.205m (from 12.270).

8 October 2015 - revalidated by Debbie Smith (RYA) after flotation checked 30 July 2015 at The Elephant Boatyard, Hamble River.
J adjusted to 3.422m (centre of forestay Bartels unit on deck) and A to 12.168m.

2 September 2021 - revalidation checks for rating certificate, water salinity checked at 1.025, Fowey Harbour (David Chivers).

30 June 2023 - correction of rating error spotted by Guy-Roland Perrin (event measurer at Sanxenxo Worlds 2022), O at Stern incorrect number entered on original certificate in 2012 leading to Correct Length (L) too long. O at Stern now correct at 0.988 - Sail Plan adjusted and Total Rated Sail Area (S) increased as a result - A increased to 12.270m & B to 4.852m.