BOAT

Name **CALABRUIX II**
Sail Nr **ESP-2025**

GPH

818,3

GENERAL

Class	**SOMO 23**
Designer	**F.ROCA**
Builder	**TAYLOR**
Series	**03/1977**
Age	**03/1982**
Age Allowance	**0,488%**
Offset File	**E252.OFF - 29/08/1995 13:39:00**
Measurement by	**JJBeltran - 11/10/2010**

HULL

Length Overall	**7,015m**
Maximum Beam	**2,470m**
Displacement	**1.318kg**
Draft	**1,242m**
IMS Reg. Division	**Cruiser/Racer**
Dynamic Allowance	**0,421%**
Fwd Accommodation	**Yes**
Hull Construction	**Solid**
Carbon Rudder	**No**
Crew Arm Extension	

IMSL	**5,990m**	VCGD	**-0,011m**	Sink	**7,58kg/mm**
RL	**4,609m**	VCGM	**0,071m**	WS	**9,85m²**
LSM0	**5,995m**	Displacement/Length ratio			**6,1171**

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2016
ORC International Certificate

SCORING OPTIONS

	OFFSHORE COASTAL / LONG DISTANCE			INSHORE WINDWARD / LEEWARD		
Time On Distance	**793,3**			**884,9**		
Time On Time	**0,7563**			**0,7628**		
	PLT	PLD		PLT	PLD	
Performance Line	**0,706**	**127,9**		**0,599**	**162,3**	
	Low	Medium	High	Low	Medium	High
Triple Number	**0,7098**	**0,9340**	**1,0665**	**0,5484**	**0,7545**	**0,8862**

TIME ALLOWANCES

Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	**1456,3**	**1218,2**	**1082,0**	**983,5**	**924,0**	**900,9**	**913,3**
52°	**939,8**	**794,6**	**705,0**	**658,5**	**634,7**	**621,9**	**620,7**
60°	**882,5**	**747,0**	**671,8**	**637,2**	**616,4**	**601,3**	**593,8**
75°	**836,5**	**708,4**	**649,6**	**620,6**	**599,5**	**579,9**	**553,0**
90°	**827,6**	**685,6**	**629,8**	**598,2**	**571,1**	**558,1**	**541,0**
110°	**818,1**	**680,5**	**627,5**	**595,3**	**564,1**	**535,7**	**496,5**
120°	**844,6**	**697,1**	**635,4**	**602,4**	**571,6**	**542,6**	**492,3**
135°	**946,4**	**768,5**	**662,1**	**621,7**	**591,8**	**562,3**	**510,7**
150°	**1086,4**	**866,4**	**728,4**	**652,9**	**618,4**	**590,5**	**537,6**
Run VMG	**1254,5**	**994,3**	**838,1**	**724,6**	**658,5**	**623,2**	**569,7**
Selected Courses							
Windward / Leeward	**1355,4**	**1106,2**	**960,0**	**854,0**	**791,2**	**762,1**	**741,5**
Circular Random	**1137,7**	**915,2**	**793,7**	**721,3**	**676,1**	**647,2**	**614,6**
Ocean for PCS	**1137,4**	**903,1**	**772,0**	**692,2**	**640,9**	**605,8**	**558,6**
Non Spinnaker	**1190,5**	**953,6**	**823,4**	**745,5**	**696,7**	**665,1**	**628,5**

Velocity Prediction in Knots for True Wind Speeds

Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat Angles	**44,5°**	**43,2°**	**43,6°**	**42,8°**	**41,6°**	**41,2°**	**42,6°**
Beat VMG	**2,47**	**2,96**	**3,33**	**3,66**	**3,90**	**4,00**	**3,94**
52°	**3,83**	**4,53**	**5,11**	**5,47**	**5,67**	**5,79**	**5,80**
60°	**4,08**	**4,82**	**5,36**	**5,65**	**5,84**	**5,99**	**6,06**
75°	**4,30**	**5,08**	**5,54**	**5,80**	**6,00**	**6,21**	**6,51**
90°	**4,35**	**5,25**	**5,72**	**6,02**	**6,30**	**6,45**	**6,65**
110°	**4,40**	**5,29**	**5,74**	**6,05**	**6,38**	**6,72**	**7,25**
120°	**4,26**	**5,16**	**5,67**	**5,98**	**6,30**	**6,63**	**7,31**
135°	**3,80**	**4,68**	**5,44**	**5,79**	**6,08**	**6,40**	**7,05**
150°	**3,31**	**4,16**	**4,94**	**5,51**	**5,82**	**6,10**	**6,70**
Run VMG	**2,87**	**3,62**	**4,30**	**4,97**	**5,47**	**5,78**	**6,32**
Gybe Angles	**149,8°**	**155,0°**	**155,4°**	**172,4°**	**179,9°**	**180,0°**	**180,0°**

Rating Office

R.F.E.V.
Luis de salazar,9
28002 Madrid

Certificate

Number **202501**
ORC Ref **ESP00016056**
Issued On **11/02/2016**
VPP Ver. **2016 1.00**
Valid until **31/12/2016**

Crew Weight

Declared	**320kg**
Default*	**332kg**
Non Manual Pwr	**No**

Special Scoring

	ToD	ToT
Double H.GPH	**821,2**	**0,7306**
Double H.OSN	**796,9**	**0,7529**
Non Spin GPH	**849,6**	**0,7062**
Non Spin OSN	**819,5**	**0,7321**
N/S Perf. Line	**75,8**	**0,602**

Sails Limitations

Headsails	Spinnakers
5	**3**

Class Division Length

CDL = **5,300**

Storm Sails Areas

Heavy Weather Jib	**2,532**
Storm Jib	**9,379**
Storm Trysail	**3,12**

Owner

BOAT

Name	**CALABRUIX II**	Sail Nr	**ESP-2025**
File	**E2025.dxt**	Data in	**meters/kilograms**

RIG

Forestay Tension	**Aft**	Spreaders	**1**
Inner Stay	**None Fitted**	Runners	**0**
Carbon Mast	**No**	Jumper Struts	**None**
Taper Hollows	**No**	Jib Furler	**No**
Fiber Rigging	**No**	Main Furler	**No**
Lenticular Rigging	**No**	Without Backstay	**No**
Articulated Bowsprit	**No**		

P	**7,930**	E	**2,250**	MDT1	**0,080**	MW	**0,110**
IG	**7,470**	J	**2,290**	MDL1	**0,110**	GO	**2,400**
ISP	**7,520**	SFJ	**0,300**	MDT2	**0,080**	BD	**0,080**
BAS	**0,940**	SPL	**2,365**	MDL2	**0,110**	MWT	
FSP		TPS		TL	**0,900**	MCG	

MIZZEN RIG AND SAILS

N/A

COMMENTS

INCLINING TEST AND FREEBOARDS

Inclining Test **Current Inclining**

Flotation date **11/10/2010** SG **1,0260**

FFM	**0,885**	FF	**0,883**	SFFP	**0,274**
FAM	**0,819**	FA	**0,827**	SAFP	**6,462**

W1	**20,000**	PD1	**551,8**	WD	**7,200**
W2	**20,000**	PD2	**510,9**	GSA	**1,0**
W3	**20,000**	PD3	**509,3**	RSA	**1,0**
W4	**20,000**	PD4	**508,4**	PLM	**9000,0**

LCF from stem on CL / on sheer	**3,768 / 3,961**
Maximum beam station from stem	**4,250**
RM Measured	**21,8kg·m**
RM Default	**21,0kg·m**
Limit of positive stability / Stab.Index	**110,5° / 102,4**
Freeboard at mast at 2,590	**0,820**

PROPELLER

Type **No Propeller**

MOVEABLE BALLAST

N/A

CENTERBOARD

N/A

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2016 Measurements Datasheet

Certificate

Number **202501**
ORC Ref **ESP00016056**
Issued On **11/02/2016**
VPP Ver. **2016 1.00**
Valid until **31/12/2016**

SAILS (Maximum Areas)

Mainsail	**MHB**	**MUW**	**MTW**	**MHW**	**MQW**	**Area**	**Area (r)**	**Formula**
	0,130	0,49	0,85	1,42	1,87	10,57	10,70	P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)
Symmetric	**SLU**	**SLE**	**SL**	**SHW**	**SFL**			
	7,72	7,72	7,72	4,46	4,18	28,33		SL · (SFL + 4·SHW) / 6

Asymmetric
Not Available

HEADSAILS

Area = 0.1125·HLU · (1.445·HLP + 2·HQW + 2·HHW + 1.5·HTW + HUW + 0.5·HHB)

HHB	HUW	HTW	HHW	HQW	HLP	HLU	Area	Btn	Fly	Meas.Date	Material	Comment
0,07	0,46	0,90	1,77	2,65	3,54	7,12	12,66					
0,07	0,36	0,66	1,16	1,74	2,58	7,18	8,82				Unknow	

MEASUREMENT INVENTORY

Measurer **JJ BELTRAN**
Date **11/10/2010**
Comment

Id	*Item*	*Weight*	*Distance*	*VCG*	*Description*
~~OR~~	~~Anchor~~	~~14,0~~	~~5,00~~		~~ANCLA~~
~~1~~	~~Chain~~	~~6,0~~	~~5,00~~		~~CADENA~~
~~1~~	~~Tools~~	~~5,0~~	~~3,00~~		

Id	*Item*	*Maker*	*Model*
1	Engine	FUERA BORDA	8CV

Id	*Item*	*Weight*	*Description*

MEASUREMENT INVENTORY

Id	*Item*	*Tank Use*	*Tank Type*	*Capcty*	*Dist.*	*VCG*	*Condtn*	*Description*
1	Tank	AGUA	PLASTICO	50,0	6,50			
1	Tank	GASOLINA	PLASTIC	15,0	6,50			

Id	*Item*	*Weight*	*Distance*	*VCG*	*Description*
1	Battery	10,0	6,00		BATERIA

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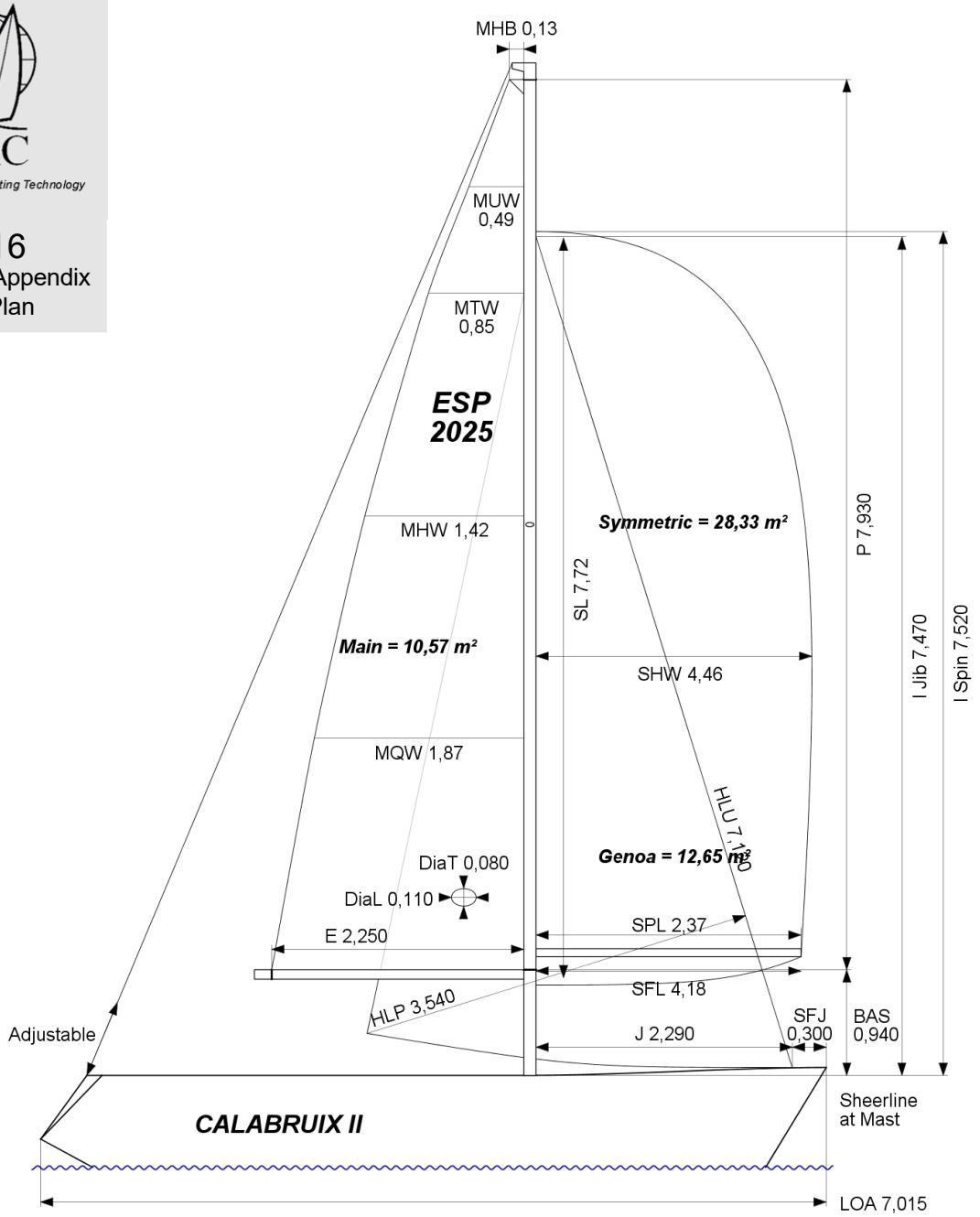
2016
Certificate Appendix
Sail Plan



SAILS INVENTORY

MAINSAIL

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
1	0,130	0,49	0,85	1,42	1,87	10,57	JJBELTRAN				

HEADSAILS

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
3	0,07	0,46	0,90	1,77	2,65	3,54	7,12	155%	12,66			JJBELTR				
2	0,07	0,36	0,66	1,16	1,74	2,58	7,18	113%	8,82			JJBELTR			Unknow	

SYMMETRIC SPINNAKERS

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
ORC	7,72	7,72	7,72	4,46	4,18	28,33	JJBELTRAN				

ASYMMETRIC SPINNAKERS

Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment