BOAT

Name **CALIFA 3**
Sail Nr **ARG-3773**

GPH

552,5

GENERAL

Class	**FARR 44**
Designer	**BRUCE FARR**
Builder	**AST. DEL ESTUARIO**
Series	**12/1991**
Age	**12/1991**
Age Allowance	**0,487%**
Offset File	**CALIFA3.OFF - 02/01/1997 12:54:10**
Measurement by	**JC MACULAN - 09/09/2016**

HULL

Length Overall	**13,510m**
Maximum Beam	**4,138m**
Displacement	**6.950kg**
Draft	**2,413m**
IMS Reg. Division	**Performance**
Dynamic Allowance	**0,000%**
Fwd Accommodation	**No**
Hull Construction	**Light**
Carbon Rudder	**No**
Crew Arm Extension	

IMSL	**11,383m**	VCGD	**-0,197m**	Sink	**24,90kg/mm**
RL	**10,575m**	VCGM	**-0,150m**	WS	**32,94m²**
LSM0	**11,023m**	Displacement/Length ratio			**5,1890**

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2017
ORC International Certificate

Rating Office

PATRICIO D. GUTIERREZ C. GRIERSON Y COSTANERA SUR Y.C.A

SCORING OPTIONS

	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time On Distance	**538,8**			**606,9**		
Time On Time	**1,1137**			**1,1122**		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	**633,1**	**490,0**	**432,9**	**827,2**	**610,9**	**528,0**
Time on Time	**1,0661**	**1,3776**	**1,5591**	**0,8160**	**1,1050**	**1,2783**

TIME ALLOWANCES

Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	**932,0**	**766,7**	**682,9**	**649,3**	**632,9**	**619,9**	**610,4**
52°	**602,7**	**501,3**	**461,2**	**448,9**	**442,6**	**438,8**	**428,9**
60°	**563,7**	**476,5**	**446,4**	**434,0**	**426,8**	**422,2**	**410,7**
75°	**530,9**	**460,5**	**433,1**	**413,7**	**401,8**	**394,7**	**387,7**
90°	**531,4**	**460,0**	**431,8**	**408,7**	**388,0**	**373,3**	**360,3**
110°	**563,2**	**466,5**	**429,4**	**401,0**	**385,2**	**370,0**	**346,7**
120°	**582,4**	**476,9**	**436,4**	**406,6**	**377,7**	**357,2**	**331,8**
135°	**651,0**	**522,7**	**459,1**	**429,2**	**401,6**	**374,9**	**319,8**
150°	**776,9**	**617,5**	**519,1**	**461,5**	**432,1**	**406,4**	**357,0**
Run VMG	**897,1**	**713,0**	**599,4**	**527,6**	**481,5**	**446,2**	**397,0**
Selected Courses							
Windward / Leeward	**914,5**	**739,8**	**641,2**	**588,5**	**557,2**	**533,0**	**503,7**
Circular Random	**761,6**	**614,8**	**536,2**	**490,3**	**461,4**	**441,6**	**414,6**
Ocean for PCS	**940,8**	**725,4**	**603,9**	**529,3**	**480,0**	**444,8**	**394,7**
Non Spinnaker	**806,2**	**646,7**	**560,2**	**509,0**	**476,6**	**454,6**	**425,2**

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	**44,0°**	**43,1°**	**41,7°**	**40,5°**	**39,9°**	**39,1°**	**39,0°**
Beat VMG	**3,86**	**4,70**	**5,27**	**5,54**	**5,69**	**5,81**	**5,90**
52°	**5,97**	**7,18**	**7,81**	**8,02**	**8,13**	**8,20**	**8,39**
60°	**6,39**	**7,55**	**8,07**	**8,30**	**8,44**	**8,53**	**8,77**
75°	**6,78**	**7,82**	**8,31**	**8,70**	**8,96**	**9,12**	**9,28**
90°	**6,77**	**7,83**	**8,34**	**8,81**	**9,28**	**9,64**	**9,99**
110°	**6,39**	**7,72**	**8,38**	**8,98**	**9,35**	**9,73**	**10,38**
120°	**6,18**	**7,55**	**8,25**	**8,85**	**9,53**	**10,08**	**10,85**
135°	**5,53**	**6,89**	**7,84**	**8,39**	**8,96**	**9,60**	**11,26**
150°	**4,63**	**5,83**	**6,94**	**7,80**	**8,33**	**8,86**	**10,08**
Run VMG	**4,01**	**5,05**	**6,01**	**6,82**	**7,48**	**8,07**	**9,07**
Gybe Angles	**141,9°**	**146,0°**	**148,8°**	**155,2°**	**167,0°**	**180,0°**	**180,0°**

Certificate

Number **377306**
ORC Ref **ARG00004511**
Issued On **10/03/2017**
VPP Ver. **2017 1.00**
Valid until **31/12/2017**

Crew Weight

Declared	**824kg**
Default*	**791kg**
Non Manual Pwr	**No**

Special Scoring

	ToD	ToT
Double H.GPH	**557,6**	**1,0761**
Double H.OSN	**545,0**	**1,1008**
Non Spin GPH	**577,8**	**1,0384**
Non Spin OSN	**564,5**	**1,0628**

Sails Limitations

Headsails	Spinnakers
6	**3**

Class Division Length

CDL = **10,980**

Storm Sails Areas

Heavy Weather Jib	**37,20**
Storm Jib (JL=10,79)	**13,78**
Storm Trysail	**18,95**

Owner

FERRES / LACOUR
CARRANZA 2386
CABA

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

Signature

BOAT

Name	**CALIFA 3**	Sail Nr	**ARG-3773**
File	**ARG3773**	Data in	**meters/kilograms**

RIG

Forestay Tension	**Aft**	Spreaders	**3**
Inner Stay	**None Fitted**	Runners	**1**
Carbon Mast	**Yes**	Jumper Struts	**None**
Taper Hollows	**No**	Jib Furler	**No**
Fiber Rigging	**No**	Main Furler	**No**
Lenticular Rigging	**No**	Without Backstay	**Yes**
Articulated Bowsprit	**No**		

P	**17,300**	E	**6,260**	MDT1	**0,135**	MW	**0,250**
IG	**16,600**	J	**5,220**	MDL1	**0,250**	GO	**0,250**
ISP	**17,340**	SFJ	**0,100**	MDT2	**0,120**	BD	**0,220**
BAS	**1,970**	SPL	**5,160**	MDL2	**0,210**	MWT	**281,00**
FSP	**0,070**	TPS		TL	**1,500**	MCG	**6,060**

MIZZEN RIG AND SAILS

N/A

COMMENTS

INCLINING TEST AND FREEBOARDS

Inclining Test **Boom Inclining**

Flotation date **09/09/2016** SG **1,0000**

FFM	**1,480**	FF	**1,485**	SFFP	**0,560**
FAM	**1,187**	FA	**1,198**	SAFP	**11,800**
W1	**132,3**	PD1	**521,7**	WD	**12,200**
W2	**132,3**	PD2	**517,9**	GSA	**1,0**
W3	**132,3**	PD3	**516,6**	RSA	**1,0**
W4	**132,3**	PD4	**523,7**	PLM	**9000,0**

LCF from stem on CL / on sheer	**7,466 / 7,736**
Maximum beam station from stem	**7,880**
RM Measured	**244,3kg·m**
RM Default	**230,6kg·m**
Limit of positive stability / Stab.Index	**122,9° / 121,6**
Freeboard at mast at 5,320	**1,290**

PROPELLER

Installation	**Strut**	PRD	**0,430**
Type	**Folding 2 blades**	PBW	**0,115**
Twin Screw	**No**	PIPA	**0,0041**

ST1	**0,065**	ST3	**0,180**	ST5	**0,320**
ST2	**0,180**	ST4	**0,110**	EDL	**0,740**

MOVEABLE BALLAST

N/A

CENTERBOARD

N/A

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VPP Ver. **2017 1.00**
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SAILS (Maximum Areas)

Mainsail	**MHB**	**MUW**	**MTW**	**MHW**	**MQW**	**Area**	**Area (r)**	**Formula**
	1,075	1,81	2,60	3,98	5,17	66,62	68,12	P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)
Symmetric	**SLU**	**SLE**	**SL**	**SHW**	**SFL**			
	16,84	16,84	16,84	9,45	9,30	132,19		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
0,08	0,84	1,66	3,04	4,24	5,39	16,97	49,10	Y		09/11/2016	Kevlar	
0,10	0,82	1,55	2,92	4,17	5,40	16,66	47,19	Y		09/09/2016	Kevlar	

MEASUREMENT INVENTORY

Measurer **JC MACULAN JCM**
Date **09/09/2016**
Comment

Id	*Item*	*Weight*	*Distance*	*VCG*	*Description*

Id	*Item*	*Maker*	*Model*
C4	Engine	VOLVO PENTA	40 HP

Id	*Item*	*Weight*	*Description*

MEASUREMENT INVENTORY

Id	*Item*	*Tank Use*	*Tank Type*	*Capcty*	*Dist.*	*VCG*	*Condtn*	*Description*
B4	Tank	GAS OIL	RIGIDO	96,0	10,40	0,00	~~45,0~~	
E5	Tank	AGUA	FLEX	60,0	8,30	0,00	~~0,0~~	

Id	*Item*	*Weight*	*Distance*	*VCG*	*Description*
C5	Battery	75,0	7,50	0,00	

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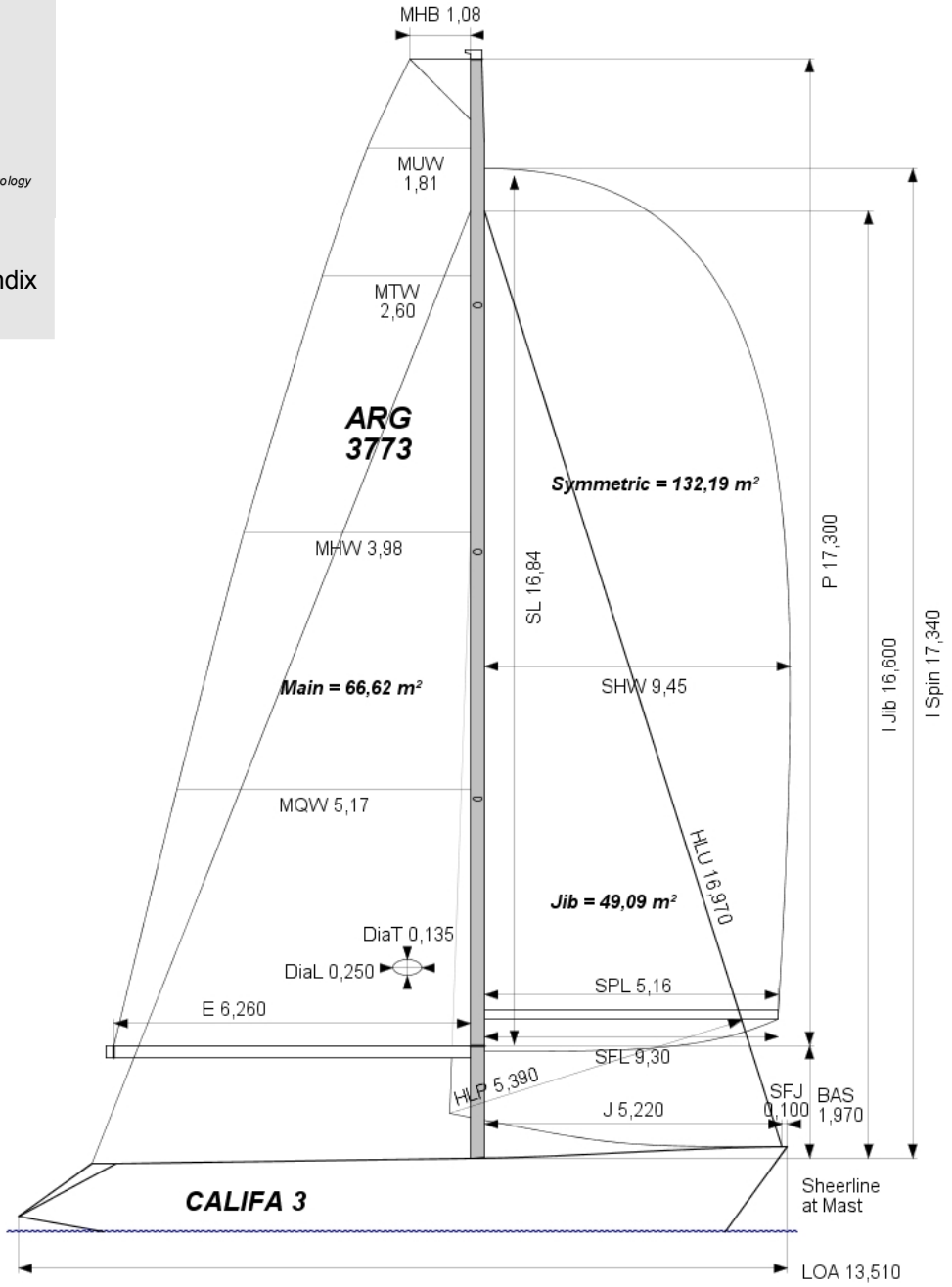
2017
Certificate Appendix
Sail Plan



SAILS INVENTORY

MAINSAIL (1)

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
M2	1,075	1,81	2,60	3,98	5,17	66,62	JCM	09/09/2016	NORTH	Kevlar	

HEADSAILS (2)

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
G1LM	0,08	0,84	1,66	3,04	4,24	5,39	16,97	103%	49,10	Y			09/11/2016	NORTH	Kevlar	
G1MH	0,10	0,82	1,55	2,92	4,17	5,40	16,66	103%	47,19	Y		JCM	09/09/2016	NORTH	Kevlar	

SYMMETRIC SPINNAKERS (1)

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
S2	16,84	16,84	16,84	9,45	9,30	132,19	JCM	09/09/2016	NORTH	Nylon	* Copied from legacy *

ASYMMETRIC SPINNAKERS (0)

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