



Rating Office
TRICIO D. GUTIERREZ
C. GRIERSON Y
COSTANERA SUR
YCA



Number **410701**
Issued On **10/03/2017**
ORC Ref **ARG00004513**
VPP Ver. **2017 1.00**
Valid until **31/12/2017**

Declared	525kg
Default*	492kg
Non Manual Pwr	No

	ToD	ToT
Double H.GPH	698,5	0,8590
Double H.OSN	681,0	0,8810
Non Spin GPH	723,8	0,8290
Non Spin OSN	702,2	0,8544

Headsails **5** Spinnakers **3**

Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

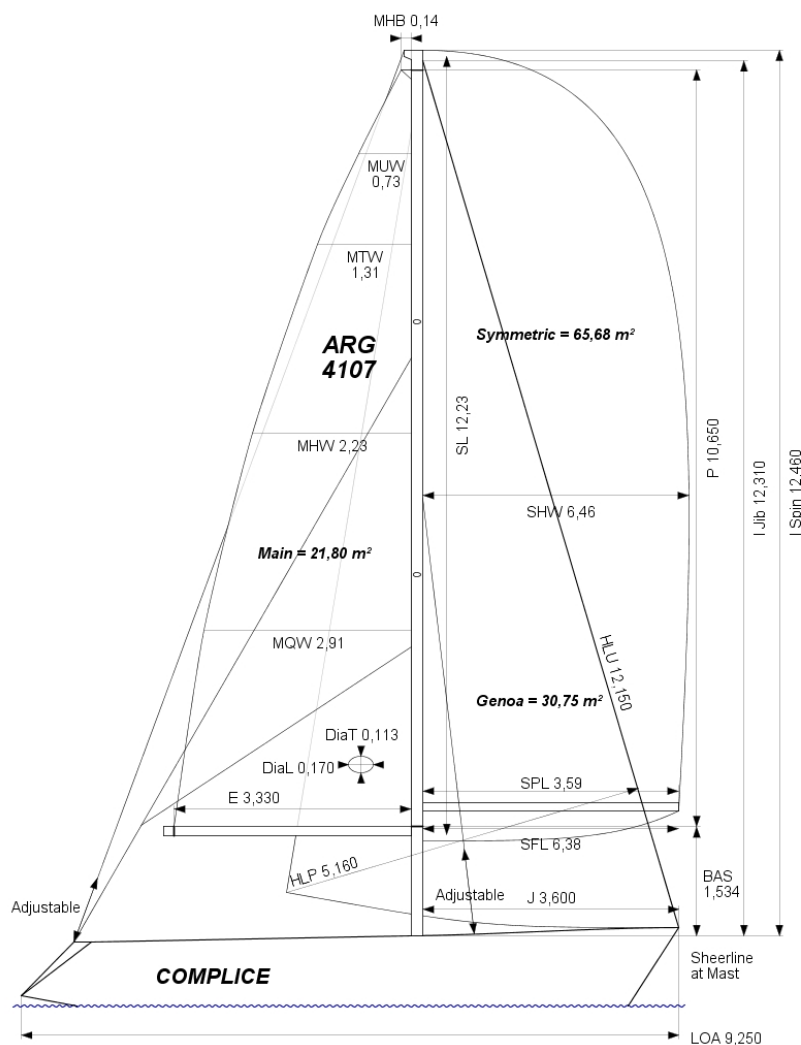
CDL = 7,336

Limit Positive Stab.: **112,3°**
Stability Index: **108,7**

DIEGO TOSI
ROSALES 2729
BUENOS AIRES

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

Signature

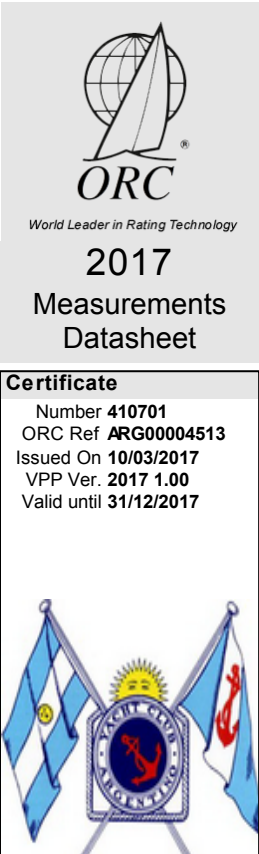


BOAT Name COMPLICE Sail Nr ARG4107		GPH 695,0		HULL Data File ARG4107 LOA 9,250m Offset File arg4107nr.OFF MB 3,320m Displacement 3.678kg Draft 1,618m	
CLASS				IMS Division Cruiser/Racer Dynamic All. 0,225% Fwd Accom. Yes Construction Solid Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder No Light Stanchions	
Class VAN 30 Designer NESTOR VOLKER Builder AST. DEL SUR Series 01/1988 Age Date 01/1988 Age Allowance 0,487%				IMSL 8,012m VCGD 0,055m Sink 13,72kg/mm RL 6,658m VCGM 0,061m WS 18,62m	
COMMENTS				LSM0 7,906m Displacement/Length ratio 7,4429 Water Ballast 0 Trim Tab No	
PROPELLER				CENTERBOARD	
Installation Strut PRD 0,406 Type Folding 2 blades PBW 0,110 PIPA 0,0031				N/A	

	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time On Distance	675,9			753,9		
Time On Time	0,8877			0,8953		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	795,3	616,3	548,3	1026,9	759,9	657,1
Time on Time	0,8487	1,0952	1,2310	0,6573	0,8883	1,0273

BOAT Name COMPLICE Sail Nr ARG-4107 File ARG4107 Data in meters/kilograms		INCLINING TEST AND FREEBOARDS Inclining Test Club Estimated VCG Flotation date 02/12/2009 SG 1,0000 FFM 1,101 FF 1,117 SFFP 0,200 FAM 0,901 FA 0,906 SAFF 8,271 LCF from stem on CL / on sheer 5,091 / 5,334 Maximum beam station from stem 5,650 RM Measured 70,8kg-m RM Default 68,8kg-m Limit of positive stability / Stab.Index 112,3° / 108,7 Freeboard at mast at 3,600 0,984	
RIG Forestay Tension Aft Spreaders 2 Inner Stay Adjustable Runners 2 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 10,650 E 3,330 MDT1 0,113 MW 0,170 IG 12,310 J 3,600 MDL1 0,170 GO 0,170 ISP 12,460 SFJ 0,000 MDT2 0,113 BD 0,120 BAS 1,534 SPL 3,590 MDL2 0,170 MWT FSP 0,044 TPS TL 0,000 MCG		PROPELLER Installation Strut PRD 0,406 Type Folding 2 blades PBW 0,110 Twin Screw No PIPA 0,0031 ST1 0,049 ST3 0,170 ST5 0,255 ST2 0,170 ST4 0,098 EDL 1,760	
MIZZEN RIG AND SAILS N/A		MOVEABLE BALLAST N/A	
COMMENTS 		CENTERBOARD N/A	

SAILS INVENTORY																
MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measur	Meas.Date	Manufacture	Material	Comment					
M3	0,140	0,73	1,31	2,23	2,91	21,80	PG	12/01/2017	ELVSTROM	Kevlar						
HEADSAILS (2)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measur	Meas.Date	Manufacture	Material	Comment
G1 MD	0,08	0,64	1,24	2,49	3,76	5,16	12,15	143%	30,75			PG	12/01/2017	NORTH	Kevlar	* Copied from legacy *
G3	0,08	0,43	0,82	1,63	2,53	3,48	12,44	97%	21,06	Y			14/01/2015	NORTH	Kevlar	
SYMMETRIC SPINNAKERS (3)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measur	Meas.Date	Manufacture	Material	Comment					
S3	12,23	12,23	12,23	6,46	6,38	65,68	PG	09/11/2016	ELVESTROM	Nylon						
S1	11,98	11,98	11,98	6,39	6,39	63,79										
S2	11,77	11,77	11,77	6,50	6,32	63,40	EC	13/01/2012	NORTH	Nylon	* Copied from legacy *					
ASYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measur	Meas.Date	Manufacture	Material	Comment				



MEASUREMENT INVENTORY				
Measurer EDUARDO CASTRO				
Date 02/12/2009				
Comment				
Id	Item	Weight	Distance	VCG Description
B7	Anchor	6,0	3,77	
B7	Chain	2,0	3,77	
B6	Tools	5,0	4,77	
Id	Item	Maker	Model	
C5	Engine	VOLVO	18 HP	
Id	Item	Weight	Description	
G7	Deck-Gear	20,0	GABOS-Y-MANIJAS	

MEASUREMENT INVENTORY						
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG Condtn Description
E4	Tank	GAS OIL	RIGIDO METAL	100,0	7,27	
E6	Tank	AGUA	RIGIDO METAL	150,0	4,77	
B6	Tank	AGUA	RIGIDO METAL	150,0	4,77	
Id	Item	Weight	Distance	VCG Description		
C5	Battery	25,0	6,27			
C5	Battery	25,0	6,27			



World Leader in Rating Technology

2017

ORC Club Certificate Appendix

BOAT

Name **COMPLICE**
Sail Nr **ARG-4107**

Certificate Number **410701**
Issued On **10/03/2017**

TIME ALLOWANCES

Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1180,2	988,7	882,2	818,3	790,0	775,9	772,1
52°	767,6	648,2	586,5	559,3	546,9	541,1	537,7
60°	722,5	612,6	566,0	544,1	530,6	523,6	518,6
75°	685,3	588,2	550,9	530,5	513,4	499,0	484,7
90°	686,3	587,5	547,6	522,8	510,1	492,6	464,6
110°	711,6	589,8	542,8	515,7	489,8	469,1	451,1
120°	732,3	603,3	548,9	521,0	495,4	470,9	433,6
135°	802,4	655,5	573,0	537,6	512,7	488,1	444,2
150°	935,2	744,3	633,3	567,5	536,5	513,4	468,7
Run VMG	1079,9	859,0	728,6	641,2	579,2	544,3	499,1

Selected Courses

Windward / Leeward	1130,0	923,8	805,4	729,7	684,6	660,1	635,6
Circular Random	955,5	772,6	674,5	617,3	582,1	559,2	531,3
Ocean for PCS	1168,2	905,2	756,7	665,5	605,9	564,1	505,5
Non Spinnaker	1007,0	809,0	701,7	638,5	599,4	574,0	543,0

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	43,8°	43,0°	43,0°	41,8°	40,9°	40,4°	40,5°
Beat VMG	3,05	3,64	4,08	4,40	4,56	4,64	4,66
52°	4,69	5,55	6,14	6,44	6,58	6,65	6,70
60°	4,98	5,88	6,36	6,62	6,79	6,88	6,94
75°	5,25	6,12	6,53	6,79	7,01	7,21	7,43
90°	5,25	6,13	6,57	6,89	7,06	7,31	7,75
110°	5,06	6,10	6,63	6,98	7,35	7,67	7,98
120°	4,92	5,97	6,56	6,91	7,27	7,64	8,30
135°	4,49	5,49	6,28	6,70	7,02	7,38	8,10
150°	3,85	4,84	5,68	6,34	6,71	7,01	7,68
Run VMG	3,33	4,19	4,94	5,61	6,22	6,61	7,21
Gybe Angles	147,4°	151,3°	152,8°	160,3°	180,0°	180,0°	180,0°