

BOAT Name CARRION OF WIGHT Sail Nr GBR-296L	GPH 635,8	HULL Length Overall 13,442m Maximum Beam 3,776m Displacement 13.787kg Draft 2,296m IMS Reg. Division Cruiser/Racer Dynamic Allowance 0,577% Fwd Accommodation Yes Hull Construction Solid Carbon Rudder No Crew Arm Extension
GENERAL Class S&S 45 Designer S&S Builder NAUTOR Series 01/1970 Age 01/1971 Age Allowance 0,488% Offset File e213.off - 29/01/1997 17:52:00 Measurement by Francisco Gil / Ju - 02/08/2013		IMSL 11,001m VCGD -0,203m Sink 25,98kg/mm RL 7,961m VCGM -0,223m WS 37,91m² LSMO 10,970m Displacement/Length ratio 10,4436



2016
ORC International
Certificate

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



SCORING OPTIONS	OFFSHORE COASTAL / LONG DISTANCE			INSHORE WINDWARD / LEEWARD		
	PLT	PLD		PLT	PLD	
Time On Distance	618,3			693,0		
Time On Time	0,9704			0,9740		
Performance Line	0,924	135,2		0,746	145,3	
Triple Number	Low 0,9122	Medium 1,2015	High 1,3795	Low 0,7014	Medium 0,9571	High 1,1525

TIME ALLOWANCES	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1103,2	921,0	820,3	748,4	705,7	681,4	657,2
52°	709,8	603,5	532,6	495,0	478,5	470,3	462,5
60°	665,4	567,0	504,4	478,0	464,1	456,3	448,9
75°	628,6	533,6	486,2	465,4	452,1	441,6	429,2
90°	628,3	534,0	486,8	464,0	452,5	441,0	420,8
110°	656,4	543,9	485,0	460,3	443,0	429,2	416,0
120°	676,5	562,3	493,8	465,3	447,4	431,9	404,0
135°	746,6	615,7	530,7	484,1	461,3	444,6	413,6
150°	881,8	699,2	598,2	527,5	484,5	462,7	432,2
Run VMG	1018,2	807,3	689,1	604,8	543,6	497,8	454,4

Selected Courses	1060,7	864,1	754,7	676,6	624,6	589,6	555,8
Windward / Leeward	1060,7	864,1	754,7	676,6	624,6	589,6	555,8
Circular Random	884,3	711,4	616,8	560,1	524,2	500,5	472,1
Ocean for PCS	877,8	698,1	597,1	535,6	496,6	470,9	437,4
Non Spinnaker	923,7	739,5	637,7	576,2	536,9	510,6	478,3

Velocity Prediction in Knots for True Wind Speeds	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat Angles	44,9°	42,9°	43,1°	43,9°	42,3°	41,0°	39,6°
Beat VMG	3,26	3,91	4,39	4,81	5,10	5,28	5,48
52°	5,07	5,97	6,76	7,27	7,52	7,65	7,78
60°	5,41	6,35	7,14	7,53	7,76	7,89	8,02
75°	5,73	6,75	7,40	7,74	7,96	8,15	8,39
90°	5,73	6,74	7,40	7,76	7,96	8,16	8,56
110°	5,48	6,62	7,42	7,82	8,13	8,39	8,65
120°	5,32	6,40	7,29	7,74	8,05	8,34	8,91
135°	4,82	5,85	6,78	7,44	7,80	8,10	8,70
150°	4,08	5,15	6,02	6,83	7,43	7,78	8,33
Run VMG	3,54	4,46	5,22	5,95	6,62	7,23	7,92
Gybe Angles	146,1°	151,0°	153,6°	153,4°	163,6°	180,0°	180,0°

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Number **029601**
ORC Ref **ESP00015913**
Issued On **04/02/2016**
VPP Ver. **2016 1.00**
Valid until **31/12/2016**

Crew Weight
Declared **600kg**
Default* **786kg**
Non Manual Pwr **Yes**

Special Scoring
ToD ToT
Double H.GPH **637,7 0,9409**
Double H.OSN **620,7 0,9667**
Non Spin GPH **657,8 0,9121**
Non Spin OSN **639,6 0,9381**
N/S Perf. Line **87,8 0,802**

Sails Limitations
Headsails **1** | Spinnakers **3**

Class Division Length
CDL = **9,482**

Storm Sails Areas
Heavy Weather Jib **35,34**
Storm Jib (JL=10,52) **13,09**
Storm Trysail **14,48**

Owner

BOAT		
Name	CARRION OF WIGHT	Sail Nr GBR-296L
File	GBR296.dxt	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS		
Inclining Test Current Inclining		
Flotation date	01/01/2010	SG 1,0260
FFM	1,346	FF 1,354 SFFP 0,963
FAM	0,992	FA 0,998 SAFFP 13,026
W1	100,00	PD1 386,6 WD 13,800
W2	100,00	PD2 387,5 GSA 1,0
W3	100,00	PD3 387,5 RSA 1,0
W4	100,00	PD4 386,6 PLM 9000,0
LCF from stem on CL / on sheer		7,471 / 7,695
Maximum beam station from stem		7,335
RM Measured		280,8kg·m
RM Default		220,5kg·m
Limit of positive stability / Stab.Index		128,6° / 138,0
Freeboard at mast at 6,100		1,101

RIG							
Forestay Tension	Aft	Spreaders	2				
Inner Stay	None Fitted	Runners	0				
Carbon Mast	No	Jumper Struts	None				
Taper Hollows	No	Jib Furler	Yes				
Fiber Rigging	No	Main Furler	No				
Lenticular Rigging	No	Without Backstay					
Articulated Bowsprit	No						
P	15,320	E	5,400	MDT1	0,140	MW	0,270
IG	16,150	J	5,400	MDL1	0,270	GO	0,280
ISP	16,910	SFJ	0,700	MDT2	0,140	BD	0,170
BAS	1,700	SPL	5,520	MDL2	0,270	MWT	
FSP	0,072	TPS	0,000	TL	0,000	MCG	



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2016 Measurements Datasheet

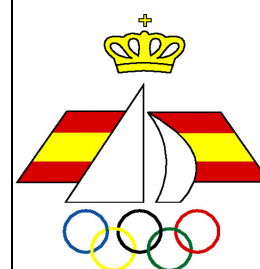
MIZZEN RIG AND SAILS	
N/A	

PROPELLER		
Installation	Strut	PRD 0,460
Type	Folding 2 blades	PBW 0,012
Twin Screw		PIPA 0,0035
ST1	0,048	ST3 0,175 ST5 0,235
ST2	0,175	ST4 0,112 EDL 2,070

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COMMENTS

MOVEABLE BALLAST	
N/A	



CENTERBOARD	
N/A	

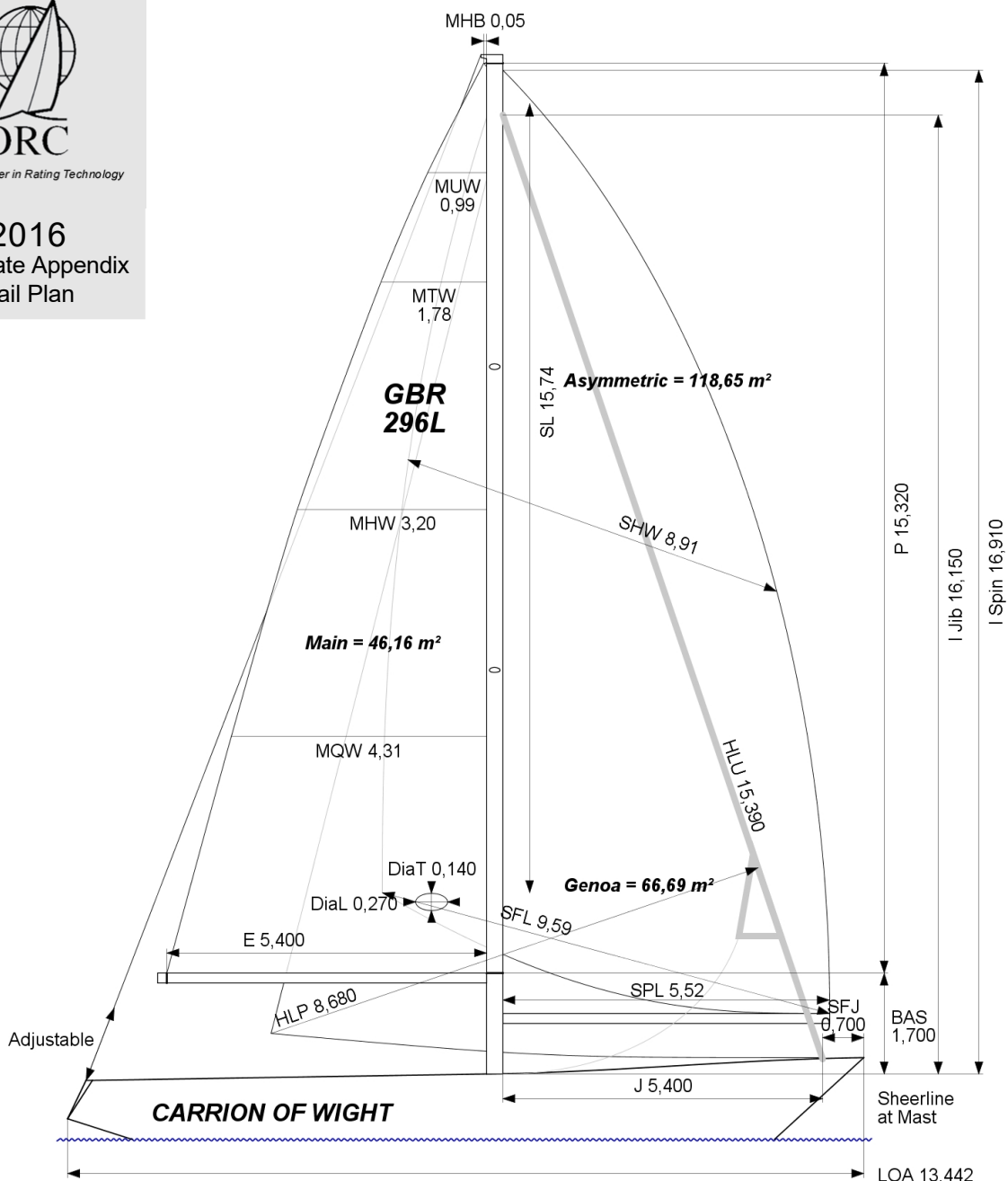
SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0,050	0,99	1,78	3,20	4,31	46,16	46,78	P/8 · (E + 2·MQW + 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric Not Available									
Asymmetric	SLU	SLE	SL	SHW	SFL	118,65		AS · (SFL + 4·SHW) / 6	
	16,72	14,76	15,74	8,91	9,59				

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
0,11	1,08	2,15	4,31	6,50	8,68	15,39	66,70			01/08/2013	Carbon	



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Certificate Appendix
Sail Plan



SAILS INVENTORY																
MANSAIL																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1	0,050	0,99	1,78	3,20	4,31	46,16	FRAGIL	01/08/2013	ONE SAILS	Kevlar	Comment					
HEADSAILS																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
1	0,11	1,08	2,15	4,31	6,50	8,68	15,39	161%	66,70			FRAGIL	01/08/2013	ONE SAILS	Carbon	
SYMMETRIC SPINNAKERS																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
ASYMMETRIC SPINNAKERS																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				
1	16,72	14,76	15,74	8,91	9,59	118,65	asym	FRAGIL	01/08/2013		Nylon	Comment				