

BOAT Name A35 Sail Nr GRE-35	GPH 604.0	HULL Length Overall 10.617m Maximum Beam 3.594m Displacement 4,650kg Draft 2.165m IMS Reg. Division Cruiser/Racer Dynamic Allowance 0.148% Fwd Accommodation Yes Hull Construction Cored Carbon Rudder No Crew Arm Extension
GENERAL Class A-35 Designer BERNARD NIVELT Builder ARCHAMBAULT Series 01/2005 Age 01/2007 Age Allowance 0.455% Offset File F234.OFF - 19/03/2007 12:34:06 Measurement by - 14/06/2015		IMSL 9.666m VCGD -0.016m Sink 17.98kg/mm RL 9.170m VCGM 0.027m WS 23.34m² LSM0 9.339m Displacement/Length ratio 5.7089



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	586.5			652.8		
Time on Time	1.0230			1.0340		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	688.9	536.0	477.9	886.6	654.5	571.0
Time on Time	0.9798	1.2593	1.4123	0.7613	1.0314	1.1821

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1025.3	847.4	744.3	697.3	681.2	674.6	661.3
52°	672.5	567.5	515.8	495.7	488.3	484.7	479.3
60°	635.9	543.2	503.0	484.4	475.0	470.6	466.3
75°	609.1	526.4	493.4	473.8	458.5	447.6	439.3
90°	615.9	518.8	489.7	472.2	453.9	435.9	409.8
110°	602.8	508.3	473.2	450.3	435.8	423.8	398.0
120°	617.0	515.1	476.4	447.8	420.7	403.4	378.4
135°	681.0	552.5	494.6	464.8	436.3	408.0	348.4
150°	805.4	644.3	545.9	494.7	467.0	440.7	388.0
Run VMG	930.0	744.0	630.1	560.9	513.7	481.2	431.6

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Crew Weight

Default **624kg**
Maximum **600kg**
Minimum* **450kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	645.4	0.9297
Non Spin OSN	625.5	0.9592

Selected Courses							
Windward / Leeward	977.6	795.7	687.2	629.1	597.5	577.9	546.5
Circular Random	828.5	670.5	586.2	537.6	507.5	487.0	457.8
Coastal / Long Distance	972.8	747.6	623.0	554.6	518.0	489.3	441.2
Non Spinnaker	903.9	723.4	625.2	567.5	531.6	507.6	475.7

Sails Limitations

Headsails	Spinnakers
5	3

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	42.6°	40.9°	39.9°	38.2°	37.7°	37.6°	37.2°
Beat VMG	3.51	4.25	4.84	5.16	5.28	5.34	5.44
52°	5.35	6.34	6.98	7.26	7.37	7.43	7.51
60°	5.66	6.63	7.16	7.43	7.58	7.65	7.72
75°	5.91	6.84	7.30	7.60	7.85	8.04	8.20
90°	5.85	6.94	7.35	7.62	7.93	8.26	8.78
110°	5.97	7.08	7.61	8.00	8.26	8.49	9.05
120°	5.84	6.99	7.56	8.04	8.56	8.92	9.51
135°	5.29	6.52	7.28	7.75	8.25	8.82	10.33
150°	4.47	5.59	6.59	7.28	7.71	8.17	9.28
Run VMG	3.87	4.84	5.71	6.42	7.01	7.48	8.34
Gybe Angles	141.9°	147.7°	150.5°	157.7°	180.0°	180.0°	180.0°

Class Division Length

CDL = **9.419**

Storm Sails Areas

Heavy Weather Jib **25.12**
Storm Jib (JL=8.87) **9.31**
Storm Trysail **10.61**

Owner

BOAT	
Name A35	Sail Nr GRE-35
File GR35	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS		
Inclining Test Current Inclining		
Flotation date 01/08/2019	SG 1.0270	
FFM 1.365	FF 1.363	SFFP 0.101
FAM 0.944	FA 0.946	SAFP 10.245
W1 71.0	PD1 577.5	WD 11.300
W2 71.0	PD2 577.0	GSA 1.0
W3 71.0	PD3 576.8	RSA 1.0
W4 71.0	PD4 577.6	PLM 9000.0
LCF from stem on CL / on sheer		5.927 / 6.165
Maximum beam station from stem		7.628
RM Measured		109.5kg-m
RM Default		107.7kg-m
Limit of positive stability / Stab.Index		117.3° / 114.6
Freeboard at mast at 4.145		1.098



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RIG	
Forestay Tension Aft	Spreaders 2
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 13.710	E 4.420 MDT1 0.120 MW 0.175
IG 13.542	J 4.145 MDL1 0.175 GO 0.205
ISP 15.247	SFJ 0.000 MDT2 0.100 BD 0.155
BAS 1.567	SPL 4.315 MDL2 0.122 MWT
FSP 0.076	TPS TL 1.700 MCG

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MIZZEN RIG AND SAILS	
N/A	

PROPELLER		
Installation Strut	PRD 0.405	
Type Folding 2 blades	PBW 0.102	
Twin Screw No	PIPA 0.0033	
ST1 0.065	ST3 0.180	ST5 0.290
ST2 0.180	ST4 0.096	EDL 1.545

COMMENTS	

MOVABLE BALLAST	
N/A	

CENTERBOARD	
N/A	

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SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.190	0.97	1.72	2.97	3.85	37.20	37.93	P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL	106.67		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
0.10	0.66	1.23	2.27	3.30	4.33	13.10	29.41	Y		10/09/2019	Dyneem	J1-M-L 3Di
0.10	0.64	1.20	2.20	3.23	4.30	13.10	28.83	Y		10/09/2019	Dyneem	J1- M-H 3Di
0.10	0.57	1.09	2.14	3.21	4.30	13.10	28.25	Y		26/08/2019	Dyneem	J3-HEAVY 3Di/2016

MEASUREMENT INVENTORY				
Measurer GRE-141				
Date 01/08/2019				
Comment				
Id	Item	Weight	Distance	VCG Description
Id	Item	Maker	Model	
1	Engine	YAMAHA	24 HP	
Id	Item	Weight Description		

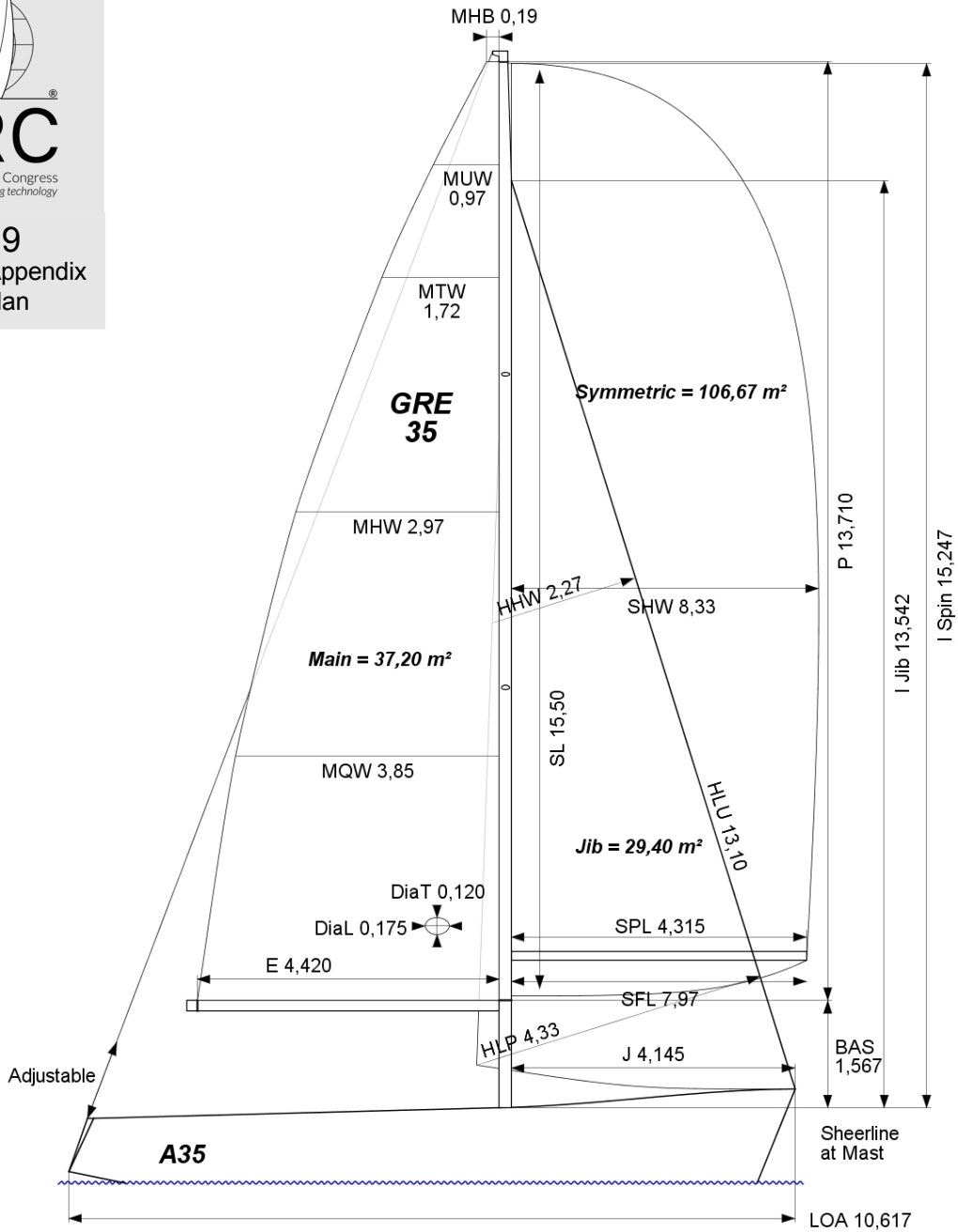
MEASUREMENT INVENTORY									
Id	Item	Tank	Use	Tank Type	Capcty	Dist.	VCG	Condtn	Description
2	Tank	WATER		PVC Soft (bag)	40.0	7.80	0.00	0-0	(P)
1	Tank	FUEL		PVC Hard	50.0	7.80	0.30	15-0	(S)
Id	Item	Weight	Distance	VCG Description					
2	Battery	5.20		1x74Ah					
1	Battery	7.20		1x80Ah					
1	Misc	5.70		2 burners					



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SAILS INVENTORY

MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1	0.19	0.97	1.72	2.97	3.85	37.20		26/05/2015	NORTH	Dyneema	3Di					
HEADSAILS (3)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
2	0.10	0.66	1.23	2.27	3.30	4.33	13.10	104%	29.41	Y			10/09/2019	NORTH	Dyneem	J1-M-L 3Di
3	0.10	0.64	1.20	2.20	3.23	4.30	13.10	104%	28.83	Y			10/09/2019	NORTH	Dyneem	J1- M-H 3Di
1	0.10	0.57	1.09	2.14	3.21	4.30	13.10	104%	28.25	Y			26/08/2019	NORTH	Dyneem	J3-HEAVY 3Di/2016
SYMMETRIC SPINNAKERS (1)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1	15.50	15.50	15.50	8.33	7.97	106.67		10/09/2019		Nylon	BLUE					
ASYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				