

BOAT	GPH	HULL
Name A PÍLLARA Sail Nr ESP-578	677.1	Length Overall 8.960m Maximum Beam 2.960m Displacement 3,451kg Draft 1.815m Plan Review IMS Reg. Division Cruiser/Racer Dynamic Allowance 0.223% Hull Construction Solid Carbon Rudder No Crew Arm Extension
GENERAL		IMSL 8.792m VCGD 0.366m Sink 14.66kg/mm RL 7.046m VCGM 0.227m WS 19.86m² LSM0 8.924m Displacement/Length ratio 4.8559
Class FIRST 300 SPIRIT Designer FINOT Builder BENETEAU Series 01/1995 Age 04/1996 Age Allowance 0.487% Offset File F116.OFF - 26/04/1995 07:10:42 Measurement by - 01/07/2020		



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	657.7			735.1		
Time on Time	0.9123			0.9183		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	775.6	598.8	539.0	1000.3	736.3	646.0
Time on Time	0.8703	1.1273	1.2524	0.6748	0.9167	1.0449

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1156.2	955.2	843.7	795.5	781.1	778.1	769.1
52°	753.6	637.5	573.9	550.6	543.7	541.3	536.2
60°	712.2	606.9	556.0	535.5	527.9	524.9	521.4
75°	684.4	584.7	543.1	522.4	509.0	501.8	497.8
90°	693.2	578.5	534.4	518.6	501.1	485.2	465.2
110°	680.1	565.2	522.2	497.0	478.8	466.2	446.1
120°	699.7	576.0	526.6	498.3	471.4	448.3	423.0
135°	770.6	626.9	549.4	515.8	488.7	460.3	406.6
150°	913.4	723.2	611.1	546.6	516.1	491.1	439.1
Run VMG	1054.7	835.0	704.9	619.7	561.4	526.1	477.0
Selected Courses							
Windward / Leeward	1105.4	895.1	774.3	707.6	671.2	652.1	623.1
Circular Random	931.5	752.0	656.6	602.1	569.5	548.6	521.3
Coastal / Long Distance	1100.4	840.3	698.6	620.5	580.4	549.3	497.7
Non Spinnaker	999.8	800.1	692.0	629.4	591.5	567.4	537.5

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	43.9°	41.3°	40.5°	40.1°	39.8°	39.8°	39.8°
Beat VMG	3.11	3.77	4.27	4.53	4.61	4.63	4.68
52°	4.78	5.65	6.27	6.54	6.62	6.65	6.71
60°	5.05	5.93	6.47	6.72	6.82	6.86	6.90
75°	5.26	6.16	6.63	6.89	7.07	7.17	7.23
90°	5.19	6.22	6.74	6.94	7.18	7.42	7.74
110°	5.29	6.37	6.89	7.24	7.52	7.72	8.07
120°	5.14	6.25	6.84	7.22	7.64	8.03	8.51
135°	4.67	5.74	6.55	6.98	7.37	7.82	8.85
150°	3.94	4.98	5.89	6.59	6.97	7.33	8.20
Run VMG	3.41	4.31	5.11	5.81	6.41	6.84	7.55
Gybe Angles	146.0°	150.0°	151.0°	158.0°	180.0°	180.0°	180.0°

Certificate

Number **57801**
ORC Ref **03510000MNT**
Issued On **17/07/2020**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default **585kg**
Maximum **450kg**
Minimum* **338kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

ToD ToT
Non Spin GPH **714.7 0.8395**
Non Spin OSN **692.0 0.8670**

Sails Limitations

Headsails 5	Spinnakers 4
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Class Division Length

CDL = **7.917**

Storm Sails Areas

Heavy Weather Jib **20.30**
Storm Jib (JL=7.97) **7.52**
Storm Trysail **7.61**

Owner

BOAT Name A PÍLLARA Sail Nr ESP-578 File E578 Data in meters/kilograms		INCLINING TEST AND FREEBOARDS Inclining Test Boom Inclining LCFD Flotation date 04/07/2020 SG 1.0250		 ORC Offshore Racing Congress World leader in rating technology 2020 IMS Measurement Certificate
RIG Forestay Tension Aft Spreaders 1 Inner Stay None Fitted Runners/Checkstays 0 Carbon Mast No Jib Furler Yes Fiber Rigging No Main Furler No Non-Circular Rigging No Articulated Bowsprit No		FFM 1.150 FF 1.150 SFFP 0.194 FAM 0.917 FA 0.917 SAFF 8.589 W1 55.4 PD1 250.3 WD 3.240 W2 55.4 PD2 254.2 GSA 1.0 W3 55.4 PD3 255.0 RSA 1.0 W4 55.4 PD4 245.1 PLM 9000.0		
P 11.370 E 3.820 MDT1 0.100 MW 0.160 IG 12.260 J 3.620 MDL1 0.160 GO 0.160 ISP 12.300 SFJ 0.050 MDT2 0.100 BD BAS 1.300 SPL 3.700 MDL2 0.160 MWT FSD 0.035 TPS TL MCG		LCF from stem on CL / on sheer 5.117 / 5.322 Maximum beam station from stem 6.072 RM Measured 56.3kg-m RM Default 66.5kg-m Limit of positive stability / Stab.Index 102.2° / 102.2 Freeboard at mast at 3.670 0.979		
MIZZEN RIG AND SAILS N/A		PROPELLER Installation Shaft exposed PRD 0.300 Type Folding 2 blades PBW Twin Screw No PIPA 0.0049 PSA 19.000 PHL 0.110 ST3 0.100 ESL 0.850 PSD 0.025 ST1 0.028 ST4 0.060 PHD 0.070 ST2 0.102 ST5 0.222		
COMMENTS N/A		MOVABLE BALLAST N/A		 World Leader In Rating Technology
		CENTERBOARD N/A		

SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.14	0.74	1.33	2.36	3.20	25.22	25.61	P/8 · (E + 2·MQW + 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL	68.30		SL · (SFL + 4·SHW) / 6	
	12.70	12.70	12.70	6.46	6.43				
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	Flying	Meas.Date	Material	Comment
0.08	0.60	1.15	2.08	2.99	3.89	11.99	24.45	Y	No	09/08/2019	Dyneem	

MEASUREMENT INVENTORY						MEASUREMENT INVENTORY																																
Mesurer ESP 24 Date 04/07/2020 Comment Internal Ballast total = 0.0						<table border="1"> <thead> <tr> <th>Id</th> <th>Item</th> <th>Tank Use</th> <th>Tank Type</th> <th>Capcty</th> <th>Dist.</th> <th>VCG</th> <th>Condtm</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>001</td> <td>Tank</td> <td>AGUA</td> <td>PVC</td> <td>90.0</td> <td>3.80</td> <td></td> <td></td> <td>0-0</td> </tr> <tr> <td>002</td> <td>Tank</td> <td>GASOIL</td> <td>INOX</td> <td>30.0</td> <td>6.72</td> <td></td> <td></td> <td>3-0</td> </tr> </tbody> </table>						Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condtm	Description	001	Tank	AGUA	PVC	90.0	3.80			0-0	002	Tank	GASOIL	INOX	30.0	6.72			3-0
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001	Tank	AGUA	PVC	90.0	3.80			0-0																														
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Id	Item	Weight	Distance	VCG Description																																		
Id	Item	Maker	Model																																			
001	Engine	NANI	21 HP																																			
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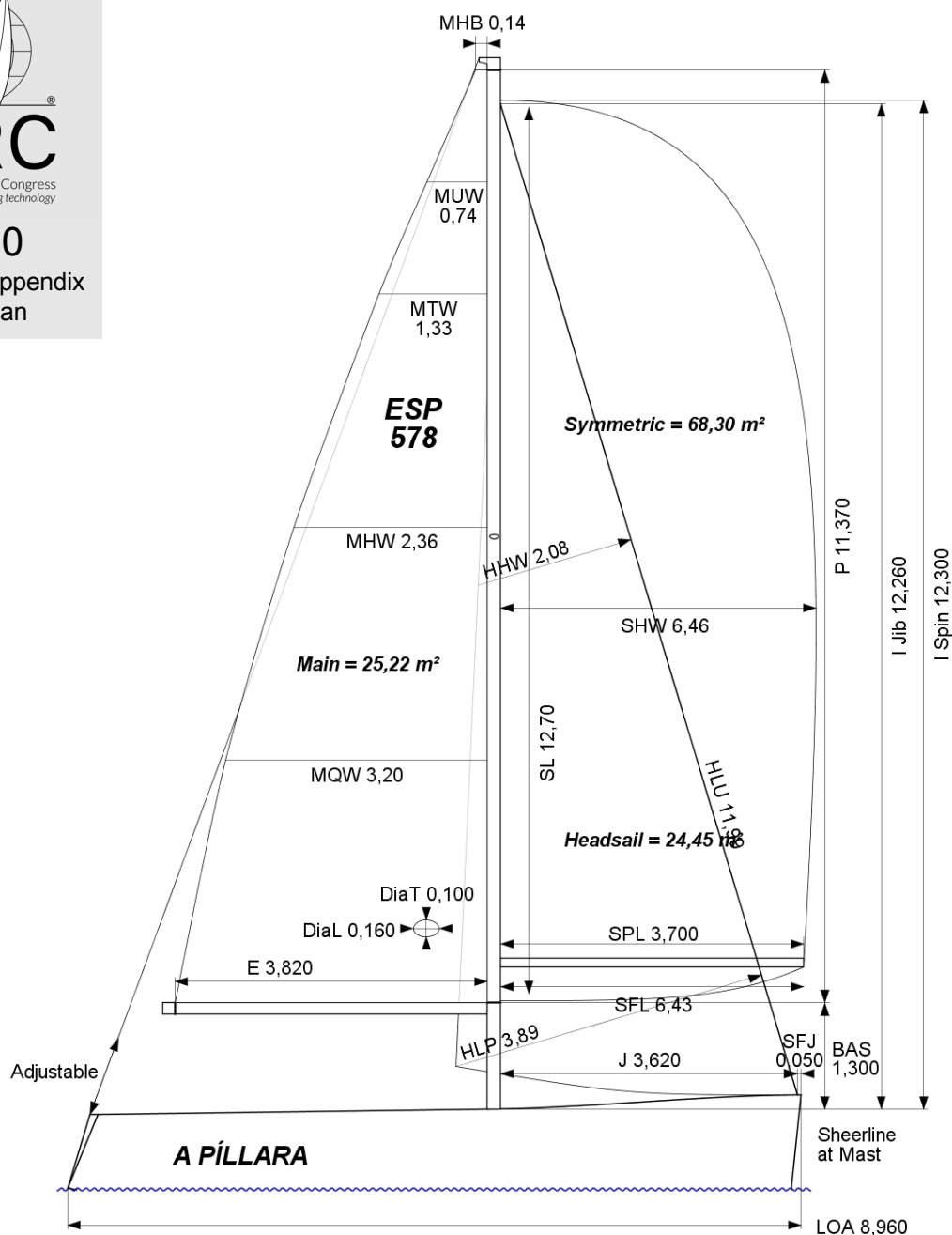


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Certificate Appendix
Sail Plan



SAILS INVENTORY

MAINSAIL (1)

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
1	0.14	0.74	1.33	2.36	3.20	25.22		09/08/2019		Dacron	

HEADSAILS (1)

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
1	0.08	0.60	1.15	2.08	2.99	3.89	11.99	107%	24.45	Y	No		09/08/2019		Dyneem	

SYMMETRIC SPINNAKERS (1)

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
1	12.70	12.70	12.70	6.46	6.43	68.31		12/08/2019		Nylon	

ASYMMETRIC SPINNAKERS (0)

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