

BOAT Name EXTE Sail Nr ITA-24017	GPH 676.9	HULL Length Overall 7.495m Maximum Beam 2.426m Displacement 1,084kg Draft 1.675m IMS Reg. Division Sportboat Dynamic Allowance 0.130% Fwd Accommodation No Hull Construction Cored Carbon Rudder No Crew Arm Extension IMSL 7.058m VCGD -0.180m Sink 8.19kg/mm RL 7.090m VCGM -0.085m WS 10.81m² LSM0 6.870m Displacement/Length ratio 3.3432
GENERAL Class ESTE 24 Designer FRERS Builder D'ESTE Series 09/1994 Age 04/1996 Age Allowance 0.487% Offset File este24.off - 02/11/2016 17:54:10 Measurement by PINDOZZI - 11/05/2018		



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	657.5			737.9		
Time on Time	0.9126			0.9147		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	768.4	602.7	532.6	986.7	737.9	654.8
Time on Time	0.8784	1.1199	1.2673	0.6841	0.9147	1.0308

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1104.4	910.1	814.7	793.0	788.6	782.6	784.4
52°	731.7	620.3	582.5	570.1	565.3	563.5	553.9
60°	694.8	602.8	568.3	550.8	543.3	539.9	525.6
75°	667.7	591.2	555.6	523.5	505.6	497.2	485.2
90°	676.5	584.3	543.0	517.2	483.8	459.8	441.9
110°	680.3	582.9	534.6	486.2	450.1	429.4	397.3
120°	704.4	593.6	546.0	497.1	449.3	408.1	363.6
135°	785.2	638.1	577.1	534.7	490.2	445.3	356.5
150°	935.8	737.5	626.2	572.7	533.0	492.4	411.8
Run VMG	1080.6	851.5	717.0	635.3	581.1	543.6	468.8

Certificate

Number **ESTE24**
ORC Ref **ITA00027420**
Issued On **17/05/2018**
VPP Ver. **2018 1.00**
Valid until **31/12/2018**

Crew Weight

Default 403kg
Maximum **400kg**
Minimum* **300kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Double H.GPH	692.7	0.8662
Double H.OSN	677.4	0.8857
Non Spin GPH	708.2	0.8472
Non Spin OSN	686.2	0.8743

Selected Courses							
Windward / Leeward	1092.5	880.8	765.9	714.1	684.9	663.1	626.6
Circular Random	926.3	750.8	657.4	602.9	568.0	543.3	507.2
Coastal / Long Distance	1091.3	830.6	697.1	628.0	583.9	543.3	477.2
Non Spinnaker	980.3	789.2	686.8	627.1	589.4	563.0	524.4

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	41.9°	41.0°	38.0°	37.4°	37.5°	37.6°	38.4°
Beat VMG	3.26	3.96	4.42	4.54	4.56	4.60	4.59
52°	4.92	5.80	6.18	6.32	6.37	6.39	6.50
60°	5.18	5.97	6.34	6.54	6.63	6.67	6.85
75°	5.39	6.09	6.48	6.88	7.12	7.24	7.42
90°	5.32	6.16	6.63	6.96	7.44	7.83	8.15
110°	5.29	6.18	6.73	7.40	8.00	8.38	9.06
120°	5.11	6.06	6.59	7.24	8.01	8.82	9.90
135°	4.58	5.64	6.24	6.73	7.34	8.08	10.10
150°	3.85	4.88	5.75	6.29	6.75	7.31	8.74
Run VMG	3.33	4.23	5.02	5.67	6.20	6.62	7.68
Gybe Angles	145.7°	149.7°	154.0°	170.2°	180.0°	180.0°	180.0°

Class Division Length

CDL = **7.075**

Storm Sails Areas

Heavy Weather Jib **11.44**
Storm Jib (JL=5.98) **4.24**
Storm Trysail **5.60**

Owner

BOAT	
Name EXTE	Sail Nr ITA-24017
File I24017	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining		Flotation date 13/10/2017 SG 1.0260	
FFM 0.931	FF 0.931	SFFP 0.212	
FAM 0.686	FA 0.686	SAFP 7.063	
W1 19.9	PD1 591.4	WD 8.380	
W2 19.9	PD2 595.9	GSA 1.0	
W3 19.9	PD3 596.0	RSA 1.0	
W4 19.9	PD4 589.8	PLM 9000.0	
LCF from stem on CL / on sheer		4.211 / 4.360	
Maximum beam station from stem		5.137	
RM Measured		22.1kg·m	
RM Default		25.4kg·m	
Limit of positive stability / Stab.Index		114.7° / 106.6	
Freeboard at mast at 3.110		0.793	

RIG			
Forestay Tension Fixed	Spreaders 1		
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 Yes		
Articulated Bowsprit No			
P 9.420	E 3.400	MDT1 0.073	MW 0.107
IG 9.145	J 2.780	MDL1 0.108	GO 0.125
ISP 9.265	SFJ 0.330	MDT2 0.063	BD 0.114
BAS 1.235	SPL 2.945	MDL2 0.084	MWT 35.95
FSP 0.000	TPS	TL 1.300	MCG 3.907



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2018
IMS Measurement
Certificate

Certificate	
Number ESTE24	
ORC Ref ITA00027420	
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VPP Ver. 2018 1.00	
Valid until 31/12/2018	

MIZZEN RIG AND SAILS	
N/A	

PROPELLER	
Type No Propeller	

COMMENTS	

MOVABLE BALLAST	
N/A	

CENTERBOARD	
N/A	



SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.135	0.69	1.27	2.17	2.88	19.03	19.43	P/8 · (E + 2·MQW + 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL	33.10		SL · (SFL + 4·SHW) / 6	
	9.11	9.11	9.11	4.37	4.32				
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
0.11	0.58	1.11	1.74	2.25	2.65	8.90	14.13	Y	N	11/05/2018	Unknow	

MEASUREMENT INVENTORY				
Measurer PINDOZZI FIV 174				
Date 13/10/2017				
Comment SISTIANA				
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>
<i>Id</i>	<i>Item</i>	<i>Maker</i>	<i>Model</i>	
A	Engine	MERCURY	3.5 CV	
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Description</i>	

MEASUREMENT INVENTORY				
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>
A	Ballast	56.3	4.06	0.00 4 LEAD PIGS
A	Misc	20.4	3.22	0.00 OUTBOARD ENGINE

