

BOAT Name CHARDONNAY Sail Nr ITA-3381	GPH 615.7	HULL Length Overall 8.336m Maximum Beam 2.684m Displacement 1,038kg Draft 1.918m IMS Reg. Division Sportboat Dynamic Allowance 0.000% Fwd Accommodation No Hull Construction Cored Carbon Rudder Yes Crew Arm Extension
GENERAL Class DELTA 84 Designer PERACCA Builder BRAZZONI Series 05/1997 Age 05/1997 Age Allowance 0.487% Offset File DELTA84.off - 27/04/2018 22:18:02 Measurement by BERTONE - 17/05/2018		IMSL 7.629m VCGD 0.050m Sink 9.51kg/mm RL 7.966m VCGM -0.028m WS 11.68m² LSM0 6.983m Displacement/Length ratio 3.0484



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	600.2			682.8		
Time on Time	0.9997			0.9886		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	693.4	551.1	482.3	891.7	687.4	603.0
Time on Time	0.9735	1.2248	1.3995	0.7570	0.9819	1.1194

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	977.9	805.5	758.0	748.2	743.4	733.8	741.6
52°	644.0	560.9	539.6	531.5	527.7	516.2	512.8
60°	612.4	546.5	518.6	507.0	501.2	490.6	482.1
75°	592.7	535.5	491.7	470.3	459.5	453.3	431.9
90°	597.9	533.7	489.8	446.9	422.7	410.1	397.0
110°	615.2	532.4	473.8	433.8	406.8	386.2	340.3
120°	637.7	544.2	487.4	429.9	388.0	363.1	320.3
135°	719.1	581.3	525.9	474.7	420.8	372.5	284.7
150°	862.7	681.6	578.4	525.5	479.0	431.5	335.1
Run VMG	996.2	787.0	664.8	592.8	540.7	497.7	386.9

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Number **33811**
ORC Ref **ITA00027658**
Issued On **28/05/2018**
VPP Ver. **2018 1.00**
Valid until **31/12/2018**

Crew Weight

Default 412kg
Maximum **390kg**
Minimum* **293kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Double H.GPH	634.3	0.9459
Double H.OSN	625.6	0.9591
Non Spin GPH	646.3	0.9284
Non Spin OSN	629.2	0.9535

Selected Courses							
Windward / Leeward	987.1	796.3	711.4	670.5	642.0	615.7	564.2
Circular Random	837.9	681.8	598.7	549.5	516.9	492.3	453.9
Coastal / Long Distance	988.0	752.3	643.3	577.4	533.7	493.5	426.4
Non Spinnaker	891.5	719.8	627.5	572.9	537.2	511.4	473.8

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	42.5°	39.9°	37.9°	37.7°	37.8°	37.5°	38.8°
Beat VMG	3.68	4.47	4.75	4.81	4.84	4.91	4.85
52°	5.59	6.42	6.67	6.77	6.82	6.97	7.02
60°	5.88	6.59	6.94	7.10	7.18	7.34	7.47
75°	6.07	6.72	7.32	7.66	7.84	7.94	8.33
90°	6.02	6.75	7.35	8.05	8.52	8.78	9.07
110°	5.85	6.76	7.60	8.30	8.85	9.32	10.58
120°	5.65	6.62	7.39	8.37	9.28	9.91	11.24
135°	5.01	6.19	6.84	7.58	8.56	9.66	12.65
150°	4.17	5.28	6.22	6.85	7.52	8.34	10.74
Run VMG	3.61	4.57	5.42	6.07	6.66	7.23	9.30
Gybe Angles	140.4°	145.9°	153.2°	163.8°	180.0°	180.0°	137.9°

Class Division Length

CDL = **7.798**

Storm Sails Areas


Heavy Weather Jib **13.44**
Storm Jib (JL=6.49) **4.98**
Storm Trysail **7.32**

Owner

BOAT		
Name	CHARDONNAY	Sail Nr
File	I3381	Data in
		IT A-3381
		meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test		Current Inclining	
Flotation date	26/08/2005	SG	1.0240
FFM	0.934	FF	0.936
FAM	0.633	FA	0.636
SFFP	0.142	SAFP	8.032
W1	20.0	PD1	539.3
W2	20.0	PD2	537.9
W3	20.0	PD3	538.9
W4	20.0	PD4	537.9
WD	10.225	GSA	1.0
RSA	1.0	PLM	9000.0
LCF from stem on CL / on sheer	4.638 / 4.818		
Maximum beam station from stem	5.252		
RM Measured	29.9kg·m		
RM Default	33.3kg·m		
Limit of positive stability / Stab.Index	106.3° / 98.2		
Freeboard at mast at 2.900	0.794		

RIG				
Forestay Tension	Aft	Spreaders	2	
Inner Stay	None Fitted	Runners	0	
Carbon Mast	No	Jumper Struts	Yes	
Taper Hollows	No	Jib Furler	No	
Fiber Rigging	No	Main Furler	No	
Lenticular Rigging	No	Without Backstay	No	
Articulated Bowsprit	No			
P	10.720	E	3.900	MDT1
IG	9.920	J	2.900	MDL1
ISP	9.970	SFJ		MDT2
BAS	1.230	SPL	2.980	MDL2
FSP	0.052	TPS		TL
MW	0.124	GO	0.141	BD
GO	0.141	BD	0.135	MWT
BD	0.135	MWT	49.00	MCG
MWT	49.00	MCG	4.150	
MCG	4.150			




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IMS Measurement Certificate

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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	
	0.150	0.80	1.48	2.51	3.28	24.89	25.43	P/8 · (E + 2·MQW + 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL	44.42		SL · (SFL + 4·SHW) / 6	
	9.81	9.81	9.81	5.46	5.33				
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
0.08	0.50	0.93	1.64	2.33	3.00	9.99	15.97	Y	N	17/05/2018	Carbon	
0.08	0.49	0.89	1.61	2.30	2.97	9.94	15.63	Y	N	12/05/2016	Carbon	

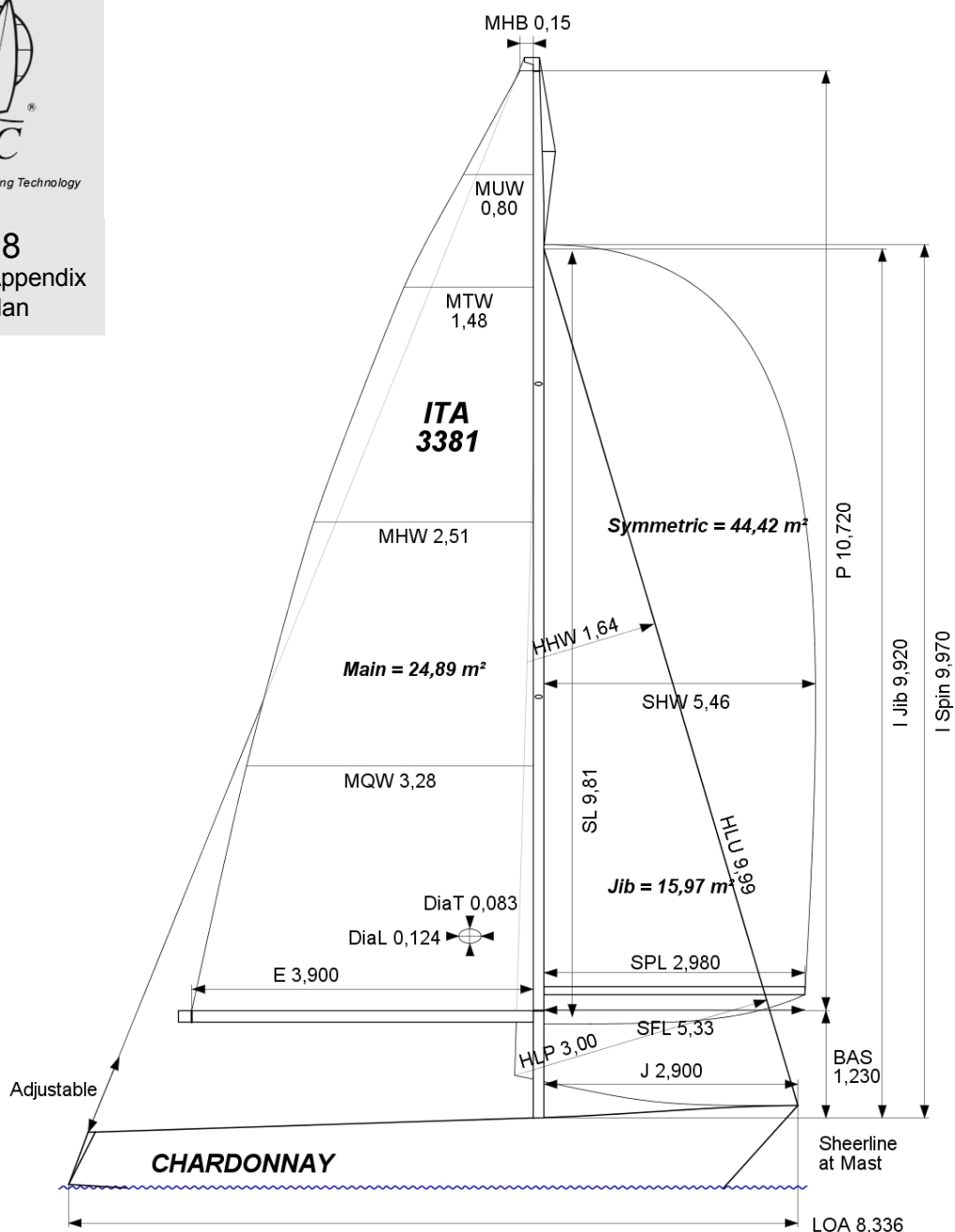
MEASUREMENT INVENTORY				
Measurer BERTONE 132				
Date 26/08/2005				
Comment				
Id	Item	Weight	Distance	VCG Description
A	Anchor	10.0	6.25	0.00 RAMPINO
A	Tools	2.0	5.25	0.00
Id	Item	Maker	Model	
A	Engine	EVINRUDE	9,9 HP	
Id	Item	Weight	Description	
A	Deck-Gear	10.0		

MEASUREMENT INVENTORY				
Id	Item	Weight	Distance	VCG Description
A	Battery	5.0	5.25	0.00 BATTERIA DA MOTO
A	Misc	0.0	0.00	0.00 RAZZI-ESTINTORE-PAGAIA-ANULARE



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Sail Plan



SAILS INVENTORY

MAINSAIL (1)

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
B	0.150	0.80	1.48	2.51	3.28	24.89	BERTONE	17/05/2018	OLIMPIC	Carbon	

HEADSAILS (2)

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
B	0.08	0.50	0.93	1.64	2.33	3.00	9.99	103%	15.97	Y	N	BERTONE	17/05/2018	OLIMPIC	Carbon	
A	0.08	0.49	0.89	1.61	2.30	2.97	9.94	102%	15.63	Y	N	BERTONE	12/05/2016	OLIMPIC	Carbon	

SYMMETRIC SPINNAKERS (2)

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
B	9.81	9.81	9.81	5.46	5.33	44.42	BERTONE	17/05/2018	OLIMPIC	Nylon	
A	9.80	9.80	9.80	5.43	5.34	44.20	BERTONE	12/05/2016	OLIMPIC	Nylon	

ASYMMETRIC SPINNAKERS (0)

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