

BOAT
Name AUDI SPORT
Sail Nr EST 550

GPH
573,2

HULL
Length Overall 12,450 m
Maximum Beam 3,215 m
Displacement 6 468 kg
Draft 2,555 m
IMS Reg. Division Cruiser/Racer
Dynamic Allowance 0,146%
Fwd Accommodation Yes
Hull Construction Cored
Carbon Rudder Yes
Trim Tab No
IMS L 11,193 VCGD 0,072 VCGM 0,035
Sink 23,20 kg/mm Wetted Area 29,93 m²



2009
ORC International
Certificate

GENERAL
Class GRAND SOLEIL 42 R
Designer BOTIN-CARKEEK
Builder DEL PARDO
Series 04.2003
Age 06.2003
Age Allowance 0,390%
Offset File gs42r.off - 14.04.2008 18:52:22
Measurement by CONTI-VALVERDE - 26.07.2004

SCORING OPTIONS		
	OFFSHORE	INSHORE
	COASTAL / LONG DISTANCE	WINDWARD / LEEWARD
Time On Distance	573,2	641,9
Time On Time	1,0467	1,0516
Performance Line	PLT 0,896 PLD 89,6	PLT 1,097 PLD 299,9
Triple Number	Low 1,0187 Medium 1,3328 High 1,5111	Low 0,7732 Medium 1,0564 High 1,2341

Rating Office
Estonian Yachting Union
Veiko Rosme
Regati 1, 11911, Tallinn
Estonia

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	971,2	788,2	704,2	667,5	646,1	633,9	628,5
52°	633,1	521,6	476,1	459,0	449,4	444,0	441,5
60°	593,5	498,0	454,6	440,6	432,3	427,3	424,6
75°	561,4	482,9	439,6	417,8	408,5	402,2	396,9
90°	544,6	460,2	425,8	413,4	394,3	382,6	373,4
110°	557,6	476,8	434,3	400,6	381,5	371,3	353,2
120°	597,0	500,5	451,3	419,4	388,3	360,6	336,7
135°	695,6	560,1	489,8	448,6	421,0	395,5	341,6
150°	836,7	663,9	556,8	493,9	453,6	426,6	381,5
Run VMG	966,1	766,6	642,9	564,5	508,5	468,1	416,8

Certificate
Number EST550
ORC Ref EST00000201
Issued On 21.05.2009
VPP Ver. 1.11
Valid until 31.12.2009

Crew Weight
Declared 780 kg
Default* 825 kg

Special Scoring
ToD ToT
Double 577,6 1,0387
Non Spinnaker 613,1 0,9786

Selected Courses							
Windward / Leeward	986,6	790,2	684,5	623,5	584,1	557,3	528,1
Circular Random	795,1	639,6	555,8	506,8	476,3	456,1	430,8
Ocean for PCS	849,9	669,0	567,9	505,7	464,4	434,7	392,6
Non Spinnaker	867,0	690,3	593,5	535,9	499,5	475,5	445,9

Sails Limitations
Genoa 0 Jibs 5 Spinnakers 4
Spinnaker configuration Symmetric

Storm Sails Areas
Heavy Weather Jib 32,85
Storm Jib (JL=10,14) 12,17
Storm Trysail 17,40

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	43,1°	43,2°	40,1°	38,6°	38,1°	37,8°	37,7°
Beat VMG	3,71	4,57	5,11	5,39	5,57	5,68	5,73
52°	5,69	6,90	7,56	7,84	8,01	8,11	8,15
60°	6,07	7,23	7,92	8,17	8,33	8,43	8,48
75°	6,41	7,46	8,19	8,62	8,81	8,95	9,07
90°	6,61	7,82	8,46	8,71	9,13	9,41	9,64
110°	6,46	7,55	8,29	8,99	9,44	9,69	10,19
120°	6,03	7,19	7,98	8,58	9,27	9,98	10,69
135°	5,18	6,43	7,35	8,03	8,55	9,10	10,54
150°	4,30	5,42	6,47	7,29	7,94	8,44	9,44
Run VMG	3,73	4,70	5,60	6,38	7,08	7,69	8,64
Gybe Angles	141,6°	146,3°	150,0°	159,9°	164,8°	170,7°	173,1°

Owner
PUHAS TUUL OÜ
Korge 14, 11623
Tallinn, Estonia
Yachtclub: DAGO
I certify that I understand my responsibilities under ORC Rules and Regulations
Signature

BOAT		
Name	AUDI SPORT	Sail Nr EST 550
File	Est0550.dxt	Data in meters/kilograms

RIG			
Forestay Tension	Aft	Spreaders	2
Inner Forestay	None Fitted	Runners	0
Carbon Mast	Yes	Jumpers	None
Taper Hollows	No	w/o Backstay	No
P	16,460	E	6,040
IG	15,543	J	4,520
ISP	15,630	SFJ	0,108
SPS	3,130	SPL	4,520
BAS	1,690	TPS	0,074
BAL	0,152	FSP	0,074
MDT1	0,122	TL	2,620
MDL1	0,245	MWT	212,40
MDT2	0,080	MCG	5,184
MDL2	0,177	CPW	2,730
MW	0,240	BD	0,296
GO	0,256	BWT	

HEAVY ITEMS			
Bow Thruster	No	Generator	No
Windlass	No	Jib Furler	No
Heavy Deck	No	Main Furler	No
Headliners	No	Water Heater	No
Anchor Weight		Heavy Items Adjustment	0,0000
Anchor LCG		Total Gyradius Adjustment	0,0254

MIZZEN RIG AND SAILS	
N/A	

COMMENTS	
Ex. SWE 22241	

INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining			
Flotation date	26.07.2004	SG 1,0270	
FFM	1,384	FF	1,384
FAM	1,078	FA	1,078
SFFP	0,100	SAFP	11,988
W1	102,6	PD1	534,3
W2	102,6	PD2	538,9
W3	102,6	PD3	531,9
W4	102,6	PD4	531,3
WD	12,030	GSA	1,0
		RSA	1,0
		PLM	9000,
Maximum beam station from stem			7,864
RM Measured / Default			182,0 / 190,3
Limit of positive stability			117,8°
Stability Index			124,6
Freeboard at mast at 4,628			1,220

PROPELLER			
Installation	Strut Drive	PRD	0,430
Type	Folding	PBW	
Twin Screw	No	PIPA	0,0038
ST1	0,060	ST3	0,275
ST2	0,150	ST4	0,150
		EDL	2,750

WATER BALLAST	
N/A	

CENTERBOARD	
N/A	



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2009
IMS Measurement
Certificate

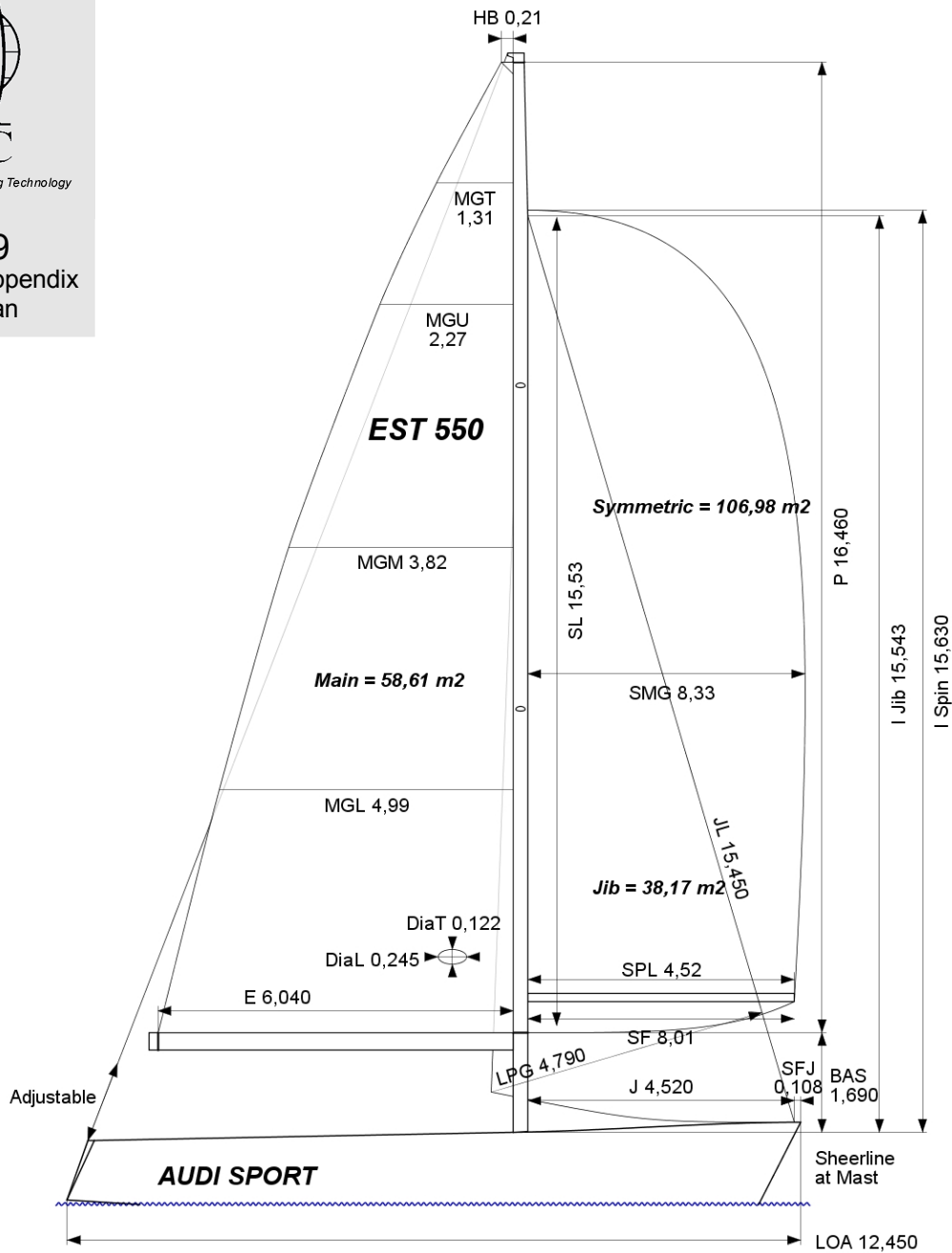
Certificate	
Number	EST550
ORC Ref	EST00000201
Issued On	21.05.2009
VPP Ver.	1.11
Valid until	31.12.2009

SAILS (Maximum Areas)									
Mainsail	HB	MGT	MGU	MGM	MGL	MSW	Area	Area (r)	Formula
	0,207	1,31	2,27	3,82	4,99	24,00	58,59	58,61	$P/8 \cdot (E + 2 \cdot MGL + 2 \cdot MGM + 1.5 \cdot MGU + MGT + 0.5 \cdot HB)$
Jib/Genoa	JH	JGT	JGU	JGM	JGL	JL	LPG		
	0,11	0,70	1,31	2,50	3,66	15,45	4,79	38,17	$0.1125 \cdot JL \cdot (1.445 \cdot LPG + 2 \cdot JGL + 2 \cdot JGM + 1.5 \cdot JGU + JGT + 0.5 \cdot JH)$
Symmetric	SL	SMG	SF						
	15,53	8,33	8,01					106,98	$SL \cdot (SF + 4 \cdot SMG) / 6$



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2009
Certificate Appendix
Sail Plan



SAILS INVENTORY												
MAINSAIL												
Id	HB	MGT	MGU	MGM	MGL	MSW	Area	Meas.	Meas.	Material	Comment	
1	0,207	1,31	2,27	3,82	4,99	24,00	58,59			Unknown		
JIBS / GENOAS												
Id	JH	JGT	JGU	JGM	JGL	LPG	JL	Ovrlp	Area	Meas.	Material	Comment
J2C	0,08	0,66	1,28	2,45	3,60	4,75	15,35	105%	37,26	VR	20.05.2009	North Unknown
J3	0,08	0,66	1,28	2,45	3,59	4,75	15,40	105%	37,36	VR	20.05.2009	North Unknown
J4B	0,11	0,62	1,19	2,39	3,59	4,80	15,45	106%	37,12	VR	20.05.2009	North Unknown
J5A	0,10	0,55	1,04	2,09	3,24	4,49	14,15	99%	30,73	VR	20.05.2009	North Unknown
JT	0,11	0,70	1,31	2,50	3,66	4,79	15,45	106%	38,17	VR	20.05.2009	North Unknown
SYMMETRIC SPINNAKERS												
Id	SL	SMG	SF	Area	Meas.	Meas.	Material	Comment				
S1C	15,40	7,60	8,07	98,74	VR	20.05.2009	Unknown					
S5	15,36	7,20	8,06	94,36	VR	20.05.2009	Unknown					
S2	15,53	8,33	8,01	106,98	VR	20.05.2009	Unknown					
S3	15,36	7,53	8,01	97,61	VR	20.05.2009	Unknown					
ASYMMETRIC SPINNAKERS												
Id	SLU	SLE	ASL	AMG	ASF	Area	Kind	Measurer	Meas.	Material	Comment	