

BOAT
Name Scorpio Sail Nr SLO 424

GPH
572,4

HULL
Length Overall 12,450 m
Maximum Beam 3,215 m
Displacement 6.204 kg
Draft 2,543 m
IMS Reg. Division Cruiser/Racer
Dynamic Allowance 0,110%
Fwd Accommodation Yes
Hull Construction Cored
Carbon Rudder Yes
Trim Tab No
IMS L 11,155 VCGD 0,039 VCGM 0,014
Sink 22,83 kg/mm Wetted Area 29,46 m²



2009
ORC International
Certificate

GENERAL
Class GRAND SOLEIL 42 R
Designer BOTIN-CARKEEK
Builder DEL PARDO
Series 04.2003
Age 04.2003
Age Allowance 0,390%
Offset File GS42R.OFF - 28.2.2008 17:15:06
Measurement by LOR-PFER-DELU-SIRO - 23.07.2004

SCORING OPTIONS	OFFSHORE			INSHORE		
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time On Distance	572,4			641,2		
Time On Time	1,0483			1,0527		
Performance Line	PLT	PLD		PLT	PLD	
	0,893	86,8		1,097	299,6	
Triple Number	Low	Medium	High	Low	Medium	High
	1,0196	1,3346	1,5155	0,7742	1,0560	1,2344

Rating Office
Jadralska zveza Slovenije
Kopališko nabrežje 5
SI-6000 Koper
Slovenija

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TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	967,9	787,7	704,1	667,9	646,7	634,6	629,9
52°	632,0	521,4	475,0	457,8	448,3	443,0	440,7
60°	593,0	497,5	453,2	439,3	431,0	426,1	423,7
75°	561,4	482,1	438,1	416,1	406,5	400,1	394,9
90°	544,8	459,2	424,3	411,6	391,4	380,0	370,7
110°	558,1	476,3	433,3	398,4	378,9	368,5	349,8
120°	597,4	500,6	450,4	418,2	386,1	357,5	333,1
135°	695,3	560,9	489,6	447,5	419,7	393,7	338,5
150°	835,7	664,2	557,4	493,8	452,7	425,4	379,3
Run VMG	965,0	766,9	643,6	564,8	508,1	467,1	415,1

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VPP Ver. 1.11
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Selected Courses							
Windward / Leeward	984,6	789,9	684,7	623,8	584,2	557,2	528,0
Circular Random	794,1	638,8	555,1	505,9	475,2	454,9	429,4
Ocean for PCS	848,6	668,1	567,0	504,7	463,0	433,1	390,4
Non Spinnaker	865,0	689,0	592,4	534,9	498,5	474,4	444,6

Crew Weight
Declared 821 kg
Default* 821 kg

Special Scoring	
ToD	ToT
Double Handed 577,5	1,0390
Non Spinnaker 611,9	0,9805

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°	43,1°	40,1°	38,8°	38,4°	38,1°	38,0°
Beat VMG	3,72	4,57	5,11	5,39	5,57	5,67	5,72
52°	5,70	6,90	7,58	7,86	8,03	8,13	8,17
60°	6,07	7,24	7,94	8,19	8,35	8,45	8,50
75°	6,41	7,47	8,22	8,65	8,86	9,00	9,12
90°	6,61	7,84	8,48	8,75	9,20	9,47	9,71
110°	6,45	7,56	8,31	9,04	9,50	9,77	10,29
120°	6,03	7,19	7,99	8,61	9,32	10,07	10,81
135°	5,18	6,42	7,35	8,04	8,58	9,14	10,63
150°	4,31	5,42	6,46	7,29	7,95	8,46	9,49
Run VMG	3,73	4,69	5,59	6,37	7,09	7,71	8,67
Gybe Angles	141,7°	146,6°	150,1°	159,8°	164,5°	170,7°	173,0°

Sails Limitations		
Genoa 0	Jibs 5	Spinnakers 4
Spinnaker configuration Symmetric		

Storm Sails Areas
Heavy Weather Jib 32,95
Storm Jib (JL=10,16) 12,20
Storm Trysail 17,19

Owner

BOAT	
Name Scorpio	Sail Nr SLO 424
File SLO424.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 16,450	E 5,970	MDT1 0,120	TL 2,300
IG 15,520	J 4,520	MDL1 0,242	MWT 211,00
ISP 15,650	SFJ	MDT2 0,080	MCG 5,490
SPS 3,040	SPL 4,520	MDL2 0,180	CPW
BAS 1,690	TPS	MW 0,242	BD 0,250
BAL	FSP 0,068	GO 0,272	BWT

HEAVY ITEMS			
Bow Thruster No	Generator No	Air Condition No	
Windlass No	Jib Furler No	Desalinator No	
Heavy Deck No	Main Furler No		
Headliners No	Water Heater No		
Anchor Weight	Heavy Items Adjustment	0,0000	
Anchor LCG	Total Gyradius Adjustment	0,0282	

MIZZEN RIG AND SAILS	
N/A	

COMMENTS	
60 Kg LEAD REMOVED FROM BILGE 7/03 100 Kg LEAD ADDED INTO KEEL 7/03 ownerchange 2005	


INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining			
Flotation date 23.07.2004		SG 1,0260	
FFM 1,377	FF 1,377	SFFP 0,100	
FAM 1,104	FA 1,104	SAFP 11,988	
W1 102,50	PD1 548,8	WD 12,260	
W2 102,50	PD2 550,0	GSA 1,0	
W3 102,50	PD3 550,9	RSA 1,0	
W4 102,50	PD4 550,9	PLM 9000,0	
Maximum beam station from stem			7,864
RM Measured / Default			179,9 / 186,1
Limit of positive stability			119,6°
Stability Index			125,8
Freeboard at mast at 4,520			1,230

PROPELLER			
Installation Strut Drive	PRD 0,430		
Type Folding	PBW 0,105		
Twin Screw No	PIPA 0,0036		
ST1 0,042	ST3 0,180	ST5 0,292	
ST2 0,180	ST4 0,112	EDL 0,930	

WATER BALLAST	
N/A	

CENTERBOARD	
N/A	

SAILS (Maximum Areas)										
Mainsail	HB	MGT	MGU	MGM	MGL	MSW	Area	Formula		
	0,240	1,31	2,27	3,86	5,02	24,00	58,74	$P/8 \cdot (E + 2 \cdot MGL + 2 \cdot MGM + 1.5 \cdot MGU + MGT + 0.5 \cdot HB)$		
Jib/Genoa	JH	JGT	JGU	JGM	JGL	JL	LPG			
	0,10	0,67	1,30	2,49	3,59	15,40	4,79	37,68	$0.1125 \cdot JL \cdot (1.445 \cdot LPG + 2 \cdot JGL + 2 \cdot JGM + 1.5 \cdot JGU + JGT + 0.5 \cdot JH)$	
Symmetric	SL	SMG	SF							
	15,53	8,23	7,74				105,24		$SL \cdot (SF + 4 \cdot SMG) / 6$	




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IMS Measurement Certificate

Certificate

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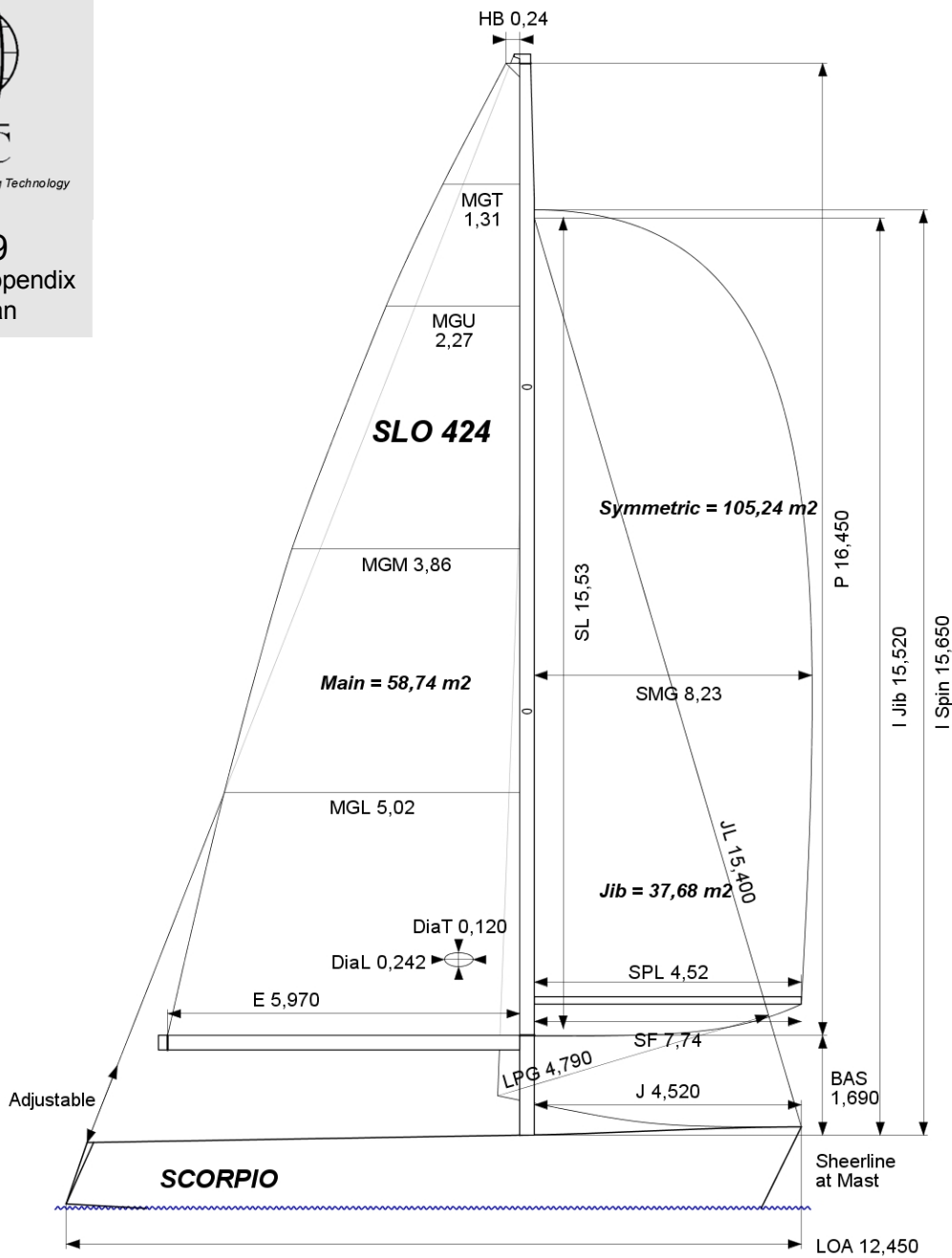


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Sail Plan



SAILS INVENTORY

MAINSAIL

Id	HB	MGT	MGU	MGM	MGL	MSW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
2	0,240	1,31	2,27	3,86	5,02	30,50	58,74			Quantum	Unknown	
1	0,150	1,28	2,22	3,82	4,97	24,00	58,06		16.06.2007	CBS	Unknown	

JIBS / GENOAS

Id	JH	JGT	JGU	JGM	JGL	LPG	JL	Ovrlp	Area	Measurer	Meas.Date	Manufacture	Material	Comment
4N	0,08	0,65	1,24	2,44	3,63	4,77	14,06	106%	34,14	Gale	04.04.2008	Supreme	Kev lar	No.4
1N	0,10	0,67	1,30	2,49	3,59	4,79	15,40	106%	37,68	Gelmini	16.06.2007	CBS	Carbon	Lighth
3N	0,09	0,63	1,22	2,40	3,54	4,77	15,50	106%	37,10	Gelmini	16.06.2007	CBS	Carbon	Heavy
3S	0,07	0,62	1,17	2,39	3,52	4,74	15,52	105%	36,80	Gale	14.04.2008	Quantum	Carbon	Heavy Old
2N	0,10	0,67	1,30	2,49	3,61	4,75	15,41	105%	37,68	Gelmini	16.06.2007	CBS	Kev lar	Medium

SYMMETRIC SPINNAKERS

Id	SL	SMG	SF	Area	Measurer	Meas.Date	Manufacture	Material	Comment
1	15,53	7,90	7,74	101,83	Gelmini	16.06.2007	CBS	Nylon	VMG
2	15,60	8,08	7,78	104,26	Gelmini	16.06.2007	CBS	Nylon	Runner
LR	15,53	8,23	7,74	105,24		19.04.2004	Quantum	Nylon	Light Runner
HR	15,33	7,76	7,64	98,83	Dekleva	18.02.2007	Supreme	Nylon	Heavy Runner

ASYMMETRIC SPINNAKERS

Id	SLU	SLE	ASL	AMG	ASF	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
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