

BOAT	GPH	HULL
Name EVELYN III Sail Nr EST 477	653,6	Length Overall 9,980m Maximum Beam 3,372m Displacement 4 839kg Draft 2,013m IMS Reg. Division Cruiser/Racer Dynamic Allowance 0,236% Fwd Accommodation No Hull Construction Cored Carbon Rudder No Crew Arm Extension
GENERAL		IMSL 9,176m VCGD -0,036m Sink 16,76kg/mm
Class First 34.7 Designer Farr Builder Beneteau Series 10.2005 Age 05.2007 Age Allowance 0,357% Offset File F235.OFF - 27.07.2006 16:07:34 Measurement by A.Tetsmann/V.rosme - 02.06.2016		RL 7,801m VCGM -0,035m WS 22,57m²
		LSM0 9,036m Displacement/Length ratio 6,5588



2016
ORC International
Certificate

SCORING OPTIONS						
	OFFSHORE COASTAL / LONG DISTANCE			INSHORE WINDWARD / LEEWARD		
Time On Distance	634,1			707,0		
Time On Time	0,9463			0,9548		
Performance Line	PLT		PLD	PLT		PLD
	0,631		30,7	0,763		172,2
Triple Number	Low	Medium	High	Low	Medium	High
	0,8905	1,1701	1,3280	0,6860	0,9458	1,1111

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TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1137,3	940,6	829,5	756,0	725,5	711,4	699,0
52°	737,7	617,7	550,9	520,1	506,9	501,6	498,0
60°	692,4	582,1	530,0	506,0	492,8	486,4	481,8
75°	655,2	555,6	515,3	494,6	478,1	464,6	452,0
90°	658,7	554,5	508,0	488,7	477,9	461,5	432,3
110°	665,5	549,9	505,5	480,1	455,5	439,2	419,8
120°	686,8	564,4	512,2	486,0	461,9	437,2	402,2
135°	759,5	617,9	537,7	503,1	479,8	456,3	410,9
150°	897,9	710,9	601,3	534,3	503,0	481,1	437,6
Run VMG	1036,8	821,0	693,3	607,4	548,4	511,9	468,5
Selected Courses							
Windward / Leeward	1087,0	880,8	761,4	681,7	637,0	611,7	583,7
Circular Random	907,8	730,1	633,8	577,2	542,0	519,0	490,0
Ocean for PCS	1113,5	857,3	711,9	622,7	564,7	524,3	468,5
Non Spinnaker	964,6	770,3	663,8	600,5	561,1	535,4	504,3

Certificate
Number **EST477**
ORC Ref **EST00001105**
Issued On **8.06.2016**
VPP Ver. **2016 1.01**
Valid until **31.12.2016**

Crew Weight
Declared **630kg**
Default* **596kg**
Non Manual Pwr **No**

Special Scoring
ToD ToT
Double H.GPH **656,7 0,9137**
Double H.OSN **638,9 0,9392**
Non Spin GPH **685,4 0,8754**
Non Spin OSN **662,9 0,9052**
N/S Perf. Line **8,2 0,570**

Sails Limitations
Headsails **6** Spinnakers **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	43,7°	42,2°	42,3°	40,9°	39,9°	39,3°	38,9°
Beat VMG	3,17	3,83	4,34	4,76	4,96	5,06	5,15
52°	4,88	5,83	6,53	6,92	7,10	7,18	7,23
60°	5,20	6,18	6,79	7,11	7,31	7,40	7,47
75°	5,49	6,48	6,99	7,28	7,53	7,75	7,97
90°	5,47	6,49	7,09	7,37	7,53	7,80	8,33
110°	5,41	6,55	7,12	7,50	7,90	8,20	8,57
120°	5,24	6,38	7,03	7,41	7,79	8,23	8,95
135°	4,74	5,83	6,70	7,16	7,50	7,89	8,76
150°	4,01	5,06	5,99	6,74	7,16	7,48	8,23
Run VMG	3,47	4,38	5,19	5,93	6,56	7,03	7,68
Gybe Angles	145,9°	150,5°	151,6°	157,9°	180,0°	180,0°	180,0°

Class Division Length
CDL = **8,489**

Storm Sails Areas
Heavy Weather Jib **23,27**
Storm Jib (JL=8,53) **8,62**
Storm Try sail **9,81**

Name	EVELYN III	Sail Nr	EST 477
File	Est0477.dxt	Data in	meters/kilograms

RIG							
Forestay Tension	Aft			Spreaders	2		
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	No		
Articulated Bowsprit	No						
P	12,650	E	4,430	MDT1	0,115	MW	0,170
IG	13,050	J	3,640	MDL1	0,170	GO	0,192
ISP	13,080	SFJ	0,000	MDT2	0,115	BD	0,130
BAS	1,569	SPL	3,705	MDL2	0,143	MWT	128,00
FSP	0,066	TPS		TL	0,550	MCG	4,650

MIZZEN RIG AND SAILS	
	N/A

COMMENTS	

Inclining Test		Current Inclining	
Flotation date 02.06.2016		SG 1,0000	
FFM 1,285	FF 1,294	SFFP 0,172	
FAM 1,015	FA 1,022	SAFP 9,530	
W1 53,000	PD1 160,0	WD 8,700	
W2 53,000	PD2 160,0	GSA 12,6	
W3 53,000	PD3 161,0	RSA 4298,7	
W4 53,000	PD4 162,0	PLM 2005,0	
LCF from stem on CL / on sheer		5,424 / 5,660	
Maximum beam station from stem		6,642	
RM Measured		100,4kg-m	
RM Default		101,2kg-m	
Limit of positive stability / Stab.Index		124,1° / 124,4°	
Freeboard at mast at 3,640		1,153	

PROPELLER				
Installation	Strut		PRD	0,410
Type	Folding 2 blades		PBW	
Twin Screw	No		PIPA	0,0030
ST1	0,035	ST3	0,180	ST5 0,280
ST2	0,180	ST4	0,100	EDL 1,790

MOVEABLE BALLAST
N/A

CENTERBOARD	
	N/A

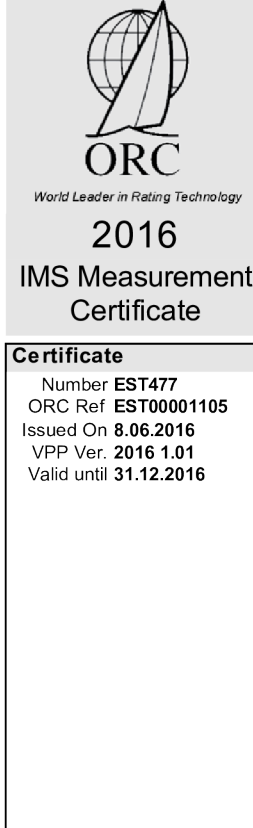
SAILS (Maximum Areas)								
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula
	0,160	0,91	1,65	2,85	3,71	33,23	33,89	$P/8 \cdot (E + 2 \cdot MQW + 2 \cdot MHW + 1.5 \cdot MTW + MUW + 0.5 \cdot MHB)$
Symmetric	SLU	SLE	SL	SHW	SFL			
	13,30	13,30	13,30	6,88	6,61	75,65		$SL \cdot (SFL + 4 \cdot SHW) / 6$
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	0,61	1,12	2,08	2,96	3,78	13,10	26,36			30.04.2016	Carbon	
0,10	0,61	1,12	2,08	2,97	3,79	13,07	26,34			18.04.2013	Carbon	
0,08	0,46	0,87	1,73	2,64	3,57	12,30	21,73			14.01.2010	Carbon	

MEASUREMENT INVENTORY				
Measurer A Tetsmann EST 1 Date 02.06.2016 Comment				
<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>
1	Engine	YANMAR		3YM20
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Description</i>	

MEASUREMENT INVENTORY							
<i>Id</i>	<i>Item</i>	<i>Tank Use</i>	<i>Tank Type</i>	<i>Capcty</i>	<i>Dist.</i>	<i>VCG</i>	<i>Condtn Description</i>
1	Tank	Water	Plastic	100,0	4,00	0,0	Fresh water tank,
2	Tank	Fuel	Plastic	60,0	7,55	10,0	Diesel fuel tank

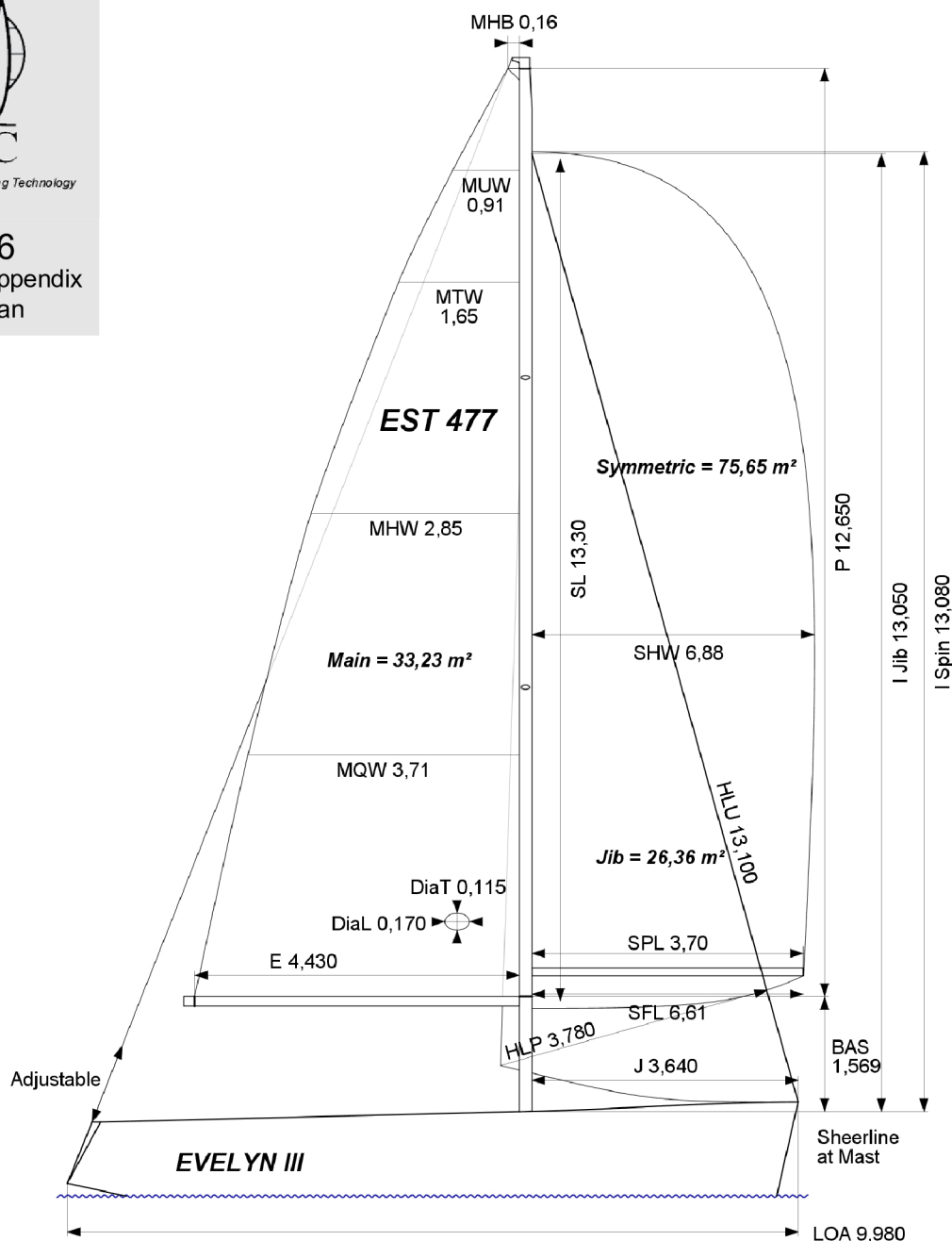
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG</i>	<i>Description</i>
1	Battery		3,65	75 Ah	
2	Battery		4,00	100 Ah	
1	Misc	15,0	7,05	Water heater Quick 25,	portside
2	Misc	10,0	8,15	Shore Power Socket,	starboard
3	Misc	10,0	8,75	Autopilot,	portside
Re	Misc			Stb. aft cabin door	missing





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2016 Certificate Appendix Sail Plan



SAILS INVENTORY

MAINSAIL

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
2	0,160	0,91	1,65	2,85	3,71	33,23	D206	17.06.2014	North	Carbon	

HEADSAILS

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
3	0,11	0,61	1,12	2,08	2,96	3,78	13,10	104%	26,36			Sisil	30.04.2016	NorthSails	Carbon	
4	0,10	0,61	1,12	2,08	2,97	3,79	13,07	104%	26,34			D206	18.04.2013	NorthSails	Carbon	
5	0,08	0,46	0,87	1,73	2,64	3,57	12,30	98%	21,73			D206	14.01.2010	NorthSails	Carbon	

SYMMETRIC SPINNAKERS

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
5	13,30	13,30	13,30	6,88	6,61	75,65	SK60	03.06.2015		Unknown	
4	13,30	13,30	13,30	6,88	6,61	75,65	D206	12.05.2012	NorthSails	Unknown	S3 2012
1	13,30	13,30	13,30	6,88	6,61	75,65	EST 2	20.04.2011	NorthSails	Unknown	light
3	12,98	12,98	12,98	6,62	6,60	71,56	HK32	14.04.2007		Unknown	hard

ASYMMETRIC SPINNAKERS

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