



Offshore Racing Congress  
World leader in rating technology

**2021**  
ORCs  
Certificate  
**D**

**Central  
Rating  
Office**



**Certificate**

Number **SY196**  
Issued On **13/10/2021**  
ORC Ref **03190001MEL**  
VPP Ver. **2021 SY1.00**  
Valid until **31/12/2021**

**Superstructures**

Area Front **7.14**  
Area Side **14.38**  
Dome frontal areas (m<sup>2</sup>)

**Powered Winches**

Halyard Power (KW)  
Halyard Speed (m/min) **42.0**  
Sheet Power (KW)  
Sheet Speed (m/min) **17.4**

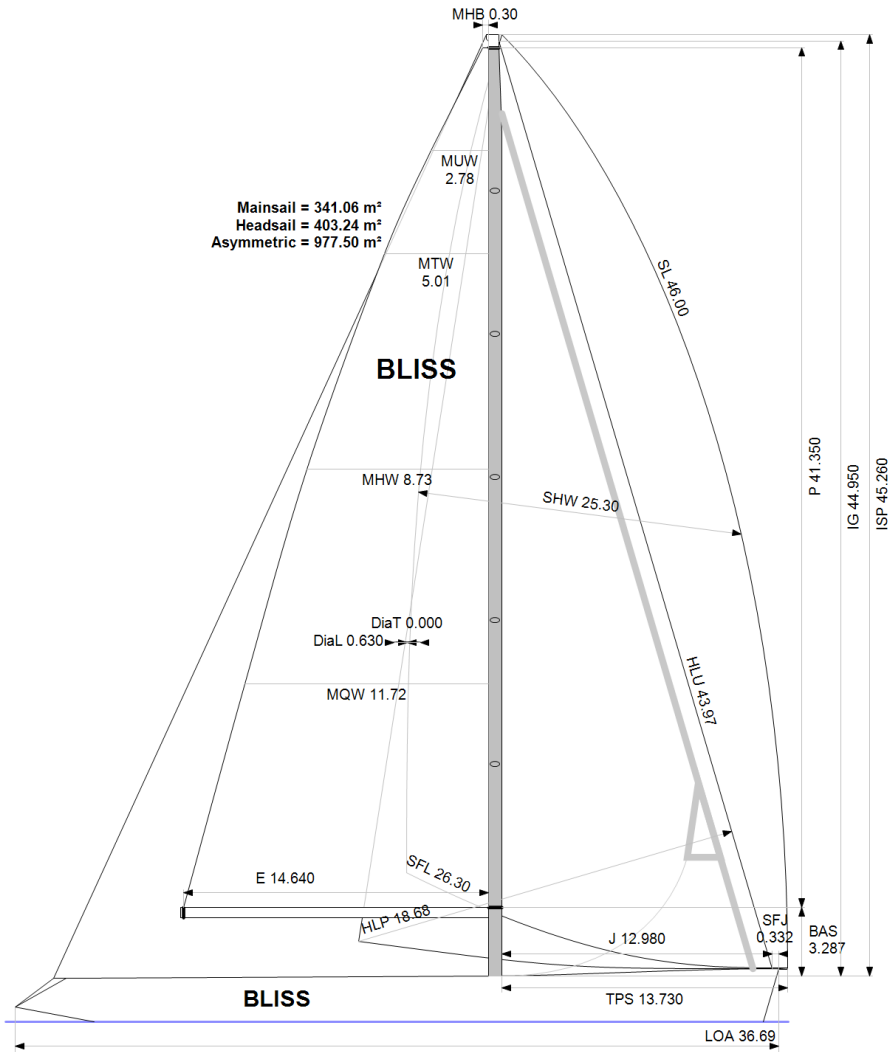
**Propeller (measured)**

Shaft exposed  
Feathering **4 blades**  
PRD **0.975**  
PIPA **0.0605**

**Sails**

Spinnaker Pole **No**  
Furled sails Upwind **1**  
Main Furler in Mast **No**  
Main Furler in Boom **Yes**  
Multiple Headsails **No**  
Headsail Count **1**  
Headsail Flying Count **0**  
Spinnaker Count **2**

Total Area Upwind **744.30**  
Total Area Downwind **1318.56**



Mainsail = 341.06 m<sup>2</sup>  
Headsail = 403.24 m<sup>2</sup>  
Asymmetric = 977.50 m<sup>2</sup>

BOAT	
Name	<b>BLISS</b>
Sail Nr	<b>BLISS</b>

GENERAL	
Class	
Designer	<b>DUBOIS</b>
Builder	<b>YACHTING D.NZ</b>
Series	<b>02/2007</b>
Age Date	<b>09/2009</b>
OPF up / down	<b>0.0% / 0.0%</b>

HULL	
Data File	<b>SY196</b>
Offset File	<b>SY196.off</b>
Dynamic All.	<b>0.747%</b>
Trim Tab	<b>No</b>
Carbon Rudder	<b>No</b>
MCA Certified	<b>Yes</b>
CDL	<b>22.533</b>
IMSL	<b>32.711</b>
LOA	<b>36.690</b>
MB	<b>8.356</b>
Construction	<b>Cored</b>
Skeg	<b>No</b>
Aramid Core	<b>No</b>
Bow Thruster D.	

Lightship Trim			
Displacement	<b>138,840</b>	VCGD	<b>0.336</b>
Draft	<b>3.983</b>	VCGM	<b>0.347</b>
RM at 1°	<b>6508.2kg·m</b>		

Sailing Trim			
Displacement	<b>150,854</b>	VCGD	<b>0.391m</b>
Draft	<b>4.057m</b>	VCGM	<b>0.402m</b>
RM at 1°	<b>6691.6kg·m</b>		

RIG DETAILS	
Rig Type	<b>Sloop</b>
Carbon mast	<b>Yes</b>
Chainplate Width	
Non-circular rigging	<b>No</b>
Fiber rigging	<b>No</b>

CENTERBOARD	
	<b>N/A</b>

SCORING OPTIONS					
	Light	Light-Moderate	Moderate	Moderate-Strong	Strong
	TWS < 8	8 <= TWS < 11	11 <= TWS < 14	14 <= TWS < 17	TWS >= 17
Time Multiplying Factor TMF (TOT)	<b>0.8589</b>	<b>1.0744</b>	<b>1.2843</b>	<b>1.4295</b>	<b>1.5277</b>
Time allowances (TOD) sec/mi	<b>582.2</b>	<b>465.4</b>	<b>389.3</b>	<b>349.8</b>	<b>327.3</b>

MAINSAIL & MIZZEN						
Area = $P/8 \cdot (E + 2 \cdot MQW + 2 \cdot MHW + 1.5 \cdot MTW + MUW + 0.5 \cdot MHB)$						
	MHB	MUW	MTW	MHW	MQW	Area
Mainsail	0.30	2.78	5.01	8.73	11.72	341.06
Mizzen						0.00
Mizzen Staysail	YSD	SHW	SFL	Area		
with Spinnaker				0.00		
with Headsail				0.00		

INCLINING TEST AND FREEBOARDS	
Full measurement not performed	
SFFP	0.900
SAFP	34.232
LCF from stem on CL / on sheer	19.066 / 19.492



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**2021**  
Measurements  
Datasheet

HEADSAILS											
Area = $0.1125 \cdot HLU \cdot (1.445 \cdot HLP + 2 \cdot HQW + 2 \cdot HHW + 1.5 \cdot HTW + HUW + 0.5 \cdot HHB)$											
HHB	HUW	HTW	HHW	HQW	HLP	HLU	Area	Flying	Furler*	Meas.Date	Comment
0.08	2.21	4.43	9.03	13.79	18.68	43.97	403.24	No	Yes & TA		
0.08	1.58	3.15	6.38	9.65	13.05	41.53	267.50	No	Yes		
Tacking Unfurling Staysail <b>Yes</b>											
* "TA" denotes "Headsail eligible for allowance because it must be furled more than 50% when tacking"											

Certificate
Number <b>SY196</b>
Yacht Name <b>BLISS</b>
Sail Nr <b>BLISS</b>
Data in <b>meters/kilograms</b>
ORC Ref <b>03190001MEL</b>
Issued On <b>13/10/2021</b>
Valid until <b>31/12/2021</b>

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Invalid for Racing

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SPINNAKERS					
Area = $(SLU+SLE)/2 \cdot (SFL + 4 \cdot SHW) / 6$					
SLU	SLE	SHW	SFL	Area	Measured Comment
47.35	44.65	25.30	26.30	977.50	
47.35	42.05	21.86	24.09	830.90	

SPINNAKERS						
SLU	SLE	SHW	SFL	Area	Measured	Comment

TANKS							
Id	Use	Volume	LCG	VCG	Sp.Wht	Level Sailing	Description
A	WATER	1,750	11.74	-0.77	1.0000	0.900	PORT
B	WATER	1,818	11.77	-0.77	1.0000	0.700	STBD
C	FUEL	2,447	17.81	0.55	0.8400	0.100	FWD PORT
D	FUEL	3,802	18.32	0.54	0.8400	0.100	FWD STBD
E	FUEL	1,423	19.31	0.53	0.8400	0.900	DAY TANK
E	FUEL	3,206	23.96	-0.73	0.8400	0.100	AFT PORT
F	FUEL	3,026	23.96	-0.74	0.8400	0.300	AFT STBD

COMMENTS

INVENTORY						
Id	Weight	Sailing	LCG	VCG	Gyr.Adj.	Description
A	185		3.60		Y	ANCHOR #1
B	736		7.80		Y	CHAIN #1
C	185		3.60		Y	ANCHOR#2
D	736		7.80		Y	CHAIN#2