



Offshore Racing Congress  
World leader in rating technology

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

**Central  
Rating  
Office**



**Certificate**

Number **SY271**  
Issued On **13/10/2021**  
ORC Ref **03190001MEP**  
VPP Ver. **2021 SY1.00**  
Valid until **31/12/2021**  
**FIRST ORCSY CERTIFICATE**

**Superstructures**

Area Front **0.80**  
Area Side **3.30**  
Dome frontal areas (m<sup>2</sup>) **0.49**

**Powered Winches**

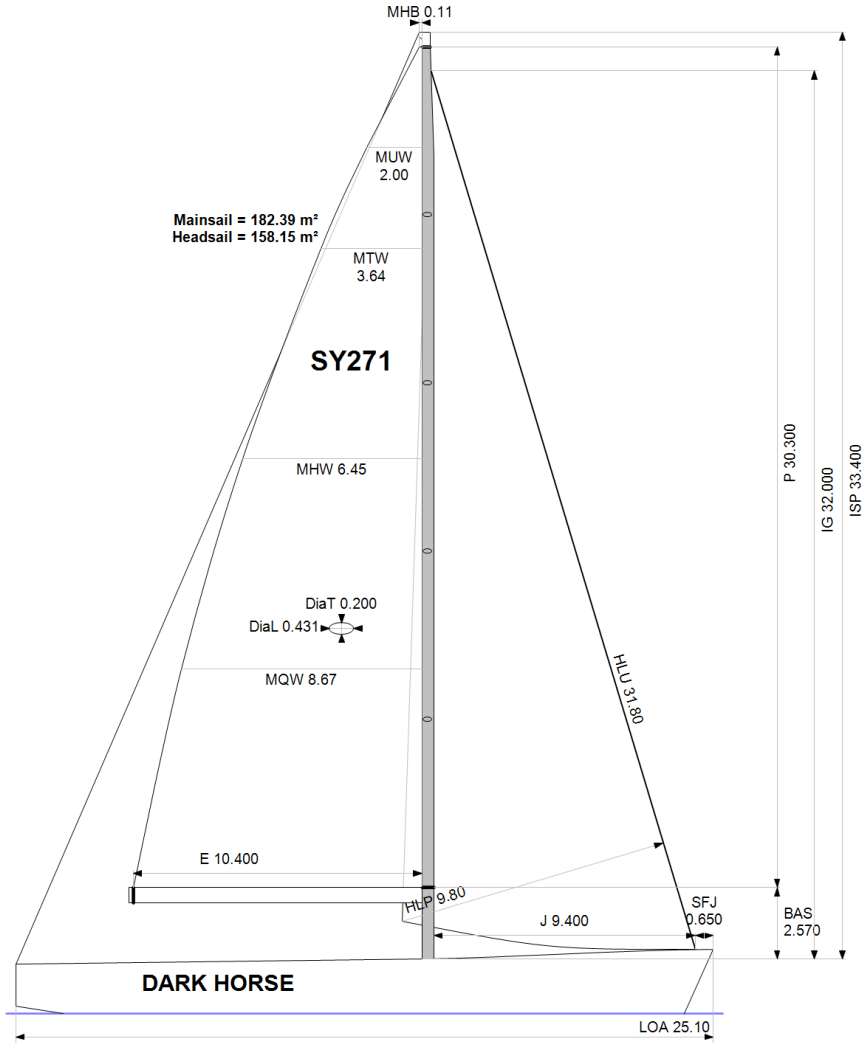
Halyard Power (KW)  
Halyard Speed (m/min) **178.0**  
Sheet Power (KW)  
Sheet Speed (m/min) **178.0**

**Propeller (measured)**

Shaft exposed  
Folding **4** blades  
PRD **0.762**  
PIPA **0.0248**

**Sails**

Spinnaker Pole **No**  
Furled sails Upwind  
Main Furler in Mast **No**  
Main Furler in Boom **No**  
Multiple Headsails **No**  
Headsail Count **1**  
Headsail Flying Count **0**  
Spinnaker Count **0**  
Total Area Upwind **340.54**  
Total Area Downwind **340.54**



<b>BOAT</b> Name <b>DARK HORSE</b> Sail Nr <b>SY271</b>		<b>HULL</b> Data File <b>SY271</b> LOA <b>25.098</b> Offset File <b>SY271.off</b> MB <b>6.080</b> Dynamic All. <b>0.000%</b> Construction <b>Solid</b> Trim Tab <b>No</b> Skeg <b>No</b> Carbon Rudder <b>No</b> Aramid Core <b>No</b> MCA Certified <b>No</b> Bow Thruster D. CDL <b>19.105</b> IMSL <b>22.770</b>			
<b>GENERAL</b> Class <b>Swan 80</b> Designer <b>Frers</b> Builder <b>Nautor Swan</b> Series <b>01/2009</b> Age Date <b>06/2013</b> OPF up / down <b>0.0% / 0.0%</b>		<b>Lightship Trim</b> Displacement <b>36,889</b> VCGD <b>-0.467</b> Draft <b>3.352</b> VCGM <b>-0.642</b> RM at 1° <b>1857.9kg·m</b>			
<b>RIG DETAILS</b> Rig Type <b>Sloop</b> Non-circular rigging <b>No</b> Carbon mast <b>Yes</b> Fiber rigging <b>Yes</b> Chainplate Width <b>5.060</b>		<b>Sailing Trim</b> Displacement <b>40,448</b> VCGD <b>-0.273m</b> Draft <b>3.399m</b> VCGM <b>-0.447m</b> RM at 1° <b>1857.6kg·m</b>			
<b>SCORING OPTIONS</b>		<b>CENTERBOARD</b> N/A			
	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>0.8813</b>	<b>1.0875</b>	<b>1.2779</b>	<b>1.4060</b>	<b>1.4952</b>
Time allowances (TOD) sec/mi	<b>567.4</b>	<b>459.8</b>	<b>391.3</b>	<b>355.6</b>	<b>334.4</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	0.11	2.00	3.64	6.45	8.67	182.39
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	0.335
SAFP	25.098
LCF from stem on CL / on sheer	13.866 / 14.175



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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
0.15	1.35	2.63	4.97	7.37	9.80	31.80	158.15	No	Yes	25/02/2021	
Tacking Unfurling Staysail <b>No</b>											
* "TA" denotes "Headsail eligible for allowance because it must be furled more than 50% when tacking"											

Certificate	
Number	SY271
Yacht Name	DARK HORSE
Sail Nr	SY271
Data in	meters/kilograms
ORC Ref	03190001MEP
Issued On	13/10/2021
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**COPY ONLY**  
**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

SPINNAKERS						
SLU	SLE	SHW	SFL	Area	Measured	Comment

TANKS							
Id	Use	Volume	LCG	VCG	Sp.Wht	Level Sailing	Description
A	fuel	375	12.35	-0.35	0.8400	0.100	#1
B	fuel	400	13.70	-0.35	0.8400	0.100	#2
C	fuel	375	12.35	-0.35	0.8400	0.100	#3
D	fuel	400	13.70	-0.35	0.8400	0.100	#4
E	water	300	9.90	-0.35	1.0000	0.100	#1
F	water	300	16.00	-0.35	1.0000	0.100	#2
G	water	300	9.90	-0.35	1.0000	0.100	#3
H	water	300	16.00	-0.35	1.0000	0.100	#4

COMMENTS

INVENTORY						
Id	Weight	Sailing	LCG	VCG	Gyr.Adj.	Description
A	380		2.00	-0.40	Y	chain
B	66		2.00	-0.40	Y	anchor