

# IMHRR 2020

01 Jan 2020

Boat Name	Boat design	Sail Number
SHOOTING STAR	Morelli Melvin 50	None

Hull measurements			
DSPW	DSPWD	LOA	FOH
9540	0	14.66	0.12
FF	AOH	AF	OSB
1.62	0	0	6.05
TP	V	TH	
2 Folding	0.67	Catamaran	

Mast properties	
TPC	
Fixed	
PC	PCY
0	0

Mainsail measurements			
PU	PL (+/-)	E	MHB
19.15	0	6.15	1.75
MUW	MTW	MHW	MQW
2.39	3.47	4.64	5.32

Daggerboard and foil measurements			
TB	Symmetric		
BV1	BV2	BV3	BV4
1.787	1.787	0	0
BH1	BH2	BH3	BH4
0.343	0.343	0	0
BC1	BC2	BC3	BC4
0.66	0.66	0	0

Mizzen measurements			
PUY	PLY (+/-)	EY	MHBY
0	0	0	0
MUWY	MTWY	MHWY	MQWY
0	0	0	0

Spinnaker	
SLU	SLE
0	0
SFL	SHW
0	0

Headsail measurements		
IG	J	HLU
15.4	5.85	17.37
HHB	HUW	HTW
0.06	0.66	1.26
HMW	HQW	HLP
2.52	3.82	5.11

Screacher	
CLU	CLE
0	0
CFL	CHW
0	0

Hull calculations			
RD	DC	TPF	RL
10045.46	505.463	0.990	14.562
CCH	CCS	CCC	CCSC
0.955	0.955	0.957	0.957

Mainsail calculations			
MA	MER	MEF	RMA
82.680	2.186	0.847	70.044

Rated sail areas	
RSAH	RSAS
106.724	106.724
RSAC	RSASC
123.251	123.251

Daggerboard & foil calculations				
VA	BVA	BF	VF	BHA
0.949	2.359	0.849	0.992	0.453

Headsail calcs	
HA	HER
43.663	1.672
HEF	RHA
0.840	36.680

Stable wind speed		
WR	WH	WS
30387.52	214.45	23.139

Lift factor	
LH	LS
147.637	147.637
LC	LSC
166.741	166.741
LFH	LFS
1.004	1.004
LFC	LFSC
1.004	1.004

Mast calculations	
P	PY
19.150	0.000
PA	PAY
0.000	0.000

Spinnaker calculations		
SA	RSA	SMG%
0.000	0.000	0.750

Mizzen calcs.	
MAY	RMAY
0.000	0.000

Screacher calculations		
CA	RCA	CMG%
114.771	16.528	0.533

Speed prediction	
VVH	VVS
13.142	13.142
VVC	VVSC
13.966	13.966

For details of the abbreviations, please visit <http://www.imhrr.com/imhrr-details.php>

Standard IMHRR Rating			
Headsail TCF-H	Spinnaker TCF-S	Screacher TCF-C	Spi & Scr TCF-SC
<b>0.964</b>	<b>X</b>	<b>1.025</b>	<b>X</b>

Light Wind IMHRR Rating <12kts			
Headsail TCFL-H	Spinnaker TCFL-S	Screacher TCFL-C	Spi & Scr TCFL-SC
<b>0.872</b>	<b>X</b>	<b>0.927</b>	<b>X</b>