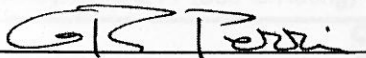


8

Sira

INTERNATIONAL EIGHT METRE CLASS

Yacht's Name	<u>Froya</u>	ISAF Plaque	<u>na</u>
National letters and Sail Number	<u>SUI-9</u>	Club	<u>YC Langenargen</u>
Designer	<u>Bjarne Aas</u>		
Builder	<u>Bjarne Aas</u>	Building Year	<u>1939</u>
Owner		Design year	<u>1939</u>
Owner's Address	<u>Roel van Merkesteyn</u>		
Lloyds R class certificate (Number or Date)	<u>Frohburgstrasse 57 CH-8006 Zürich</u>		
	<u>Norske Veritas</u>		

RATING CERTIFICATE Salt Water 1.025 kg/dm ³	
This yacht has been measured by measurer(s) approved by this Authority and has been found to rate not more than 8.000 metres. (or 8.07 if building year is before 1960) <i>Immersion salt/fresh water = [m] 0,016</i>	
This certificate is dated	<u>10.mars.15</u>
and its validity confirmed by	<u>G.R. Perrin (Swiss Sailing, 8m Class measurer)</u>
for <u>ISAF & Swiss Sailing</u>	(enter name of National Authority)
Valid until	<u>09.mars.19</u>
Supersedes	<u>21.sept.05</u> (enter former certif. number or date)
Signature 	Stamp of Authority
Comments :	Im Swiss Sailing-Register eingetragen am 10. MRZ. 2015

OVERALL LENGTH		14,594
Overhang Forward to L1	1,982	
Overhang Aft to L1	2,685	
Total Overhang (Subtract)	4,667	
MEASURED LENGTH (L1 L1)		9,927
Girth at Bow	1,085	
Twice vertical Height at Bow (Subtract)	0,800	
O at Bow	0,285	
Add 1 1/2 O at Bow (min 0.360 m)	0,428	
Girth at Stern	2,604	
Twice vertical Height at Stern (Subtract)	1,494	
O at Stern	1,110	
Add 1/3 O at Stern (min 0.267 m)	0,370	
Add any penalty (Displ.)	0,000	
CORRECT LENGTH L		10,725
Skin d to d1 Port	2,217	
Chain d to d1 Port	2,213	
d Port	0,004	
Skin d to d1 Starboard	2,216	
Chain d to d1 Starboard	2,209	
d Starboard	0,007	
Add d	0,011	
Add GIRTH 2 d		0,022
Mean Freeboard Bow O	Actual	1,049
Mean Freeboard Midship d	Actual	0,850
Mean Freeboard Stern O	Actual	0,867
Sum of Freeboards		2,766
Subtract FREEBOARD, F Max 0.890)		0,890
Add SAIL AREAS (Square root)		9,269
TOTAL OF MEASUREMENTS		19,125
PENALTY (Draught & Beam)		0,000
RATING		8,070

Yacht's name : Froya

SUI-9 8m

10.mars.15

PENALTIES

Overhang Forward to L	2,325	Overhang Aft to L	2,885
Subtract from overall length			5,210
Difference of imersion from salt to fresch water [m]			0,016
WATERLINE LENGTH			9,384
Minimum Displacement for Zero Penalty [m3]			8,326
Minimum Weight for Zero Penalty [ton] (Water of sg 1.025 if salt)			8,534
DISPLACEMENT (by weighing)			8,600
Equivalent LWL (for Displ. < min.)		Difference	
DISPLACEMENT PENALTY (add to L)			0,000
DRAUGHT (actual)			1,993
Max. Draught for Zero Penalty	2,001	Difference (if positive)	
DRAUGHT PENALTY (add to Rating)			0,000
BEAM (Min)			2,440
Max Beam at 1/3 of Midship Freeboard	2,500	Difference (if positive)	
BEAM PENALTY (add to L)			0,000
Tumblehome Max. (2 x 2% of Extr. Beam)			0,105
Extreme Beam	2,621	Beam at deck	2,521
Difference (if positive)			
TUMBLEHOME PENALTY (add to Rating)			0,000

SAIL PLAN

Max Height of Sail Plan (Max 17.00m)	17,000	J=	5,110	I =	12,750
Boom Heigth =	1,070	A=	15,930	B=	7,310
Rated Foretriangle Area	27,690	Rated Mainsail Area	58,224		
TOTAL RATED SAIL AREA	85,914	√S	9,269		
SAIL LIMITS	Vintage girth 1/2 height 60%	4,386	Vintage girth 3/4 height 35%	2,559	
Mainsail:	max girth at 1/2 height 68%	4,971	Max girth at 3/4 height 41%	2,997	
Genua:	max. foot length (J + 4m)	9,110	Spi boom =	5,110	
Spinnaker:	max. luff length	13,49	1/2 foot max breadth (125% J)	6,388	

SPARS MEASUREMENTS

MAST CG position (from meas. point)	0,000	Mast Weight	0,00	Material	0,00
Mast dimensions [mm]	Deck	Half-Height	Jib-Halyard	Head	Mast Builder
Mast section area [cm ²]	0,00	0,00	0,00	0,00	0,000
Mast section ratio (Max 1.6)	0	0	0	0	

DECK MEASUREMENTS

Cockpit dimensions	Length	Aft width	Front width	Area	Dist.to sheerline
Hatch dimensions	2,367	1,030	1,195	2,633	0,435
Cabin roof dimensions	Length	Aft width	Front width	Area	Height above deck
Aft bulkhead dimensions	2,000	1,250	0,830	2,080	0,150
Front bulkhead dimensions	Height	Width	Area	Boom	
Spi boom recess on deck	0,65	0,50	0,33	Depth	0,000
	0,88	0,50	0,44	Width	0,000
	Length	Width	Depth	Ratio	
	na	na	na		

Date and place of Measurement	10.mars.15	Radofzell
Measurer's Name(s)	G.R. Perrin (Swiss Sailing, 8m Class measurer)	
Measurer recognised by : (enter National Authority)	ISAF & Swiss Sailing	
Measurer's signature	