International 2.4 metre Measurement Form

Sail Number NOR 140

ISAF Plaque Number .316.....

Owner. E.S.p.e.n	Arne Andersse	?h
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Name of yacht

Overall length				4.180
Overhang Forward to L1		+0,430		
Overhang Aft to L1 Total	l overhang	+0.655	\rightarrow	-1.085
Measured length				3,095
Girth at Bow		0.312		
Twice Vertical Height at Bow	O at Bow	- 0,240 →	0.072	
1½ O at Bow			+0.108	
Girth at Stern		0.898		
Twice Vertical Height at Stern	O at Stern	-0.529 >	0.369	
Add 1/3 O at Stern			+0.123	
Add any penalty at O2 Sum of	Girth difference		+ 0 >	+ 0.23!
Correct length, L				3.326
Skin girth d to d1 Port				
Chain girth d to d1 Port	d Port	>	+ 0	
Skin girth d to d1 Starboard				
Chain girth d to d1 Starb,	d Starboard	<u></u> →	+ 0	
d = d Port + d Starboard	2 x d		0	+ 0
Add to find sum of $L + 2d$				3.326
Mean freeboard Bow O		+ 0.327		
Mean freeboard Midships D		+0.291		
Mean freeboard Stern Sum	of freeboards	+0.298	0.916	
F=1/3 sum of freeboards	F, max 0.292		0,305	-0.292
= L + 2d - F				3.034
Penalty Displacement Rule D.7.2		2,978		
Corr LWL Difference	2 x difference	-2.978	0	+ 0
Penalty Beam Rule D.7.3	Beam	0.751		
Min beam Deficiency	4 x deficiency	- 0,720 →	0	+ 0
\sqrt{S}				+2.654
Total of Measurements $L + 2d - I$	$F + \sqrt{S}$			5.688
Divide by $2.37 = RATING =$				2,400
Penalty Draft Rule D.7.1	Draft	4 1.000		
Max draft Excess	3 x excess	-1,000	0	+ 0
Penalty Tumble home D.7.4				
Max Tumble home Excess	3 x excess	-0,015	0	+ 0
FINAL RATING				2.400

NOR 140, 15AF 316

Other Measurements recorded by measurer

Overall Length Overhang Forward to L Overhang Aft to L

Total Overhang (Sum overhang forward and aft)

Waterline Length (Overall Length - Total Overhang)

Minimum measured cockpit frame over water level when ballasted and swamped in accordance with rule C.5.2

Boat weight recorded by weighing according to rule C.5.1

Boat weight including 35 kg ballast

Minimum weight by Rule D.7.2 (0.2xLWL+0.06)³ x 1025

	4.180
+0.547	
+0.655	
\rightarrow	-1.202
	2.978
	254 Kg
	289 Kg
	289 Kg

Sail Dimensions

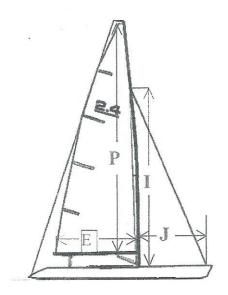
P = 4,650

Outer point distance E = 1,960

I = 3.750Forestay height

Foretriangle base J = 1.560

Mast measurements checked	
Height of mast datum point	
Rule C.8.2 (b) (2)	
Boom measurements checked	
Rudder thickness, Rule E.4.3	



Areas of Sail Mainsail $0.5 \times P \times E =$ Foretriangle Total $0.5 \times I \times J =$ Foretriangle Total x 0.85 Sail Area For Rating = S =

VS

	7.55 7 111
2,925 m ²	
	2.486 m ²
	7,043 m ²
	2,654

MICHT m2

Builder Vene Björndahl Designer Peter Norlin

Measured by Esko Hyypp & Date of Measurement 19/5-2001

Complementary measured by Date of compl measurement......

Certificate issued by Harald Rolfshes. Date of issue 10/4-2018

CANorsk 2.4m R Klubb authority

Jorsk 2.4mR Klubb