International 2.4 metre Measurement Form

Sail Number GER 10

Tot Div Pen Max Pena Max

FIN

ISAF Plaque Number ... 835

Owner Koul Dehler/RVG	Name of yacht . HAPPY END
Overall length	4,181
Overhang Forward to L1	+0,429
Overhang Aft to L1 Total overhang	+0,660 - 1,089
Measured length	3,092
Girth at Bow	3,12
Twice Vertical Height at Bow O at Bow	-0,240 → 0,072
1½ O at Bow	+
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	e + 0 -> +0,231
Correct length, L	3,323
Skin girth d to d1 Port	
Chain girth d to d1 Port d Port	- → + v
Skin girth d to d1 Starboard	
Chain girth d to d1 Starb, d Starboard	- → + o
d = d Port + d Starboard 2 x d	
Add to find sum of L + 2d	
Mean freeboard Bow O	+ 0,327
Mean freeboard Midships D	+0,292
Mean freeboard Stern Sum of freeboards	1 2 2 2 2 2 2
= $1/3$ sum of freeboards F, max 0.292	
L+2d-F	0,306 - 0,292
enalty Displacement Rule D.7.2. LWL	3,031
orr LWL Difference 2 x difference	
enalty Beam Rule D.7.3 Beam	+ 0
in beam Deficiency 4 x deficiency	0,770
	-0,720 → + c
tal of Measurements L + 2d - F + \sqrt{S}	+2,654
vide by $2.37 = RATING =$	
Talty Draft Rule D 7 1	5,685
x draft Excess	2,4
nalty Tumble home D.7.4	- 1,000 →
X Tumble home	+ 0
NAL RATING Excess 3 x excess	-0,015 >
	+ 0

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 $(0.2xLWL+0.06)^3 \times 1.025$

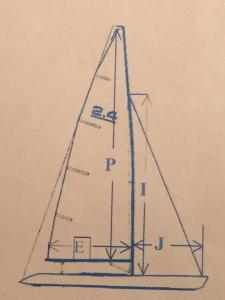
	4,181
+0,547	
+0,660	
>	- 1,207
	2,974
	0,050
	254 Kg
	289 Kg
	289 KB

Sail Dimensions

P = 4,650

Outer point distance E = 1.960Forestay height I = 3.750Foretriangle base J = 1,570

Mast measurements checked	Ou
Height of mast datum point Rule C.8.2 (b) (2)	04
Boom measurements checked	04
Rudder thickness, Rule E.4.3	04



Areas of Sail

Mainsail $0.5 \times P \times E =$

Foretriangle Total 0.5 x I x J =

Foretriangle Total x 0.85

Sail Area For Rating = S =

VS

	4.552 m ²
2,925m ²	
	2,486 m ²
	7,045m2
	2,654

Builder Changer Composites Designer Peter Norlin

When Built 2013

Measured by Esko Hyrna FYA 0019

Date of Measurement . 24, 9, 2013

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

Certificate issued by Date of issue.....

CA authority

signature