

INTERNATIONAL 2.4 METRE CLASS ASSOCIATION

RATING CERTIFICATE

Yacht's name Vene Björndahl / Peter Norlin MARK III/2

National letter(s) and sail number ~~FIN 50~~ GER 72  
~~SWF 1~~ PL 345

Designer Peter Norlin

Builder Vene Björndahl Built 1993

Owner ~~NORTH SAILS NÄSKÄRVEN PURJEHDUSSEURA~~  
JUHO KOSKI  
MUNAKSHAUDANK. 10. CT3

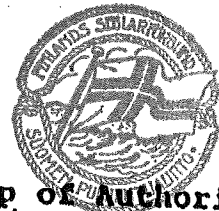
Owner's address ~~NYNÄSHAMN~~ 33710 TAMPERE  
33401 TAMPERE

This certificate is issued by .....

for Finnish Yachting Association .....

(enter name of National Authority)

*Jouko Oksanen*  
Signature



Stamp of Authority

Overall Length .....		4,182	
Overhang Forward to L .....	0,549		
Overhang Aft to L .....	0,655		
Subtract from overall length .....		-1,204	
WATERLINE LENGTH .....		2,978	
Minimum displacement for zero penalty (kg for water of 1.025)	289,00		
DISPLACEMENT .....	255,00		
Equivalent LWL (for Displ min)		3,115	
Difference .....		0,	
DISPLACEMENT PENALTY .....		x 2	
Actual draught .....			
Max draught for zero penalty .....	1,000		
Difference (if positive) .....	0		
DRAUGHT PENALTY .....		x 3	
Max beam at 1/3 height of midship freeboard	0,720		
Difference (if positive) .....			
BEAM PENALTY .....		x 4	
Tumble home .....	0,000		
Extreme Beam .....			
Difference (if positive) .....	x 0,002		
TUMBLE HOME PENALTY .....		x 3	
PENALTY at 0 at Stern .....			
SUM OF PENALTIES .....			
Rated Mainsail Area .....	4,465		
Foretriangle Area .....	2,925		
.85% of Foretriangle Area .....		2,486	
Rated Sail Area (S) .....		6,951	
		=====	
			2,636

√s

OVERALL LENGTH .....		4,182	
Overhang Forward to L <sub>1</sub> .....	0,432		
Overhang Aft to L <sub>1</sub> .....	0,655		
Total Overhang .....			
MEASURED LENGTH .....		3,115	
Girth at Bow .....	0,312		
Twice Vertical Height at Bow .....	- 0,240		
O at Bow .....	0,072		
Add 1 1/2 O at Bow .....	x 1,5	0,108	
Girth at Stern .....	0,898		
Twice Vertical Height at Stern...	0,529		
O at Stern .....	0,369		
Add 1/3 O at Stern .....	: 3	0,123	
Skin d to d <sub>1</sub> , Port .....			
Chain d to d <sub>1</sub> , Port .....	-		
d Port .....		0	
Skin d to d <sub>1</sub> , Starboard .....			
Chain d to d <sub>1</sub> , Starboard .....	-		
d Starboard .....		+ 0	
Add d .....		0	
Add GIRTH DIFF .....			+ 3,326
Mean Freeboard Bow Actual .....	0,327		
Mean Freeboard Midship Actual....	0,291		
Mean Freeboard Stern Actual .....	0,298		
Sum of Freeboards .....	0,916		
Mean of Freeboards .....			
Subtract FREEBOARD .....		- 0,292	- 0,292
Add SAIL AREA .....			+ 2,654
Total of Measurements .....			5,688
Penalties.....			+ 0,000
.....		: 2,37	
RATING .....			2,400

AILS

Headsail	I =	<u>3,750</u>	Mainsail	P =	<u>4,650</u>
	J =	<u>1,560</u>		E =	<u>1,960</u>

BATTENS

Are the battens within the limits?

Yes                       No

(Top and bottom 360 mm, intermediates 500 mm)

BUOYANCY

Minimum measured freeboard when full of water and with 35 kg lead ballast placed according to Rating Rule 8.1.1 0,303

Buoyancy equipment

Inflated air bags     Foam blocks     Buoyancy compartements or tanks in the hull

Is the fixation of the airbags/foam blocks satisfactory?

Yes                       No

DECKS AND COCKPIT LAYOUT

Total area of cockpits 0,68 m<sup>2</sup>

Measurer's comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

ALL LIMITS

Mainsail: max girth at half height 1,332  
 max girth at 3/4 height 0,803  
 Genoa: max foot length 1,720

SPAR MEASUREMENT

1. Mast Reference Number

Material Aluminium  
 Dimension check Yes  
 Weight (kg) 7.00  
 Tip weight 2.20

2. Boom Reference Number

Dimension check Yes

3. Whisker pole

2,106

Date and Place of Measurement: 20.7.93 Kokkola

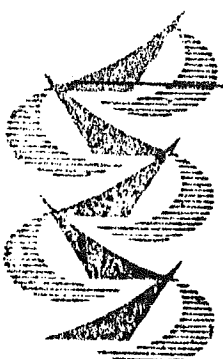
Measurer's Name:  
(Block Capitals)

ESKO HYYPÄ

FINNISH YACHTING ASSOCIATION

Measurer recognised by:  
(Enter name of National Authority)

Measurer's Signature:

	COUNTRY: <b>FIN</b>	MEASURER'S LIC. NO: <b>0019</b>
	BOAT TYPE: <u>2,4 M</u>	SAIL TYPE:
	MEASUREMENTS:	
DATE: <u>20.7.93</u>		SIGNATURE: <u>Esko Hyypä</u>