## International 2.4 metre Measurement Form

Sail Number	ISA	AF Plaque Nun	nber 8 70	)
Owner M. Striehl		Name of yac	ht	
Overall length		No. of the last	TO THE	4.186
Overhang Forward to L1		+0.427		
Overhang Aft to L1	Total overhang	+0.661		-1.088
Measured length				3.092
Girth at Bow		0.313		
Twice Vertical Height at Bow	O at Bow	- 0,240 →	0.073	
1½ O at Bow		THE RESERVE	+0.109	
Girth at Stern		0.878		
Twice Vertical Height at Steri	O at Stern	-0.538>	0.340	
Add 1/3 O at Stern		150 150 50	+0.117	
Add any penalty at O2 Sum	of Girth difference		+O.000 →	+0.226
Correct length, L				3.34
Skin girth d to d1 Port		0.730		THE STATE OF THE S
Chain girth d to d1 Port	d Port	-0.730>	+0.000	
Skin girth d to d1 Starboard		0.730	BLEWS STATE	
Chain girth d to d1 Starb,	d Starboard	-0.730>	40.000	
d = d Port + d Starboard	2 x d			+0.000
Add to find sum of $L + 2d$			TO SERVICE SERVICE	3.318
Mean freeboard Bow O		+0.336	THE STATE OF	
Mean freeboard Midships D		+0.305		
Mean freeboard Stern S	um of freeboards	+0.305	0.940	
F=1/3 sum of freeboards	F, max 0.292		0.317	-0.292
=L+2d-F				3.026
Penalty Displacement Rule D.	.7.2. LWL	0.000		
Corr LWL Difference	2 x difference	-0.000>	0.000	+0.000
Penalty Beam Rule D.7.3	Beam	0.770		
Min beam Deficiency	4 x deficiency		0.000	+0,000
$\sqrt{S}$				+2.654
Total of Measurements L + 20	$1 - F + \sqrt{S}$			5.680
Divide by 2.37 = RATING =				2.396
Penalty Draft Rule D.7.1	Draft	0.975		
Max draft Excess	3 x excess	- 1,000 →		+0.000
Penalty Tumble home D.7.4	Tumble home	0,000		
Max Tumble home Exce	ess 3 x excess	- 0,015 →	0.000	+0.000
FINAL RATING		NE CHIEF W		2.396

### Other Measwements 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  $(0.2xLWL+0.06)^3x 1.025$ 

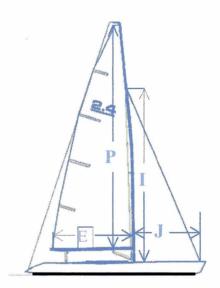
	4.180
+0.544	
+0.661 1.705→	- 1.205
	2.975
	0.050
	254 Kg 289 Kg
	288 Kg

#### Sail Dimensions

Outer point distance

P=4.650 E=1.960  $I = 3 \cdot 750$   $J = 1 \cdot 560$ Forestay height Foretriangle base

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



Areas of Sail

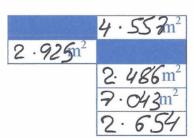
Mainsail $0.5 \times P \times E =$ 

Foretriangle Total  $0.5 \times I \times J =$ 

Foretriangle Total x 0.85

Sail Area For Rating = S =

 $\sqrt{S}$ 



Builder Chars et Designer	North Sewhen Built. 2014
Measured by Thomas Satsch	Date of Measure 2.0.12.2020
Complementary measured by	Date of complements measurement.
Certificate issued by	
name CA	S
authority	signature NO:

2.4 No	orlin One Design (	Class NEW BOATS		
		tion control of 2.4 NOD boat	s built AFTER 2	011-03-01
	rement Report Ne		Checks according to	
			onsons assertanty to	
SAFP	laque number:	870 01	D.NO. 8	2
Duildor'	s details and hull nu	mbow (1/	7	
builder	s details and null nu	imber: Charact Comp	031/05	
Mast Bu	uilder's details:	3 /		(if not the builder)
Rule	Item to be checked	Requirements	Measurem result	Comments
B.1.1	Cerification marks	Acc to 2.4mR CR	N//	acc to form
C.6.1(a)	Boat weight	Weight 253 - 254kg	254 kg	
C.6.1(b)	Balance point (C of G)	Distance fr sect 0 1343-1371mm	1245 mm	
	Adjustable shrouds	According to rule	755	
D.2.3(c)	Holes in hull and deck	According to rule	750	
D.2.4(b)	Hull datum section	Marked on deck and sheer line	VSC	
0.2.5	ISAF Plaque	Placed in the cockpit	Y 85	
D.3.1	Building materials	According to C M 3.1	V53	*
0.3.2	Hull construction	According to C M 3.2	Y & & Y & Y & & Y & Y & & Y & Y & Y & & Y &	*
D.5.1(a)	Buoyancy material	Non-com. air cell foam plastic	Y50	*
	Compartments	Shall be inspectable	152 152	
	Seat not incl in weight	CoG ≤ 300 from sheer line	N/9 mm	
	Mandatory fittings	All fittings installed	485	
	Foretriangle base	Fitting or devise installed	460 1. CAM	
D.7.1(c)	Fittings construction	Distance from stem acc drw J 1	7 & S	
D.7.1(c)	Fitting on outside of hull	No fittnings permitted on outside	ok	
D.8.3	Ballast	Acc to rule D.8.3 (a), (b), (c)	485	*
C.7.3	Ballast	Weight ≤ 181kg	181 kg	
	Ballast	Weight of topmost pig		
0.7.3		Battery included in ballast	4 kg 455	
	Corrector weights	Position	N/Q kg	
C.9.5(b)(1	Mast step	Movement <10mm athwartskips	6 mm	
	Mats datum point	Dist to deck measur point <36mm	< mm	
2.4	Mast datum point	3750mm from rigging point	S mm VES	
C.9.5(a)	Mast curvature	<_30mm	5 mm	*
	Mast material	Aluminium	ACUMINIU	h
3.2	Mast construction	Fixed sail groove	FIXCA	*
3.3	Mandatory fittings	All installed	V55	*
3.4	Mast cross sections top	Fore/aft 28mm ≤ d ≤ 66mm	37 mm	*
		Transv ≥ 28mm	33 mm	*
	Datum point - 3500mm	Fore/aft 56mm ≤ d ≤ 66mm	65 mm	×
		Transv ≥ 38mm	S mm	*
	Lower point height	340mm ≤ <i>h</i> ≤ 350mm	350 mm	
	Upper point height	4990mm ≤ <i>h</i> ≤ 5000mm	5.000 mm	,
	Lower to upper point	4630mm <u>≤ h</u> <u>≤</u> 4650mm	4.650 mm	
	Forestay height	$3750$ mm $\leq h \leq 3750$ mm	2.750 mm	
	Shroud height	3900mm ≤ <i>h</i> ≤ 4000mm	3.804 mm	
	Spreader length	250mm ≤ <i>I</i> ≤ 350mm	255' mm	*
	Spreader height	1950mm ≤ h ≤ 2050mm	1974 mm	*
=.3.5	Mast weight	$6,5$ kg $\leq q \leq 7,5$ kg	6.5 kg	*
	Mast tip weight	≥ 2,0kg	2.1 kg	*
4.1	Boom material	Aluminium	ALUMINIU	*
4.2	Boom construction	With or without groove	WILL	*
F.4.4	Outer point distance	≤ 1960mm	1960 mm	*

I laque ii	umber:	Measurem Report New Boats		Page 2
Rule	Item to be checked	Requirements	Measurement resu	Comments
F.4.4	Boom cross section	Vertical < 75mm	57 mm	
	Been creed section	Transverse $27mm \le d \le 55mm$	57 mm	-
C.9.6(b)	Boom position on mast	Over side at lower point	NEC	-
F.5.2	Whisker pole material	Aluminium	ALUMI	*
F.5.5	Whisker pole length	< 2109mm	2104 mm	
.0.0	Whisker pole diameter	> 22mm	26 mm	
F.7.1	Shrouds material	Stainless steel	5.5	*
F.8.2(a)	Running rigging mandato	Maximum acc to C.9.10(c) (1)	OK	*
F.8.2(b)	Running rigging optional	Maximum acc to C.9.10(c) (1)		*
C 0 10(d)	Mainsail sheet	Only one sheet is permitted	0 %	
C.9. 10(a)	Mainsail Sheet	Offiny offices to permitted	05	
K.3	Checking against te	mplates_		
Huli	Vertical section 0	clearance 2 - 4mm	OK	<u> </u>
Huli	Vertical sedion 2	clearance 2 - 4mm	OK	
Hull	Vertical sedion 4	clearance 2 - 4mm	000	
Stern	100mm part in centre	clearance 0 - 2mm	OK	
Keel	Vertikal sedion 2	clearance 2 - 4mm	OK	
Keel	Horiz sed 75mm b BL	clearance 2 * 4mm	OK	
Keel	Horiz sect 400mm b BL	clearance 2 = 4mm	OR	
Keel	Trailing edge	clearance 1 - Omm	0	
Rudder	Standard, profile	clearance 2 = 4mm		
Rudder	Standard, section 200	clearance 0 -1mm	02 -	
Rudder	Standard, section 400	clearance 0 -1mm	84	
Rudder	Standard, section 600	clearance 0 - 1mm	012	1
Rudder	Trailing edge	clearance 1 - 0mm	OK	
A dditio	nal chacks of dimens	ions given on drawing nr 1,	2 9 and 10	
Hull	Over all length	4178 < <i>I</i> < 4182mm	4181 mm	-
Hull	Beam section 0	537 ≤ <i>l</i> ≤ 541mm	940 mm	
Hull	Beam section 2	801 ≤ <i>l</i> ≤ 805mm		
Hull	Beam section 4	303 ≤ <i>l</i> ≤ 308mm	80 < mm	
Hull	Aft end to section 0	647 < l < 649mm	647 mm	1
null	Mast hole to sect 0	/ ≤ 2043mm	647 mm	-
Dook		1 \ 2045[[[[]]]	2086 mm	-
		1000 - 1 - 1000mm	100/ 000	
Deck	Shroud hole to sect 0	1902 ≤ <i>l</i> ≤ 1922mm	1906 mm	-
Deck Deck	Shroud hole to sect 0 Shroud hole to Centre L	250 ≤ <i>l</i> ≤ 260mm	1906 mm 242 mm	
Deck Deck	Shroud hole to sect 0		1906 mm 242 mm	
Deck Deck	Shroud hole to sect 0 Shroud hole to Centre L Stem to forestay extens.	$250 \le l \le 260$ mm intersection with deck $0 \le l \le 10$ m	1906 mm 242 mm mm	
Deck Deck Deck	Shroud hole to sect 0 Shroud hole to Centre L Stem to forestay extens.	$250 \le l \le 260$ mm intersection with deck $0 \le l \le 10$ m	1906 mm 242 mm mm	
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Deck Deck Deck Deck	Shroud hole to sect 0 Shroud hole to Centre L Stem to forestay extens.  measurement: 20	$250 \le l \le 260$ mm intersection with deck $0 \le l \le 10$ m	1906 mm 242 mm mm	
Deck Deck Deck Deck Signatu	Shroud hole to sect 0 Shroud hole to Centre L Stem to forestay extens.  measurement: 20  re of measurer:	250 ≤ I ≤ 260mm intersection with deck 0 ≤ I ≤ 10m	1906 mm 242 mm mm	
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# **Buoyancy Certificate**

ISAF Plaque Number:

5-70

Date of Floatation Check:

20-12-2020

A flotation check is **valid maximum** five (5) years from the date of floatation check.

The yacht has been checked under the following conditions:

The boat was in racing condition and with an extra 35kg lead ballast placed within 100mm from 0.55 x LWL from the bow station.

 The boat was filled with water and tilted over to starboard, to port, to the bow and to the stern in order to let air enclosed under deck and other parts of the hull to come out.

It was noticed that the boat floated in an approximate horizontal position.

This is certified by:

International 2.4mR Class Association

www.inter24metre.org

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