SUI sailing

Schweizerischer Segelverband - Fédération Suisse de Voile
Federazione Svizzera della Vela - Federaziun Svizra da Vela
Swiss Sailing Federation

MEASUREMENT CERTIFICATE

Dieser Vemessungsnachweis ist der im Art. 78 WR angeforderte
Ce certificat est le document exigé selon l'article 78 RIC
Questo certificato è il documento richiesto secondo l'articolo 78 RIC
Quaist certificat ais il documaint stipulieu seguond l'artichel 78 da l'WR
This form is the certificate required as per International Sailing Federation RRS 78

Sail endorsement	All sails used when racing shall have been measured by an SWS approved measurer who shall have stamped, signed and dated each sail at its tack.
Owners Declaration	I undertake to race this FINN only so long as I maintain it to conform with the International FINN Class Rules. *Owners Signature*

Class **FINN**

Builder **Wilke (SUI)**

Measurer **B Reichen (SUI 8)**

Date of 1st measurement **2. Mai 2013**

Hull Weight (kg) **116.000**

CB weight (kg) **12.370**

T1 / T2 (sec) **3.1896/3.5715**

ISAF Plaque N° **4045**

Appointed by SWISS SAILING

Sail N° when 1st measured **SUI 558**

Number of CW (pces) **3**

Corrector weight (kg) **5.000**

Corrector weights can only be altered or removed by an official FINN Class Measurer

Sail N° **SUI - 558**

Personal N° **SUI 4**

Registered by SWISS SAILING

Im Swiss Sailing-Register eingetragen am
2 6. JUNI 2013

Not valid without SWISS SAILING *Stamp*

SWISS SAILING *Member N°*
A 34433

Owner

Name	**Huracek**
First Name	**Jiri**
Address	**Alter Oberländerweg 54**
Code - City	**3653 Oberhofen am Thunerse**
Nation	**Switzerland**
Club	**TYC**

Registered by: Urs Wyler 25. Juni 2013

MEASUREMENT CERTIFICATE

This forms Page 1 of the certificate required under ISAF RRS 78

INTERNATIONAL FINN CLASS

Regatta Identification
(to be completed by the Helmsman)

SAIL NUMBER IN USE *Print*	SUI 4
SAIL NUMBER (Rule A.10.2) *Print*	SUI 558
ISAF STICKER NUMBER *Print*	4045
HELMSMAN *Print*	Jiri Huracek Alter Oberländerweg 54 3653 Oberhofen Switzerland
HELMSMAN'S DECLARATION I am satisfied that the Certificate for this boat is valid and that the boat complies with the Class Rules. In particular, all equipment to be used complies with the requirements of Section C of the Class Rules. *Sign and date*	

This page shall be completed by the Helmsman, who shall alter or replace it as necessary.
Replacement pages and "Reweighing" Attachment Sheets can be downloaded from the ISAF website at Finn Class Documents.
Please use a laser printer or photocopier (the ink is more resistant to damp).

ATTACHMENT SHEETS

Changes to the information on page 2 shall be recorded. If there is insufficient space, use additional copies of these pages or the "Reweighing" Form as Attachment Sheets. Retain the original sheets, with obsolete information crossed through.

Geprüft durch: 24.6.13
SWISS SAILING
Tech Zentrale Jollen
Urs Wyler

Please use Black Ink

SWISS SAILING
Measurer No 08
Beat Reichen

19 June 2009

Im Swiss Sailing-Register eingetragen am
26. JUNI 2013

MEASUREMENT CERTIFICATE

This is page 2 of the certificate required under ISAF RRS 78

INTERNATIONAL FINN CLASS

Identification and Certification (Hull and Centreboard)

SAIL N°
(Rule A.10.2) SUI 558

ISAF Sticker No	4045	Builder	Wilke
Other Hull Identifying Numbers	CH-WILF3487D133 41387	Date completed	1. May 2013
Date of this measurement	2. May 2013	Date of first measurement	2. May 2013
Corrector weights Position 340 Amount 3,0 kg	(Include dist from Stn.0) 3070 Amount 2x1,0 kg	Position Amount kg	Position Amount kg
Fittings etc. such as Compass (not Digital), Hiking pads. Item weight not required.			
Centreboard Certification Mark and Unique Number	C 4045	Weight of hull plus centreboard	116.0 kg
Weight of Centreboard	12,370 kg	λ from Stn 0 to C of G	2115 mm
T_1	3,1896 sec	**d** (App.H.3)	870 mm
T_2	3,5715 sec	**a** (App.H.3)	C47 mm
Radius of gyration ρ	1103,419 mm	**h** CG above underneath of hull	223 mm
Official Measurer (Please print)	Reichen	Appointed by	**SWISS SAILING** Measurer No 08
Hull and Centreboard comply with **fundamental measurement** requirements.		Official Measurer (Please sign)	Beat Reichen

Registered by Certifying Authority:

Im Swiss Sailing-Register eingetragen am
26. JUNI 2013
Stamp and date of registration

OWNER

Name Jiri Huracek
Address Alter Oberländerweg 54
City Code Nation CH 3653 Oberhofen
Club TYC 34433

Geprüft durch: 24.6.13 **Please use Black Ink** 19 June 2009

SWISS SAILING
Tech Zentrale Jollen
Urs Wyler

INTERNATIONAL FINN CLASS MEASUREMENT FORM
2011 Edition
To be used in conjunction with the Class Rules and the Measurement Certificate (Hull and Centreboard)

ISAF Sticker Number 4045

Official Measurer for Section D (hull with centreboard)			
Date	Please Print Name	Signature	Appointed by
02. May 2013	Reichen		Swiss Sailing

SWISS SAILING
Measurer No 08
Beat Reichen

Official Measurer for the centreboard (Sections E.1 and E.2 except E.2.5 (b))			
Date	Please Print Name	Signature	Appointed by
02. May 2013	Reichen		Swiss Sailing

Hull Templates						
Identifier	0	2	4	6	8	Stem
	←	—	Swiss Sailing	—	—	→

IDENTIFICATION AND GENERAL			
Item	**Rule**	**Entry**	**Requirement**
ISAF Sticker attached to hull	D.2.4	4045	Enter number, (also at top of form)
Other Identifiers		CH-WILF 3487 D 133 41387	Number & Place of numbers moulded in hull etc
Boat complete as for Swing Test	D.9.2 (a)	complies	"Complies"
Hull Materials	D.3.1	GRP / complies	Description/ "Complies"
Hull Construction	D.3.2 & diagrams	complies	"Complies"

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HULL BOTTOM UP					
Item	Rule	< (min)	Entry	< (max)	Requirement
Hull length	D.9.1	4480<	4508	<4510	Number, mm
Transom forward of Station 0:	"		0	<5	Number, mm
No hollows, knuckles or chines	D.3.2 (e),(f)		complies		"Complies"
Baseline below hull shell: at station 1	D.9.1 & diagrams	147<	155	<157	Number, mm
at station 2	D.9.1	99<	110	<119	Number, mm
at station 4	"	35<	37	<55	Number, mm
at station 6	"	6<	10	<26	Number, mm
Stem profile (outside stem band) to template:	D.9.1 & diagram		5	<10	Number, mm
Sheer above position marked on stem template:	D.9.1 & diagram	-10<	-9	<+10	+ Number means more freeboard
Keel band and Stem band construction	D.8 & diagram		comply		"Comply"
Keel band Section radius	D.9.1	6, half round<	6		Number, mm
Stem band (for'd of Section 8) radius	"	6<	6		Number, mm
Centreboard case construction	D.3.2 (c)(d)(e)		complies		"Complies"
Centreboard Case slot width	D.9.1	8<	10	<12	Number, mm
Centre of centreboard pivot pin above underside of keel	"	40<	49	<50	Number, mm
Fore and aft adjustment for centreboard pivot pin	"		0	<20	Number, mm

SECTION TEMPLATES							
Item	Rule	Entry					Requirement
		< (min)	Port	< (max)	< (min)	Starboard	< (max)	
Hull shell to hull template: at station 0	D.9.1 & diagram		9	<10		9	<10	Number, mm
at station 2	"		9	<10		7	<10	Number, mm
at station 4	"		10	<10		10	<10	Number, mm
at station 6	"		8	<10		7	<10	Number, mm
at station 8	"		8	<10		8	<10	Number, mm
Sheerline above position marked on template: at station 0	D.9.1 & diagram	-10<	-7	<+10	-10<	-7	<+10	+ Number means more freeboard
at station 2	"	-10<	9	<+10	-10<	9	<+10	Number, mm
at station 4	"	-10<	9	<+10	-10<	9	<+10	Number, mm
at station 6	"	-10<	6	<+10	-10<	6	<+10	Number, mm
at station 8	"	-10<	-1	<+10	-10<	-1	<+10	Number, mm

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DECK AND COCKPIT					
Item	**Rule**	**< (min)**	**Entry**	**< (max)**	**Requirement**
Deck General Arrangement	D.4.1		complies		"Complies"
Length of foredeck	D.9.1 & diagram	1350<	1350	<1450	Number, mm
Length of aft deck		550<	650	<650	Number, mm
Distance between side decks or built in tanks and the centreplane: at station 2	D.4, diagram & D.9.1	410<	430		**Minimum Half-width** Number, mm
at station 3	"	500<	500		Number, mm
at station 4	"	490<	490		Number, mm
at station 5	"	440<	440		Number, mm
Distance between side decks or built in tanks and the centreplane, at some point between the **sheerline** and 100 mm below the **sheerline:** At Station 2	D.4, diagram & D.9.1		434	<520	**Maximum Half-width** Number, mm
at station 3	"		504	<560	Number, mm
at station 4	"		495	<550	Number, mm
at station 5	"		495	<500	Number, mm
Top of the deck at centreplane above the **sheer** at station 0	"	45<	45	<55	Number, mm
Top of the deck at centreplane above a straight line between the stemhead and station 0	D.4, diagram & D.9.1	-10<	complies	<+10	"Complies"
Pads or recesses to mount or locate fittings	D.4.1 (d), D.9.1	-10<	complies	<+10	"Complies"

DECK AND COCKPIT DETAILS					
Item	**Rule**	**< (min)**	**Entry**	**< (max)**	**Requirement**
Number of buoyancy units	D.5.2	4<	4		Number, "Complies"
Construction of buoyancy units	D.5.2		complies		"Complies"
Buoyancy Inspection and Testing	D.5.3 D.9.1		satisfied		Details of any tests carried out. "Satisfied".
Gunwale Rubbing Strakes	D.6 & diagram, D.9.1		complies		"Complies"
G.R.S. depth (down from the sheerline around the hull)		20<	20	<35	Number, mm
" width (at a right angle to the shell)		20<	25	<25	Number, mm

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DECK AND COCKPIT DETAILS					
Item	**Rule**	**(min) < Entry < (max)**			**Requirement**
Floorboard/Double Bottom construction	D.7	complies			"Complies"
Width of floorboards at station 2	D.7, D.9.1	800<	860		Number, mm
at station 3	"	880<	1000		Number, mm
at station 4	"	720<	980		Number, mm
Floorboards or double bottom below sheer at station 2	D.7, D.9.1	285<	290		Number, mm
at station 3	"	325<	344		Number, mm
at station 4	"	375<	400		Number, mm
(if fitted) at station 5	"	375<	413		Number, mm
(if fitted) at station 6	"	390<	426		Number, mm
Thwart depth	D.9.1	16<	~~26~~	<50	Number, mm
" width	"	70<	80	<80	Number, mm
" aft side forward of station 0	"	1950<	2050	<2050	Number, mm
Top of thwart below sheer	"		56	<130	Number, mm
Overall width of centreboard case	"		100	<100	Number, mm
Mainsheet traveller block: Travel from centreplane of boat	"		540	<550	Number, mm
Travel forward of station 4	"		100	<150	Number, mm
Distance from mast heel to underside of keel band	"		39	<56	Number, mm
Mast bearing surface above deck	"		0	<10	Number, mm
Horizontal play in mast bearings (not play between mast and bearing)	"	Upper 5 <5		Lower 0 <5	Number, mm
Fittings to have a reasonable weight	C.7.3 (e) (4)	complies			"Complies"
Fittings information recorded on certificate if necessary	C.7.3 (e) (5)	n/a			"Entered" or "N/A"

TRANSOM DETAILS					
Item	**Rule**	**(min) < Entry < (max)**			**Requirement**
Holes, Number & Diameter	D.9.1	complies			"Complies"
Bearing at Pintle above **hull datum point**	"	52<	54	<57	Number, mm
Bearing at Gudgeon above **hull datum point**	"	262<	267	<267	Number, mm
Axis of Pintle aft of Station 0 (α)	"	10<	20	<30	Number, mm
Axis of Gudgeon aft of Stn. 0 (β)	"	10<	22	<30	Number, mm
Difference between (α) and (β)	"	0<	2	<2	Number, mm
Dia. of Pintle & Gudgeon Hole	"	7.9<	8	<8.1	Number, mm

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CENTREBOARD					
Item	Rule	< (min)	Entry	< (max)	Requirement
Centreboard identifying number	E.2.2 (a)		C 4045		Number
Centreboard materials	E.2.3		complies		"Complies"
Centreboard arm complies with diagram requirements	E.2.5 (a) & diagram		complies		"Complies"
Centreboard large radius	"	885<	895	<895	Number, mm
" small radius	"	30<	39	<40	Number, mm
" chord length	"	815<	825	<825	Number, mm
" nominal thickness	"	8<	8	<8	Number, mm
" edge shaping distance	"		25	<25	"Complies"
Centreboard Mass including buffer stop	E.2.4 (a)(1) E.2.6	11·0<	12,370	<13·0	Number, kg
Certification mark fixed, signed & dated	E.2.2		complies		"Complies"

HULL WITH CENTREBOARD					
Item	Rule	< (min)	Entry	< (max)	Requirement
Centreboard hole diameter larger than pivot pin diameter	E.2.5 (b)		0	<2	Number, mm
Centreboard theoretical reference point below hull shell	"		699	<700	
Hull datum point to centreboard (pivot pin at maximum aft position)	"	2050<	2050		
Centreboard projection below hull shell when fully raised	"		none		"None"
Centreboard Certification Mark details and number entered on Measurement Certificate (Hull and Centreboard)	D.2.1		entered		"Entered"
Correct condition for weighing	D.9.2 (a)		complies		"Complies"
Mass of hull and centreboard	D.9.2 (b)	116·0<	116.0		Number, kg
Mass of correctors	D.9.4 (b)		3 pieces 5kg	<5·00	Number, kg
Period of oscillations	D.9.3(b)(iii)	T_1 3.1896	T_2 3.5715		sec, 3 decimals
Distance λ from Stn 0 to C of G	D.9.3 (c)	2100<	2115	<2290	Number, mm
C of G above underneath of hull	"	210<	223		Number, mm
Radius of gyration ρ	"	1100<	1103,419		"Complies"
Corrector weights securely fastened	D.9.4 (a)		complies		"Complies"
Corrector and other weight details entered on certificate	D.9.4 (b)		entered		"Entered"

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