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 4165

Official Measurer for Section D (hull with centreboard)			
Date	Please Print Name	Signature	Appointed by
27-05-2014	Reichen		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
27-05-2014	Reichen		SWISS SAILING Measurer No 08 Beat Reichen

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	4165	Enter number, (also at top of form)
Other Identifiers		CH-WILF 471 E 414	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"

14.2.18 Geprüft durch: SWISS SAILING Tech Zentrale Jollen Urs Wyler

Im Swiss Sailing-Register eingetragen am 20. FEB. 2018

HULL BOTTOM UP					
Item	Rule	< (min)	Entry	< (max)	Requirement
Hull length	D.9.1	4480<	4510	<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<	50	<50	Number, mm
Fore and aft adjustment for centreboard pivot pin	"		5	<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		10	<10		10	<10	Number, mm
at station 2	"		10	<10		10	<10	Number, mm
at station 4	"		10	<10		10	<10	Number, mm
at station 6	"		9	<10		9	<10	Number, mm
at station 8	"		9	<10		9	<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<	10	<+10	Number, mm
at station 4	"	-10<	10	<+10	-10<	10	<+10	Number, mm
at station 6	"	-10<	6	<+10	-10<	6	<+10	Number, mm
at station 8	"	-10<	0	<+10	-10<	0	<+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		435	<520	**Maximum Half-width** Number, mm
at station 3	"		505	<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<	295			Number, mm
at station 3	"	325<	345			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<	20		<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	"		40		<56	Number, mm
Mast bearing surface above deck	"		6		<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)	entered				"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

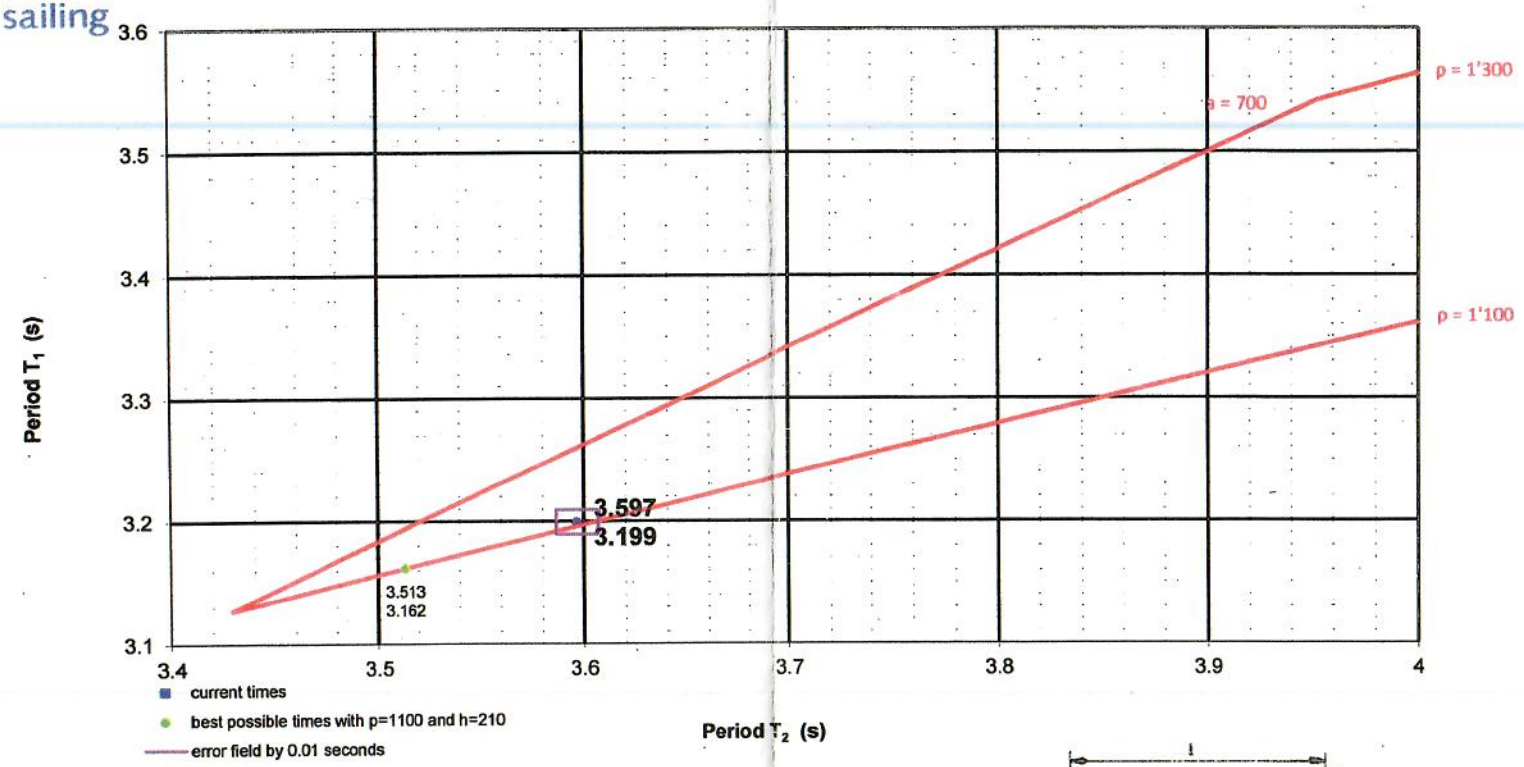
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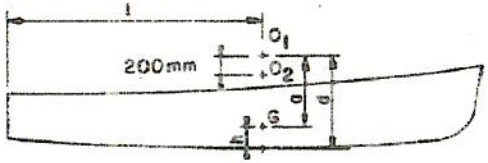
SUI sailing

Period T_1 vs. Period T_2



ISAF:	4165	T_1	T_2				
		3.199	3.597				
		ρ	h	a	d	λ St0 to CG	
Weight:	116.000	1'101.880	238	637	875	2'100	
	>116	>1100	>210			2100-2290	

Correctors:		
Amount kg	4.370	0.630
Position (St0) mm	160	3095



calculted with g
9.8042

Temperature	Pressure (QFE)	Humidity	Height above sealevel	Density (site)	Difference to ISA-Density site
22	947.5	52%	563	1.113	-4.07%
°C	hPa		m	kg/m³	kg/m³
QFF	1'010.6				

Density (normal conditions, laboratory conditions; T_{20}, 1013hPa)

1.204 kg/m³	Dry Air	1.204 kg/m³	Humidity 52%
		QFF	1'013.2

difference drag to Southampton (ISA dry air) 4.90%

ISA Leissigen: 11.34°C, 947.43 hPa, 0% rH

Time measuring device: TAG Heuer Minitimer HL440, Photocell Hesotec AG "Budget"

TAG Heuer VOLA

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