# 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** 4164

| Official Measurer for Section D (hull with centreboard) | | | |
|---|---|---|---|
| Date | Please Print Name | Signature | Appointed by |
| 16-5-2014 | 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 |
| 16-5-2014 | 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 | 4164 | Enter number, (also at top of form) |
| Other Identifiers | | CH WILF 4699 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" |

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| 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< | 150 | <157 | Number, mm |
| at station 2 | D.9.1 | 99< | 110 | <119 | Number, mm |
| at station 4 | " | 35< | 38 | <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< | - 8 | <+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 | " | | 9 | <10 | | 9 | <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< | - 8 | <+10 | -10< | - 8 | <+10 | + Number means more freeboard |
| at station 2 | " | -10< | 10 | <+10 | -10< | 10 | <+10 | Number, mm |
| at station 4 | " | -10< | 10 | <+10 | -10< | 10 | <+10 | Number, mm |
| at station 6 | " | -10< | 7 | <+10 | -10< | 7 | <+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 complies | | 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< 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< 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 | " | 55 <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 | " | 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) | 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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| CENTREBOARD | | | | | |
|---|---|---|---|---|---|
| Item | Rule | < (min) | Entry | < (max) | Requirement |
| Centreboard identifying number | E.2.2 (a) | | C 4164 | | 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< | 30 | <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< | 12,67 | <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) | | 6 | <2 | Number, mm |
| Centreboard theoretical reference point below hull shell | " | | 700 | <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) | | 4 / 5,000 | <5·00 | Number, kg |
| | | | | | |
| Period of oscillations | D.9.3(b)(iii) | | $T_1$ 3,1913 \| $T_2$ 3,5764 | | sec, 3 decimals |
| Distance λ from Stn 0 to C of G | D.9.3 (c) | 2100< | 2100 | <2290 | Number, mm |
| C of G above underneath of hull | " | 210< | 230 | | Number, mm |
| Radius of gyration ρ | " | 1100< | complies | | "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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