ISAF 3781

INTERNATIONAL FINN CLASS MEASUREMENT FORM
2009 Edition
To be used in conjunction with the Class Rules and the Measurement Certificate (Hull and Centreboard)

ISAF Sticker Number 3781

Official Measurer for Section D (hull with centreboard)			
Date	Please Print Name	Signature	Appointed by
22-7-10	G. CURREY		RFA

Official Measurer for the centreboard (Sections E.1 and E.2 except E.2.5 (b))			
Date	Please Print Name	Signature	Appointed by
22-7-10	G. Currey		RFA

Hull Templates						
Identifier	0	2	4	6	8	Stem
	←	KOREA	MASTER SET		→	

IDENTIFICATION AND GENERAL			
Item	Rule	Entry	Requirement
ISAF Sticker attached to hull	D.2.4	YES 3781	Enter number, (also at top of form)
Other Identifiers		HTJ H006 EE 010	Number & Place of numbers moulded in hull etc
Boat complete as for Swing Test	D.9.2 (a)	Comp	"Complies"
Hull Materials	D.3.1	GRP / Comp	Description/ "Complies"
Hull Construction	D.3.2 & diagrams	Comp	"Complies"

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HULL BOTTOM UP					
Item	Rule	< (min)	Entry	< (max)	Requirement
Hull length	D.9.1	4480<	4504	<4510	Number, mm
Transom forward of Station 0:	"		3.0	<5	Number, mm
No hollows, knuckles or chines	D.3.2 (e),(f)		Comp		"Complies"
Baseline below hull shell: at station 1	D.9.1 & diagrams	147<	156	<157	Number, mm
at station 2	D.9.1	99<	112	<119	Number, mm
at station 4	"	35<	49	<55	Number, mm
at station 6	"	6<	16	<26	Number, mm
Stem profile (outside stem band) to template:	D.9.1 & diagram		7	<10	Number, mm
Sheer above position marked on stem template:	D.9.1 & diagram	-10<	+5	<+10	+ Number means more freeboard
Keel band and Stem band construction	D.8 & diagram		Comp		"Comply"
Keel band Section radius	D.9.1	6, half round<	6 mm		Number, mm
Stem band (for'd of Section 8) radius	"	6<	6 mm		Number, mm
Centreboard case construction	D.3.2 (c)(d)(e)		Comp		"Complies"
Centreboard Case slot width	D.9.1	8<	9.5	<12	Number, mm
Centre of centreboard pivot pin above underside of keel	"	40<	44.5	<50	Number, mm
Fore and aft adjustment for centreboard pivot pin	"		19.0	<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	8.5		<10	8.5	<10	Number, mm
at station 2	"	9.0		<10	9.0	<10	Number, mm
at station 4	"	7.0		<10	7.1	<10	Number, mm
at station 6	"	5.0		<10	6.0	<10	Number, mm
at station 8	"	4.0		<10	5.0	<10	Number, mm
Sheerline above position marked on template: at station 0	D.9.1 & diagram	-10<	-9	<+10	-10<	-8 <+10	+ Number means more freeboard
at station 2	"	-10<	0	<+10	-10<	+4 <+10	Number, mm
at station 4	"	-10<	+6	<+10	-10<	+2 <+10	Number, mm
at station 6	"	-10<	-3	<+10	-10<	-7 <+10	Number, mm
at station 8	"	-10<	-2	<+10	-10<	+7 <+10	Number, mm

DECK AND COCKPIT					
Item	Rule	< (min)	Entry	< (max)	Requirement
Deck General Arrangement	D.4.1		Comp		"Complies"
Length of foredeck	D.9.1 & diagram	1350<	1375	<1450	Number, mm
Length of aft deck		550<	608	<650	Number, mm
Distance between side decks or built in tanks and the centreplane: at station 2	D.4, diagram & D.9.1	410<	450		**Minimum Half-width** Number, mm
at station 3	"	500<	510		Number, mm
at station 4	"	490<	503		Number, mm
at station 5	"	440<	455		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		450	<520	**Maximum Half-width** Number, mm
at station 3	"		510	<560	Number, mm
at station 4	"		503	<550	Number, mm
at station 5	"		455	<500	Number, mm
Top of the deck at centreplane above the **sheer** at station 0	"	45<	51	<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<	-10 Comp	<+10	"Complies"
Pads or recesses to mount or locate fittings	D.4.1 (d), D.9.1	-10<	0 Comp	<+10	"Complies"

DECK AND COCKPIT DETAILS					
Item	Rule	< (min)	Entry	< (max)	Requirement
Number of buoyancy units	D.5.2	4<	4 comp		Number, "Complies"
Construction of buoyancy units	D.5.2		comp		"Complies"
Buoyancy Inspection and Testing	D.5.3 D.9.1		Pressure test + Inspection		Details of any tests carried out. "Satisfied".
Gunwale Rubbing Strakes	D.6 & diagram, D.9.1		Comp		"Complies"
G.R.S. depth (down from the sheerline around the hull)		20<	23	<35	Number, mm
" width (at a right angle to the shell)		20<	23	<25	Number, mm

DECK AND COCKPIT DETAILS						
Item	Rule	(min) <	Entry	< (max)		Requirement
Floorboard/Double Bottom construction	D.7		Comp			"Complies"
Width of floorboards at station 2	D.7, D.9.1	800<	870			Number, mm
at station 3	"	880<	995			Number, mm
at station 4	"	720<	975			Number, mm
Floorboards or double bottom below sheer at station 2	D.7, D.9.1	285<	293			Number, mm
at station 3	"	325<	334			Number, mm
at station 4	"	375<	375			Number, mm
(if fitted) at station 5	"	375<	424			Number, mm
(if fitted) at station 6	"	390<	430			Number, mm
Thwart thickness	D.9.1	16<	26	<26		Number, mm
" width	"	70<	78	<80		Number, mm
" aft side forward of station 4	"	-10<	45	<50		Number, mm
Top of thwart below sheer	"		92	<130		Number, mm
Overall width of centreboard case	"		96	<100		Number, mm
Mainsheet traveller block: Travel from centreplane of boat	"		550	<550		Number, mm
Travel forward of station 4	"		4	<150		Number, mm
Distance from mast heel to underside of keel band	"		51	<56		Number, mm
Mast bearing surface above deck	"		3	<10		Number, mm
Horizontal play in mast bearings (not play between mast and bearing)	"	Upper 5.0	<5	Lower 1.0	<5	Number, mm
Fittings to have a reasonable weight	C.7.3 (e) (4)		Comp			"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		Comp			"Complies"
Bearing at Pintle above **hull datum point**	"	52<	52	<57		Number, mm
Bearing at Gudgeon above **hull datum point**	"	262<	267	<267		Number, mm
Axis of Pintle aft of Station 0 (α)	"	10<	21	<30		Number, mm
Axis of Gudgeon aft of Stn. 0 (β)	"	10<	21	<30		Number, mm
Difference between (α) and (β)	"	0<	0	<2		Number, mm
Dia. of Pintle & Gudgeon Hole	"	7.9<	8.0	<8.1		Number, mm

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CENTREBOARD					
Item	Rule	< (min)	Entry	< (max)	Requirement
Centreboard identifying number	E.2.2 (a)	HTS 3781			Number
Centreboard materials	E.2.3	Comp			"Complies"
Centreboard arm complies with diagram requirements	E.2.5 (a) & diagram	Comp			"Complies"
Centreboard large radius	"	885<	886	<895	Number, mm
" small radius	"	30<	31	<40	Number, mm
" chord length	"	815<	824	<825	Number, mm
" nominal thickness	"	8<	8	<8	Number, mm
" edge shaping distance	"		24	<25	"Complies"
Centreboard Mass including buffer stop	E.2.4 (a)(1) E.2.6	11·0<	11·00	<13·0	Number, kg
Certification mark fixed, signed & dated	E.2.2	Comp IFA6			"Complies"

HULL WITH CENTREBOARD					
Item	Rule	< (min)	Entry	< (max)	Requirement
Centreboard hole diameter larger than pivot pin diameter	E.2.5 (b)		2·0	<2	Number, mm
Centreboard theoretical reference point below hull shell	"		699	<700	
Hull datum point to centreboard (pivot pin at maximum aft position)	"	2050<	2065		
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		HTS 3781 IFA 6 "STAMPED"		"Entered"
Correct condition for weighing	D.9.2 (a)		Comp.		"Complies"
Mass of hull and centreboard	D.9.2 (b)	116·0<	116·00		Number, kg
Mass of correctors	D.9.4 (b)		5·00	<5·00	Number, kg
Period of oscillations	D.9.3(b)(iii)	T_1 32·00		T_2 36·05	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<	236		Number, mm
Radius of gyration ρ	"	1100<	1100		"Complies"
Corrector weights securely fastened	D.9.4 (a)		Comp		"Complies"
Corrector and other weight details entered on certificate	D.9.4 (b)		Entered		"Entered"

