14 Hughes

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 4311

Official Measurer for Section D (hull with centreboard)			
Date	Please Print Name	Signature	Appointed by
30/4/15	JOHN TORRANCE		RYA

Official Measurer for the centreboard (Sections E.1 and E.2 except E.2.5 (b))			
Date	Please Print Name	Signature	Appointed by
30/4/15	JOHN TORRANCE		RYA

Hull Templates						
Identifier	0	2	4	6	8	Stem
	BSC 10/02/09 JS 16/02/09	"	"	"	"	"

IDENTIFICATION AND GENERAL			
Item	**Rule**	**Entry**	**Requirement**
ISAF Sticker attached to hull	D.2.4	4311	Enter number, (also at top of form)
Other Identifiers		GBRETFN14D1515 Stbd. transom	Number & Place of numbers moulded in hull etc
Boat complete as for Swing Test	D.9.2 (a)	COMPLIED	"Complies"
Hull Materials	D.3.1	GRP COMPLIES	Description/ "Complies"
Hull Construction	D.3.2 & diagrams	COMPLIES	"Complies"

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<	150	<157	Number, mm
at station 2	D.9.1	99<	107	<119	Number, mm
at station 4	"	35<	41	<55	Number, mm
at station 6	"	6<	9	<26	Number, mm
Stem profile (outside stem band) to template:	D.9.1 & diagram		6	<10	Number, mm
Sheer above position marked on stem template:	D.9.1 & diagram	-10<	-10	<+10	+ Number means more freeboard
Keel band and Stem band construction	D.8 & diagram		COMPLIES		"Comply"
Keel band Section radius	D.9.1	6, half round<	6.1		Number, mm
Stem band (for'd of Section 8) radius	"	6<	6.1		Number, mm
Centreboard case construction	D.3.2 (c)(d)(e)		COMPLIES		"Complies"
Centreboard Case slot width	D.9.1	8<	8.9	<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	"		19	<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	0	10	<10	0	10	<10	Number, mm
at station 2	"	0	9	<10	0	9	<10	Number, mm
at station 4	"	0	9	<10	0	9	<10	Number, mm
at station 6	"	0	9	<10	0	9	<10	Number, mm
at station 8	"	0	8	<10	0	8	<10	Number, mm
Sheerline above position marked on template: at station 0	D.9.1 & diagram	-10<	+2	<+10	-10<	+2	<+10	+ Number means more freeboard
at station 2	"	-10<	+8	<+10	-10<	+8	<+10	Number, mm
at station 4	"	-10<	+9	<+10	-10<	+9	<+10	Number, mm
at station 6	"	-10<	-2	<+10	-10<	-2	<+10	Number, mm
at station 8	"	-10<	-9	<+10	-10<	-9	<+10	Number, mm

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<	1421	<1450	Number, mm
Length of aft deck		550<	551	<650	Number, mm
Distance between side decks or built in tanks and the centreplane: at station 2	D.4, diagram & D.9.1	410<	446		**Minimum Half-width** Number, mm
at station 3	"	500<	502		Number, mm
at station 4	"	490<	492		Number, mm
at station 5	"	440<	443		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		449	<520	**Maximum Half-width** Number, mm
at station 3	"		506	<560	Number, mm
at station 4	"		502	<550	Number, mm
at station 5	"		444	<500	Number, mm
Top of the deck at centreplane above the **sheer** at station 0	"	45<	48	<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<	21	<35	Number, mm
" width (at a right angle to the shell)		20<	24	<25	Number, mm

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< 819			Number, mm
at station 3	"	880< 932			Number, mm
at station 4	"	720< 910			Number, mm
Floorboards or double bottom below sheer at station 2	D.7, D.9.1	285< 306			Number, mm
at station 3	"	325< 346			Number, mm
at station 4	"	375< 384			Number, mm
(if fitted) at station 5	"	375< 381			Number, mm
(if fitted) at station 6	"	390< 396			Number, mm
Thwart depth	D.9.1	16< 24		40<50	Number, mm
" width	"	70< 78		<80	Number, mm
" aft side forward of station 0	"	1950< 1964	2030	<2050	Number, mm
Top of thwart below sheer	"	82		<130	Number, mm
Overall width of centreboard case	"	99		<100	Number, mm
Mainsheet traveller block: Travel from centreplane of boat	"	510		<550	Number, mm
Travel forward of station 4	"	91		<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 5 <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<	52	<57	Number, mm
Bearing at Gudgeon above **hull datum point**	"	262<	263	<267	Number, mm
Axis of Pintle aft of Station 0 (α)	"	10<	30	<30	Number, mm
Axis of Gudgeon aft of Stn. 0 (β)	"	10<	30	<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

CENTREBOARD					
Item	**Rule**	**< (min)**	**Entry**	**< (max)**	**Requirement**
Centreboard identifying number	E.2.2 (a)		14		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<	889	<895	Number, mm
" small radius	"	30<	32	<40	Number, mm
" chord length	"	815<	820	<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<	12·4	<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)		2	<2	Number, mm
Centreboard theoretical reference point below hull shell	"		694	<700	
Hull datum point to centreboard (pivot pin at maximum aft position)	"	2050<	2071		
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)		4.4	<5·00	Number, kg
Period of oscillations	D.9.3(b)(iii)	T_1 3·309	T_2 3·753		sec, 3 decimals
Distance λ from Stn 0 to C of G	D.9.3 (c)	2100<	2103	<2290	Number, mm
C of G above underneath of hull	"	210<	247		Number, mm
Radius of gyration ρ	"	1100<	1106·99 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"