

International Cadet Class

Altered / Repaired Hull Measurement Supplement 2005

INTRODUCTION

This supplement is to be used to conform to ICC Rule A.13.6 following any alterations, replacements or repairs. The supplement is mostly stand-alone, however it makes cross-references to the Class Rules. Therefore, Measurers must be familiar with them.

MEASUREMENT INSTRUCTIONS

The purpose with such measurement is to ensure that there has been no accidental or deliberate distortion of the hull and that fittings have been correctly placed. Foils, spars and sails should be measured in accordance with class rules.

The registration form with the measurement forms attached must be sent to the MNA / NCCA as appropriate, by the measurer. The measurer must retain file copies. The registration form when fully complete must be sent by the measurer to the authority issuing the class certificate. The authority will then provide the owner with a photocopy of the measurement form and a class certificate.

Each hull must conform to ICC Rule D.7.1(b).

Measurements of cleats and fairleads are taken to the bearing surfaces. Each hull must be individually weighed in accordance with Rule D.11.2 and D.11.3.

Datum Points and Lines

- Datum point “A” is the intersection of the projection of the aft transom with the deck at the centreline. Datum line “A” runs through Datum point “A” and is at right angles to Datum line “B”.
- Datum line “B” is the horizontal baseline.
- Datum line “C” is the projected intersection of hull with deck and is used for beam measurements.
- Datum line “C” should be established using a straight edge with a keyhole cut out for the gunwhale.
- Deck measurements should be taken along the deck.

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MEASUREMENT FORM

SHEET 1

Measurements	Min. mm	Actual		Max. mm
		Port	Starboard	
Datum line "B" to: Keel at Section 3, 2134mm from Datum line "A".	-	-	76	-
Keel at Section 8, 610mm from Datum line "A"...	-	-	140	-
Note: - leave marks at Section 3 and 8 for deck level beam measurements				
Datum line "B" to: Keel at fore transom.....	331	-	-	361
Chine at fore transom.....	359			383
Gunwale at fore transom.....	680			707
Beam of fore transom at chine.....	152	-	-	168
Datum line "B" to keel at Section 1, 2743mm from Datum line "A"....	184	-	-	208
Datum line "B" to: Chine at Section 3.....	189			205
Gunwale at Section 3.....	575			599
Beam of Section 3 at chine.....	928	-	-	952
Datum line "B" to: Keel at Section 5, 1524mm from Datum line "A"	58	-	-	75
Chine at Section 5.....	195			211
Beam of Section 5 at chine.....	1080	-	-	1104
Datum line "B" to: Chine at Section 8.....	263			279
Gunwale at Section 8.....	502			526
Beam of Section 8 at chine.....	1004	-	-	1028
Datum line "B" to: Keel at aft transom.....	202			224
Chine at aft transom.....	306			328
Gunwale at aft transom.....	490			520
Beam of aft transom at chine.....	839	-	-	863
Beam of aft transom at Datum line "C".....	934	-	-	958
Datum line "A": to forward end of skeg.....	965	-	-	1005
to forward edge of centreboard slot.....	1835	-	-	1885
to aft edge of centreboard slot.....	1518	-	-	1568
to aft edge of keel.....	46	-	-	56
Width of skeg, upper surface aft.....	38	-	-	-
Width of skeg, lower surface.....	19	-	-	-
Depth of skeg at aft end – including rubbing band.....	79	-	-	-
Chine angle at Section 3.....	114°			122°
Chine angle at Section 8.....	114°			122°
			✓ or ✗	
Radius at fore end of keel.....	20	-	-	30
Radius at aft end of skeg.....	20	-	-	30
Width of keel throughout length.....	76	-	-	-
Thickness of keel throughout length.....	11	-	-	-
Radius at edges of keel throughout its length.....	-	-	-	10
Radius where skin meets keel Rule D.8.1(a).....	-	-	-	6
Rounding of chines per Rule D.5.1(a).....	-	-	-	4
Top of centreboard case to underside of keel at middle of case.....	290	-	-	-
Width of centreboard case and keel slot.....	15	-	-	-
Cross section of rubbing bands on keel and chines.....	10 x 2	-	-	-
Do rubbing bands conform to rule D.8.2.....	-	-	-	-
Length of rubbing band on each chine – positioned a minimum of 600mm from the stern transom.	1219	-	-	-

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MEASUREMENT FORM SHEET 2

Measurements	MIN mm	ACTUAL mm	MAX mm
Datum point "A" to:			
Datum line "C" at bow transom on centreline.....	3201		3251
Aft side of forward bulkhead at deck level.....	2120		2170
Aft edge of thwart (excluding mainsheet mount).....	1416		1470
Beam (between Datum line "C") at Section 3.....	1125		1155
Beam (between Datum line "C") at Section 8.....	1125		1155

Weight of hull (54Kg Min).....			
Do spray guards conform to D.11.1(a)(ii)			
Has a satisfactory buoyancy test been completed?.....			
Is the hull number permanently marked on the port side of transome in figures 25mm min high?.....			
Has the ISAF Plaque been fixed to hull (post 1991 numbers)?.....			
		✓ or ✗	
Top of deck of centreline of fore transom to centre of towing fitting (230 mm min).....			
Do measurements of mast step block conform? (length 73 –79 mm, width 55-75 mm, thickness 20mm max, central socket 29 x 29 mm).....			
Datum point "A" to aft side of central socket (2165 mm min and 2205 mm max).....			
Upper face of maststep block to shear line (46 mm max).....			
A bow plate to attach the forestay and foresail must be fitted on the centreline at the bow such that the tack point for the foresail must be aft and a maximum of 50 mm from Datum line "C"....			
Halyard cleats for the mainsail and headsail must be fixed on the forward bulkhead near the centreline.....			
Attachment points for the mainsheet must be fixed 254 mm ± 10mm either side of the centre line at the aft transom.....			
Transom gudgeon and pintle for the rudder must be fitted on the centreline and a rudder retaining device must also be fitted.			
A spinnaker halyard shall go through a cleat or fairlead either on the foredeck or on the forward bulkhead within 100mm of deck level. In addition the fall (tail) of the halyard may be led through no more than two fairleads or single blocks. One cleat may be fitted in any position.....			
Toestraps must be fixed in the hull for the crew and helm. They may be fixed or adjustable...the toe strap webbing may be of optional length and width.....			
Shock cord must be fitted and fixed at either end to retain the centreboard in the down position...			
Measured along the deck:	Min	Max	
Datum "A" to :			
Cleats for spinnaker sheets.....	690	1120	
Fairleads for spinnaker sheets.....	690	1120	
Centre of shroud plate or "U" bolt.....	1813	1863	
Bearing surface of headsail sheet fairleads.....	1735	1865	
Datum line "C" to outer edge of headsail sheet fairleads		50	
Headsail sheet cam cleats inboard of fairleads.....	1735		
Does the centre of gravity of hull conform?.....			
Do optional fittings conform – see Rules D.11.1 (b) (iii), (vi), (x), (xi) and (xii)			
Are all fittings securely fastened?.....			
Are there any additional fittings?.....			

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REGISTRATION FORM

This form when completed should be forwarded by the Measurer to the MNA / National Association as appropriate with the current fee for the issue of the Certificate. **(BLOCK CAPITALS PLEASE)**

1. Name of Boat.....Sail No..... ISAF Plaque No.....
2. Owner's Family Name.....
3. Owner's First Name.....
4. Home Address.....
.....
5. Club or Squadron.....

6. I certify that I have checked the outside hull, deck level and fittings measurements in accordance with the Class Rules of measurement and that they comply in every detail with the rules and any official amendment currently in force, and with the measurement diagrams insofar as the rules require on :
Hull number ISAF Plaque No.....,
and that they are within tolerances allowed .

Measurer's Name.....Signature:.....Date:.....

Status:.....

Address:.....

USE BLOCK CAPITALS

7. SPARS AND FOIL MEASUREMENT DECLARATION

I certify that I have measured the mast, boom, spinnaker boom, centreboard, rudder, standing and running rigging in accordance with Class Rules of measurement and that they comply in every detail with the rules and any official amendment currently in force, and with the measurement diagrams insofar as the rules require.

Measurer's NameSignature.....Date.....

Status.....

Address.....

8. SAIL MEASUREMENT DECLARATION

I certify that I have measured the sails in accordance with Class Rules of measurement and that they comply in every detail with the rules and any official amendment currently in force, and with the measurement diagrams insofar as the rules require.

Measurer's NameSignature.....Date.....

Status.....

Address.....

RESERVATION

The International Cadet Class reserves the right to refuse a Certificate of Measurement and to withdraw or cancel a Certificate already granted in the case of a boat or boats which, although complying with the letter of the rules, has by reason of the exploitation of an error, omission or mistake in the official plans, measurement diagrams or in the rules, in the opinion of the National or International Committee obtained a material superiority in competitive performance.