

International Sail Number of Yacht: \_ \_ \_ \_ \_

# INTERNATIONAL TEMPEST CLASS MEASUREMENT FORM

Date of International Status: 5th November 1965

Authority: International Sailing Federation (World Sailing)

## IN ORDER TO OBTAIN A CERTIFICATE

1. Application shall be made by the builder to the World Sailing Federation for the World Sailing Building Sticker, the International Tempest Association's ITA Plaque and a measurement form against payment of the International Class Fees according to the ITA Class Rules.
2. The hull measurements marked \* (items 1\* – 40\*) shall be taken by the Measurer appointed by the appropriate National Authority or the International Tempest Association if there is no National Authority and entered on this form before the hull leaves the Licensed Builder's premises.
3. The keel measurements (items 41 – 51) shall be taken by the Measurer appointed by the appropriate National Authority or the International Tempest Association if there is no National Authority and entered on this form.
4. The remaining measurements on assembled hull, keel and rudder (items 52 – 77) shall be taken by an appointed Measurers and need not be taken in conjunction with the items 1\* – 51.
5. The measurements on spars (items 78 – 97) shall be taken by any appointed Measurers and need not be taken in conjunction with items 1\* – 77.
6. The Licensed Builder who moulds and assembles the hull and the Licensed Builder who supplies the keel, or fits out the hull, shall sign the appropriate Declarations at the end of this form.
7. Each Measurer shall sign the appropriate Declaration at the end of this form, adding any comments that may affect the granting of a certificate.
8. The form, when completed, shall be forwarded to the National Authority or the International Tempest Association if there is no National Authority.

**GENERAL NOTES TO MEASURERS**

1. All yachts of the International Tempest Class shall be produced from registered moulds, obtainable only from the central source approved by World Sailing. All such moulds are numbered and issued only to builders licensed by World Sailing. Measurers shall ascertain that this stipulation is complied with.
2. The following measurements shall be taken in accordance with the official Measurement Plan. (If any difference exists between the Plan and the Rules or Measurement Form, the limits laid down by the Measurement Form shall be taken as final).
3. The measuring tape used shall be a steel tape and the machine used for weighing shall be certified correct.
4. The Measurer shall apply the hull templates (H), keel bulb templates (B) and rudder template (R) in accordance with the Measurement Instructions on the Measurement Plan.
5. All measurements are in millimetres unless stated otherwise. Tolerances are in accordance with the respective rules.

**BEFORE SUBMITTING, PLEASE MAKE SURE THAT THIS FORM IS PROPERLY COMPLETED**

Name of Yacht:.....

International Sail Number .....

Builder's Serial Number of Yacht:.....

International Class Fee Receipt No: .....

Owner's Name: .....

Owner's Address: .....

.....

.....

Owner's Club: .....

Moulder's Name: .....

Date Moulded: .....

Registration No. of Mould from which hull was produced: .....

Builder Completing Yacht: .....

Date Yacht Completed:.....

ITEM N°	RULE N°	INTERNATIONAL TEMPEST MEASUREMENT FORM	MIN	ACTUAL	MAX
International Sail Number of Yacht: .....			Date: .....		
Name of Measurer (BLOCK CAPITALS): .....			Signature: .....		
HULL MEASUREMENTS					
1*	D.6.4	Transom horizontal curve	54		66
2*	D.6.4	Radius between skin of boat and surface of transom			6
3*	D.6.4	Angle between the transom and the water line axis of the hull as shown on the Hull Measurement plan.	88.5°		91.5°
4*	D.6.4	Underside of hull at transom on centreline to baseline	330		330
5*	D.6.4	Underside of hull on centreline to baseline at H1	302		308
6*	D.6.4	Underside of hull on centreline to baseline at H2	203		213
7*	D.6.4	Underside of hull on centreline to baseline at H3	127		139
8*	D.6.4	Underside of hull on centreline to baseline at H4	111		121
9*	D.6.4	Underside of hull on centreline to baseline at H5	172		172
10*	D.6.4	Template H1 at 300mm from vertical centreline of transom		Yes / No	
11*	D.6.4	Template H2 at 1520mm from vertical centreline of transom		Yes / No	
12*	D.6.4	Template H3 at 2750mm from vertical centreline of transom		Yes / No	
13*	D.6.4	Template H4 at 4750mm from vertical centreline of transom		Yes / No	
14*	D.6.4	Template H5 at 5500mm from vertical centreline of transom		Yes / No	
15*	D.6.4	Template H6 applied at stem		Yes / No	
16*	D.6.4	Keel slot. Aft end to centreline of transom measured along hull centreline	3290		
17*	D.6.4	Keel slot. Forward end to centreline of transom measured along hull centreline			3865
18*	D.6.4	Distance of top forward corner of rudder blade from centreline of transom	610		650
19*	D.6.4	Overall length (excluding stemhead fitting and overlap of aft deck)			6680
20*	D.6.4	Distance of forward cockpit bulkhead to centreline of transom	4510		4590
* Measurements to be taken before the hull leaves licensed builder's premises					

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International Sail Number of Yacht: .....			Date: .....		
Name of Measurer (BLOCK CAPITALS): .....			Signature: .....		
21*	D.6.4	Distance of the aft cockpit bulkhead to centreline of transom	1490		1535
22*	D.6.4	Shroud plate attachment point, starboard side, to vertical centreline of transom (excluding overlap of aft deck)			3915
23*	D.6.4	Shroud plate attachment point, port side, to vertical centreline of transom (excluding overlap of aft deck)			3915
24*	D.6.4	Shroud plate in each side sealed with a watertight cover plate, distance to outer edge of deck.			20
25*	D.6.4	Curve of the foredeck at the forward cockpit bulkhead	135		155
26*	D.6.4	Cockpit floor depth at the forward cockpit bulkhead	365		385
27*	D.6.4	Curve of the aft deck at the aft cockpit bulkhead, outside cockpit side	35		55
28*	D.6.4	Curve of the aft deck at the aft cockpit bulkhead, inside cockpit side	21		31
29*	D.6.4	Cockpit floor depth at the aft cockpit bulkhead	285		305
30*	D.6.4	Gunwale rubbing bead thickness	13		19
31*	D.6.4	Distance of forward ends of rubbing beads from stemhead (excluding stemhead fitting)			130
32*	D.6.4	Distance of aft ends of rubbing beads from transom (excluding overlap of aft deck)			25
33*	D.6.4	Aft of chute mouth to vertical centreline of transom, measured parallel to the deck	5865		
34*	D.6.4	Spinnaker chute tube internal diameter (if any)			210
35*	D.6.4	Spinnaker sheet tube internal diameter (if any)			55
36*	D.6.4	Cockpit drain tubes internal diameter (if any)			80
37*	D.6.4	Watertight tube internal diameter bow to cockpit bulkhead			55
38*	D.6.4	Forward bulkhead inspection hatch high			500
39*	D.6.4	Forward bulkhead inspection hatch wide			600
40*	A.9	World Sailing sticker fitted on right forward cockpit bulkhead		Yes / No	
* Measurements to be taken before the hull leaves licensed builder's premises					

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International Sail Number of Yacht: .....			Date: .....		
Name of Measurer (BLOCK CAPITALS): .....			Signature: .....		
KEEL MEASUREMENTS					
41	E.2.3	Fin keel thickness	9.5		13
42	E.2.3	Fin keel width of exposed portion	503		513
43	E.2.3	Fin keel chamfer at forward edge			80
44	E.2.3	Fin keel chamfer at after edge			105
45	E.2.3	Horizontal distance from centre of aft end of keel bulb to fin at forward end	882		908
46	E.2.2	Horizontal template B1 through centre of aft end of keel bulb		Yes / No	
47	E.2.2	Vertical template B2 at 130mm from aft end of keel bulb		Yes / No	
48	E.2.2	Vertical template B3 at 330mm from aft end of keel bulb		Yes / No	
49	E.2.2	Vertical template B4 at 520mm from aft end of keel bulb		Yes / No	
50	E.2.2	Vertical template B5 at 685mm from aft end of keel bulb		Yes / No	
51	E.2.3	Plastic sheathing (if any) of bulbs, radius at junction of upper edge of bulb and fin			4
ASSEMBLED HULL, RUDDER AND KEEL MEASUREMENTS					
52	E.2.4	Weight of keel with bulbs	200kg		232kg
53	D.6.4	Fin keel maximum exposed depth (measured vertically from underside of hull at aft edge of keel plate to level of lowest point of fin or bulb)	865		900
54	D.6.4	Hull and trailing edge intersection of fin to transom (measured along centreline of hull)	3290		
55	C.8.2D .6.4	Hull and forward edge intersection of fin to transom (measured along centreline of hull)	3805		3865
56	E.3.5	Weight of the rudder, rudder head and its fittings	6.5 kg		
57	E.3.4	Template R applied to rudder blade, greatest clearance			7
58	E.3.4	Rudder blade maximum thickness			50

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Name of Measurer (BLOCK CAPITALS): .....			Signature: .....		
59	E.3.4	Rudder blade. Thickness at the thickest point of any horizontal section within 400mm of the upper edge	40		
60	E.3.4	Rudder shaft diameter	22		
61	C.9.6 D.6.4	Point at which extension of line of jib luff meets centreline of foredeck to centreline of transom (excluding overlap of aft deck), measured parallel to the deck	6249		6435
62	D.6.4	Drain holes in bow bulkhead			7
63	D.6.4	Overall height of keel angle	40		40
64	D.6.4	Inspection ports diameter			155
65	D.6.4	Inspections holes in cockpit floor, forward of the bridge deck, fore and aft			250
66	D.6.4	Inspections holes in cockpit floor, forward of the bridge deck, wide			155
67	D.6.4	Additional inspection ports diameter in cockpit floor, aft of the keel slot (if any)			155
68	D.6.4	Hatch opening in aft deck			475
69	D.6.4	Distance from aft end of mast partners to centreline of transom (excluding overlap of aft deck)	4190		
70	D.6.4	Cockpit self bailer holes, fore and aft			110
71	D.6.4	Cockpit self bailer holes, wide			80
72	D.6.5	Weight of the keel slot cover			5.0 kg
73	D.6.5	Weight of hull including essential fixed fittings (see rule for definition) and buoyancy apparatus enclosed within the bulkheads	226kg		
74	D.6.6	Number of weight correctors (if any)			
75	D.6.6	Total weight of correctors (if any)			15kg
76	D.6.5	Combined weight of hull and keel (see rule for definition)	453kg		
77	D.1.4	Official ITA - International class number plaque fitted on forward face of aft cockpit bulkhead.		Yes / No	

International Sail Number of Yacht: .....

### DECLARATIONS

1. To be signed by the **Licensed Builder** moulding and assembling the hull.

I certify that:

- (a) This hull has been constructed from components produced in officially registered, numbered, and measured moulds, supplied from the source approved by World Sailing and from components made to the official templates.
- (b) This hull has been constructed in accordance with the Rules, Plans and Specifications of the International Tempest Class.
- (c) This yacht contains buoyancy units (not being air bags) having not less than 150kg positive buoyancy secured in the forward buoyancy compartment.
- (d) This hull contains buoyancy units (not being air bags) having not less than 150kg positive buoyancy secured in the centre and/or aft buoyancy compartment with no part more than 1370mm from the aft bulkhead.
- (e) The International Class Fee in respect of this hull has been paid to the International Tempest Association according to the Rules in force.

Name of Builder (BLOCK CAPITALS): .....

Signature of Builder:..... Date:.....

2. To be signed by the **Builder** completing the yacht.

I certify that this yacht is, to the best of my belief, built and fitted out in accordance with the Rules and Specifications of the International Tempest Class.

Name of Builder (BLOCK CAPITALS): .....

Signature of Builder:..... Date:.....

International Sail Number of Yacht: .....

3. To be signed by the **Measurer** of the hull measurement Items 1\* – 40\*.

I certify that I have measured the above numbered items on this yacht, that the particulars on this form are correct and that, to the best of my knowledge, the hull of this yacht complies with the Rules and specifications of the Tempest Class at present in force, except as stated below:

Measurer of Hull — Items 1\* – 40\*.

Name of Measurer (BLOCK CAPITALS): .....

Signature of Measurer: ..... Date: .....

**Measurer's Comments:**

4. To be signed by the **Measurer** of the keel items 41 – 51.

I certify that the particulars that I have entered on this form are correct:

Measurer of Keel — Items 41 – 51.

Name of Measurer (BLOCK CAPITALS): .....

Signature of Measurer: ..... Date: .....

**Measurer's Comments:**

5. To be signed by the **Measurer** of measurement items 52 – 77.

I certify that the particulars that I have entered on this form are correct:

Measurer of: Items 52 – 77.

Name of Measurer (BLOCK CAPITALS): .....

Signature of Measurer: ..... Date: .....

**Measurer's Comments:**



ITEM N°	RULE N°	TEMPEST SPAR-MEASUREMENTS	MIN	ACTUAL	MAX
78	F.3.5	Weight of mast and rigging	17.5 kg		
79	F 3.5	<b>Tip weight</b> of mast	6.75 kg		
80	C 9.3	Distance between the <b>lower point</b> and its closest point of the cockpit floor as defined in rules D 6.4. (see item 26)	1165		1175
81	C.9.3	Extreme lower end of <b>mast</b> to level of adjacent floor			40
82	F.3.4	Mast spar cross section fore and aft between the <b>lower point height</b> and the <b>forestay height</b>	91		
83	F.3.4	Mast section athwartships between the <b>lower point height</b> and the <b>forestay height</b>	72		
84	F.3.4	Mast spar cross section fore and aft between <b>upper point height</b> and <b>forestay height</b>	56		
85	F.3.4	Mast section athwartships between <b>upper point height</b> and <b>forestay height</b>	49		
86	F.3.4	<b>Mast taper point from lower point</b>	6060		
87	F.3.4	<b>Lower point to upper point</b>			7620
88	F 3.4	<b>Mast limit mark width</b>	10		
89	F 3.4	<b>Forestay height</b>	5670		5945
90	F 3.4	<b>Shroud height</b>	5670		5945
91	F 3.4	<b>Spinnaker hoist height</b>			6100
92	F.3.4	<b>Spinnaker pole fitting projection</b>			50
93	F 4.4	<b>Main Boom pass</b> through 90mm diameter circle		Yes / No	
94	F4.4	<b>Boom spar vertical cross section</b> between 50mm and 3330mm from its forward end	63		
95	F4.4	<b>Boom spar transverse cross section</b> between 50mm and 3330mm from its forward end	53		
96	C 9.4	<b>Boom point distance</b>			3380
97	F.5.4	<b>Spinnaker pole length:</b> overall length including fittings			2565

5. To be signed by the **Measurer** of measurement items 78 – 97. (Spars)

I certify that the particulars that I have entered on this form are correct:

Name of Measurer (BLOCK CAPITALS): .....

Signature of Measurer:..... Date: .....

**Measurer's Comments:**