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INTERNATIONAL FIREBALL

MEASUREMENT FORM

NOTES**Registration, Measurement, Certification****OWNERS**

- This Measurement Form should be completed by an official Measurer who shall be recognised / appointed either by a National Class Association affiliated to Fireball International, or by a National Authority having been approved by that authority to measure International Fireballs.
- Owners should refer to and comply with the requirements of International Fireball Class Rules 6 and 7, and must sign the 'Owner's Declaration' on Page 10.
- To obtain a Measurement Certificate the owner should send two fully completed duplicate copies of this Measurement Form to his / her National Class Association who will issue a certificate.
The forms should be sent to Fireball International if the owner resides in a country with no established NCA.

MEASURERS

- This Measurement Form must be used in conjunction with the 1995 International Fireball Class Rules. It supersedes previous editions and must be used for the measurement of all boats after 1st January 1995
- Please complete this form clearly, indicating the 'Yes / No' options by deletion thus Yes / No or Yes / No.
- Please use the 'Measurer's Comments' section to note any measurements that do not comply with the dimensions or specifications required by this form, or to make any other relevant remarks. Please sign the 'Measurer's Declaration' on Page 11.
- You are advised to familiarise yourself with Fireball International's 'Instructions to Measurers'.

BUILDERS

- Builders must sign the appropriate 'Builder's Declaration' on Page 11.

ISSUING AUTHORITIES (NCAs, National Authorities, Fireball International)

- International Fireball Measurement Certificates may only be issued by NCA Secretaries or designated officials, National Authority Registrars, or the Fireball International Secretariat.
- A Measurement Certificate may be issued on receipt of two correct and fully completed duplicate copies of this Measurement Forms and evidence of payment of the current class subscription.
One copy of the Measurement Form should be returned to the owner. The remaining copy must be retained on file by the Issuing Authority; it may be required for audit by Fireball International at any time.

REGISTRATION**Owner / Sail Number / IFC Plaque Number**

| | |
|-------------------------------|-----------------------------|
| OWNER: | SAIL NUMBER: |
| Owner's address: | IFC PLAQUE NO: |
| | |
| | |
| Telephone: | |
| Owner's NCA: | Boat's name: |
| Owner's club: | |

BUILDER

Professional - IYRU Licensed Builder

Hull professionally constructed by:

Date completed (month / year): IYRU approved mould number (1):

Hull construction category: Builder's hull serial number (2):

Amateur - from Plans

Hull amateur constructed by:

Date completed (month / year):

Hull construction category:

Amateur - from Kit

Kit amateur assembled by:

Kit professionally manufactured by:

Date completed (month / year): IYRU approved mould number (1):

Hull construction category: Builder's hull serial number (2):

Complete section as appropriate.
 (1) To be inserted by licenced builder if hull is Cat 2 construction and manufactured from production mould. (2) To be inserted by IYRU licenced professional builder.



MEASUREMENT

Measurer

Measurer's name: Measurer's stamp:

Address:

Telephone:

Measurer recognised / appointed by:

| Ref | Rule | Description | Minimum | Actual | Maximum |
|--|------|--|---------|----------|---------|
| Registration | | | | | |
| 1 | 5.1 | Is the International Class Fee Plaque fixed inside the cockpit as required by Rule 5.1? | — | Yes / No | — |
| 2 | 5.2 | Is the registered Sail Number carved into the thwart as required by Rule 5.2? | — | Yes / No | — |
| HULL | | | | | |
| 3 | 9.1 | Does construction of the hull conform to Rule 9.1 'Materials'? | — | Yes / No | — |
| 4 | 8 | Does the hull conform to Rule 8 'Prohibitions'? | — | Yes / No | — |
| 5 | 13 | Does the hull conform to Rule 13 'Projections'? | — | Yes / No | — |
| Weight | | | | | |
| 6 | 9.6 | Weight of hull | 79.4 kg | kg | — |
| 7 | 9.6 | Weight of correctors, if fitted | — | kg | 4.5 kg |
| Bottom panel & rocker (following measurements taken with the hull inverted) | | | | | |
| 8 | 9.5 | Distance from the aft transom to the bottom edge of the bow transom measured around the outside face of the bottom panel | 4787 mm | mm | 4817 mm |
| 9 | 9.18 | Baseline to centre bottom panel at station '0' - at aft face of aft transom (no tolerance) | — | 305 mm | — |
| 10 | 9.18 | Baseline to centre bottom panel at station 'A' - 765 mm forward of aft face of aft transom | 223 mm | mm | 239 mm |
| 11 | 9.18 | Baseline to centre bottom panel at station 'B' - 1580 mm forward of aft face of aft transom | 156 mm | mm | 172 mm |
| 12 | 9.18 | Baseline to centre bottom panel at station 'C' - 2390 mm forward of aft face of aft transom | 117 mm | mm | 133 mm |
| 13 | 9.18 | Baseline to centre bottom panel at station 'D' - 3208 mm forward of aft face of aft transom | 129 mm | mm | 145 mm |
| 14 | 9.18 | Baseline to centre bottom panel at station 'E' - 3975 mm forward of aft face of aft transom | 221 mm | mm | 237 mm |
| 15 | 9.18 | Baseline to centre bottom panel - at 4760 mm forward of aft face of aft transom (no tolerance) | — | 407 mm | — |
| Hull, general | | | | | |
| 16 | 9.11 | Is the deflection of bottom, bilge and topside panels within the tolerance permitted by Rule 9.11? | — | Yes / No | — |
| 17 | 9.3 | Do the centre bottom panel, bilge panels, topsides, and fore and aft transoms, conform to Rule 9.3 'Panel Thickness'? | — | Yes / No | — |
| 18 | 9.18 | Distance from 300mm straight edge to the surface of the bottom panel | — | mm | 2 mm |

| Ref | Rule | Description | Minimum | Actual | Maximum |
|----------------------|------|---|---------|----------|---------|
| 19 | 9.13 | Distance of the centre of centreboard pivot from the aft transom | 2672 mm | mm | 2724 mm |
| 20 | 9.13 | Distance of the centre of centreboard pivot above the outside of the centre bottom panel | 63 mm | mm | 77 mm |
| 21 | 9.12 | Width of centreboard slot | — | mm | 30 mm |
| 22 | 9.17 | Length of bottom rails | 2820 mm | mm | — |
| 23 | 9.17 | Do the bottom rail cross sections conform to Rule 9.17? | — | Yes / No | — |
| 24 | 9.17 | Are protection strips fitted or constructed in accordance with Rule 9.17? | — | Yes / No | — |
| 25 | 9.16 | Do the sections of the chine deflectors conform to Rule 9.16? | — | Yes / No | — |
| 26 | 9.16 | Length of chine deflectors | 3860 mm | mm | — |
| 27 | 9.21 | Do the self bailers conform to Rule 9.21? | — | Yes / No | — |
| 28 | 9.15 | Projection of the gunwale rubbers beyond skin when measured at 90° to topsides | 6 mm | mm | 38 mm |
| 29 | 9.15 | Depth of the gunwale rubbers at face of topside | 15 mm | mm | 30 mm |
| 30 | 9.10 | Depth of aft transom | 241 mm | mm | 267 mm |
| Hull sections | | | | | |
| 31 | 9.11 | Dimension 'A' - at aft transom (at underside of gunwale rubbers) | 1052 mm | mm | 1068 mm |
| 32 | 9.11 | Dimension 'B' - at aft transom (underside of gunwale rubber to outer face of bottom panel) | 147 mm | mm | 163 mm |
| 33 | 9.11 | Dimension 'C' - at aft transom (distance between outer edges of bottom rails) | 335 mm | mm | 351 mm |
| 34 | 9.11 | Dimension 'D' - at aft transom (distance between intersections of outer faces of bilge and topside panels) | 1021 mm | mm | 1037 mm |
| 35 | 9.11 | Dimension 'E' - at aft transom (distance between outer face of bottom panel and intersection of bilge and topside panels) | 82 mm | mm | 98 mm |
| 36 | 9.11 | Dimension 'A' - at 765 mm forward of aft face of aft transom | 1198 mm | mm | 1214 mm |
| 37 | 9.11 | Dimension 'B' - at 765 mm forward of aft face of aft transom | 233 mm | mm | 249 mm |
| 38 | 9.11 | Dimension 'C' - at 765 mm forward of aft face of transom | 382 mm | mm | 398 mm |

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| Ref | Rule | Description | Minimum | Actual | Maximum |
|--|------|--|---------|----------|---------|
| 39 | 9.11 | Dimension 'D' - at 765 mm forward of aft face of transom | 1138 mm | mm | 1154 mm |
| 40 | 9.11 | Dimension 'E' - at 765 mm forward of aft face of transom | 111 mm | mm | 127 mm |
| 41 | 9.11 | Dimension 'A' - at 3208 mm forward of aft face of aft transom | 1217 mm | mm | 1233 mm |
| 42 | 9.11 | Dimension 'B' - at 3208 mm forward of aft face of aft transom | 357 mm | mm | 373 mm |
| 43 | 9.11 | Dimension 'C' - at 3208 mm forward of aft face of aft transom | 367 mm | mm | 383 mm |
| 44 | 9.11 | Dimension 'D' - at 3208 mm forward of aft face of aft transom | 1135 mm | mm | 1151 mm |
| 45 | 9.11 | Dimension 'E' - at 3208 mm forward of aft face of aft transom | 168 mm | mm | 184 mm |
| 46 | 9.11 | Dimension 'A' - at bow transom (true dimension) | 392 mm | mm | 408 mm |
| 47 | 9.11 | Dimension 'B' - at bow transom (true dimension) | 157 mm | mm | 173 mm |
| 48 | 9.11 | Dimension 'C' - at bow transom (true dimension) | 157 mm | mm | 173 mm |
| 49 | 9.11 | Dimension 'D' - at bow transom (true dimension) | 392 mm | mm | 408 mm |
| 50 | 9.11 | Dimension 'E' - at bow transom (true dimension) | 132 mm | mm | 148 mm |
| Length, beam, staybase & fore triangle (following measurements taken with hull in upright position) | | | | | |
| 51 | 9.5 | Maximum beam excluding gunwales | — | mm | 1359 mm |
| 52 | 10.1 | Distance between shroud plates at sheerline | 1311 mm | mm | 1337 mm |
| 53 | 9.5 | Length overall between perpendiculars from the aft transom to the forward edge of the bow transom | 4915 mm | mm | 4941 mm |
| 54 | 10.2 | Aft face of transom to the centre of attachment hole for jib luff, OR the extension of centreline of jib luff wire rigged in normal position at a point 15 mm above deck | 4553 mm | mm | 4579 mm |
| 55 | 10.2 | Distance of forestay attachment, OR extension of centreline of forestay rigged in normal position at a point 15mm above deck, from jib luff measurement point | — | mm | 51 mm |
| 56 | 10.1 | Distance from aft face of aft transom to centre of shroud attachment holes on shroud plates | 2641 mm | mm | 2693 mm |
| Decking | | | | | |
| 57 | 9.3 | Does the decking conform to Rule 9.3 'Panel Thickness'? | — | Yes / No | — |

| Ref | Rule | Description | Minimum | Actual | Maximum |
|----------------|-------|--|---------|---------------|---------|
| 58 | 9.9.2 | Is the foredeck centreline a convex curve from crown of the forward bulkhead to crown of the forward transom? | — | Yes / No | — |
| 59 | 9.9.2 | Does a transverse line between centreline and sheer bridge a gap of less than 3mm on the foredeck? | — | Yes / No | — |
| 60 | 9.9.3 | Are there any concavities in excess of 3mm in the surfaces of the sidedecks? | — | Yes / No | — |
| 61 | 9.9.2 | Does the aft deck centreline from the crown of the aft bulkhead to the crown of the aft transom deviate from a straight line by less than 3mm in the vertical plane? | — | Yes / No | — |
| 62 | 9.9.2 | Does a transverse line between centreline and sheer bridge a gap of less than 3mm on the aft deck? | — | Yes / No | — |
| 63 | 9.9.4 | Do the spinnaker sheet channels, if fitted, comply with Rule 9.9.4? | — | Yes / No / NA | — |
| 64 | 9.9 | Does the decking conform to remaining requirements of Rule 9.9? | — | Yes / No | — |
| 65 | 9.8 | Is 75% of the defined cockpit area undecked? | — | Yes / No | — |
| Cockpit | | | | | |
| 66 | 9.3 | Do the centreboard case sides, bulkheads and tanksides conform to Rule 9.3 'Panel Thickness'? | — | Yes / No | — |
| 67 | 9.7.2 | Does the forward bulkhead extend across the hull? | — | Yes / No | — |
| 68 | 9.7.1 | Does the aft bulkhead extend across the hull? | — | Yes / No | — |
| 69 | 9.7.2 | Distance of aft face of forward bulkhead, within 300mm of centreline, from aft face of aft transom measured at 135mm above outside of centre bottom panel | 3187 mm | mm | 3213 mm |
| 70 | 9.19 | Distance of forward edge of the thwart from the aft face of the aft transom | 2121 mm | mm | 2147 mm |
| 71 | 9.7.1 | Distance of forward face of the aft bulkhead, within 275mm of centreline, from the aft transom. | 749 mm | mm | 775 mm |
| 72 | 9.9.2 | Height of top of deck at centreline of forward bulkhead above the outside of the centre bottom panel | 526 mm | mm | 552 mm |
| 73 | 9.9.3 | Height of the inboard edges of side decks, when measured in accordance with Rule 9.9.3, at 2742mm forward of aft transom | 412 mm | mm | — |
| 74 | 9.19 | Upper face of the thwart above the outside of centre bottom panel | 256 mm | mm | — |
| 75 | 9.9.3 | Height of inboard edges of side decks when measured in accordance with Rule 9.9.3 at 1602mm forward of aft transom | 305 mm | mm | — |
| 76 | 9.9.2 | Height of deck at centre of the aft bulkhead above outside of the centre bottom panel | 358 mm | mm | 384 mm |

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| Ref | Rule | Description | Minimum | Actual | Maximum |
|-----------------|--------|--|---------|----------|---------|
| 77 | 9.8 | Distance between surface of cockpit sole and outside of bottom panel | — | mm | 65 mm |
| 78 | 9.14 | Top of spur above outside of centre bottom panel | 135 mm | mm | — |
| 79 | 9.14 | Heel of mast, tenon excluded, above the outside of centre bottom panel when the mast is positioned 75 mm from forward bulkhead | — | mm | 165 mm |
| 80 | 9.7.3 | Distance between tankside faces at 2742mm forward of aft face of aft transom measured at the intersection of the projected planes of the tanksides and deck? | 922 mm | mm | 948 mm |
| 81 | 9.7.3 | Distance between tankside faces at 1062mm forward of aft face of aft transom measured at the intersection of the projected planes of the tanksides and deck? | 883 mm | mm | 909 mm |
| 82 | 9.7.4 | Do the bulkheads and tanksides diverge towards the top by less than 5°? | — | Yes / No | — |
| 83 | 9.19 | Width of thwart | 108 mm | mm | 120 mm |
| 84 | 9.19 | Thickness of thwart | 14 mm | mm | 18 mm |
| 85 | 9.19 | Do thwart flanges, if fitted, comply with Rule 9.19? | — | Yes / No | — |
| 86 | 9.12 | Width of centreline structure | — | mm | 320 mm |
| 87 | 9.12 | Number of struct, knees or strain members on each side of centreboard case | — | | 3 count |
| 88 | 9.8 | Are the radii between the bulkheads and cockpit floor, and tanksides and cockpit floor, less than 19mm? | — | Yes / No | — |
| 89 | 9.7.5 | Do the bulkheads and tanksides conform with Rule 9.7.5? | — | Yes / No | — |
| 90 | 9.7.9 | Is each buoyancy tank fitted with at least one and not more than two removable hatches having an opening of not less than 85mm in diameter? | — | Yes / No | — |
| 91 | 9.7.11 | Do the watertight compartments comply with Rule 9.7.11? | — | Yes / No | — |
| Fittings | | | | | |
| 92 | 22.2 | Do the footloops, if fitted, conform to the requirements of Rule 22.2? | — | Yes / No | — |
| 93 | 11.2 | Do the sheet leads conform to Rule 11.2? | — | Yes / No | — |
| 94 | 11.1 | Do the mainsheet attachment points conform to the requirements of Rule 11.1? | — | Yes / No | — |
| 95 | 8 | Do the fittings conform to Rule 8 'Prohibitions'? | — | Yes / No | — |

| Ref | Rule | Description | Minimum | Actual | Maximum |
|--------------------|--------|---|------------------------|---------------|---------|
| 96 | 12.2 | Is equipment made from resins containing short strand fibres of any material restricted to use in fittings directly attached to the hull and pulley blocks? | — | Yes / No | — |
| 97 | 12.1 | Does the mainsheet hoop, if fitted, conform to the requirements of Rule 12.1? | — | Yes / No / NA | — |
| 98 | 9.6 | Is a compass permanently fastened to the hull? If 'Yes' state trademark and model reference | Yes / No (...../.....) | | |
| Centreboard | | | | | |
| 99 | 14.1 | Does the centreboard conform to requirements of Rule 14.1 'Materials'? | — | Yes / No | — |
| 100 | 14.1 | Does the centreboard's protective strip, if fitted, conform to requirements of Rule 14.1? | — | Yes / No | — |
| 101 | 14.2 | Does the centreboard conform to requirements of Rule 14.2? (refer to Centreboard Profile Sheet) | — | Yes / No | — |
| 102 | 14.3 | Weight of centreboard | 4.0 kg | kg | 9.0 kg |
| Rudder | | | | | |
| 103 | 15.1 | Does the rudder conform to requirements of Rule 15.1 'Materials'? | — | Yes / No | — |
| 104 | 15.2 | Thickness of rudder below waterline | — | mm | 25 mm |
| 105 | 15.2 | Width of complete rudder assembly excluding tiller extension | — | mm | 100 mm |
| 106 | 15.3 | Weight of rudder assembly | 3.0 kg | kg | — |
| 107 | 15.4 | Is rudder attached to transom in such a manner that it will not part company with boat during a capsize? | — | Yes / No | — |
| Spars | | | | | |
| 108 | 17.1 | Does the mast conform to Rule 17.1 'Materials'? | — | Yes / No | — |
| 109 | 17.2 | Does the mast conform to Rule 17.2 'Staying and Bracing'? | — | Yes / No | — |
| 110 | 17.3 | Mast tip weight | 4.2 kg | kg | — |
| 111 | 17.2 | Length of stayed mast measured from heel, tenon excluded | — | mm | 5166 mm |
| 112 | 17.6.2 | Top of lower mast band above heel, tenon excluded | — | mm | 1029 mm |
| 113 | 17.6.3 | Bottom of middle mast band above heel, tenon excluded | 5074 mm | mm | 5086 mm |

DECLARATIONS**Measurer's Declaration**

1. I certify that the measurements entered on this form have been properly taken and that to the best of my knowledge and belief the boat and components listed above comply with the Class Rules of the International Fireball Class with the exception of the discrepancies noted above.
2. I have inspected the bulkheads, side tanks and hatches and I am satisfied that the buoyancy compartments are adequately watertight.

Name (capitals): **Signature:**
Date:

Builder's Declaration - Professional

I / We certify that International Fireball No. / Kit for International Fireball No: has been constructed in conformity with the International Fireball Class Rules.

Name (capitals): **Signature:**
Company: **Date:**

Builder's Declaration - Amateur

I certify that I have MYSELF, without the assistance of professional boat building labour, built / assembled International Fireball No: in conformity with the current International Fireball Class Rules.

Name (capitals): **Signature:**
Date:

Owner's Declaration

1. I undertake to race this boat as an International Fireball only so long as it is maintained in conformity with the International Fireball Class Rules.
2. I undertake that any corrector weights fitted to this boat at the time of original measurement will not be altered or removed except in conjunction with an official re-weighing.
3. I understand that infringement of any International Fireball Class Rule at any time may result in the refusal or withdrawal of the boat's Measurement Certificate by the Issuing Authority of Fireball International.

Name (capitals): **Signature:**
Date:

