

# SKUD 18

## CLASS RULES 2008

REVISED MARCH 2008



The SKUD 18 was designed in 2005 by Chris Mitchell.

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# INTRODUCTION

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*SKUD 18 hulls, hull appendages, rigs and sails shall only be manufactured by builders licensed by Access Sailing Systems Pty Ltd with the approval of the International Association for Disabled Sailing (IFDS) in the class rules referred to as licensed manufacturers. Equipment is required to comply with the SKUD 18 Building Specification and is subject to an IFDS approved manufacturing control system.*

*SKUD 18 hulls, hull appendages, rigs and sails may, after having left the manufacturer, only be altered to the extent permitted in Section C of the class rules.*

*Rules regulating the use of equipment during a race are contained in Section C of these class rules, in ERS Part I and in the Racing Rules of Sailing.*

*This introduction only provides an informal background and the International SKUD 18 Class Rules proper begin on the next page.*

# PART I – ADMINISTRATION

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## Section A – General

### A.1 LANGUAGE

- A.1.1 The official language of the class is English and in case of dispute over translation the English text shall prevail.
- A.1.2 The word “shall” is mandatory and the word “may” is permissive.

### A.2 ABBREVIATIONS

- A.2.1 ISAF International Sailing Federation
- IFDS International Association for Disabled Sailing
- MNA ISAF Member National Authority
- IACA International Access Class Association
- NACA National Access Class Association
- ERS Equipment Rules of Sailing
- RRS Racing Rules of Sailing
- SCMC SKUD 18 Class Management Committee

### A.3 AUTHORITIES

- A.3.1 The international authority of the class is the ISAF which shall co-operate with the SCMC and IACA in all matters concerning these **class rules**.

### A.4 ADMINISTRATION OF THE CLASS

- A.4.1 ISAF and IFDS has delegated its administrative functions of the class to the SCMC until 1 January, 2009 at which time the IACA shall begin administration, with the SCMC retained as an advisory board.

### A.5 ISAF RULES

- A.5.1 These **class rules** shall be read in conjunction with the ERS.
- A.5.2 Except where used in headings, when a term is printed in “**bold**” the definition in the ERS applies and when a term is printed in “*italics*” the definition in the RRS applies.
- A.5.3 These class rules shall be considered **closed class rules** for any purpose.

### A.6 CLASS RULES VARIATIONS

- A.6.1 At Class Events – see RRS 88.1.d) – ISAF Regulation 26.5(f) applies. At all other events RRS 86 applies.

### A.7 CLASS RULES AMENDMENTS

- A.7.1 Amendments to these **class rules** are subject to the approval of the IFDS and ISAF.

## **A.8 CLASS RULES INTERPRETATION**

A.8.1 Interpretation of **class rules** shall be made by the Technical Officer, subject to ratification by IFDS in cooperation with the SCMC.

## **A.9 INTERNATIONAL CLASS FEE AND IFDS BUILDING PLAQUE**

A.9.1 The licensed hull builder shall pay the International Class Fee.

A.9.2 SCMC shall, after having received the International Class Fee for the hull, send the IFDS Building Plaque to the licensed hull builder.

## **A.10 SAIL NUMBERS**

A.10.1 Sail numbers shall be issued by the SCMC and after January 1, 2009 by the IACA.

A.10.2 Sail numbers shall be issued in consecutive order starting at "001".

## **A.11 HULL CERTIFICATION**

A.11.1 A **certificate** shall not be issued.

# **Section B – Boat Eligibility**

For a **boat** to be eligible for *racing*, it shall comply with the rules in this section.

## **B.1 CLASS RULES**

B.1.1 The boat shall:

(a) be in compliance with the **class rules**.

(b) be crewed by at least one person who is a member in good standing of the IACA.

(c) be defined by one set of licensed parts

# PART II – REQUIREMENTS AND LIMITATIONS

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The **crew** and the **boat** shall comply with the rules in Part II when *racing*. In case of conflict Section C shall prevail.

The rules in Part II are **closed class rules**. **Equipment inspection** shall be carried out in accordance with the ERS except where varied in this Part.

## Section C – Conditions for Racing

### C.1 GENERAL

#### C.1.1 RULES

- (a) The ERS Part I – Use of Equipment shall apply.

### C.2 CREW

#### C.2.1 LIMITATIONS

- (a) The **crew** shall consist of two (2) persons.
- (b) No **crew** member shall be substituted during an event of less than 3 consecutive days, unless approved by the Jury.
- (c) Where centreline seats are specified or fitted, crew (torso, buttocks) must remain in contact with their seats at all times while racing. Crew may leave their seats temporarily in an emergency or to effect repairs, subject to their movement within the boat not providing an advantage.
- (d) If one centreline seat only is fitted, one crew may use a trapeze.

#### C.2.2 WEIGHTS

- (a) There is no restriction on the weights of the individual crew members, nor their combined weight.

### C.3 PERSONAL EQUIPMENT

#### C.3.1 MANDATORY

- (a) The boat shall be equipped with **personal buoyancy** for each crew member to the minimum standard EN 393: 1995 (CE 50 Newtons), or USCG Type III, or AUS PFD 2.

#### C.3.2 OPTIONAL

- (a) Equipment inside Control Points (CP) (per C 9.8) shall not be changed to alter functionality.
- (b) Additional equipment to control running rigging specified in C9.8 which compensates for a sailor's disability is permitted after the CP following the approval of the class Technical Committee and is considered part of the hull weight.
- (c) Location of control lines after the CP may be changed.

- (d) Seating may be of any origin. All seating must meet the following specifications:
1. All seating must be mechanically attached to the hull on the centreline via the provided tracks in a manner to avoid separation while under sail. Their longitudinal location is optional, and must be fixed during racing.
  2. There must be restraints built into the seating to keep the sailor in the seating at all angles of heel. Restraints must be of a “quick release” type. All buckles and release mechanisms should be clearly visible for fast assistance on the water.
  3. Horizontal seat width (as opposed to the back or leg rest extension) shall not exceed 500mm athwartships. Horizontal seat length shall not exceed 600mm longitudinally. Leg rests are not part of the seat, but can be integral to the seating.
  4. A canting mechanism which allows the sailor to remain in the vertical position relative to the horizon while sailing is permitted, limited to a maximum total rotation of +/- 25 degrees from centre. Safety mechanisms to prevent uncontrolled motion of the seat must be demonstrated. The intent of this provision is to allow for the comfort and wellbeing of a sailor and not to project weight to windward.
  5. The axis of rotation shall be along the hull centreline, parallel to the floor and not greater than 50mm below the projected intersection of the horizontal seat plane (underside of cushion) and the backrest plane, or 50mm below the seat mounting base plane. Maximum seat height including cushion is 120mm above measured plane (at centreline limit).
- (e) A single trapeze may be used as per C.2.1. The trapeze wires may be stainless steel wire of not less than 2.3 mm diameter or spectra lines of not less than 3.0 mm diameter and attach to the topmast 150mm above the hounds.

## **C.4 ADVERTISING**

### **C.4.1 LIMITATIONS**

Advertising shall only be displayed in accordance with Category C of the ISAF Advertising Code.

## **C.5 PORTABLE EQUIPMENT**

### **C.5.1 FOR USE**

- (a) **OPTIONAL** (not part of hull weight unless noted)
- (1) Timing devices, and mechanical wind indicators are permitted, but are not part of the hull weight.
  - (2) Compasses with brackets are permitted, and are part of hull weight. GPS and electronic compasses with functions beyond heading and timing are not permitted.
  - (3) Mooring line.
  - (4) Spares and tools (are not part of hull weight).
  - (5) Tuff's or ribbons in the **rigging**. (are part of hull weight)

C.5.2 NOT FOR USE

(a) MANDATORY

- (1) Towing rope, floating, minimum 15 m long of not less than 6 mm in diameter run through forestay eye.

**C.6 BOAT**

C.6.1 LIMITATION

- (a) **Hull, Hull Appendages and Spars** are as *supplied by a licensed manufacturer. No alteration allowed.*

C.6.2 WEIGHT

	Minimum
The weight of the <b>boat, rig, seats and fixed adaptive aids</b> (e.g. servos, fixed-location batteries) in dry condition All boats shall add correctors as required to reach the assigned racing minimum weight.	380 kg

The weight shall be taken excluding **sails**, but including all portable equipment as listed in C.5.

C.6.3 CORRECTOR WEIGHTS

- (a) **Corrector weights** as required to bring a boat to the specified minimum racing weight shall be securely fastened to seat tracks and split equally across centreline.

C.6.4 FLOTATION

- (a) Removal of floatation material built into the hull is not allowed.

**C.7 HULL**

- (a) **Hulls and Decks** shall comply with the **building specification** in force at the time of manufacture..

C.7.1 MAINTENANCE AND REPAIR

- (a) In the event of damage to any part of the hull, necessary repairs may be made provided repairs are made in such a way that the essential shape and function is not materially affected. Fittings shall be attached in the same position as before the repair, or as close as is structurally possible.
- (b) The **hull** may be sanded and polished, except that the shape or weight distribution as originally supplied shall not be altered.

## C.7.2 FITTINGS

### (a) USE

- (1) Watertight integrity of the **hull** shall be maintained at all times.

## C.7.3 LIMITATIONS

(a) No holes may be made in the **hull** molding, except for the purpose of making repairs.

(b) Only holes necessary for mounting fittings or adaptive equipment may be made in the deck mouldings.

(c) Additional mouldings, consoles or bridges are allowed as adaptive equipment required for sailors with a disability. Such additions must be approved by the class Technical Committee. The structural characteristics of the boat shall not be altered by such equipment.

## C.8 HULL APPENDAGES

### C.8.1 MAINTENANCE AND REPAIR

(a) *Hull appendages shall comply with the **building specification** in force at the time of manufacture.*

(b) The **hull appendages** may be sanded and polished, except that the shape or weight distribution as originally supplied shall not be altered.

(c) Aluminium rudder foils may not be filled and sanded. Urethane plugs only may be faired.

### C.8.2 LIMITATIONS

(a) Only one **keel** and two **rudder** blades shall be used during an event, except when a **hull appendage** has been lost or damaged beyond repair.

### C.8.3 KEEL

#### (a) USE

(1) The **keel** must be fixed in position by the mechanism provided. No other location or arrangement allowed. It can not be shimmed to sit higher or the top flange altered in any way.

(2) Tape, cloth, a polyurethane or rubber gasket, or wedges made from polyethylene or other material, can be used to prevent movement of the fin stock in the trunk provided they do not prevent the rapid removal of the fin from the trunk, or protrude from the trunk below the waterline.

(3) Max weight of bulb is 136kg

(4) Max weight of keel and bulb is 163kg

(5) The fore & aft keel angle at the leading edge and hull is 90 degrees with a tolerance of +/- 10mm measured horizontally 1 metre below hull.

(6) The vertical angle of the keel bulb is 90 degrees to the leading edge measured from a projected line between end centres with a tolerance of +/- 10mm measured vertically at both end centres.

- (7) The keel bolt plugs (supplied plastic covers) are optional and may be replaced or removed and faired. Removal may be required for measurement purposes and replacement is the owner's responsibility.

#### C.8.4 RUDDERS

##### (a) USE

- (1) The rudder shall be fixed in its fully lowered position.
- (2) Both rudders must be present for racing.
- (3) A rudder tie-rod located not less than 150mm longitudinally from the centreline of the rudder pins shall connect the rudders or tiller arms. The length of the tie-rod shall not be adjusted while racing.
- (4) Rudder pin bushes may be fitted in the gudgeon plates.

### C.9 RIG

#### C.9.1 MODIFICATIONS, MAINTENANCE AND REPAIR

- (a) *Spars shall comply with the **building specification** in force at the time of manufacture. **Rigging** shall comply with the current **class rules**.*

#### C.9.3 LIMITATIONS

- (a) Only one set of **spars** and standing **rigging** shall be used during an event, except when an item has been lost or damaged beyond repair.

#### C.9.4 MAST

##### (a) USE

- (1) The **spar** shall be stepped in the mast step supplied by a licensed manufacturer in such a way that the heel is not be capable of moving more than 1 mm in any direction.
- (2) The mast shall be located in the centre hole of the mast step fitting.

#### C.9.5 BOOM

##### (a) USE

- (1) The boom spar shall be attached to the mast spar well racing using the boom gooseneck fitting provided on the mast.

#### C.9.6 RETRACTING BOWSPRIT

##### (a) USE

- (1) The bowsprit shall be capable of retracting to an extension of no more than 100mm beyond the bow when on a windward leg of the course.
- (2) No bowsprit extensions or 'sheet-keepers' may be fitted.
- (3) The bowsprit shall be extended only when setting or flying the spinnaker.

### C.9.7 STANDING RIGGING

#### (a) USE

- (1) Rigging links and rigging screws shall not be adjusted while racing.
- (2) The forestay shall be located in the centre hole of the stem fitting.

### C.9.8 RUNNING RIGGING

(a) LIMITATIONS – Control Points are defined to limit the functionality of the running rigging, but to allow adaptations for the use of the control. Any termination of function beyond the control point is open.

#### (b) USE

- (1) The mainsail sheet shall be defined with two control points. The sheet's first control point is at the rocking block in the aft end of the boom, which must be used for at least one active part of the sheet. The sheet then runs forward through the boom with an exit at the front of the boom that acts as the forward control point. The mainsheet shall have a minimum purchase of 2:1 with one or two working ends.
- (2) The jib sheet shall be led from the jib clew through the jib car on the jib track, and forward to at least one exit box in the foredeck which acts as the control point.
- (3) The spinnaker sheet and guy shall be led to the sheet blocks located aft of the shrouds on the deck of the boat. These are the control points for the sheets.
- (4) The spinnaker halyard and bowsprit setting and retractions lines shall be led down through the mast, down through the step, around a check block that sends the line forward around a block attached to the pole extension line which is the forward control point.
- (5) The retrieval line shall run from the "pull points" in the spinnaker, down through the spinnaker sock and back to a fixed block attached to the aft bulkhead which will be the control point
- (6) The kicking strap shall be 8:1 and led to the back of the mast step which acts as the control point.
- (7) The mainsail clew outhaul shall be 2:1 and led to the front of boom which acts as the control point.
- (8) The mainsail Cunningham control shall be 4:1 and shall led to the sub cockpit floor beneath the tack of the main which will be the control point.
- (9) The mainsheet bridle shall be of any fixed length and cannot be adjusted while racing.

(c) REPLACEMENT – Fittings may be replaced by those of another manufacturer but shall maintain the same function.

## C.10 SAILS

### C.10.1 MAINTENANCE AND REPAIR

- (a) **Sails** shall not be re-cut or otherwise altered from their original design. Emergency repairs are allowed, but the sail must be re-measured at the first available opportunity. Sail damage and subsequent repair may invalidate the sail from use in competition based on the opinion of the measurer at the event.

### C.10.2 LIMITATIONS

- (a) Not more than 1 mainsail, 1 jib, and 1 spinnaker shall be carried aboard.
- (b) Not more than 1 mainsail, 1 jib, and 1 spinnaker shall be used during an event of less than 5 consecutive days, except when a **sail** has been lost or damaged beyond repair.

### C.10.3 MAINSAIL

#### (a) IDENTIFICATION

- (1) The national letters and sail numbers shall comply with the RRS except where prescribed otherwise in these **class rules**.
- (2) The national letters and sail numbers shall be wholly between the 3<sup>rd</sup> and 4<sup>th</sup> **batten pockets** from the **head** of the sail.
- (3) The national letters and sail numbers shall be approximately parallel to the **batten pockets**.

#### (b) USE

- (1) The **sail** shall be hoisted on a halyard. The arrangement shall permit hoisting and lowering of the **sail** at sea. The halyard may not be adjusted while racing.

### C.10.4 JIB

#### (a) USE

- (1) The sail shall be hoisted on a halyard. The arrangement shall permit hoisting and lowering of the sail at sea. The halyard may be adjusted while racing.
- (2) RRS 50.4 Headsails shall not apply.

### C.10.6 GENNAKER

#### (a) USE

RRS 50.4 – Headsails, shall not apply, except that for the purpose of Appendix G – Advertising, the gennaker shall be deemed a spinnaker. No advertising shall be placed within 1m of tack / head nor on the front 2 luff panels

## Section D - Hull

### D.1 BUILDERS

D.1.1. **Hull** builders shall be licensed by Access Sailing Systems Pty Ltd and approved by the IFDS.

## Section E - Hull Appendages

### E.1 MANUFACTURERS

E.1.1. Manufacturers shall be licensed by Access Sailing Systems Pty Ltd and approved by the IFDS..

## Section F - Rigging

### F.1 STANDING RIGGING

#### F.1.1 MATERIALS

- (a) The standing **rigging** shall be of stainless steel.
- (b) The forestay and shrouds shall be 3.2 mm (1/8 inch) stranded wire.

#### F.1.2 DIMENSIONS

	Minimum	Maximum
Forestay length from centre of the bow fitting attachment hole to Mast Datum Point ...	670 mm	680 mm
Forestay diameter	3.2 mm	3.2 mm
Shroud diameter	3.2 mm	3.2 mm

### F.2 RUNNING RIGGING

#### F.2.1 MATERIALS

- (a) Materials are optional with regards to length, diameter and taper.
- (b) Wire is allowed for the main halyard for use with a halyard lock. No other wire is allowed.

## Section G – Sails

### G.1 PARTS

#### G.1.1 MANDATORY

- (a) Mainsail
- (b) Jib
- (c) Gennaker

### G.2 GENERAL

#### G.2.1 RULES

- (a) **Sails** shall comply with the **class rules** in force at the time of manufacture.

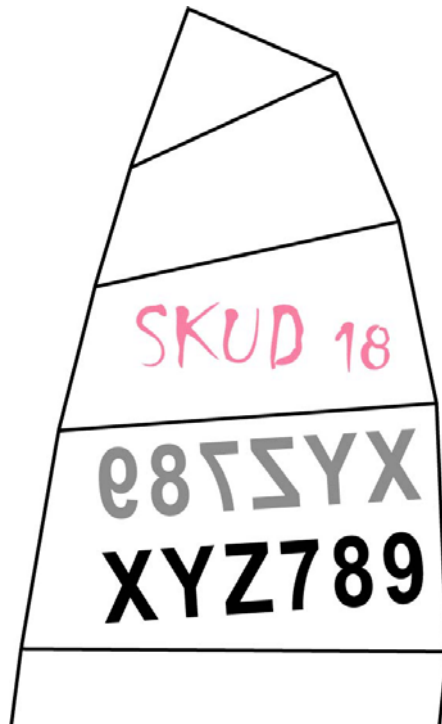
#### G.2.4 SAILMAKER

- (a) Manufacturers shall be licensed by Access Sailing Systems Pty Ltd and approved by the IFDS.

### G.3 MAINSAIL

#### G.3.1 IDENTIFICATION

- (a) The class insignia shall conform with the dimensions and requirements as detailed in the diagram below. (NOTE: A layout diagram and insignia graphics files are downloadable from the technical section of the class website - [www.accessclass.org](http://www.accessclass.org))



#### SKUD 18 Insignia

The Insignia colour is Hot Pink Pantone 812U.  
Insignia reads correctly from Port side.

#### Sail Numbers & National Letters

Sail Numbers & National Letters are Black.  
National Letters are displayed before Sail  
Numbers on one line.

Otherwise, sail identifications will be as per the  
ISAF RRS Appendix G.

# PART III – APPENDICES

The rules in Part III are **closed class rules**. Measurement shall be carried out in accordance with the ERS except where varied in this Part.

## Section H

### H.1 PARTS LIST

<b>Standard fittings list (Where no comment as per class rules)</b>	<b>Part #</b>	<b>Options or restrictions</b>
Top Mast	SKUDTopMast	Licensed supplier only
Mid Mast	SKUDMidMast	Licensed supplier only
Lower Mast	SKUDLowMast	Licensed supplier only
Spreader	SKUDSpr	Licensed supplier only
Spin Halyard block (top)	RF 1981	2mm +/- dia sheave
Main Halyard sheave	RF 9707012F	2mm +/- dia sheave
Mast Tip casting	SKUDTipCast	Licensed supplier only
Jib Halyard exit box	RF 9707012	2mm +/- dia sheave
Vang Pivot/Goosneck	RM680(m)	Licensed supplier only
Vang Foot	SKUDFoot	Licensed supplier only
HA halyard hook	HA345	
Mast Plug	SKUD Plug	Licensed supplier only
Shrouds Chainplate	RF 2331	<i>Minimum of 4mm adjustment and commercially available</i>
Boom section	SKUDBoom	Licensed supplier only
Boom Goosneck	RM678(m)	Licensed supplier only
Exit box (outhaul)	RF1985	2mm +/- sheave dia
Bullet blocks	RF892	5mm +/- sheave dia
Bowsprit	SKUDSPCom	Licensed supplier only
Small Exit Box	RF 1985	2mm +/- sheave dia
Forestay fitting	SKUDFS,Chain	Licensed supplier only
Main Sheet	SKUDMainS	8mm Polyester
Jib Sheet	SKUDJibS	6mm Polyester
Spinnaker Sheet	SKUDSpinS	6mm Polyester
Micro cheek block	RF1978	2mm +/- sheave dia
Micro block	RF 1951	2mm +/- sheave dia
Cleat and Swivel	RF 9508033	
Mast Step Channel	SKUDMastStep	Licensed supplier only
Gennaker Sock	SKUDSpinSock	Licensed supplier only
Micro Cheek Blocks	RF1978	2mm +/- sheave dia
Single block with Hook	RM 421	
Rudder Pin	SKUDRudderPin	Licensed supplier only
Rudder Gudgeon Top	SKUDGudTop	Licensed supplier only
Rudder Gudgeon Bottom	SKUDGudBot	Licensed supplier only
Rudder	SKUDRudder	Licensed supplier only
Keel Fin	SKUDFin	Licensed supplier only
Bulb	SKUDBulb	Licensed supplier only
Hull	SKUDHull	Licensed supplier only

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