IF18CA 2019 World Council Annual Meeting – 9. EDITORIAL CHANGES PART II

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Class Rules

International Formula 18 Class Association

INDEX

INTRODUCTION

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

The overall objective of the Formula 18 class is to offer popular, exciting, safe, and fair racing in 18-foot catamarans.

The class' further objective is to keep development under control, maintaining a good balance between cost and performance. Being open to any manufacturer (no license is required) promotes competition and keeps costs to sailors to a minimum.

The platform weight allows robust construction, increasing longevity. It also facilitates adding interchangeable parts to the platform, for example for use as a foiling catamaran outside F18 racing.

The use of crew extra weights allows for fairer racing across a wider crew weight range, with more women and youth involved as helms and crews.

Formula 18 assembled hulls, hull appendages, rigs and sails are measurement controlled.

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.

PLEASE REMEMBER:

THESE RULES ARE **CLOSED CLASS RULES** WHERE IF IT DOES NOT SPECIFICALLY SAY THAT YOU MAY – THEN YOU SHALL NOT.

COMPONENTS, AND THEIR USE, ARE DEFINED BY THEIR DESCRIPTION.

PART I – ADMINISTRATION

Section A – General

A.1 LANGUAGE

A.1.1 The official language of the IF18CA 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.1.3 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.2 ABBREVIATIONS

A.2.1

WS	World Sailing
IF18CA	International Formula 18 Class Association
NCA	National Formula 18 Class Association
ERS	Equipment Rules of Sailing
RRS	Racing Rules of Sailing

A.3 AUTHORITIES

A.3.1 The **class rule authority** of the class is WS which shall co-operate with the IF18CA in all matters concerning these **class rules.**

A.3.2 The **certification authority** of the class is the IF18CA.

A.3.3 The **certification authority** may delegate its authority to certify to an official measurer who is recognized by the **certification authority**.

A.3.4 Notwithstanding anything contained herein, the **certification authority** has the authority to withdraw a **certificate** and shall also do so on the request of WS.

A.4 ADMINISTRATION OF THE CLASS

A.4.1 WS has delegated its administrative functions of the class to the IF18CA. The IF18CA may delegate part or all of its functions, as stated in these **class rules**, to an NCA.

A.5 CLASS RULES CHANGES

A.5.1 At events organised under these **class rules** RRS 87 and WS Regulation 10.5(f) apply.

A.6 CLASS RULES AMENDMENTS

A.6.1 Amendments to these **class rules** are subject to the approval of WS in accordance with WS Regulations and the IF18CA in accordance with its constitution.

A.7 CLASS RULES INTERPRETATION

A.7.1 Interpretation of these **class rules** shall be made by WS, in consultation with the IF18CA, and in accordance with WS Regulations.

A.7.2 Interpretation of these **class rules** at an event shall be carried out in accordance with RRS (appendix N). The organising authority shall, as soon as practical, inform WS and the IF18CA of any interpretation.

A.8 INTERNATIONAL CLASS FEE AND WS BUILDING PLAQUE

A.8.1 The IF18CA shall pay the International Class Fee.

A.8.2 WS shall, after having received the International Class Fee for the **hulls**, send the WS Building Plaques to the IF18CA.

A.9 CERTIFICATION

A.9.1 A **certificate** for a **boat** or a **sail** shall record the following information:

(a) Class

(b) **Certification authority**

(c) Certificate number issued by the **certification authority**

(d) **Hull** or **sail** identification

(e) Confirmation of presence of builder's or sailmaker's declaration (see D.2.5 and G.2.4(a))

(f) Date of issue of initial **certificate**

(g) Date of issue of **certificate**

(h) **Corrector weight**, if required.

A.10 INITIAL CERTIFICATION

A.10.1 For a **certificate** to be issued to a **boat** or a **sail** not previously **certified**:

(a) **Certification control** shall be carried out by the **official measurer** who shall complete the appropriate documentation.

(b) The documentation and **certification** fee, if required, shall be sent to the **certification authority**.

(c) Upon receipt of a satisfactorily completed documentation and **certification** fee, if required, the **certification authority** may issue a **certificate**.

A.11 VALIDITY OF CERTIFICATE

A.11.1 A **certificate** becomes invalid upon:

(a) the change to any items recorded on the **boat certificate** as required under A.9.1(a) through (g)

(b) any increase of **corrector weights**

(c) withdrawal by the **certification authority**

(d) the issue of a new **certificate**.

A.12 RE-CERTIFICATION

A.12.1 The **certification authority** may issue a **certificate** to a previously **certified boat** or **sail**:

(a) when it is invalidated under A.11.1(a) or (b), after receipt of the old **certificate**, and **certification** fee if required.

(b) when it is invalidated under A.11.1(c), at its discretion.

(c) in other cases, by application of the procedure in A.10.

A.13 RETENTION OF CERTIFICATION DOCUMENTATION

A.13.1 The **certification authority** shall retain the original documentation upon which the current **certificate** is based.

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 AND CERTIFICATION

B.1.1 The **boat** shall:

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

(b) have a complete set of valid **boat** and **sail certificates**.

(c) have valid **certification marks** as required.

B.2 BUOYANCY CHECKS

B.2.1 A race committee may require that a **boat** shall pass a buoyancy test.

B.3 CLASS ASSOCIATION MARKINGS

B.3.1 The **mainsail** shall carry the class insignia in the required position (Appendix C).

PART II – REQUIREMENTS AND LIMITATIONS

The intention of these **class rules** is to ensure that the boats are as alike as possible in all aspects affecting performance as F18 is a measurement-controlled class. The **crew** and the **boat** shall comply with the **class rules** in part II when *racing*. In case of conflict, section C shall prevail.

The **class rules** in part II are **closed class rules** where anything not specifically permitted by the **class rules** is prohibited. **Certification control** and **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 shall apply.

(b) RRS 49.1 and RRS Appendix G.1.3(d) shall not apply.

C.2 ADVERTISING

C.2.1 LIMITATIONS

Advertising shall only be displayed in accordance with the WS Advertising code.

C.3 CREW

C.3.1 LIMITATIONS

(a) The **crew** shall consist of 2 persons.

(b) **Crews** shall be members of their NCA or, in countries where there is no NCA, of the IF18CA.

C.3.2 WEIGHTS

(a) The minimum combined **crew** weight is 115 kg

(b) **Crews** weighing less than 150 kg combined shall carry extra weight equal to half the difference between their actual weight and 150 kg. Any weight of the **boat** in excess of 180 kg will count towards **crew** extra weight.

(c) C.3.2(b) does not apply if the **crew** uses both the Small Jib (maximum **sail** area 3.60 m²) and Small Gennaker (maximum **sail** area 19.00 m²), and provided these **sails** have been certified before 16 December 2018.

(d) **Crew** extra weights shall be of metal and securely fastened on the port side, either to the outside of the front beam or to the strut, and shall be removable for checking.

(e) **Crews** may be weighed at registration for a regatta and may be reweighed at any time by the race committee. **Crews** shall be dressed in underwear or swimming costume without shoes when weighed.

C.4 PERSONAL EQUIPMENT

C.4.1 MANDATORY

Crews shall wear **personal floatation devices** to the minimum standard EN393, ISO 12402-5 (CE 50 Newtons), USCG Type III, or AUS PFD 2.

C.4.2 OPTIONAL

(a) **Trapeze** harness for each member of **crew**

(b) All other **personal equipment**.

C.5 PORTABLE EQUIPMENT

C.5.1 MANDATORY

(a) Towing line, minimum 15 metres long and minimum 6 mm diameter

(b) Items required in accordance with the notice of race.

C.5.2 OPTIONAL

(a) Steering compass(es)

(b) Timing device(s)

(c) Knife(s)

(d) Items permitted in accordance with the notice of race.

C.6 BOAT

C.6.1 WEIGHT

The weight of the **boat** shall be no less than 180 kg. The weight shall be taken excluding all **portable equipment** as listed in C.5.

C.6.2 CORRECTOR WEIGHTS

(a) A maximum of 7 kg of **corrector weight** is allowed to comply with the **boat** minimum weight.

(b) **Corrector weights** shall be of metal and securely fastened on the starboard side, either to the outside of the front beam or to the strut, and shall be removable for checking.

C.7 HULLS

C.7.1 FITTINGS

Hatch covers, and drain bungs if fitted, shall be kept in place while *racing*.

C.8 HULL APPENDAGES

C.8.1 LIMITATIONS

Only two Daggerboards and two **rudders** may be used during an event, except when lost or damaged beyond repair. Such replacement may only be made with the approval of the race committee.

C.8.2 USE

(a) There shall be a maximum of one Daggerboard and one **rudder** per **hull**.

(b) The Daggerboards and the **rudders** shall be positioned in the centre-plane of the **hulls**.

(c) Each Daggerboard shall not protrude more than 1400 mm from the bottom of the **hull**.

(d) Daggerboards may be angled inwards from the Boat Centre-Plane only if this is caused by the curvature of the front beam as per rule D.4.2(a).

(e) The **rudders** shall be hung on the transoms.

C.9 RIG

C.9.1 LIMITATIONS

Only one set of **spars** shall be used during an event, except when lost or damaged beyond repair. Such replacement may only be made with the approval of the race committee.

C.9.2 DIMENSIONS

When the **mast** is stepped (Appendix C)

(a) the maximum distance between the **mast datum point** and the top of the front beam shall be 120 mm;

(b) the maximum distance between the **mast upper point** and the top of the front beam shall be 9100 mm.

C.9.3 BOWSPRIT

(a) The **bowsprit** shall be in a fixed fore and aft position on the longitudinal centreline of the **boat**.

(b) The **bowsprit** shall be attached to the front beam.

(c) The length of the **bowsprit** shall not exceed the distance from the centre of the front beam to a vertical line touching the most forward part of the **hull** plus 800 mm, with the **bowsprit** measured when horizontal.

C.9.4 STANDING RIGGING

(a) The **forestay** shall be on the longitudinal centreline of the **boat**.

(b) It is permitted to adjust the **standing rigging** while not *racing*.

C.9.5 RUNNING RIGGING

The **running rigging** shall be led outside the **mast spar**.

C.10 SAILS

C.10.1 LIMITATIONS

S**ails** shall not be replaced during a regatta, except when lost or damaged beyond repair. Such replacement may only be made with the approval of the race committee. The race committee shall then remove or cross out any **event limitation mark** attached to the replaced **sail**.

C.10.2 MAINSAIL

(a) IDENTIFICATION

The national letters and **sail** numbers shall comply with the RRS appendix G.

(b) USE

(1) The **sail halyard** arrangement shall permit hoisting and lowering of the **sail** whilst afloat.

(2) The **luff** rope shall be in the **spar** groove.

C.10.3 JIB

(a) The **sail** shall be set on the **forestay**.

(b) The **tack point** shall not be fixed below the apex of the bridle wire.

C.10.4 GENNAKER

The **sail** shall be set between the **mast** and the **bowsprit**.

Section D – Assembled Hulls

D.1 PARTS

D.1.1 MANDATORY

(a) **Hull** shells

(b) Front beam

(c) Rear beam

(d) Trampoline

D.2 GENERAL

D.2.1 RULES

The **hulls** shall comply with the **rules** in force at the time of initial **certification.**

D.2.2 MODIFICATIONS, MAINTENANCE AND REPAIR

Modification, maintenance and repair of **hulls** is permitted, without re-**certification**, provided these parts continue to comply with these **class rules**.

D.2.3 CERTIFICATION

The **official measurer** shall certify the **hulls**, and shall number and affix **certification marks** to the transoms.

D.2.4 IDENTIFICATION

(a) **Hulls** shall have a serial number.

(b) **Hulls** shall have WS Building Plaques affixed to the transoms.

D.2.5 BUILDERS

A builder's declaration is required (Appendix A).

D.2.6 DEFINITIONS

(a) BOAT CENTRE-PLANE

The Boat Centre-Plane is the vertical longitudinal plane of the **boat** that passes through the centre point of the front and rear beams.

(b) TRAMPOLINE

The Trampoline is an item of equipment with the primary function of carrying the **crew**, which covers the area between the front beam, the rear beam, and the **hulls**.

D.2.7 CONSTRUCTION

The **hulls** shall be joined rigidly by a front beam and a rear beam.

D.2.8 DIMENSIONS

(a) The maximum **hull length** shall be 5.52 m.

(b) The maximum **boat beam** shall be 2.60 m.

D.2.9 FITTINGS

(a) MANDATORY

(1) **Shroud** attachment fittings

(2) **Forestay** bridle attachment fittings

(3) **Bowsprit** attachment fittings

(b) OPTIONAL

(1) Trampoline attachment fittings

(2) **Sail** and **rig** adjustment fittings

(3) Foot loops, toe straps, **trapeze** gear, **crew** restraining line

(4) **Rudder** fittings

(5) Daggerboard retention/placement fittings

(6) Non-slip surfaces

(7) Steering compass(es) and compass bracket(s).

D.3 HULL SHELLS

D.3.1 MATERIALS

(a) The **hull** shells may be built from epoxy, polyester and/or vinylester resin, wood, injected plastic, glass fibre, glue, gel coat, paint, and/or metal fastenings. A core of PVC or balsa or felt may be used.

(b) Vinyl or other film may be applied to the **hull** surface (see RRS 53).

D.3.2 CONSTRUCTION

(a) Each **hull** shall have at least one inspection hatch.

(b) The following are permitted: normal reinforcement, bulk heads, sub decks, a board case positioned in the centre-plane of the **hull**, sealing strips for Daggerboard slots, drain bungs, other fittings, and holes for the passage of lines.

D.4 BEAMS

D.4.1 MATERIALS

(a) The beams shall be made of extruded aluminium of constant section.

(b) Materials for strut and tie, if fitted, are optional, except for carbon fibre.

D.4.2 CONSTRUCTION

(a) The maximum curvature of the beams shall be 15 mm (Appendix C).

(b) Reinforcements are permitted inside the beams for supporting fixing bolts.

(c) Any holes for fittings may only be as large as necessary to house the fittings.

(d) The **mast** step on the front beam shall be fixed on the longitudinal centreline of the **boat**.

(e) A local reinforcement is permitted inside the front beam for the **mast** step.

(f) The front beam may have a strut and tie.

(g) The front beam may incorporate a **jib** traveller track and/or a self-tacking system.

(h) The rear beam may incorporate a **mainsail** traveller track.

D.5 TRAMPOLINE

D.5.1 MATERIALS

The type of material used is optional, provided that the body of the sheet of material is capable of being folded flat in any direction without damaging other than by creasing.

D.5.2 CONSTRUCTION

(a) The Trampoline shall consist of one or more sheets of material.

(b) Vertical separation of sheets is permitted. The maximum vertical distance between the outer surface of separated sheets shall be 200 mm.

(c) The Trampoline may partly cover the front beam, the rear beam and/or the **hulls**.

(d) The following are permitted: stitching, welding, glues, zips, tapes, hook-and-loop fasteners, slides, bolt ropes, storage bags, pouches, holes, fittings, and items as prescribed or permitted by other applicable *rules*.

Section E – Hull Appendages

E.1 PARTS

E.1.1 MANDATORY

(a) **Rudders**

(b) Tillers

(c) Tiller connecting bar

(d) **Rudder** pins or pintles

(e) **Rudder** gudgeons.

E.1.2 OPTIONAL

(a) Daggerboards

(b) Tiller extension.

E.2 GENERAL

E.2.1 RULES

Hull appendages shall comply with the **class rules** in force at the time of **certification**.

E.2.2 MODIFICATIONS, MAINTENANCE AND REPAIR

Modification, maintenance and repair of **hull appendages** is permitted, without re-**certification**, provided these parts continue to comply with these **class rules**.

E.2.3 CERTIFICATION

The **official measurer** shall certify the **hull appendages**, and shall number and affix

the **certification marks** near the upper end of the **hull appendages**.

D.2.6 DEFINITIONS

DAGGERBOARD

A Daggerboard is either a **daggerboard** or a **centreboard**.

E.3 DAGGERBOARDS

E.3.1 MATERIALS

The Daggerboards may be built from epoxy, polyester and/or vinylester resin, carbon fibre, wood, glass fibre, foam plastic, glue, gel coat, paint, and/or metal fastenings.

E.3.2 CONSTRUCTION

(a) Daggerboards shall have no moving parts.

(b) The cross sections of Daggerboards shall be symmetrical about their centre-plane.

(c) Daggerboards shall be straight. The manufacturing tolerance is 10 mm of curvature over the total length of the board.

(d) The centre of mass of Daggerboards shall be in the top half of the board.

(e) Pivoting, height restraining or adjusting systems are permitted.

E.3.3 WEIGHTS

The maximum weight of each Daggerboard is 5.5 kg.

E.4 RUDDER BLADES, RUDDER STOCKS AND TILLER

E.4.1 MATERIALS

(a) The **rudder** blades may be built from epoxy, polyester and/or vinylester resin, carbon fibre, wood, glass fibre, foam plastic, glue, gel coat, paint, and/or metal fastenings.

(b) Materials for the **rudder** stocks are optional, except carbon fibre.

(c) The tiller connecting bar shall be made of aluminium profile of constant section.

E.4.2 CONSTRUCTION

(a) The cross section of each **rudder** blade shall be symmetrical about their centre-plane.

(b) The centre of mass of **rudder** blades shall be in the top half of the blade.

(c) The tiller connecting bar may have reinforcement in the central fittings and to support connection to tiller arms.

(d) Each **rudder** shall have a retention device capable of retaining the **rudder** in event of capsize.

(e) Pivoting and/or lowering systems are permitted.

E.4.3 WEIGHTS

The minimum weight of each **rudder** assembly comprising blade, stock with fittings and tiller is 3 kg.

Section F – Rig

F.1 PARTS

F.1.1 MANDATORY

(a) **Mast**

(b) **Standing rigging**

(c) **Running rigging**

(d) Other rigging

(e) **Bowsprit** including **gennaker** snuffer mouth and snuffer bag

F.1.2 OPTIONAL

(a) **Boom**

(b) **Sail** and **rig** adjustment and other fittings

(c) Mechanical wind indicator(s)

F.2 GENERAL

F.2.1 RULES

The **spars** and their fittings shall comply with the **class rules** in force at the time of **certification** of the **spar**.

F.2.2 MODIFICATIONS, MAINTENANCE AND REPAIR

Modification, maintenance and repair of **hulls** is permitted, without re-**certification**, provided these parts continue to comply with these **class rules** and, with respect to the **mast**, provided the Mast Area is not increased.

F.2.3 CERTIFICATION

The **official measurer** shall certify the **mast**, and shall number and affix the **certification mark** to the **mast** near the bottom edge of the mast extrusion on starboard side.

F.3 MAST

F.3.1 DEFINITIONS

(a) MAST DATUM POINT

The **mast datum point** is located at the front edge of the mast **spar**, on the longitudinal axis, on the lower end of the profile (Appendix C).

(b) MAST AREA

The Mast Area is the area calculated by multiplying the **mast** extrusion length by the half circumference of the **mast spar**.

F.3.2 MATERIALS

(a) The **mast** extrusion shall be made of aluminium of constant section.

(b) Materials for fittings are optional except for that carbon fibre is only allowed in cleats, turning blocks and spreaders.

F.3.3 CONSTRUCTION

(a) The **mast** shall have one fixed **sail** groove, which shall be an integral form of the

mast spar and shall be of the same material.

(b) The **mast** may have reinforcement at fitting points.

(c) The **mast** shall have masthead fittings, which shall include the mainsail sheave and locking device, hounds fittings and a heel fitting.

(d) The following are permitted: pair of **spreaders**, **gennaker halyard** guide and block, gooseneck, and items as permitted or prescribed by other applicable *rules*.

F.3.4 DIMENSIONS

The **mast** shall be watertight from 450 mm above the **mast datum point** upwards.

	Maximum
Mast spar circumference	385 mm
Shroud height	6750 mm
Gennaker hoist height	8150 mm

F.4 BOOM

F.4.1 MATERIALS

The **boom,** if fitted, shall be made of extruded aluminium of constant section**.**

F.5 BOWSPRIT

F.5.1 MATERIALS

(a) The **bowsprit** shall be made of extruded aluminium of constant section.

(b) Materials for the snuffer mouth are optional except that carbon fibre is not allowed on **boats** certified after 1 January 2007.

F.5.2 CONSTRUCTION

(a) The **bowsprit** shall have an end cap that is smooth, rounded, and blunt.

(b) The **bowsprit** shall have bridle attachment points.

F.6 STANDING RIGGING

F.6.1 MATERIALS

The **standing rigging** shall be of 1×19 or 1×7 stranded stainless-steel with the exception of **bowsprit** bridles which may also be of rope.

F.6.2 MANDATORY

(1) A **forestay** and **forestay** bridles of minimum 4 mm diameter

(2) **Shrouds** of minimum 4 mm diameter

(3) **Bowsprit** bridles of minimum 2.5 mm diameter.

F.6.3 OPTIONAL

(1) A pair of diamond wires of minimum 4 mm diameter.

F.7 RUNNING RIGGING

F.7.1 MANDATORY

(1) **Mainsail halyard**
(2) **Mainsail sheet**
(3) **Jib halyard**
(4) **Jib sheet(s)**
(5) **Gennaker halyard**
(6) **Gennaker sheet(s)**
(7) **Gennaker** retraction line(s).

F.8 OTHER RIGGING

F.8.1 MATERIALS

Trapeze wires shall be of 1×19 or 1×7 stranded stainless-steel, or rope.

F.8.2 MANDATORY

(1) **Trapeze** wires, which may have adjustable height, of minimum 2.5 mm diameter
(2) Righting line, minimum 3.5 metres long and minimum 8 mm diameter.

Section G – Sails

G.1 PARTS

G.1.1 MANDATORY

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

G.2 GENERAL

G.2.1 RULES

Sails shall comply with the **rules** in force at the time of **certification**.

G.2.2 MODIFICATIONS, MAINTENANCE AND REPAIR

Modification, maintenance and repair of a **sail** is permitted, without re-**certification**, provided it continues to comply with these **class rules** and, with respect to the **mainsail**, provided the **sail** area is not increased.

G.2.3 CERTIFICATION

(a) The **official measurer** shall certify each **sail** and shall affix the **certification mark** near the tack point of the **sail** on starboard side**.**
(b) For measurement the battens shall be placed in the **batten pockets** without tension.
(c) When measuring the **luff** rope of the **mainsail** shall be excluded.

G.2.4 SAILMAKER

(a) A sailmaker's declaration is required with each **sail** (Appendix B).

(b) Each **sail** shall have a plaque or label near the **tack point** that shall be completed by the sailmaker, indelibly marked, with name of manufacturer, materials used, date of manufacture, and serial number.

G.3 MAINSAIL

G.3.1 MATERIALS

(a) The **ply** shall be of polyester materials as detailed in the cloth list (Appendix D).

(b) **Stiffening** shall be of any material except for carbon fibre.

(c) **Primary** and **secondary reinforcement** is permitted.

(1) **Primary reinforcement** shall be of woven polyester, or any cloth as detailed in the cloth list

(2) **Secondary reinforcement** shall be any cloth as detailed in the cloth list.

(d) The **window** shall comply with the cloth list.

G.3.2 CONSTRUCTION

(a) The construction shall be: **soft sail, single-ply sail**.

(b) The **body of the sail** shall be of the same **ply** throughout with the exception of the **window**.

(c) The following are permitted: stitching, glues, tapes, **luff** ropes, corner eyes, **stiffening** with fixings, Cunningham eye or pulley, zips, hook-and-loop fasteners, reefing points, **batten pocket patches**, **batten pocket** elastic, **batten pocket** end caps, **mast** and **boom** slides, **leech** line with cleat, tell tales, **sail** shape indicator stripes, and items as permitted or prescribed by other applicable *rules*.

(d) A **window** shall be placed in the **sail**.

G.3.3 DIMENSIONS

	Maximum
Sail area and Mast Area, combined	17.00 m²
Top width	1000 mm
Upper width at **upper leech point** 1500 mm from **head point** (Appendix C)	1290 mm
Angle between the **luff** and the **head** (Appendix C)	90°
Window (Appendix C): shortest distance between	
- **head point** to **window area** edge	7630 mm
- **clew point** to **window area** edge	480 mm
- **tack point** to **window area** edge	440 mm
Tabling width	115 mm

G.4 JIB

G.4.1 MATERIALS

(a) The **ply** shall be of polyester materials as detailed in the cloth list (Appendix D).

(b) **Stiffening** shall be of any material except for carbon fibre.

(c) **Primary** and **secondary reinforcement** is permitted.

(1) **Primary reinforcement** shall be of woven polyester, or any cloth as detailed in the cloth list.

(2) **Secondary reinforcement** shall be any cloth as detailed in the cloth list.

(d) The **window** shall comply with the cloth list.

G.4.2 CONSTRUCTION

(a) The construction shall be: **soft sail**, **single-ply sail**.

(b) The **body of the sail** shall be of the same **ply** throughout with the exception of the **window**.

(c) The **jib** may have either a maximum of four battens**,** no external part of which exceeding 250 mm from the **leech**, OR a maximum of three full length battens**,** which shall have no moving parts and be made of glass fibre.

(d) The **leech** shall not be convex.

(e) The following are permitted: stitching, glues, tapes, corner eyes, **stiffening** with fixings, Cunningham eye or pulley, zips, hook-and-loop fasteners, sleeve luffs, **batten pocket patches**, **batten pocket** elastic, **batten pocket** end caps, **leech** line with cleat, tell tales, and items as permitted or prescribed by other applicable *rules.*

(f) A **window** shall be placed in the sail.

G.4.3 DIMENSIONS

	Maximum
Sail area	4.30 m²
Top width	50 mm
Batten width (full length battens)	40 mm
Batten pocket outside **width**	80 mm
Window: shortest distance between	
- **head point** to **window area** edge	XXX mm
- **clew point** to **window area** edge	XXX mm
- **tack point** to **window area** edge	XXX mm
Tabling width	115 mm

heeft opmaak toegepast: Tekstkleur: Rood

heeft opmaak toegepast: Tekstkleur: Rood

heeft opmaak toegepast: Tekstkleur: Rood

G.5 GENNAKER

G.5.1 MATERIALS

(a) The **ply** shall be of nylon or polyester materials as detailed in the cloth list (Appendix D).

(b) **Primary** and **secondary reinforcement** is permitted at the **sail corners** and the recovery points.

(1) **Primary reinforcement** shall be of woven polyester, or any cloth as

detailed in the cloth list.

(2) **Secondary reinforcement** shall be any cloth as detailed in the cloth list.

(c) Tapes may be of polyester or spectra.

G.5.2 CONSTRUCTION

(a) The construction shall be: **soft sail**, **single ply sail**.

(b) The **body of the sail** shall consist of the same **ply** throughout.

(c) The following are permitted: stitching, glues, tapes, corner eyes, recovery line eyes, tell tales, **leech** and **luff** lines, and items as permitted or prescribed by other applicable *rules*.

G.5.3 DIMENSIONS

	Minimum	Maximum
Sail area		21.00 m²
Ratio of **half width** / **foot length**	75 %	

Appendix A.

International Formula 18 Class Association

Builder's declaration of rule compliance

In accordance with the International Formula 18 Class Association (IF18CA) Class Rules, I declare that the **boat** which has been issued the serial number ……. ……. has been constructed in full compliance with the IF18CA Class Rules on the date of …….

This declaration does not apply to the **sails**.

I confirm that compliance with the rules has been established, and technical data sheets on materials shall be made available to IF18CA Chief Measurer at their request.

Builder Declaration	
Full Name:	
Representing:	
Signature:	
Date:	

Appendix B.

International Formula 18 Class Association

Sailmaker's declaration of rule compliance

In accordance with the International Formula 18 Class Association (IF18CA) Class Rules, I declare that the following **sails** have been constructed in full compliance with the IF18CA Class Rules on the date of …….

Sail	**Serial No**
Mainsail	
Jib	
Gennaker	

(strike through all that do not apply)

I confirm that compliance with the Class Rules has been established, and technical data sheets on materials shall be made available to the IF18CA Chief Measurer at their request.

Sailmaker Declaration	
Full Name:	
Representing:	
Signature:	
Date:	

APPENDIX C. CLASS DRAWINGS

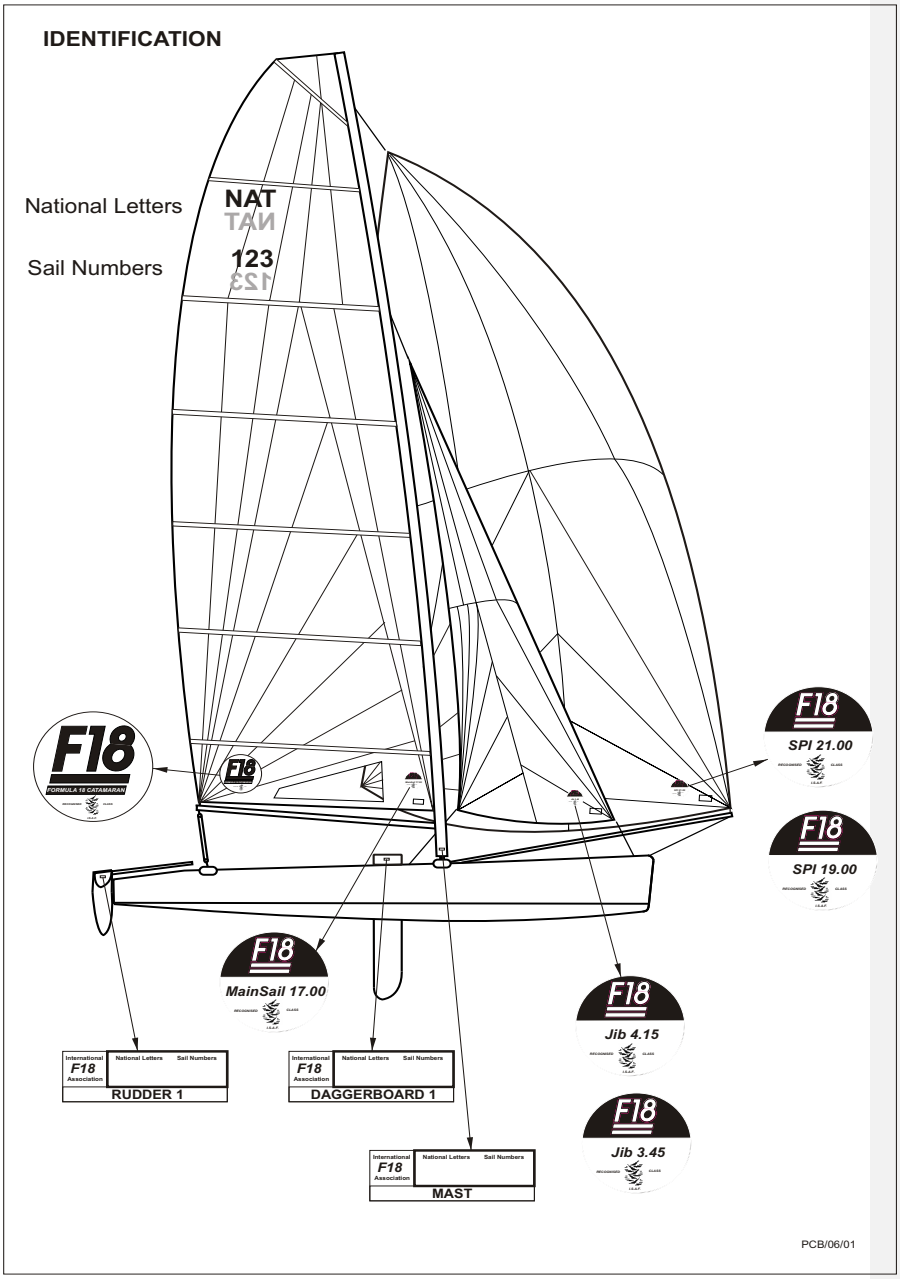
B.3 CLASS ASSOCIATION MARKINGS

D.4 BEAMS

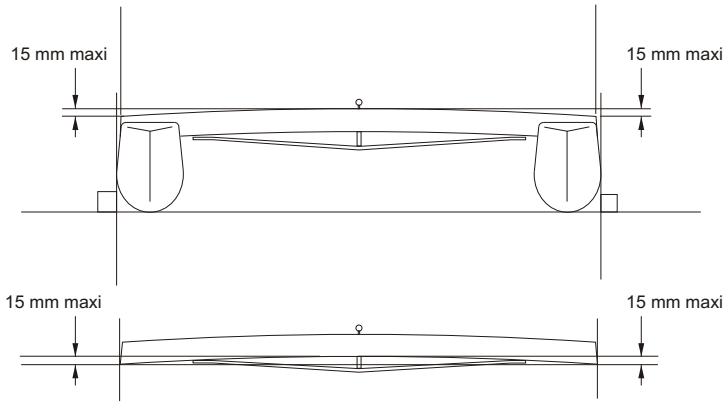
F.3 MAST

F.5 BOWSPRIT

G.3 MAINSAIL

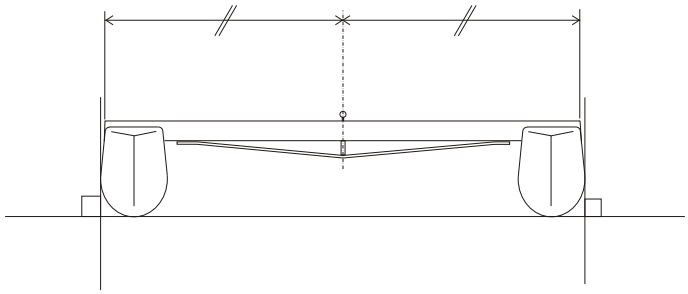

IDENTIFICATION
National Letters
NAT
Sail Numbers
123
F18
FORMULA 18 CATAMARAN
F18
SPI 21.00
F18
SPI 19.00
F18
MainSail 17.00
F18
Jib 4.15
F18
Jib 3.45
International F18 Association
National Letters
Sail Numbers
RUDDER 1
DAGGERBOARD 1
MAST
PCB/06/01

D.4 BEAMS
D.4.2 CONSTRUCTION
D.4.2 (b) The curvature of the beams.



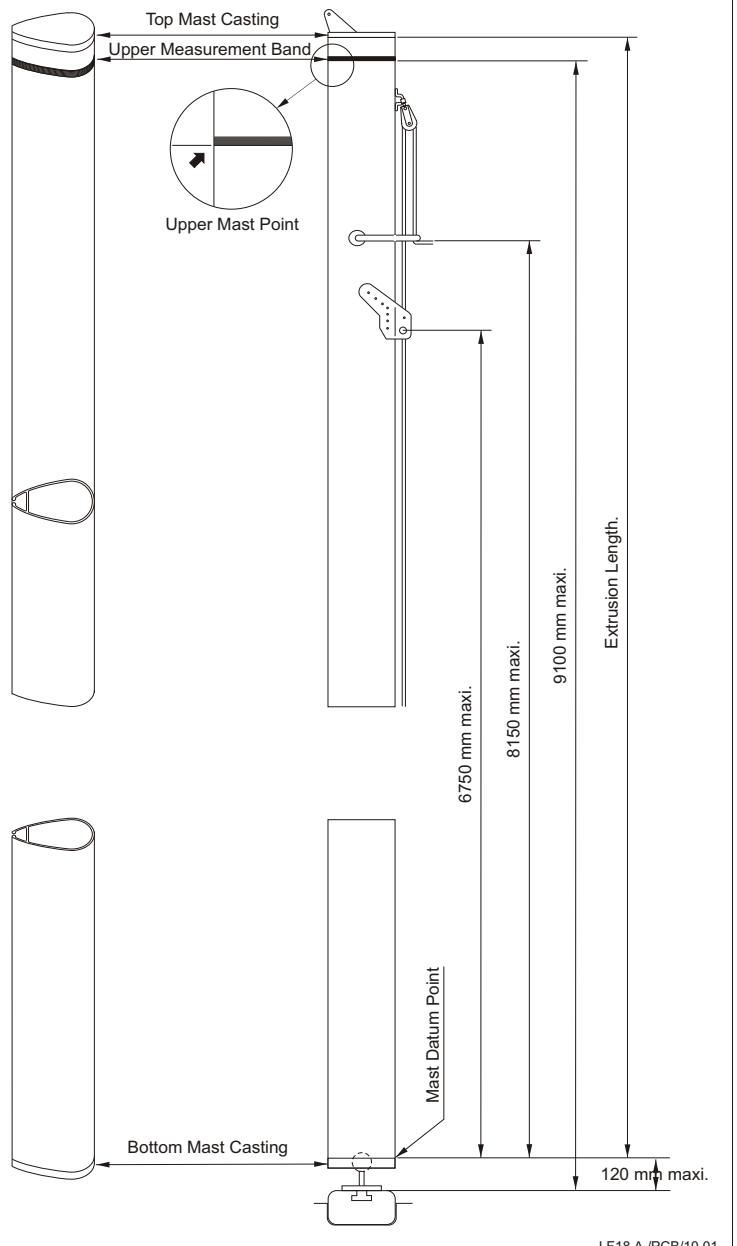
I.F18.A/PCB/10.01

D.4 BEAMS
D.4.2 CONSTRUCTION
D.4.2 (c) The mast pivot on the front beam.

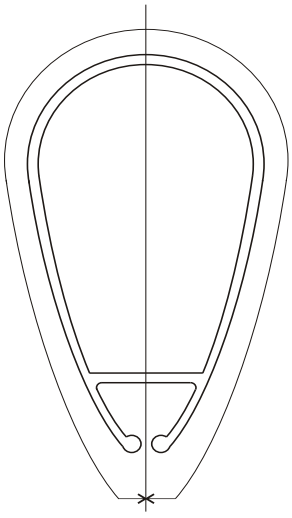


I.F18.A/PCB/10.01

F.2 GENERAL. F.2.5 (a) Mast Datum Point
F.3 MAST. F.3.2 DIMENSIONS.



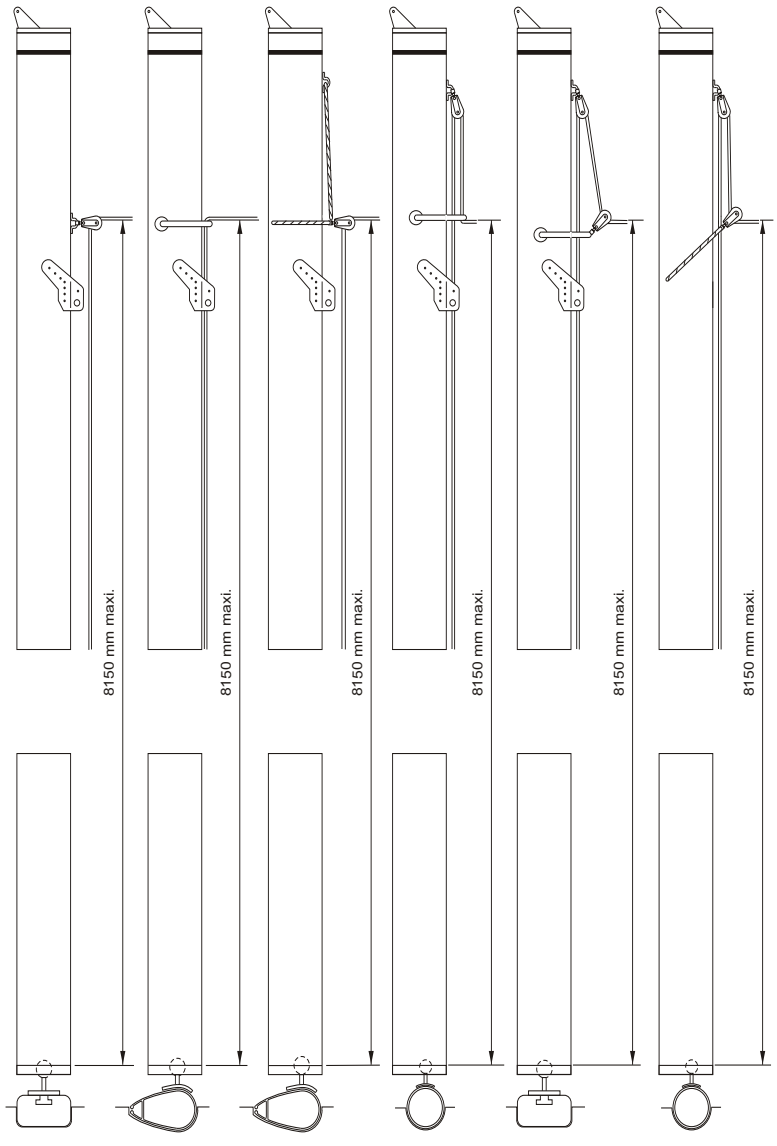
F.3 MAST
F.3.2 DIMENSIONS
MAST SPAR CIRCUMFERENCE



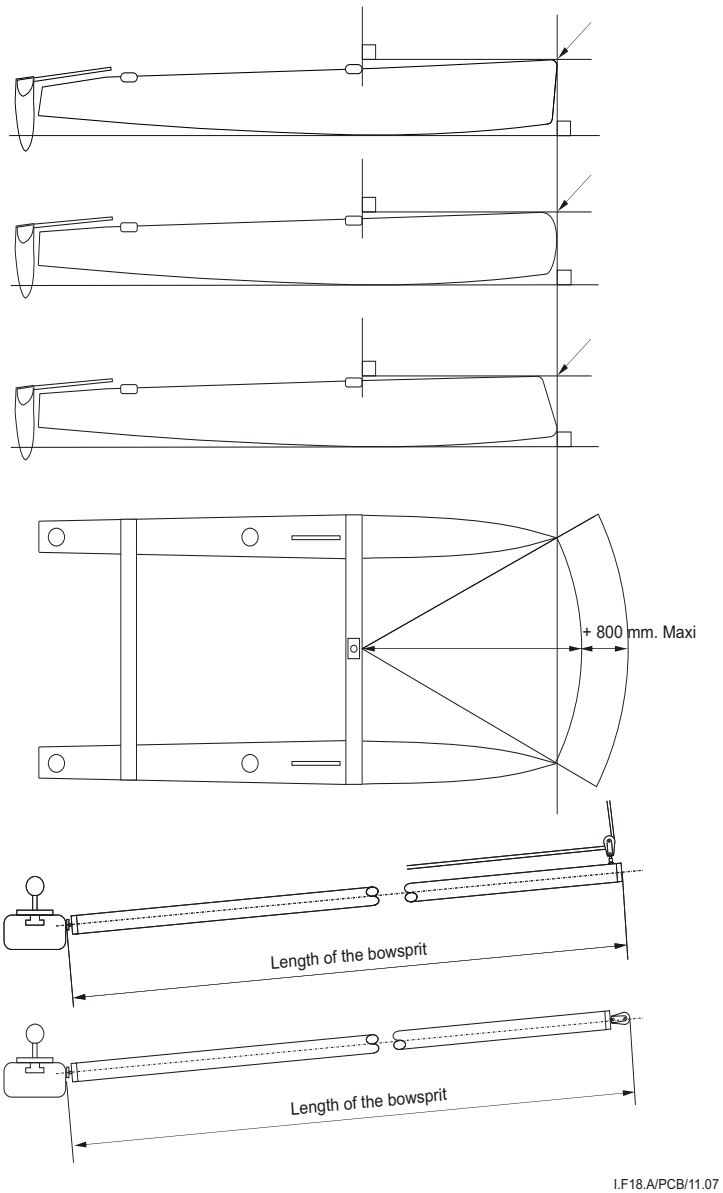
385 mm Maximum

I.F18.A/PCB 01/01

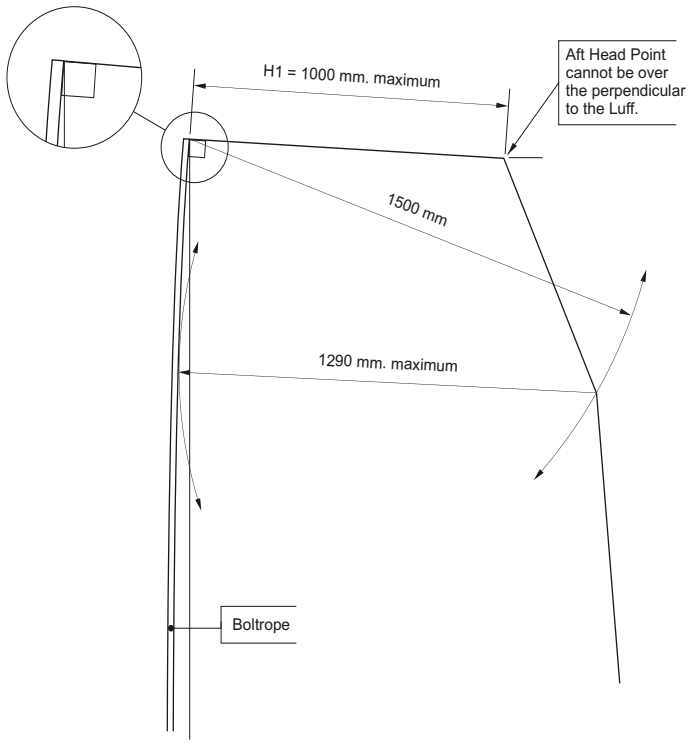
F.3 MAST
F.3.2 DIMENSIONS . SPINNAKER HOIST HEIGHT



F.5 BOWSPRIT

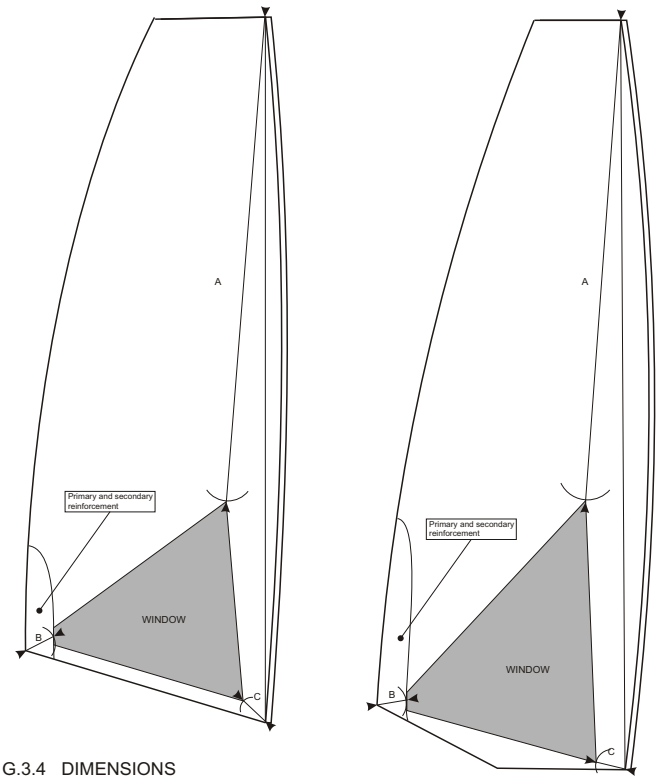

+ 800 mm. Maxi
Length of the bowsprit
Length of the bowsprit
I.F18.A/PCB/11.07

G.3 MAINSAIL
G.3.5 DIMENSIONS



I.F18.A/PCB. Mars 2007

MEASUREMENT PROCEDURE MAINSAIL WINDOW



G.3.4 DIMENSIONS

Window area (Appendix c)

- length A, from **head point** to **window area**, maximum 7630mm
- length B, from **clew point** to **window area**, maximum 480mm
- length C, from **tack point** to **window area**, maximum 440mm.

Pierre-Charles BARRAUD
IF18A, Chief measurer.
10/11/2018

[NOTE: NUMBERING TO BE CHANGED TO G.3.3]

APPENDIX D. CLOTH LIST

MAINSAIL / JIB See G.3.2 and G.4.1

Manufacturer	Cloth / Style	Material / Fibre	Status	Thickness (mil)
Bainbridge	Diax 120 P	Polyester	Active	1.5
Bainbridge	Diax 60 P	Polyester	Active	1.5
Bainbridge	Diax LSP 60	PEN	Active	1.5
Bainbridge	Diax LSP 90	PEN	Active	1.5
Challenge	MPTC 3	Polyester	Active	3.0
Challenge	MPX 06 P	PEN	Phasing out Dec. 2015	1.5
Challenge	MPX 06 P	Polyester	Active	1.5
Challenge	MPX 06 P	PEN	Phasing out Dec. 2015	2.5
Challenge	MPX 06 P	Polyester	Active	2.5
Challenge	MPX 12 P	PEN	Phasing out Dec. 2015	1.5
Challenge	MPX 12 P	Polyester	Active	1.5
Challenge	MW15OB	Polyester	Active	4.0
Contender	Apen 06	PEN	Active	1.5
Contender	Apen 06	PEN	Active	2.5
Contender	Apen 06	PEN	Active	3.0
Contender	Apen 12	PEN	Active	1.5
DIMENSION-POLYANT	Flex 08 P	PEN	Phasing out Dec. 2015	1.5
DIMENSION-POLYANT	PE(B) 05	PEN	Active	1.5
DIMENSION-POLYANT	PE(B) 10	PEN	Active	3.0
DIMENSION-POLYANT	PE(B) 10	PEN	Active	1.5
DIMENSION-POLYANT	PE(B) 15	PEN	Active	1.5
DIMENSION-POLYANT	PX 05	Polyester	Active	1.5
DIMENSION-POLYANT	PX 10	Polyester	Active	1.5
DIMENSION-POLYANT	PX 15	Polyester	Active	1.5
DIMENSION-POLYANT	PXB 10	Polyester	Active	1.5
DIMENSION-POLYANT	PXB 15	Polyester	Active	1.5
Pryde	F18 X	Polyester	Active	3.0

heeft opmaak toegepast: Markeren

heeft opmaak toegepast: Markeren

heeft opmaak toegepast: Markeren

heeft opmaak toegepast: Markeren

WINDOW

Any monofilm/polyester, not containing aramid or carbon fibres and not lighter than 3.0 oz

APPENDIX D. CLOTH LIST

GENNAKER See G.5.1

Manufacturer	Cloth / Style	Material	Finish	Status	Weight (g/m2)
Bainbridge	AIRX620NS	Nylon	Silicone	Active	37
Bainbridge	AIRX650	Nylon		Active	40
Bainbridge	AIRX700	Nylon		Active	45
Bainbridge	AIRX720NS	Nylon	Silicone	Phased out	45
Bainbridge	MPEX 70	Nylon		Active	40
Challenge	Elite 40 coated	Nylon		Active	40
Challenge	Elite 45 coated	Nylon		Active	45
Challenge	FibreMax	Nylon		Active	77
Contender	Dynakote 75	Nylon	Silicone	Active	40
Contender	Maxikote 100	Polyester		Active	50
Contender	Maxikote 70	Polyester		Active	38
Contender	Superkote 75	Nylon		Active	40
Contender	Superkote 80	Nylon		Active	42
Contender	Superkote 90	Nylon		Active	46
DIMENSION-POLYANT	6611 UCP Australia	Polyester		Active	34
DIMENSION-POLYANT	7722 UCP	Polyester		Phasing out Dec. 2015	40
DIMENSION-POLYANT	CHS 32	Nylon		Active	44
DIMENSION-POLYANT	CHS 90	Nylon		Phasing out Dec. 2015	96
DIMENSION-POLYANT	Dilon	Nylon		Active	43
DIMENSION-POLYANT	Formulon 75	Nylon		Active	39
DIMENSION-POLYANT	RPN 075	Nylon		Active	40
DIMENSION-POLYANT	SCN 32	Nylon	Silicone	Active	46
Mazu Sailcoth	N075C2	Nylon	Silicone	Active	40