



INTERNATIONAL FORMULA 18 CLASS
MEASUREMENT FORM
MEASUREMENT CERTIFICATE
I F18CA-2019 (version PCB2019/06)



IDENTIFICATION

Boat Certificate n° National letters & Sail N° : WS N° :
Hulls N° / N° coques : Hulls N° / N° coques :
Brand of boat : Date manufactured :

OWNER

owner / propriétaire :
Address / adresse :

Zip code / CP : City / ville :
Country / Pays E-mail

MEASURES & DESCRIPTION OF THE PLATFORM

C.6.1.(a) (1) Weight of the platform : 130 kg maximum
C.6.1.(b) (1) Weight boat ready to sail : 180 kg maximum
C.6.2.(a) Corrector weight 7 kg maximum
D.6.2.(a) Hull length / Longueur coque 5,52 m maximum
D.6.2.(b) Boat beam / Largeur plateforme 2,60 m maximum
C.7.1.(b) Inspection hatches / trappes Minimum 1 per hull
D.3.1.(a) Material
D.5.1.(a) Trampoline material Netting is not permitted
B.1.1.(c) have valid certification mark is required : Port side hull starboard side hull

DAGGERBOARDS & RUDDERS

	Port side	starboard side	
C.8.2.(a)(1) Daggerboards serial n° :	<input type="text"/>	<input type="text"/>	
E.3.4.(a) Daggerboards weight	<input type="text" value="4,000 kg"/>	<input type="text" value="4,120 kg"/>	5,5 kg maximum
E.3.3.(c) Daggerboards extension below the hull	<input type="text"/>	<input type="text"/>	1,40m maximum
B1.1.(c) Daggerboard certification mark F18	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
C.8.2. Rudders serial n° :	<input type="text"/>	<input type="text"/>	
E.4.6.(a). Rudders weight	<input type="text" value="3,800 kg"/>	<input type="text" value="3,660 kg"/>	Minimum 3 kg
B1.1.(c) Rudder certification mark F18	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

RESERVED NATIONAL CLASS ASSOCIATION

Initial boat certification Certification control carried by Date
Boat re-certification n° For main sail : jib Spinnaker Platform Other

Certification Authority

Complementary comments of the measurer

Ancien Propriétaire Rafael Martin-Prat

EQUIPEMENTS

Boat Certificate n°	A-ESP 51	National letters & Sail N°:	ESP 51	WS N°:	793
Owner :	F18 VOILE AQUITAINE	Brand of boat :	NACRA		

C.5 PORTABLE EQUIPMENT

C.5.1(a)1 One righting line	4,00	Minimum 4m. long
	10,00	Minimum Ø 10mm
C.5.1(a)2 One magnetic steering compas	1	Minimum One

C.9 RIG

C.9.2(a) Mast datum point shall not be more than 120mm above the top of the front bear	OK
C.9.7(a) Running rigging shall be led outside the mast spar	OK

D.4 BEAMS

D.4.2(a) The beams shall be extruded aluminium profiles of constant section	OK
D.4.2(b) The curvature of the beams shall be limited a maximum of 15mm	15

F.3 MAST

F.3.2(a) The mast shall be extruded aluminium profiles of constant section	OK	
F.3.3 Dimensions		
Mast spar circumference	0,375 m	0,385 m Maximum
Distance between upper point and front beam	9,050 m	9,100 m Maximum
Shroud height	6,750 m	6,750 m Maximum
Spinnaker hoist height	8,130 m	8,150 m Maximum
Top of the front beam to mast datum point	110	
Extrusion total length	9,135 m	
B.1.1(c) Have valid certification marks as required	<input type="checkbox"/>	

F.4 BOOM

F.4.1(a) The Boom, if fitted, Yes or no	<input checked="" type="checkbox"/>
F.4.1(a) shall be made and extruded aluminium profiles of constant section	OK

F.5 BOWSPRIT

F.5.1(a) The bowsprit shall be on the longitudinal centreline of the boat	OK		
F.5.1(b) The bowsprit shall be attached to the front beam	OK		
F.5.2(a) The bowsprit shall be made of aluminium of constant section	OK		
F.5.5(a) The length of the bowsprit shall not exceeded 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 vertical.	800		
F.6.2(b) (2) The bowsprit bridles may be of rope of minimum diameter 2,5mm	2,5		
Dimensions : Diameter Ø	40,000 m/m	Length	3,950 m
C.9.5(c) The bowsprit shall have an end cap that is smooth, rounded	OK		

F.6 STANDING RIGGING

F.6.1(a) The standing rigging of the stainless steel	<input checked="" type="checkbox"/>
F.6.2(a)(1) A forestay and bridles mini 4mm	<input checked="" type="checkbox"/>
F.6.2(a)(1) Shrouds mini 4mm	<input checked="" type="checkbox"/>
F.6.2(a)(3) Trapeze wires mini 2,5mm	<input checked="" type="checkbox"/>

F.7 RUNNING RIGGING

F.7.2(a)(1)(2) Mainsail halyard & sheet	<input checked="" type="checkbox"/>
F.7.2(a)(3)(4) Jib halyard & sheet	<input checked="" type="checkbox"/>
F.7.2(a)(5)(6) Spi. halyard & sheets	<input checked="" type="checkbox"/>
F.7.2(a)(7) Spi. Retraction lines	<input checked="" type="checkbox"/>

Complementary comments of the measurer

MEASURES AND CALCULATIONS AREA OF JIB & SPINNAKER

Boat Certificate n°

A-ESP 51

National letters & Sail N° :

ESP 51

WS N° :

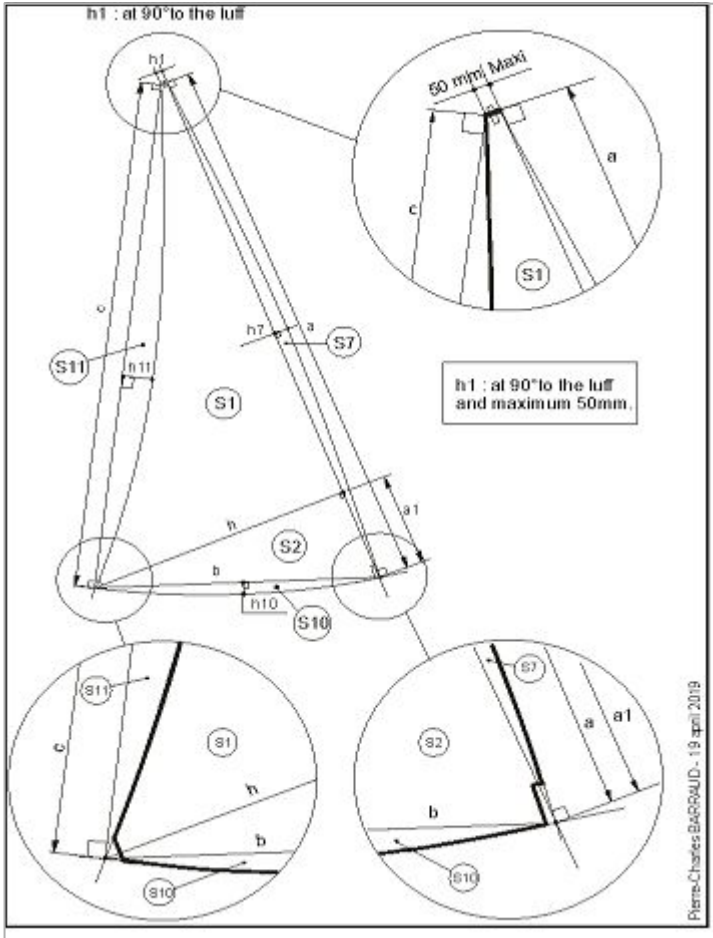
793

Owner :

F18 VOILE AQUITAINE

Brand of boat :

NACRA



Pierre-Charles BARRAUD - 19 avril 2019

G.4 JIB

Small Jib 3,60 m2

Large Jib 4,30 m2

Sailmaker / Voilier :

Performance Sails

Serial n° / N° série :

8519

Colour / Couleur :

Blanco

Batten number :

3 4.2(d)(2) maximum 3

Material / Matériau :

apen 06 3 mil

h1	0,000	$S1=((h+h1) \times (a-a1))/2$	4,3158
a	6,015	$S2=(h \times a1)/2$	0,0000
h7	0,040	$S7=((a \times h7)/3)^2$	0,1604
c	5,730	$S10 = 2/3 \times b \times h10$	0,0239
h11	-0,100	$S11 = 2/3 \times c \times h11$	-0,3820
h	1,435	JIB AREA Small Jib 3,60m2 Large Jib 4,30m2 4,118	
a1			
b	1,435		
h10	0,025		

G.4.2 Construction & G.4.3 Dimensions

The Leech shall not be convex	OK	Max
Top width	40	50mm
Batten width	40	40mm
Batten pocket outside width	4	80mm
Window area : minimum : 0,30 m2	0,31	
Dacron sticker F18 Small Jib 3,60m2	<input checked="" type="checkbox"/>	
Dacron sticker F18 Large Jib 4,30 m2	<input type="checkbox"/>	

G.5 SPINNAKER

Small Spinnaker 19,00m2 maximum

Large Spinnaker 21,00m2 maximum

Sailmaker / Voilier :

Performance Sails

Serial n° / N° série :

Y021S

Colour / Couleur :

AZUL

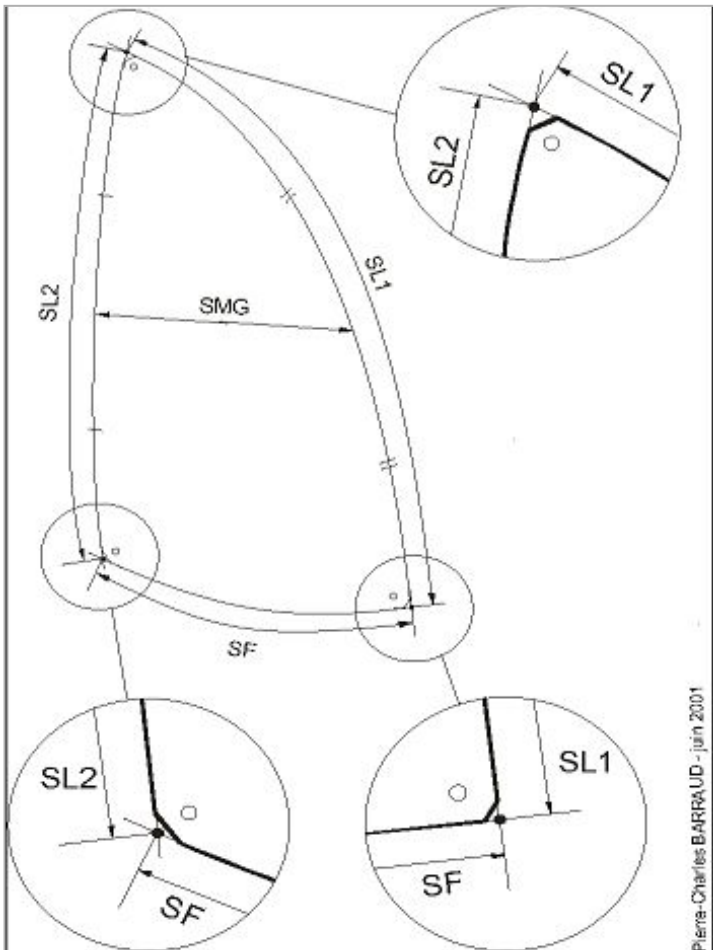
G.5.1 Material / Matériau :

SUPERCOTE 65

SL1	8,800	% SMG / SF	78,71
SL2	7,725	Spinnaker AREA 20,794	
SMG	2,865		
SF	3,640		

Dacron sticker F18 spinnaker 19,00 m2

Dacron sticker F18 spinnaker 21,00 m2



Pierre-Charles BARRAUD - juin 2001

RESERVED NATIONAL CLASS ASSOCIATION

Certification control carried by

Date

Carlos Ladron de Guevara

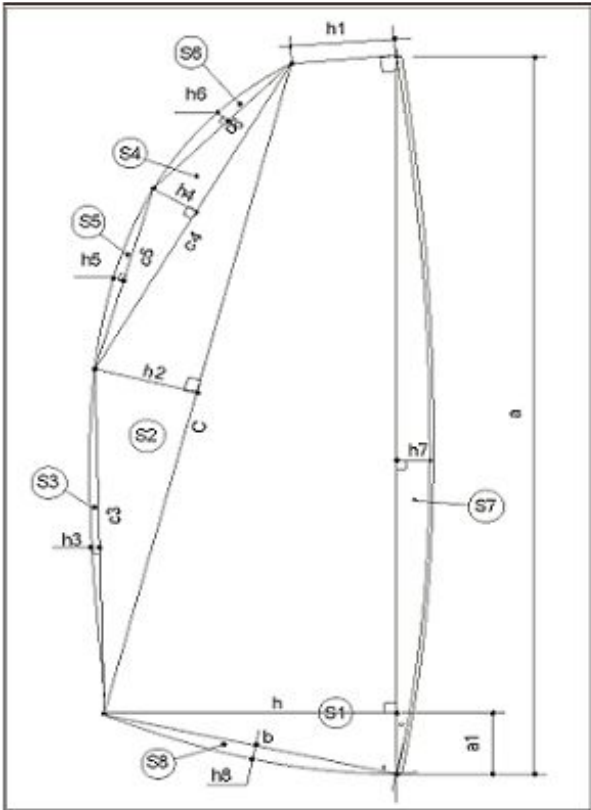
17/06/2018

Certification Authority

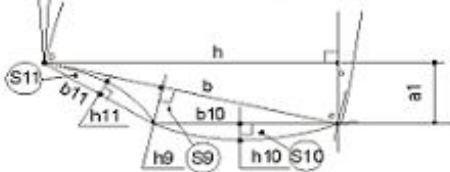
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MEASURES AND CALCULATIONS THE MAINSAIL CLASSIC OR DS

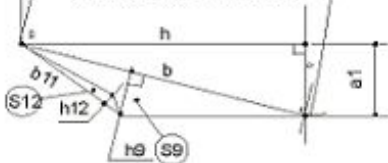
Boat Certificate n° **A-ESP 51** National letters & Sail N° : **ESP 51** WS N° : **793**
 Owner : **F18 VOILE AQUITAINE** Brand of boat : **NACRA**



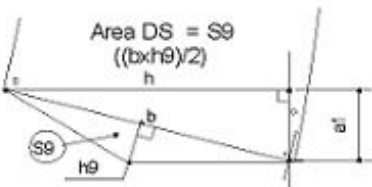
Area DS = S9+/-S10+/-S11
 $((bxh9)/2)+/-((b10xh10)/2)+/-((b11xh11)/2)$



Area DS = S9-S12
 $((bxh9)/2)-((b11xh12)/2)$



Area DS = S9
 $((bxh9)/2)$



Certification control carried by

Date

Carlos Ladron de Guevara

17/06/2018

Certification Authority

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MAST AREA

Length extrusion	9,135	Perimeter	0,375
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G.3 MAIN SAIL : 17 m maximum

Sailmaker / Voilier :	Performance Sails
Serial n° / N° série :	8523
Colour / Couleur :	blanco
Batten number :	3
G.3.2 Material / Matériau :	Apend 60

a	8,492	S1 : $((h+h1)(a-a1)+(a1xh))/2$	13,2736
h7	0,045	S2 : $(cxh2)/2$	0,9627
c	8,090	S3 : $2/3 c3xh3$	0,0867
h2	0,238	S4 : $(c4xh4)/2$	0,2424
c4	4,040	S5 : $2/3 c5xh5$	0,0718
h4	0,120	S6 : $2/3 c6xh6$	0,0900
c6	2,250	S7 : $2/3 axh7$	0,2548
h6	0,060	S8 : $2/3 bxh8$	0,0073
c5	1,795	S9 : $(b^*h9)/2$	
h5	0,060	S10 : $((b10^*h10)/3)^*2$	
c3	4,065	S11 : $((b11^*h11)/3)^*2$	
h3	0,032	S12 : $-(b11^*h12)/2$	
h	2,190	Main Sail AREA	14,989
b	2,202		
h8	0,005	Mast area / Surf. Du mât :	1,713
a1	0,380	Total AREA	16,702
h1	0,980		

h9	0,000
b10	0,000
h10	0,000
b11	0,000
h11	0,000
h12	0,000

h1 and h being parallel and perpendicular to the main luff, the main area is a trapezium and a right-angled triangle.
 h2 and h4 are perpendicular to the middle point between c and c4.
 H3, h5, h6, h7 and h8 are respectively the cambers of the cords c3, c5, c6, a and b.
 h10, h11 can be positive, negative or equal to zero.

G.3.5 DIMENSIONS

Top width excluding boltrope	980	Max 1,00 m
Upper wight at upper leech point 1500mm from the head point	1290	1,29 m
The angle between the luff ans the head	87	90°
Tabling width	11	115mm
Window area : minimum : 0,30 m2	0,9	

B.2 CERTIFICATION MARKS F18

Dacron sticker F18 main sail 17,00 m2	<input checked="" type="checkbox"/>
Class emblem F18	<input checked="" type="checkbox"/>