



**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.(b) (1) Weight boat ready to sail : 180 kg minimum
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

DAGGERBOARDS & RUDDERS

	Port side	starboard side	
C.8.2.(a)(1) Daggerboards serial n° :	<input type="text" value="NF18LDB-TH"/>	<input type="text" value="NF18LDB-TH"/>	
E.3.4.(a) Daggerboards weight	<input type="text" value="4,400 kg"/>	<input type="text" value="4,400 kg"/>	5,5 kg maximum
E.3.3.(c) Daggerboards extension below the hull	<input type="text" value="1,34"/>	<input type="text" value="1,34"/>	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" value="NF18RDE-TH"/>	<input type="text" value="NF18RDE-TH"/>	
E.4.6.(a). Rudders weight	<input type="text" value="3,700 kg"/>	<input type="text" value="3,800 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

EQUIPEMENTS

Boat Certificate n°	FRA 2021-001	National letters & Sail N°:	FRA 045	WS N°:	1 354
Owner :	MAISONNEUVE FRANÇOIS	Brand of boat :	NACRA (F18 EVOLUTION)		

C.5 PORTABLE EQUIPMENT

C.5.1(a)1 One righting line	4.1	Minimum 4m. long
	08mm	Minimum Ø 10mm
C.5.1(a)2 One magnetic steering compas		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	
C.9.7(a) Running rigging shall be led outside the mast spar	YES

D.4 BEAMS

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

F.3 MAST

F.3.2(a) The mast shall be extruded aluminium profiles of constant section	YES		
F.3.3 Dimensions	Mast spar circumference	0,378 m	0,385 m Maximum
	Distance between upper point and front beam	9,100 m	9,100 m Maximum
	Shroud height	6,759 m	6,750 m Maximum
	Spinnaker hoist height	8,180 m	8,150 m Maximum
	Top of the front beam to mast datum point	120	
	Extrusion total length	9,080 m	
B.1.1(c) Have valid certification marks as required	<input checked="" 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	YES

F.5 BOWSPRIT

F.5.1(a) The bowsprit shall be on the longitudinal centreline of the boat	YES		
F.5.1(b) The bowsprit shall be attached to the front beam	YES		
F.5.2(a) The bowsprit shall be made of aluminium of constant section	YES		
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.	0.62		
F.6.2(b) (2) The bowsprit bridles may be of rope of minimum diameter 2,5mm	YES		
Dimensions : Diameter Ø		Length	
C.9.5(c) The bowsprit shall have an end cap that is smooth, rounded	YES		

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

Compas à ajouter
Shroud height et Spinnaker hoist height sup

MEASURES AND CALCULATIONS AREA OF JIB & SPINNAKER

Boat Certificate n°

FRA 2021-001

National letters & Sail N° :

FRA 045

WS N° :

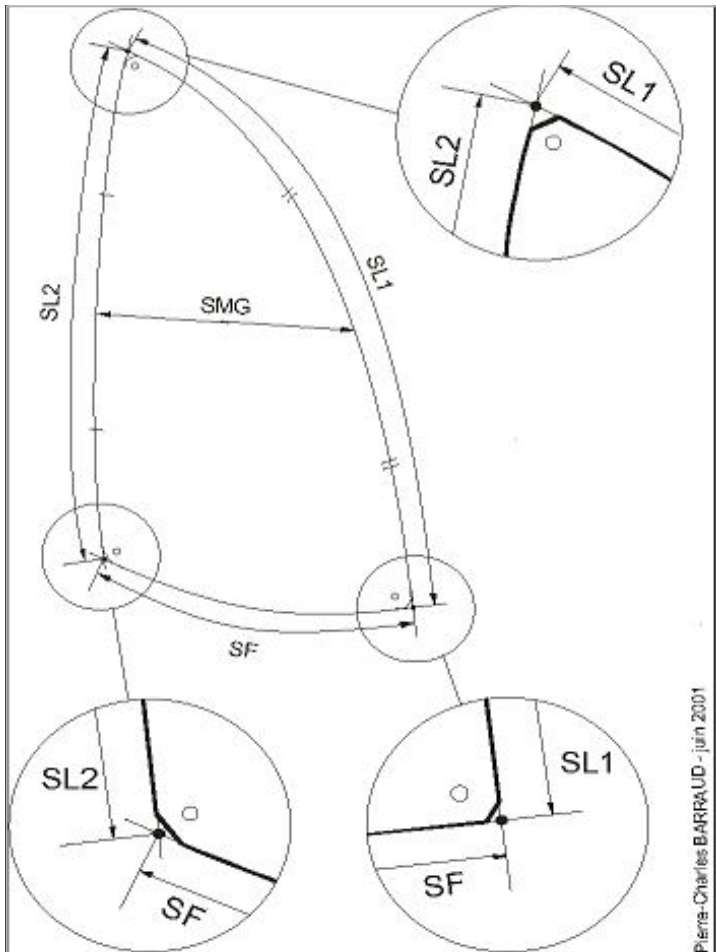
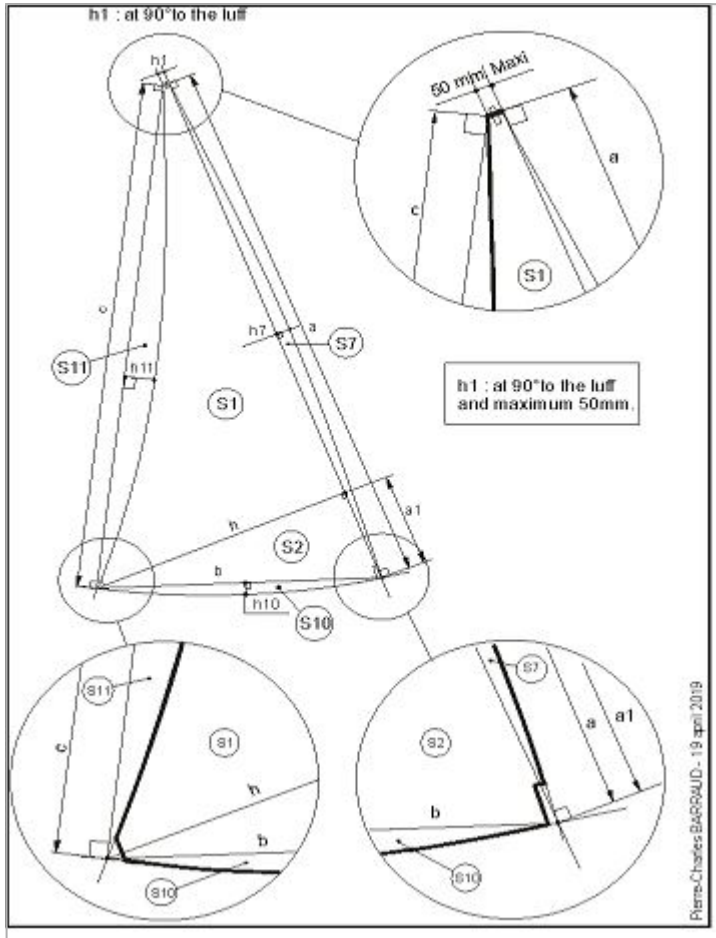
1 354

Owner :

MAISONNEUVE FRANÇOIS

Brand of boat :

NACRA (F18 EVOLUTION)



G.4 JIB

Small Jib 3,60 m2

Large Jib 4,30 m2

Sailmaker / Voilier :

PERFORMANCE SAILS

Serial n° / N° série :

D55J

Colour / Couleur :

WHITE

Batten number :

3 3.4.2(d)(2) maximum 3

Material / Matériau :

APEN 06 3.0

h1	0,042	$S1 = ((h+h1) \times (a-a1)) / 2$	4,2554
a	5,712	$S2 = (h \times a1) / 2$	0,2837
h7	0,000	$S7 = ((a \times h7) / 3) \times 2$	0,0000
c	5,500	$S10 = 2 / 3 \times b \times h10$	0,0426
h11	-0,077	$S11 = 2 / 3 \times c \times h11$	-0,2823
h	1,550	JIB AREA Small Jib 3,60m2 Large Jib 4,30m2 4,299	
a1	0,366		
b	1,598		
h10	0,040		

G.4.2 Construction & G.4.3 Dimensions

The Leech shall not be convex	YES	Max
Top width	42	50mm
Batten width	18	40mm
Batten pocket outside width	48	80mm
Window area : minimum : 0,30 m2	YES	
Dacron sticker F18 Small Jib 3,60m2	<input type="checkbox"/>	
Dacron sticker F18 Large Jib 4,30 m2	<input checked="" type="checkbox"/>	

G.5 SPINNAKER

Small Spinnaker 19,00m2 maximum

Large Spinnaker 21,00m2 maximum

Sailmaker / Voilier :

PERFORMANCE SAILS

Serial n° / N° série :

D055S

Colour / Couleur :

G.5.1 Material / Matériau :

6611

SL1	8,845	% SMG / SF	75,75
SL2	7,655	Spinnaker AREA 20,958	
SMG	2,865		
SF	3,782		
Dacron sticker F18 spinnaker 19,00 m2			
Dacron sticker F18 spinnaker 21,00 m2		<input checked="" type="checkbox"/>	

RESERVED NATIONAL CLASS ASSOCIATION

Certification control carried by

Date

Frédérique Pfeiffer

16/04/2021

Old jib sticker : 4,15 instead of 4,30

MEASURES AND CALCULATIONS THE MAINSAIL CLASSIC OR DS

Boat Certificate n°

FRA 2021-001

National letters & Sail N° :

FRA 045

WS N° :

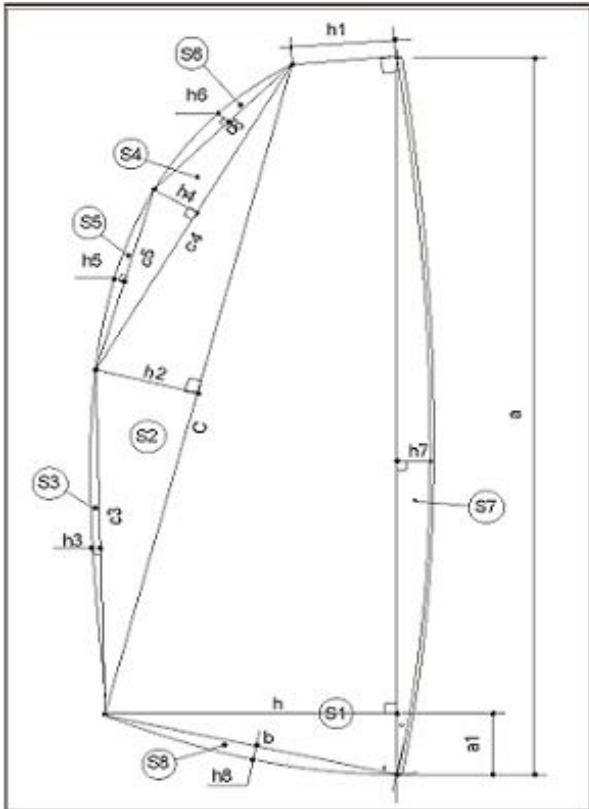
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Owner :

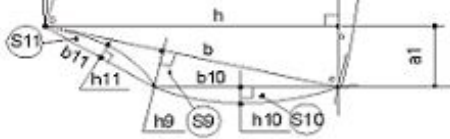
MAISONNEUVE FRANÇOIS

Brand of boat :

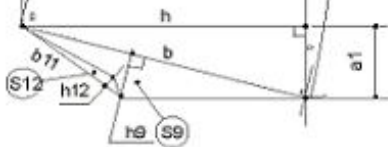
NACRA (F18 EVOLUTION)



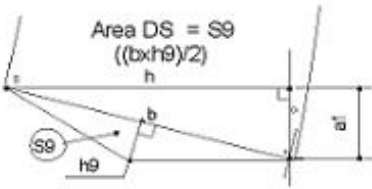
Area DS = S9+/-S10+/-S11
 $((b \times h_9)/2) + / - ((b_{10} \times h_{10})/2) + / - ((b_{11} \times h_{11})/2)$



Area DS = S9-S12
 $((b \times h_9)/2) - ((b_{11} \times h_{12})/2)$



Area DS = S9
 $((b \times h_9)/2)$



Certification control carried by

Date

Frédérique Pfeiffer

16/04/2021

Certification Authority

Comments of the measurer

MAST AREA

Length extrusion

9,080

Perimeter

0,378

G.3 MAIN SAIL : 17 m maximum

Sailmaker / Voilier :

PERFORMANCE SAILS

Serial n° / N° série :

D051M

Colour / Couleur :

WHITE

Batten number :

3

G.3.2 Material / Matériau :

APEN 06 3.0

a	8,982	S1 : $((h+h1)(a-a1)+(a1 \times h))/2$	13,2780
h7	0,080	S2 : $(c \times h_7)/2$	0,5524
c	8,064	S3 : $2/3 \times c \times h_3$	0,1043
h2	0,137	S4 : $(c_4 \times h_4)/2$	0,1220
c4	4,067	S5 : $2/3 \times c_5 \times h_5$	0,0190
h4	0,060	S6 : $2/3 \times c_6 \times h_6$	0,0284
c6	2,030	S7 : $2/3 \times a \times h_7$	0,4790
h6	0,021	S8 : $2/3 \times b \times h_8$	
c5	2,037	S9 : $(b \times h_9)/2$	0,5100
h5	0,014	S10 : $((b_{10} \times h_{10})/3)^2$	
c3	4,010	S11 : $((b_{11} \times h_{11})/3)^2$	
h3	0,039	S12 : $-(b_{11} \times h_{12})/2$	
h	2,126	Main Sail AREA	15,093
b	2,334		
h8	0,000	Mast area / Surf. Du mât :	1,716
a1	1,003	Total AREA	16,809
h1	0,935		

h9	0,437
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	0,93	Max 1,00 m
Upper wight at upper leech point 1500mm from the head point	1,185	1,29 m
The angle between the luff ans the head	OK	90°
Tabling width	25	115mm
Window area : minimum : 0,30 m2	YES	

B.2 CERTIFICATION MARKS F18

Dacron sticker F18 main sail 17,00 m2



Class emblem F18

