MISStroll

Etude pour Monsieur Scarbonchi

Esquisse Avant-projet V.8

MISStroll 50
PRESENTATION
ESQUISSE AVP
Version 8
PERSPECTIVES

Formes
MISStroll
Plan n° 010 AVP 8
Le 23 / 03 / 2011

Caractéristiques générales :

Longueur de signalement	= 15 m 93
Longueur de flottaison	= 15 m 00
Longueur de coque nue	= 15 m 53
Largeur de signalement	= 4 m 55
Largeur de coque	= 4 m 50
Largeur à la flottaison	= 4 m 02
Franc bord avant	= 2 m 25
Franc bord arrière	= 1 m 54
Franc bord minima	= 1 m 10
Tirant d'eau	= 1 m 25
Tirant d'air superstructures	= 3 m 20
Tirant d'air hors tout	= 11 m 34
Poids en ordre de marche	= 15, 900 tonnes
Dépalcement aux plans	= 20, 060 tonnes
Déplacement maximum	= 23, 000 tonnes
Capacité GO	= 4 500 litres
Capacité eau	= 1 000 litres
Capacités eaux usées	= 300 litres

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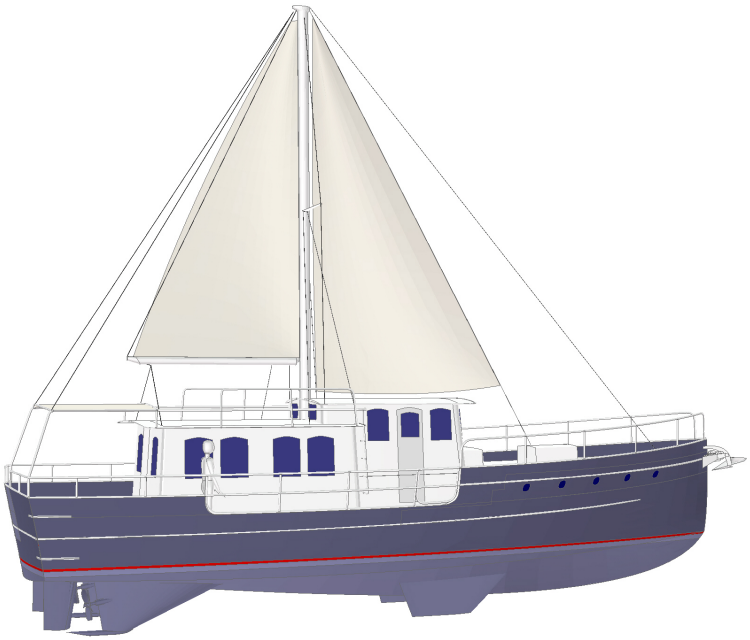


Hydrostatic calculations
Bateau : MISSTROLL
Architecte : Jean-Pierre BROUNS
Chantier : META
2011-03-21

Immerged hull

Immerged volume [m3]	20.0615
Displacement in fresh water [Kg]	20061.5412
Displacement in salt water [Kg]	20583.1412
CB x [m]	0.0002
CB y [m]	6.8674
CB z [m]	-0.2880
Sinkage (Volume added for 1cm draught) [m3]	0.4394

Wetted area

Wetted area [m²]	180.9403

Coefficients

Prismatic Coeff	0.3415
Block Coeff	0.3348
Volumic Coeff (V/L sqr(3))	0.0060
Global fineness Coeff (L/V sqr(1/3))	5.5089

Length Water Line LWL

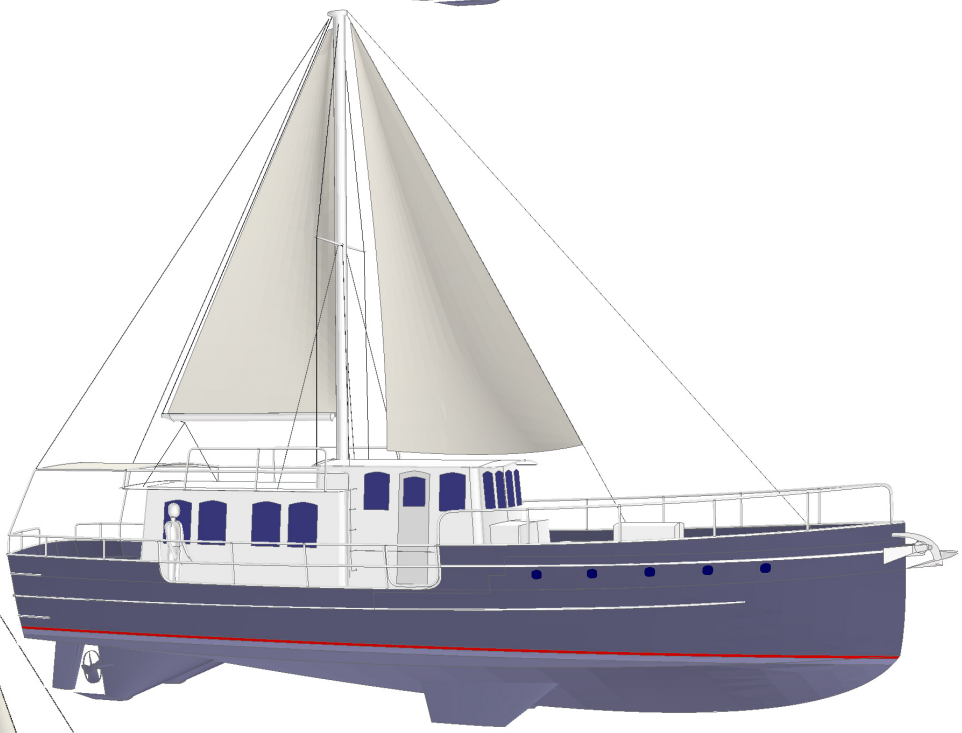
Length [m]	14.9689
Width [m]	4.0029
Area [m²]	43.8879
Centre Area x [m]	0.0000
Centre Area y [m]	6.2663
Centre Area z [m]	0.0000
Perimeter [m]	39.7961

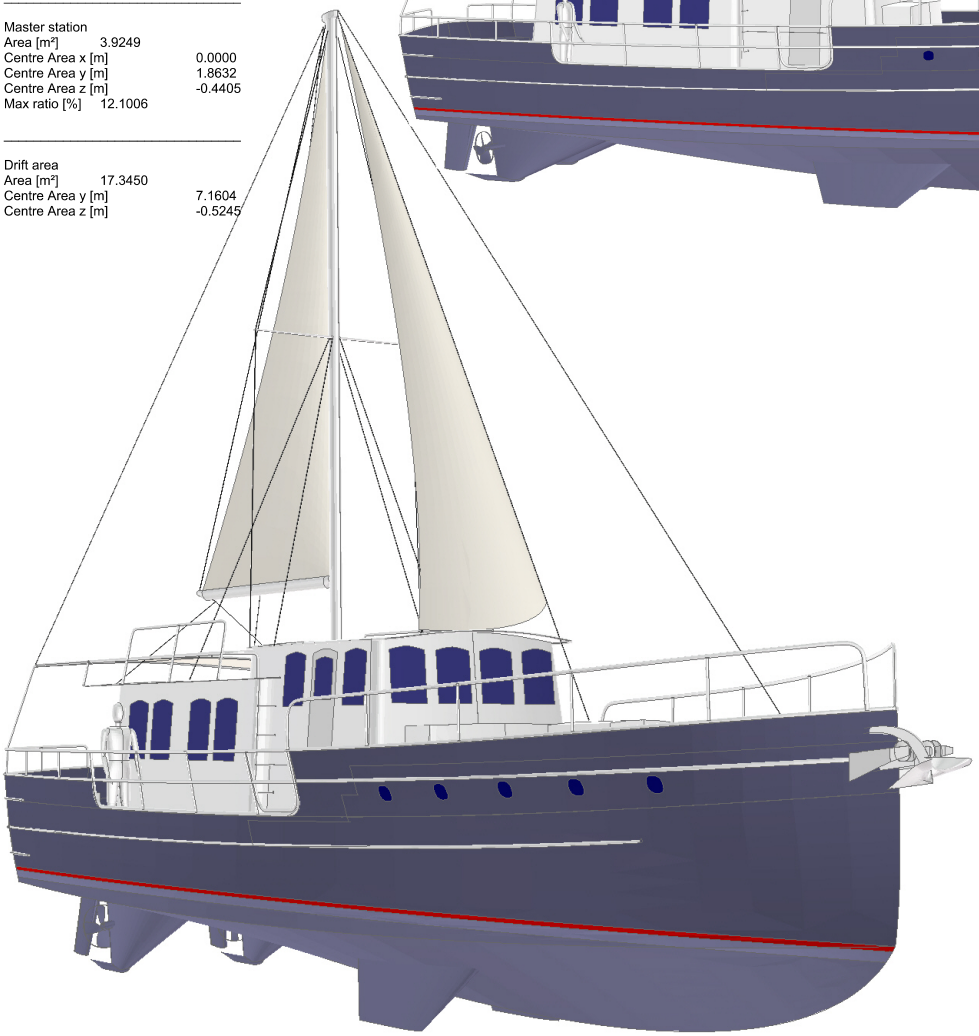
Master station

Area [m²]	3.9249
Centre Area x [m]	0.0000
Centre Area y [m]	1.8632
Centre Area z [m]	-0.4405
Max ratio [%]	12.1006

Drift area

Area [m²]	17.3450
Centre Area y [m]	7.1604
Centre Area z [m]	-0.5245





Hauteur de mât = 08 m 60

Surface grand-voile = 13 m² 70
Surface Foc = 17 m² 10
Surface Reacher si option = 45 m² 00

Mât posé sur le toit de roof

RM max pour calcul gréement = 134.690 Nm

I = 8 m 15
J = 4 m 30
P = 3 m 48
E = 7 m 05
BAD = 0 m 85

Gréement dans le plan
4 Bas haubants
Entre-axes bas-haub. arrières = 2 m 95
Entre-axes bas-haub. avants = 2 m 50

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MISStroll 50
PRESENTATION
ESQUISSE AVP
Version 8
ELEVATIONS

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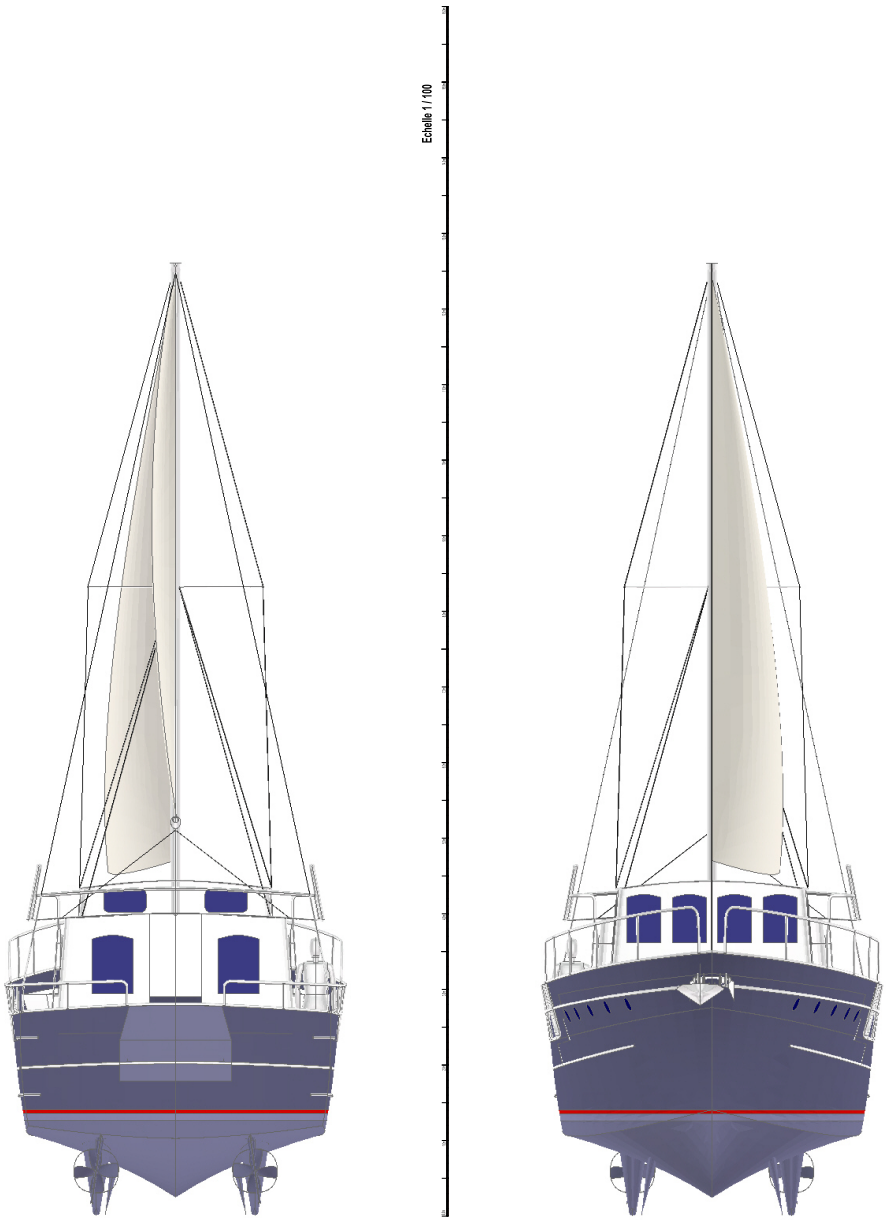
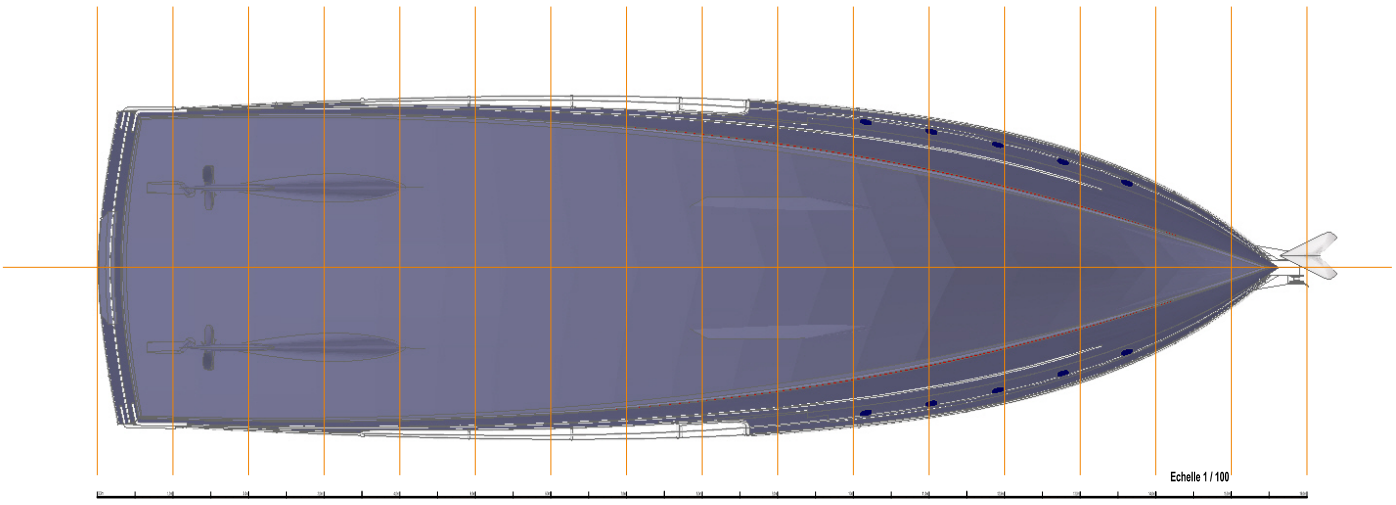
TOTAL Aluminium	7 269,9 kg
Hublots capots	224,4 kg
Mât, greement, voiles	413,3 kg
Motorisation et périphériques	1 870,6 kg
Aménagement et confort	4 360,0 kg
Equipement sécurité + MOC + charge	5 923,0 kg
Total en fonctionnement moyen	20 061,1 kg
Equipage + charge MAX	2 940,0 kg
TOTAL en charge maxi	23 001,1 kg





MISStroll

Etude pour Monsieur Scarbonchi

Esquisse Avant-projet V.8

MISStroll 50
PRESENTATION
ESQUISSE AVP
Version 8
Silhouette

VOILURE
MISStroll
Plan n° 040 AVP 8
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Misstroll - courbe de stabilité

Stability calculation conditions

Weight used for calculations [Kg]	= **20062.187**
CG.x [m]	0.000
CG.y LCG [m]	6.817
CG.z VCG [m]	0.379
Calculation step [°]	10.000
Min angle [°]	0.000
Max angle [°]	180.000
Drift tolerance [Kg]	601.866
Pich tolerance [°]	0.300
Water density	1.0260

GZ and moments

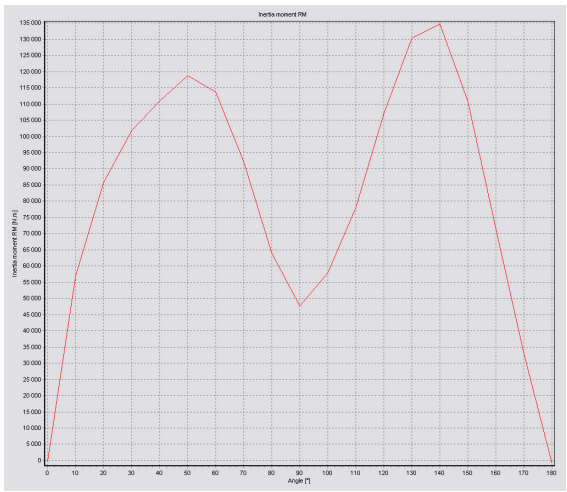
GZ min [m]	-0.0044
GZ Max [m]	0.6847
Inertia moment RM Min [m.N]	-861
Inertia moment RM Max [m.N]	134698

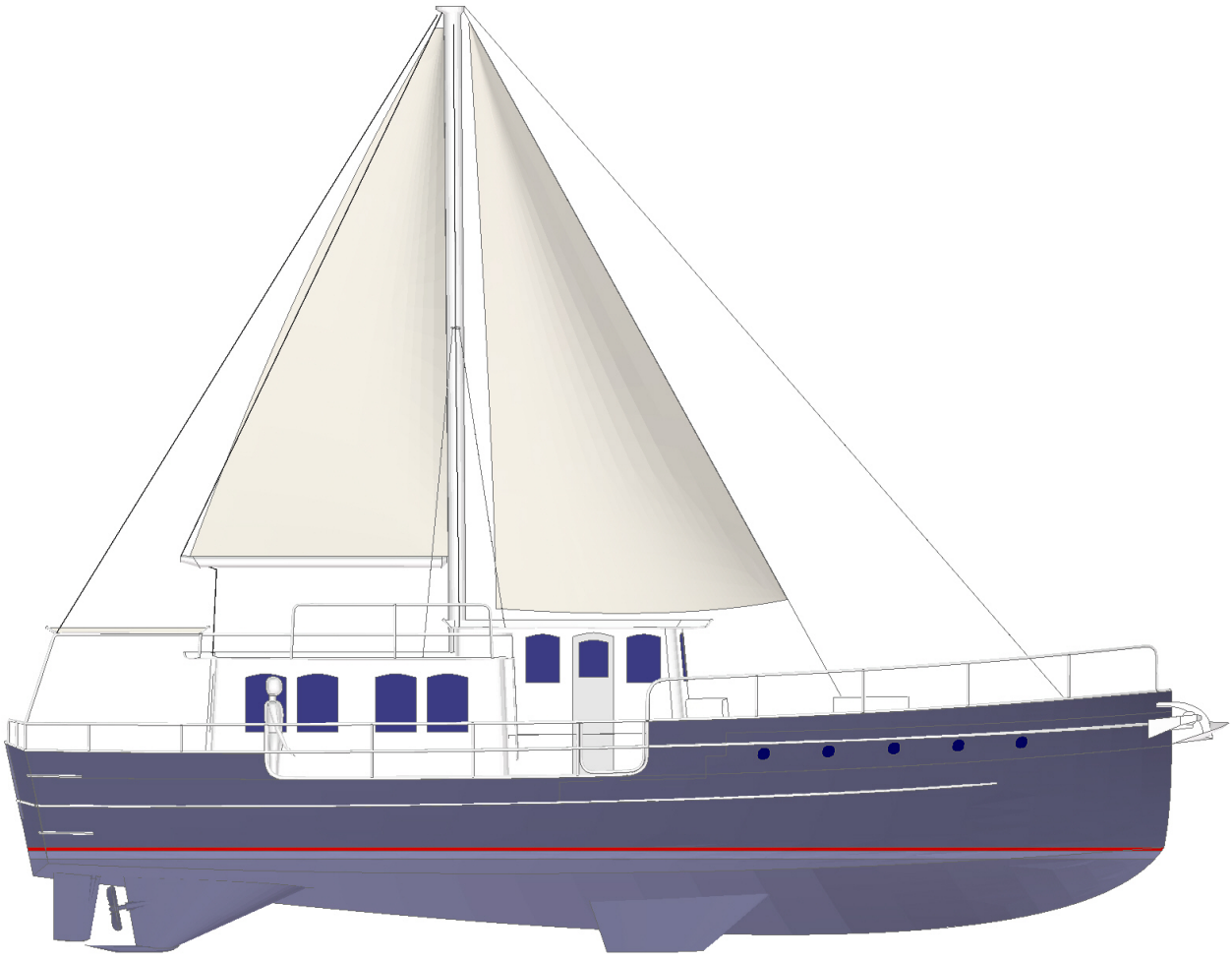
Main angles

Angle for GZ min [°]	180.0
Angle for GZ max [°]	**140.0**
Angle de disparition de stabilité (chavirage) [°]	**179.75**

Energies

Energie de Chavirage [J]	**416777.3**
Energie de Redressement [J]	**4948.8**





Echelle 1 / 50

MISStroll

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Esquisse Avant-projet V.8

MISStroll 50
PRESENTATION
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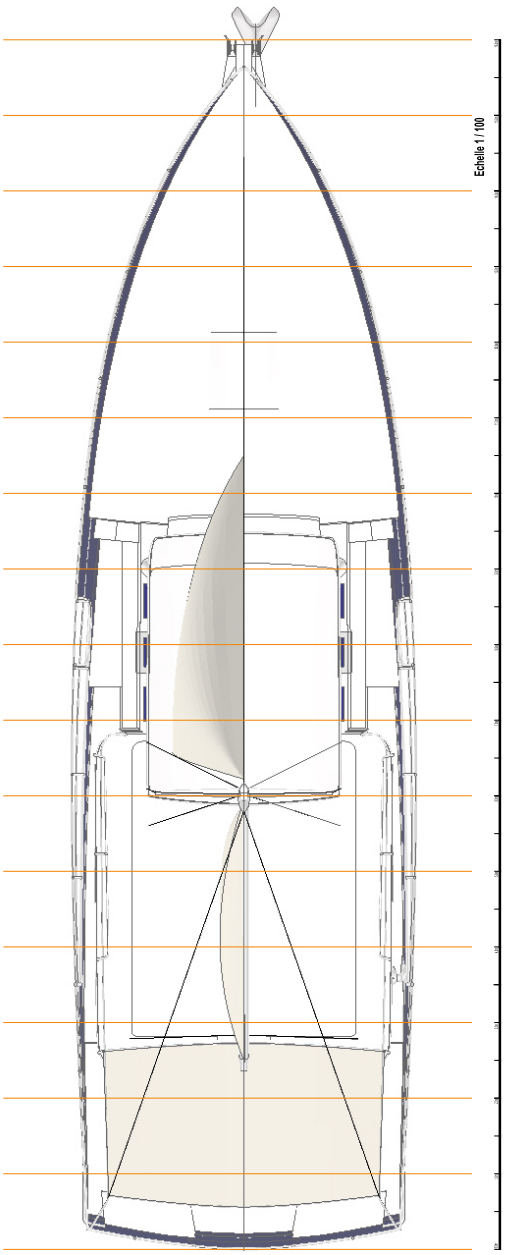
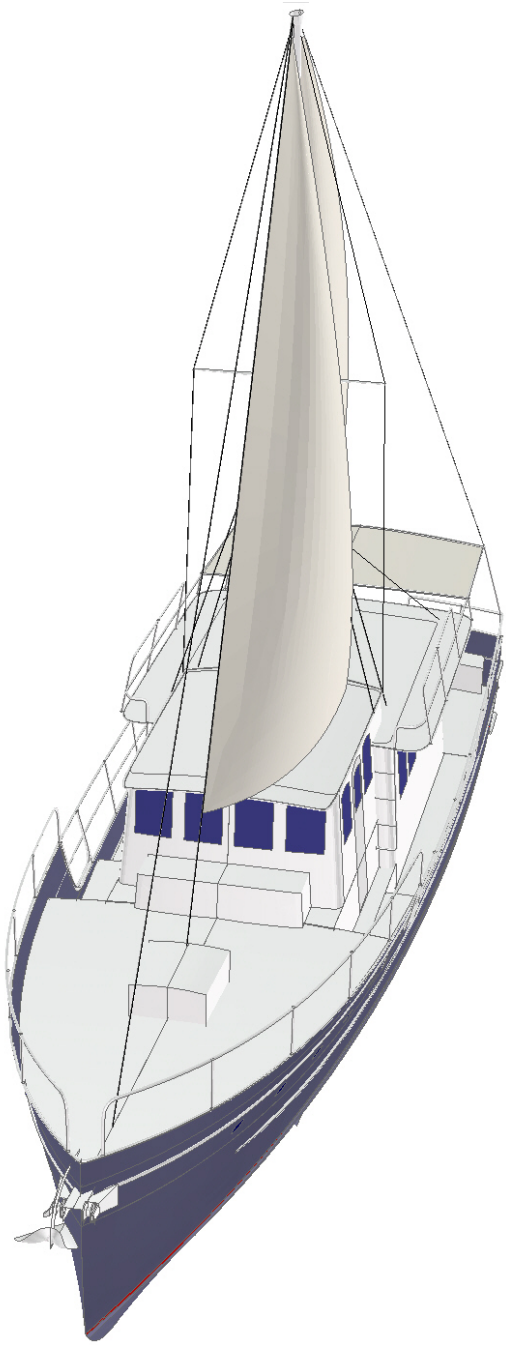
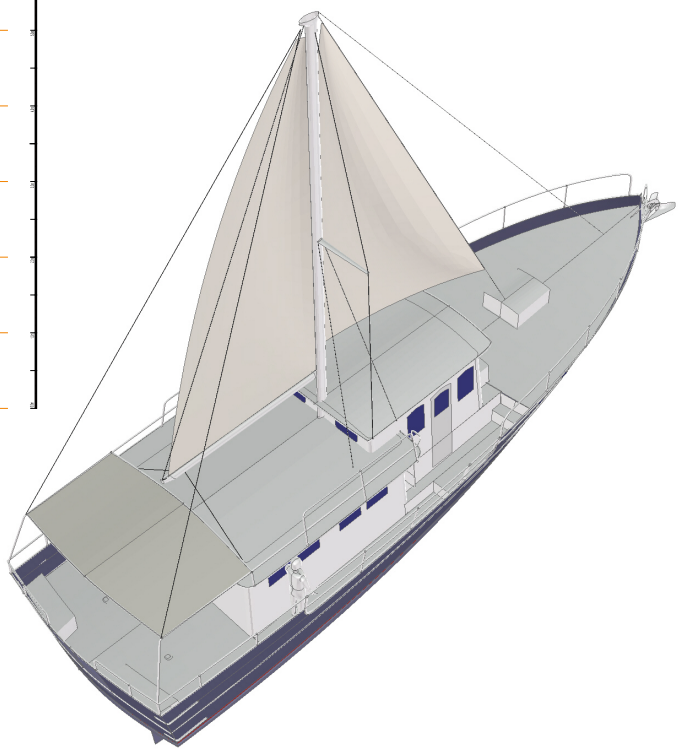
Version 8
PONT

PONT
MISStroll
Plan n° 050 AVP 8
Le 23 / 03 / 2011







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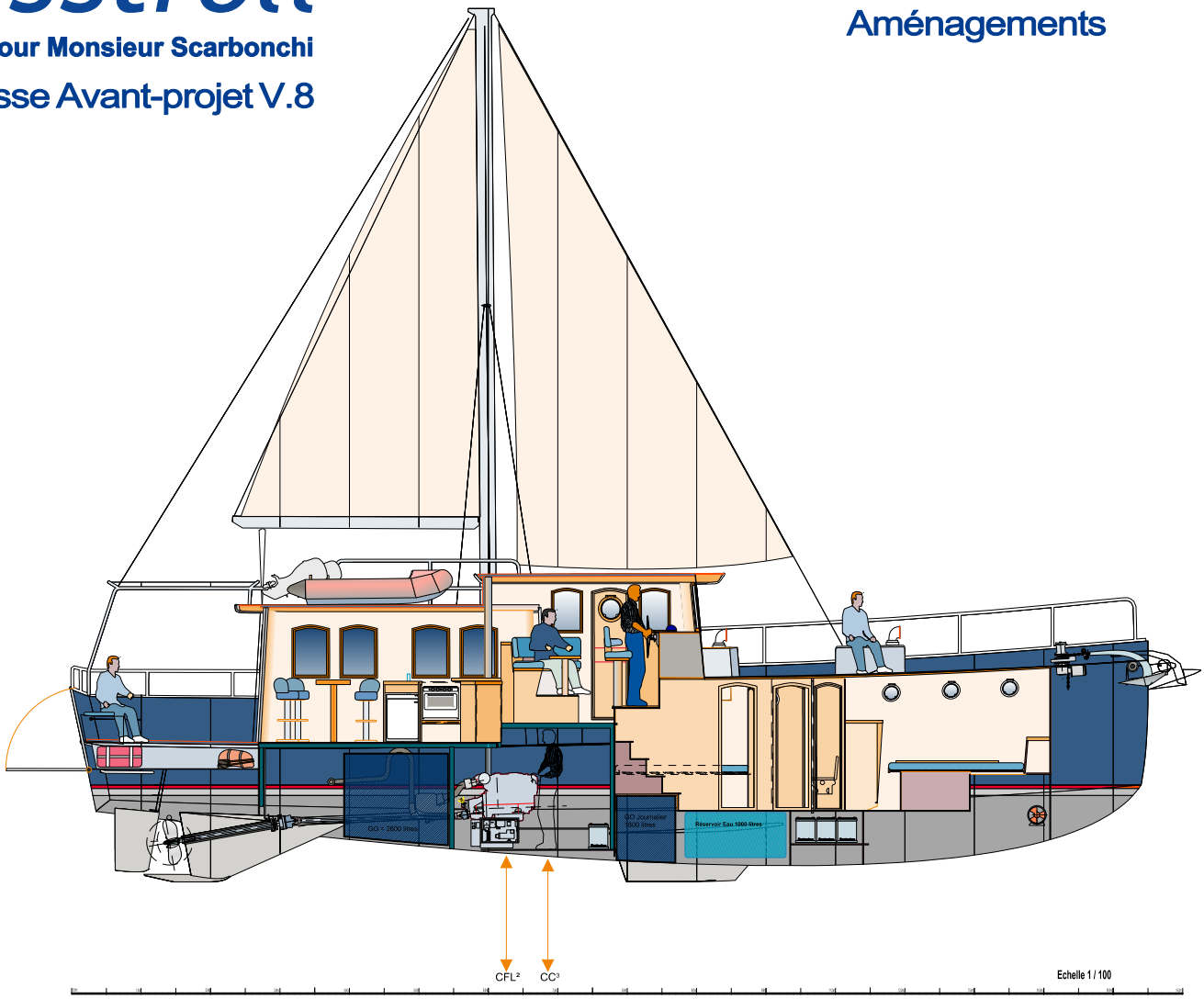
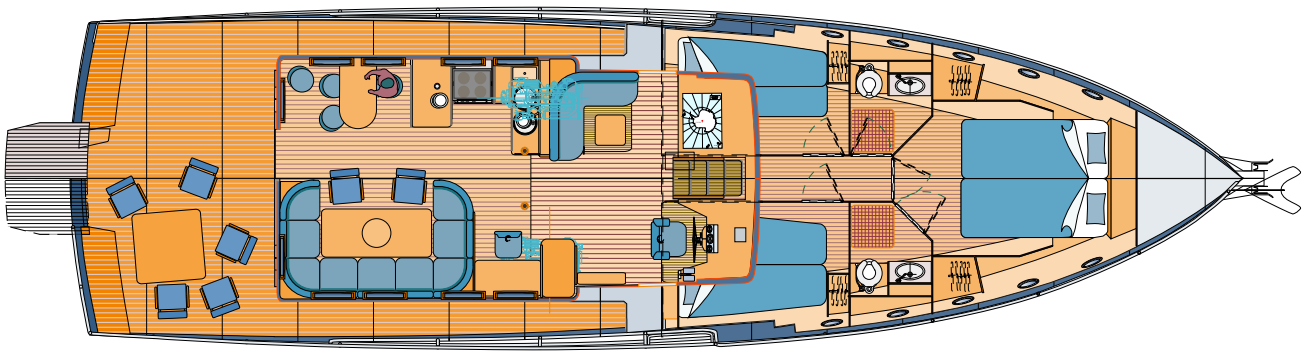
Esquisse Avant-projet V.8

Aménagements





MISStroll 50
ESQUISSE AVP
Version 8
Présentation

Aménagements
MISStroll
Plan n° 060 AVP 8
Le 02 / 05 / 2011