

LightCraft

12m Combat Boat



SCY Design

48 Sweetgum St, Ashmore Qld 4214, Australia
Ph: (617) 5597 3521 www.scy.net.au



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12m Combat Boat



LOA : 13.3m
Lmoulded: 11.9m
LWL : 11.3m
Beam : 4.1m
Bmoulded : 3.6m
Draft : 0.60m
Deadrise: 18deg.

Classification Standard:
DNV R3 Patrol

Survey: NSCV 2C
12+2 Offshore Operations 30nm

Fender:

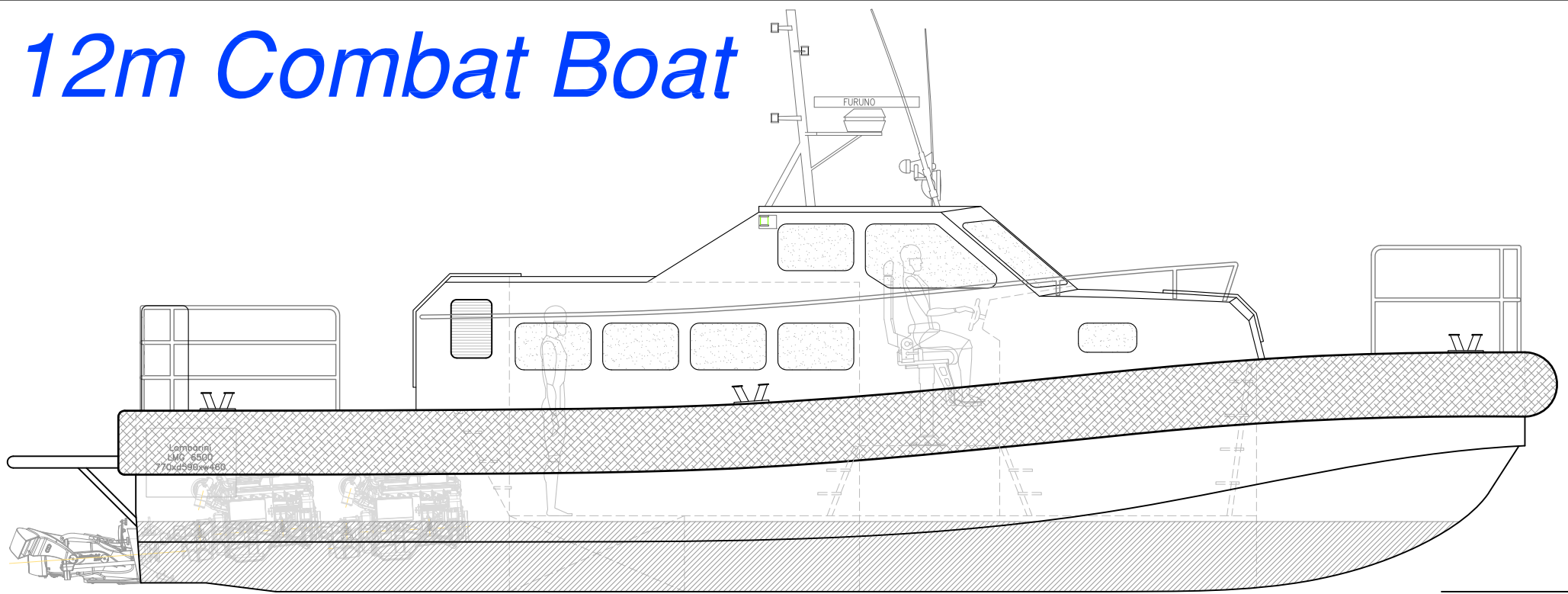
45mm EVA foam coated with
4mm Elastomeric Polyurethane



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12m Combat Boat



ENGINE ROOM

4
3.20

PASSENGERS

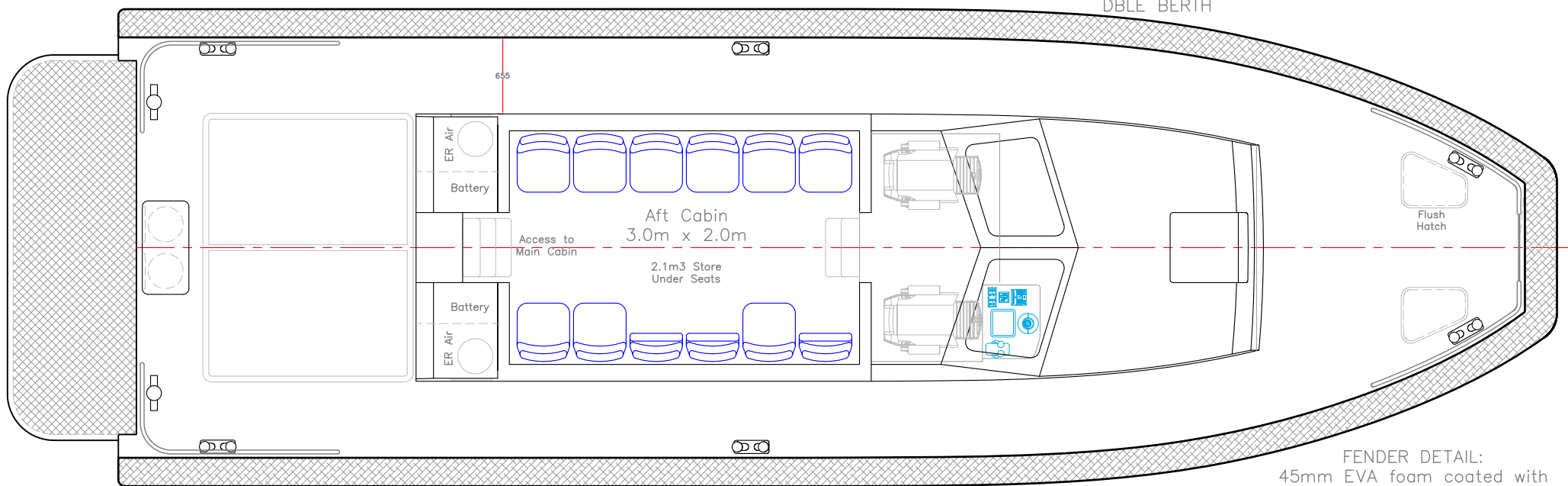
6.2

WHEELHOUSE

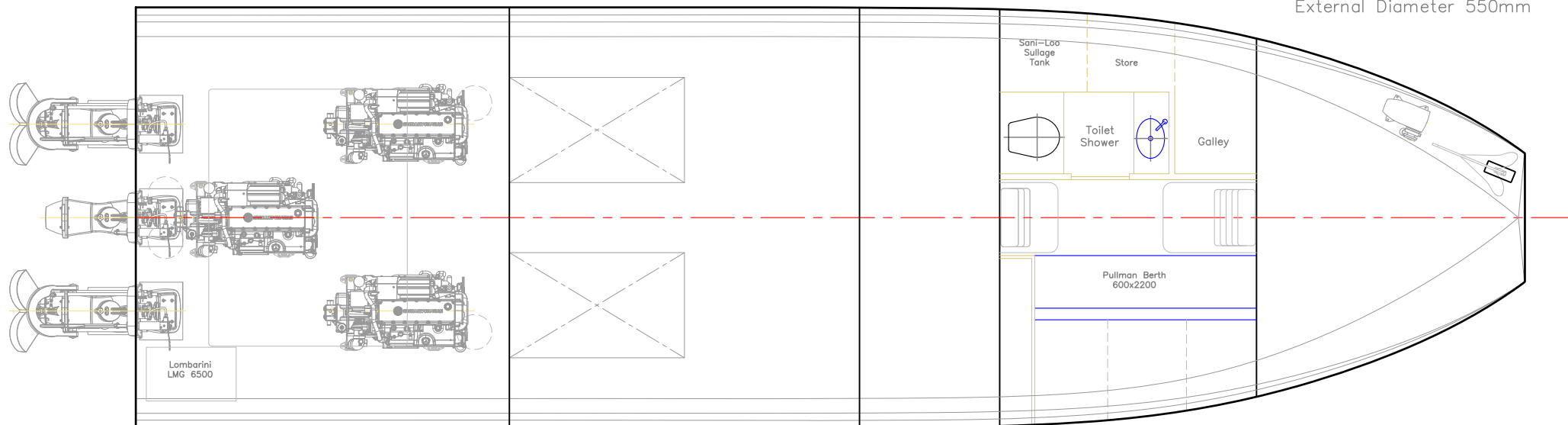
TOILET/SHOWER
DBLE BERTH

12
9.6

FOREPEAK



FENDER DETAIL:
45mm EVA foam coated with
4mm Elastomeric Polyurethane
External Diameter 550mm

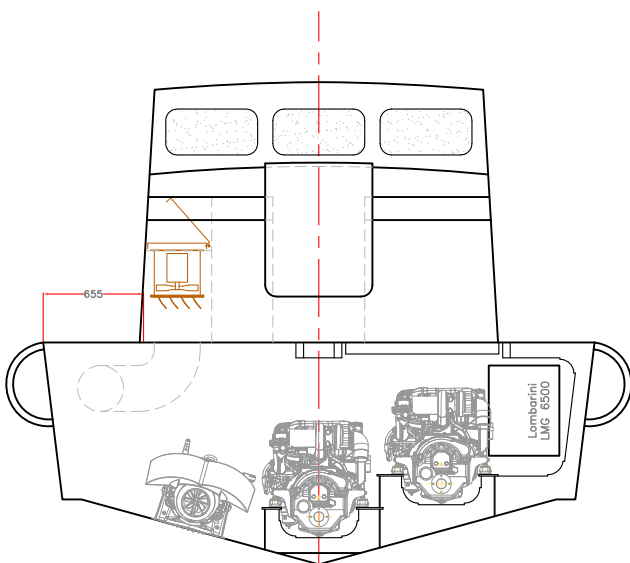
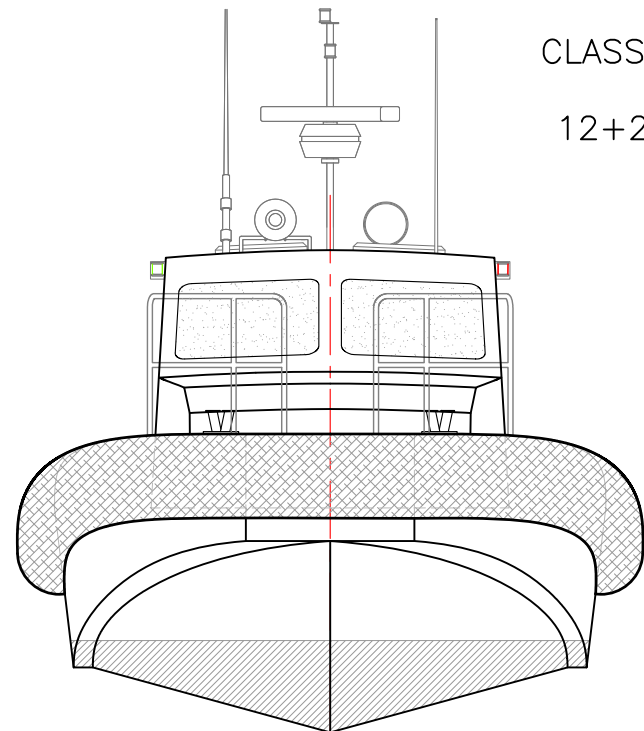


CLASS STANDARD: DNV R3 PATROL
SURVEY: NSCV 2C
12+2 Offshore Operations 30nm

LOA: 13.3m
Lmoulded: 11.9m
LWL: 11.3m
BEAM: 4.1m
Bmoulded: 3.6m Bchine: 3.35m
DRAFT: 0.6m A frontal: 9.2m2
DEADRISE: 18deg.
FUEL: 800lts

MAIN ENGINES: 3 x Steyr SE306J38
292hp @ 3800rpm
GEARBOX: 3 x ZF63c 1.25:1
PROPULSION: 3 x Alamarin Jet 288
SPEED-max: 36knots (9.7t, 2.35t dwt)
SPEED-cruise: 30knots
RANGE-cruise: 190nm

CONSTRUCTION:
MARINE GRADE ALUMINIUM



LightCraft
aluminium workboats

VESSEL: 12m Combat Boat

TITLE: GENERAL ARRANGEMENT

DWG No: 12CB-100

DATE: 24/10/2014

SCALE:

DRAWN: MDW

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SCY Design
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48 Sweetgum St, Ashmore, Queensland 4214, Australia
Ph: 617 5597 3521 www.mwdesign.net.au

SCY12m Coastal Patrol

Steyr 3.2ltr / Alamarine 288

Load Conditons

WEIGHT
kg

LCG
m

VCG
m

LC 1 - Lightship

Lightship				7318	4.30	1.16
fuel - main	10%	800	0.82	66	4.70	0.56
water	0%	60	1.00	0	7.80	0.90
sullage	0%	120	1.00	0	7.80	0.95
crew/effects		2	100	200	6.75	2.35
stores				200	8.60	1.30
Passengers		0	100	0	4.70	1.70
Cargo		0	500	0	4.70	1.70
deadweight				466	7.26	1.65
departure condition				7783	4.48	1.19

LC 2 - Range

Lightship				7318	4.30	1.16
fuel - main	50%	800	0.82	328	4.70	0.56
water	50%	60	1.00	30	7.80	0.90
sullage	0%	120	1.00	0	7.80	0.95
crew/effects		2	100	200	6.75	2.35
stores				200	8.60	1.30
Passengers		12	80	960	4.70	1.70
Cargo		12	25	300	4.70	1.70
deadweight				2018	5.34	1.53
departure condition				9336	4.53	1.24

LC 3 - Max

Lightship				7318	4.30	1.16
fuel - main	100%	800	0.82	656	4.70	0.56
water	100%	60	1.00	60	7.80	0.90
sullage	0%	120	1.00	0	7.80	0.95
crew/effects		2	100	200	6.75	2.35
stores				200	8.60	1.30
Passengers		12	80	960	4.70	1.70
Cargo		12	25	300	4.70	1.70
deadweight				2376	5.28	1.39
departure condition				9694	4.54	1.22

Customer:	Rob McIntyre/Light Craft	Date:	23.10.2014
Project:	SCY 12m Combat Boat		
ID:	49011a		

Jet type:	AJ 288
Impeller type:	#17

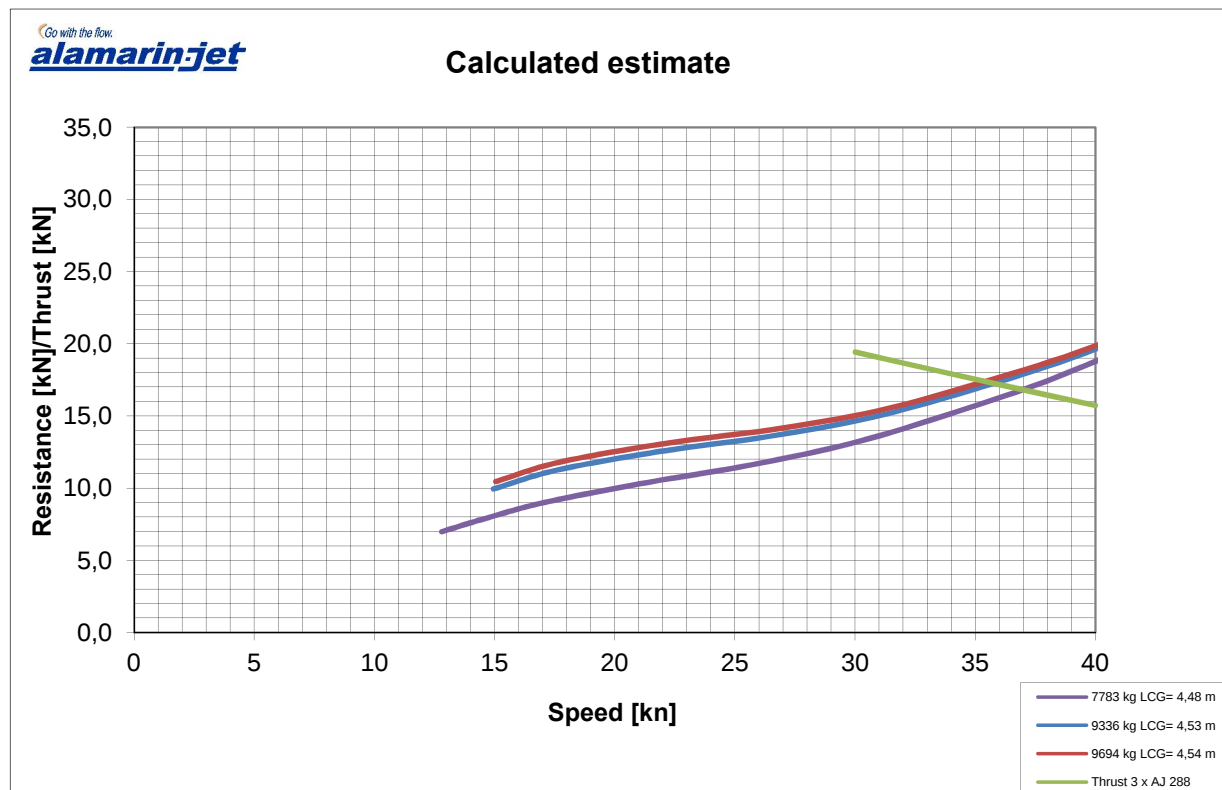
Number of units:	3
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Engine type:	Steyr SE306J38		
Rated power:	215 kW	@ crankshaft [rpm]	3850
	292 mhp*		

Transmission type:	ZF 63		
Reduction ratio:	1,521		
Efficiency:	97 %		
Jet shaft power	209 kW	@ impeller shaft [rpm]	2531

Estimated performance

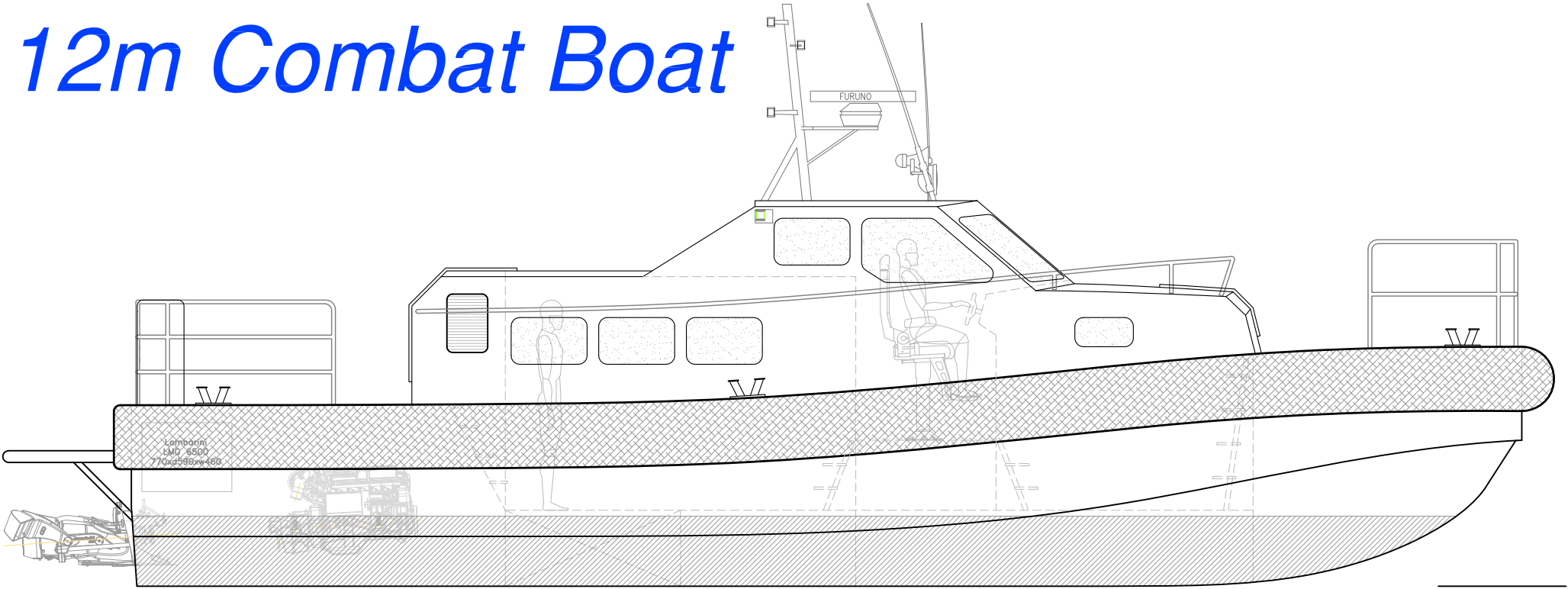
Speed 1:	37±1 kn @ Δ	7783 kg	LCG=	4,48 m
Speed 2:	35,8±1 kn @ Δ	9336 kg	LCG=	4,53 m
Speed 3:	35,5±1 kn @ Δ	9694 kg	LCG=	4,54 m
Bollard pull:	~ 26,5 kN			



*1kW=1,3596mhp

Warning: Due to error factors beyond the control of Alamarin-Jet Oy, this speed calculation may not be considered 100% correct. Alamarin-Jet Oy do not guarantee performance results based on the calculations on this sheet. Calculation is based on modified Savitsky method, air resistance included.

12m Combat Boat



ENGINE ROOM

4
3.20

PASSENGERS

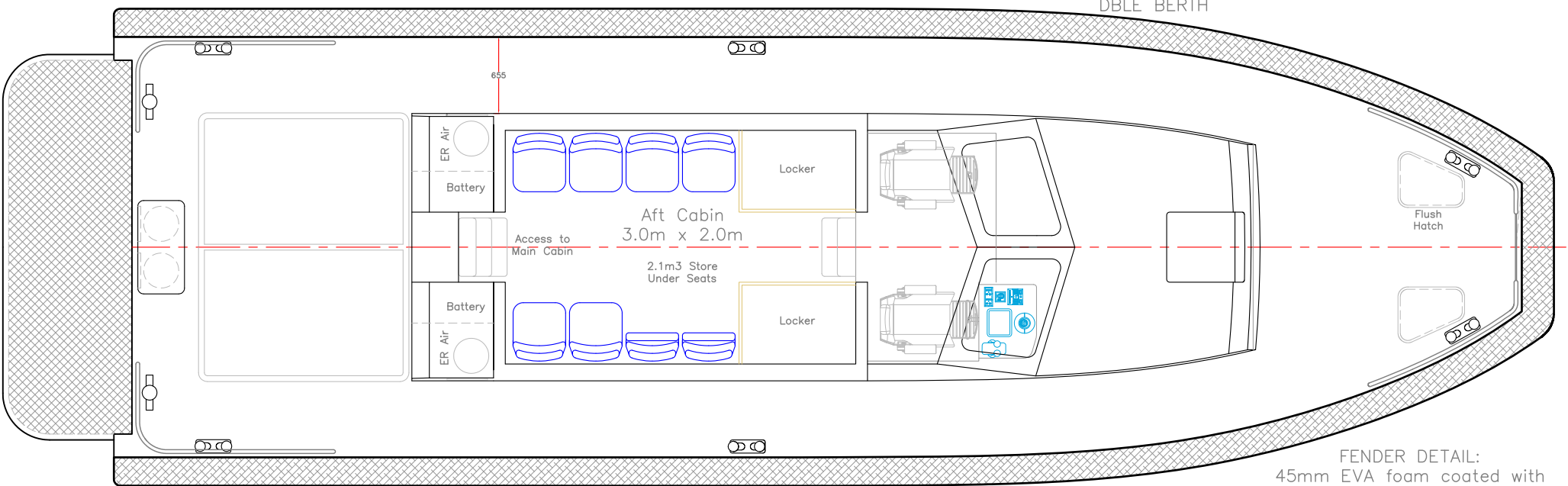
6.2

WHEELHOUSE

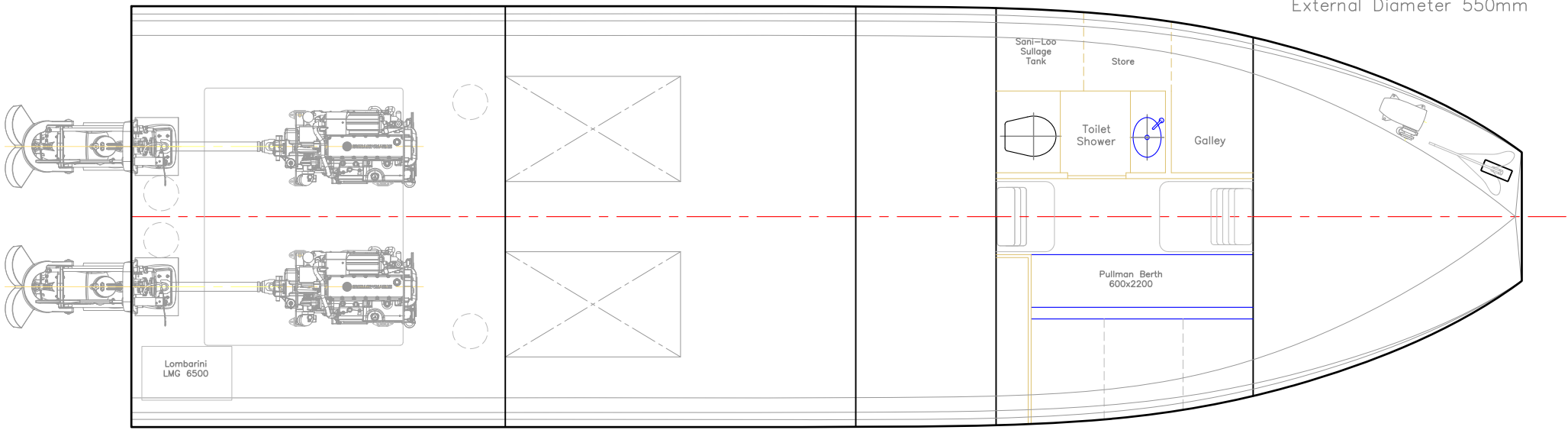
TOILET/SHOWER
DBLE BERTH

12
9.6

FOREPEAK



FENDER DETAIL:
45mm EVA foam coated with
4mm Elastomeric Polyurethane
External Diameter 550mm



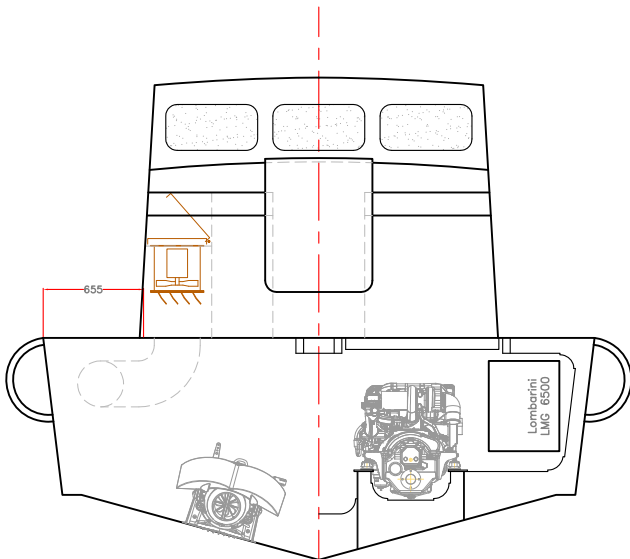
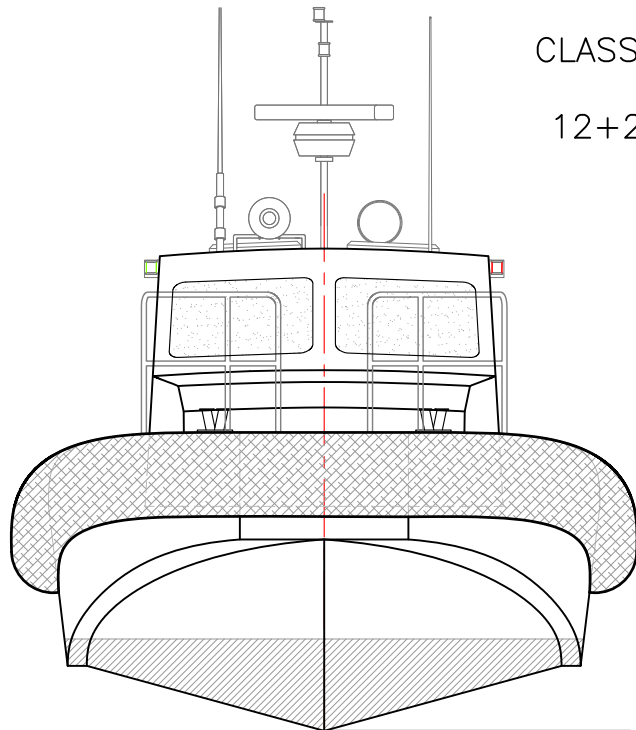
CLASS STANDARD: DNV R3 PATROL
SURVEY: NSCV 2C
12+2 Offshore Operations 30nm

LOA: 13.3m
Lmoulded: 11.9m
LWL: 11.3m
BEAM: 4.1m
Bmoulded: 3.6m Bchine: 3.35m
DRAFT: 0.6m A frontal: 9.2m2
DEADRISE: 18deg.
FUEL: 800lts

MAIN ENGINES: 2 x Steyr SE306J38
292hp @ 3800rpm
GEARBOX: 2 x ZF63c 1.25:1
PROPULSION: 2 x Alamarin Jet 288

SPEED-max: 30knots (1.96t dwt)
SPEED-cruise: 23knots (1.96t dwt, 70% MCR)
RANGE-cruise: 230nm

CONSTRUCTION:
MARINE GRADE ALUMINIUM



LightCraft
aluminium workboats

VESSEL: 12m Combat Boat
TITLE: GENERAL ARRANGEMENT
DWG No: 12CB-100
DATE: 24/10/2014
SCALE:
DRAWN: MDW
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SCY12m Coastal Patrol

2 off Steyr 3.2ltr / Alamarine 288

Load Conditons

WEIGHT
kg

LCG
m

VCG
m

LC 1 - Lightship

Lightship				6812	4.53	1.20
fuel - main	10%	800	0.82	66	4.70	0.56
water	0%	60	1.00	0	7.80	0.90
sullage	0%	120	1.00	0	7.80	0.95
crew/effects		2	100	200	6.75	2.35
stores				200	8.60	1.30
Passengers		0	100	0	4.70	1.70
Cargo		0	500	0	4.70	1.70
deadweight				466	7.26	1.65
departure condition				7277	4.70	1.23

LC 2 - Range

Lightship				6812	4.53	1.20
fuel - main	50%	800	0.82	328	4.70	0.56
water	50%	60	1.00	30	7.80	0.90
sullage	0%	120	1.00	0	7.80	0.95
crew/effects		2	100	200	6.75	2.35
stores				200	8.60	1.30
Passengers		8	80	640	4.70	1.70
Cargo		8	25	200	4.70	1.70
deadweight				1598	5.50	1.48
departure condition				8410	4.71	1.25

LC 3 - Max

Lightship				6812	4.53	1.20
fuel - main	100%	800	0.82	656	4.70	0.56
water	100%	60	1.00	60	7.80	0.90
sullage	0%	120	1.00	0	7.80	0.95
crew/effects		2	100	200	6.75	2.35
stores				200	8.60	1.30
Passengers		8	80	640	4.70	1.70
Cargo		8	25	200	4.70	1.70
deadweight				1956	5.40	1.32
departure condition				8768	4.72	1.22

Customer:	Rob McIntyre/Light Craft	Date:	31.10.2014
Project:	SCY 12m Combat Boat		
ID:	49011e		

Jet type:	AJ 288
Impeller type:	#15-3

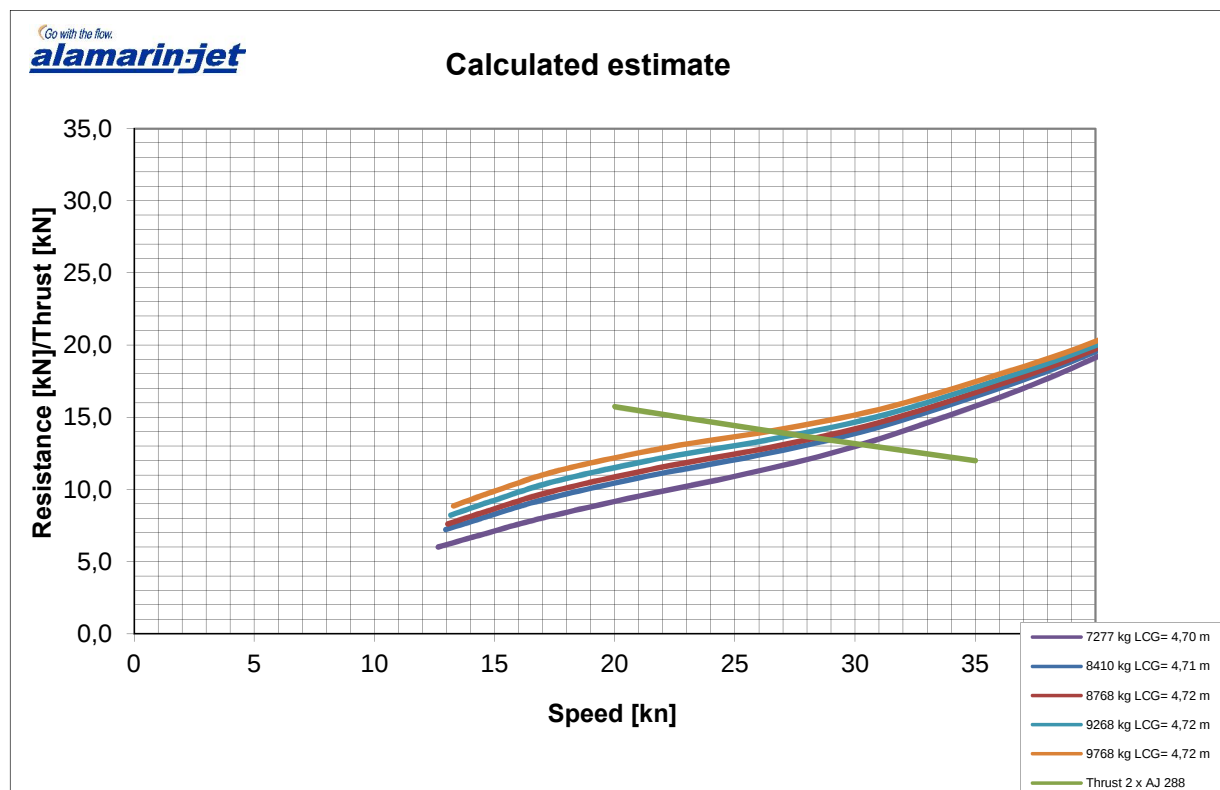
Number of units:	2
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Engine type:	Steyr SE306J38		
Rated power:	215 kW	@ crankshaft [rpm]	3850
	292 mhp*		

Transmission type:	ZF 63C		
Reduction ratio:	1,25		
Efficiency:	97 %		
Jet shaft power	209 kW	@ impeller shaft [rpm]	3080

Estimated performance

Speed 1:	30,2±2 kn @ Δ	7277 kg	LCG=	4,70 m
Speed 2:	29±2 kn @ Δ	8410 kg	LCG=	4,71 m
Speed 3:	28,5±2 kn @ Δ	8768 kg	LCG=	4,72 m
Speed 4:	27,5±2 kn @ Δ	9268 kg	LCG=	4,72 m
Speed 5:	26,5±2 kn @ Δ	9768 kg	LCG=	4,72 m
Bollard pull:	~ 19,6 kN			



*1kW=1,3596mhp

Warning: Due to our features based the control of Alamarin-Jet Oy, this speed calculation may not be considered 100% correct. Alamarin-Jet Oy do not guarantee.