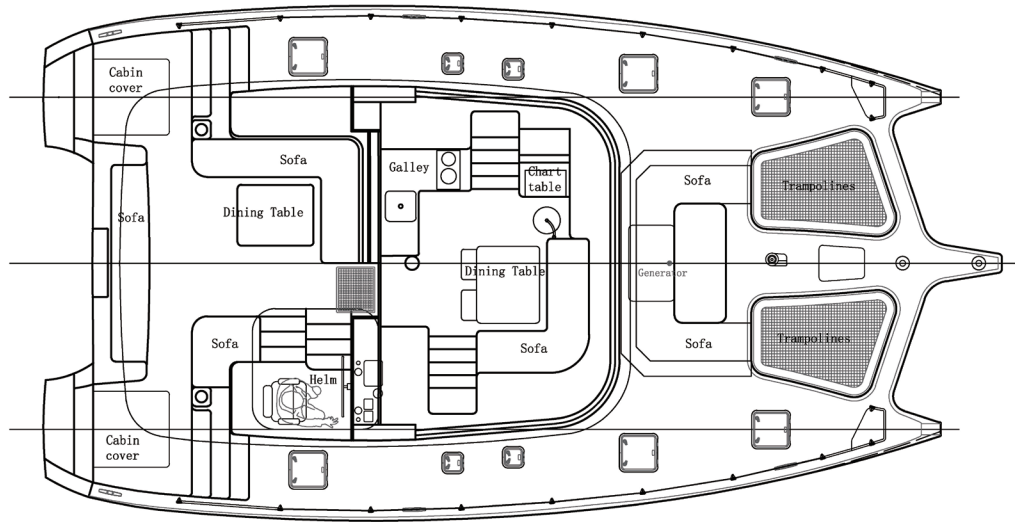


FMA[®]

FMA420S Catamaran



FMA420S Catamaran Specifications

	LENGTH OVER ALL	12.80M	41.30FT
	BEAM	11.80M	38.70FT
	LENGTH WATERLINE	6.82M	22.30FT
	DRAFT	0.90M	2.95FT
	LOW DRAFT	1.40M	4.60FT
	DEPTH (MLD)	2.50M	8.20FT
	HEIGHT OF MAIN SAIL	13M	62FT
	MAIN SAIL AREA	45m ²	484SQFT
	TRIANGLE SAIL AREA	32m ²	344SQFT
	FUEL STORAGE CAPACITY	1000L	264GAL
	WATER CAPACITY	1000L	264GAL
	SEAWATER DESALINATION	1300L	343GAL
	ENGINE	2 x 29HP Yanmar Engines Total: 58HP	



HULL AND DECK

Standard

Premium

- FRP with vinyl ester resin infused E-Glass uni-directional, quad axial cloth and foam core

- AOC gel coat hull and deck

- Trampolines on bow

- Foam core bulkheads and cabin soles

- Contrasting non-skid flooring

- Bronze thru-hull fittings

- Hull and deck laminated and bonded

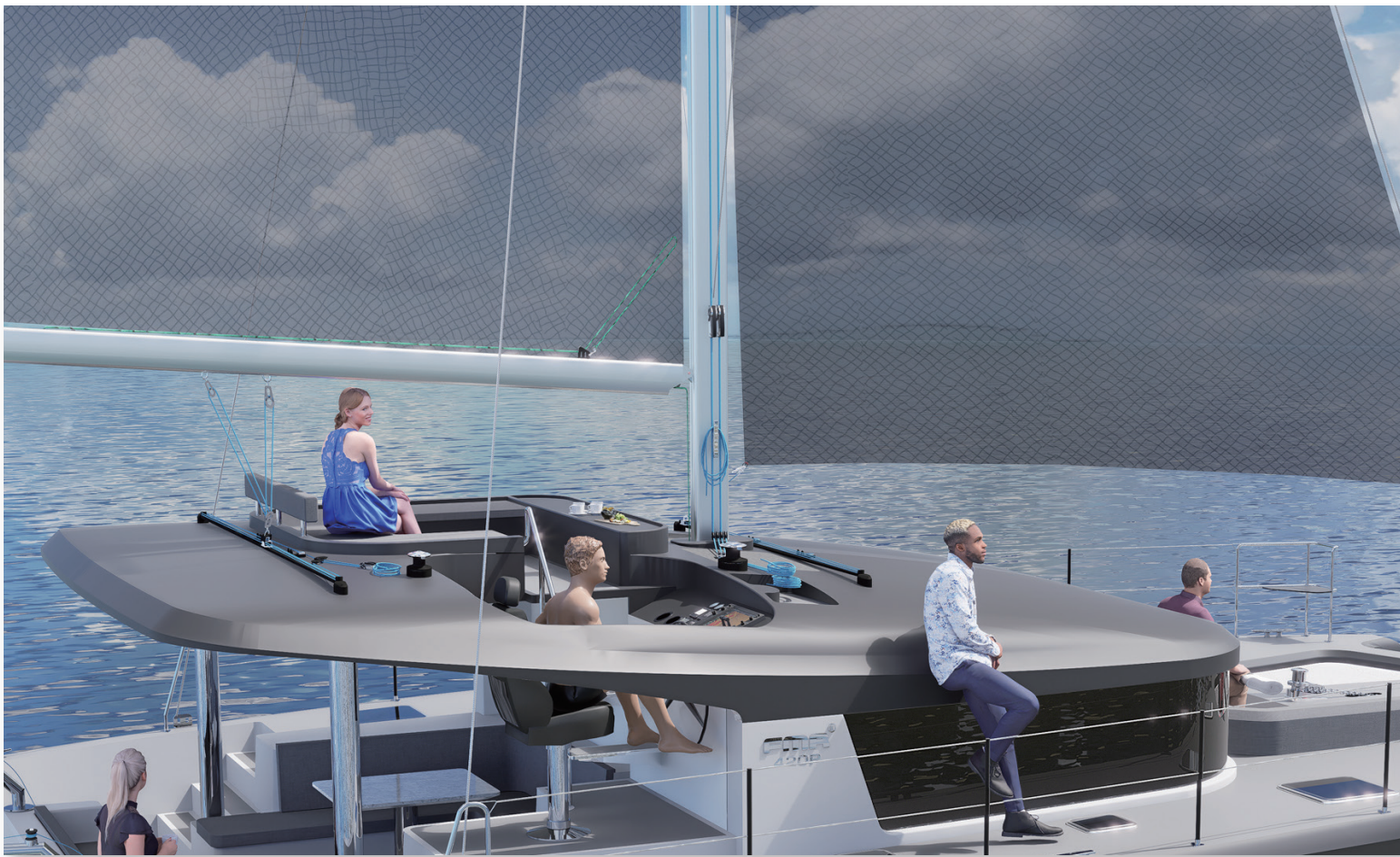
- 8 portlights in hull

- Double layer laminated safety glass salon windows

- Anchor and stowage lockers forward

- There is a U-shaped sofa on the foredeck

- Engine access hatches on transoms



MAST AND RIGGING

Standard

Premium

- Anodized aluminum mast by Z-Spars or similar

- Anodized aluminum boom by Z-Spars or similar

- Internal halyards with exit ports

- Standing rigging 316 SS wire

- 316 SS chain-plate tangs for shrouds

- Mainsail slide system



SAIL HANDLING AND RUNNING RIGGING

Standard

Premium

- Complete winch package:

One (1) Antal electric chromed ST halyard/furling winch

One (1) Antal chromed ST mainsheet winch

1 Antal chromed ST genoa winches

- Facnor (or similar) genoa furling system

- Antal genoa tracks and cars mounted on cabin roof

- Antal custom mainsheet traveler system

- Robline or equivalent mainsheet

- Robline or equivalent main halyard

- Robline or equivalent genoa halyard

- Robline or equivalent gennaker halyard

- Robline or equivalent spare halyard

- Robline double braid or equivalent topping lift

- Robline or equivalent color coded triple reefing lines



SAILS AND CANVAS

Standard

Premium

- Fully battened mainsail with Bat-Car system
- Three (3) reef points in mainsail
- Two (2) single line mainsail reef lines led aft to cockpit
- Furling genoa controlled from cockpit
- UV leech protection on genoa



DECK HARDWARE

Standard

Premium

- 10 opening deck hatches – Lewmar

- SS stanchions

- SS transom handrails

- SS pulpits with seats

- SS boarding ladder on starboard transom

- 6 SS 10" cleats

- Two (2) SS 10" midship spring cleats

- Two (2) deck water fillers

- Deck fuel filler

- Two (2) deck waste pump outs

- 2 showers on transom

- Electric anchor windlass

- Anchor and 100 m (300 ft) chain

- Eight (8) fenders

- Six (6) docklines: 4 x 20 m (65.6 ft) and 2 x 25 m (82 ft)

- Seawater anchor/deck wash-down system

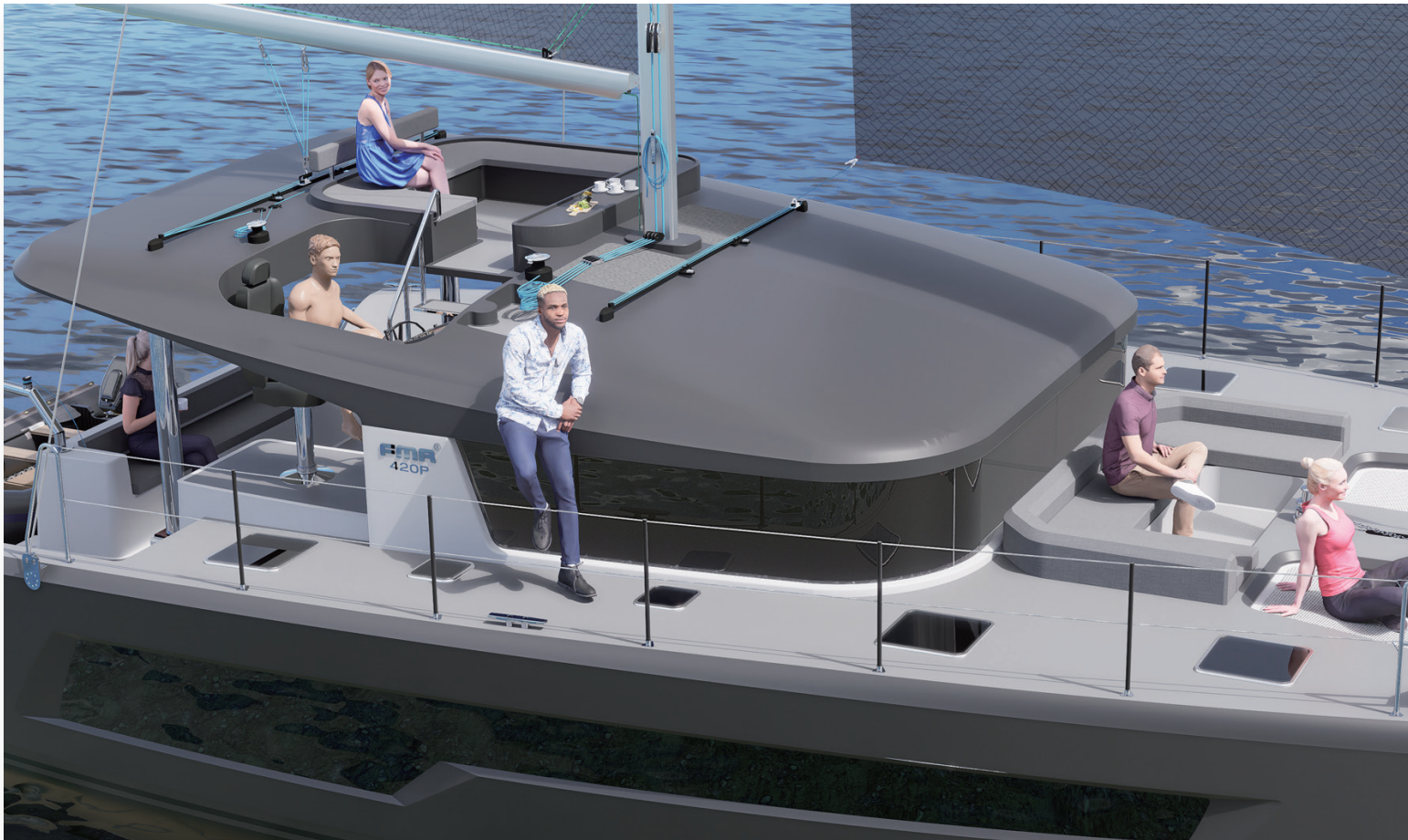


COCKPIT

Standard

Premium

- Large dining table
- One large L settees in cockpit for 6 people
- 4 seater sofa on the stern deck
- Closed cell foam settee cushions upholstered in fabric
- Storage under seating
- Two (2) cockpit stereo speakers
- Staircase leading to the flybridge on the starboard side
- Courtesy floor lighting
- Life raft storage locker at aft end of the cockpit
- Main companionway double sliding door



FLYBRIDGE

Standard

Premium

- L-shaped sofa is equipped with a dining table and can seat up to six people.

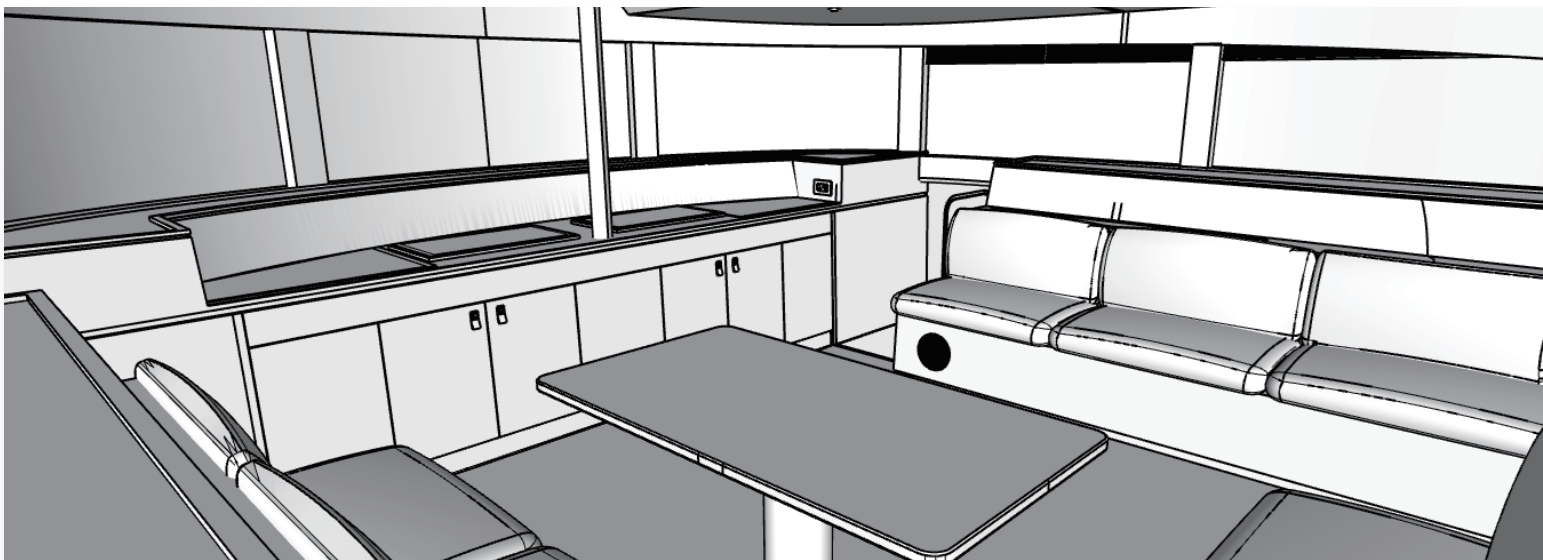
- All the seat cushions are made of waterproof fabric

- Contrasting non-skid flooring

- Stainless steel handrails/grabrails at necessary positions

- steering pod with oversized bench seat

- Helm to have Raymarine suite and full controls

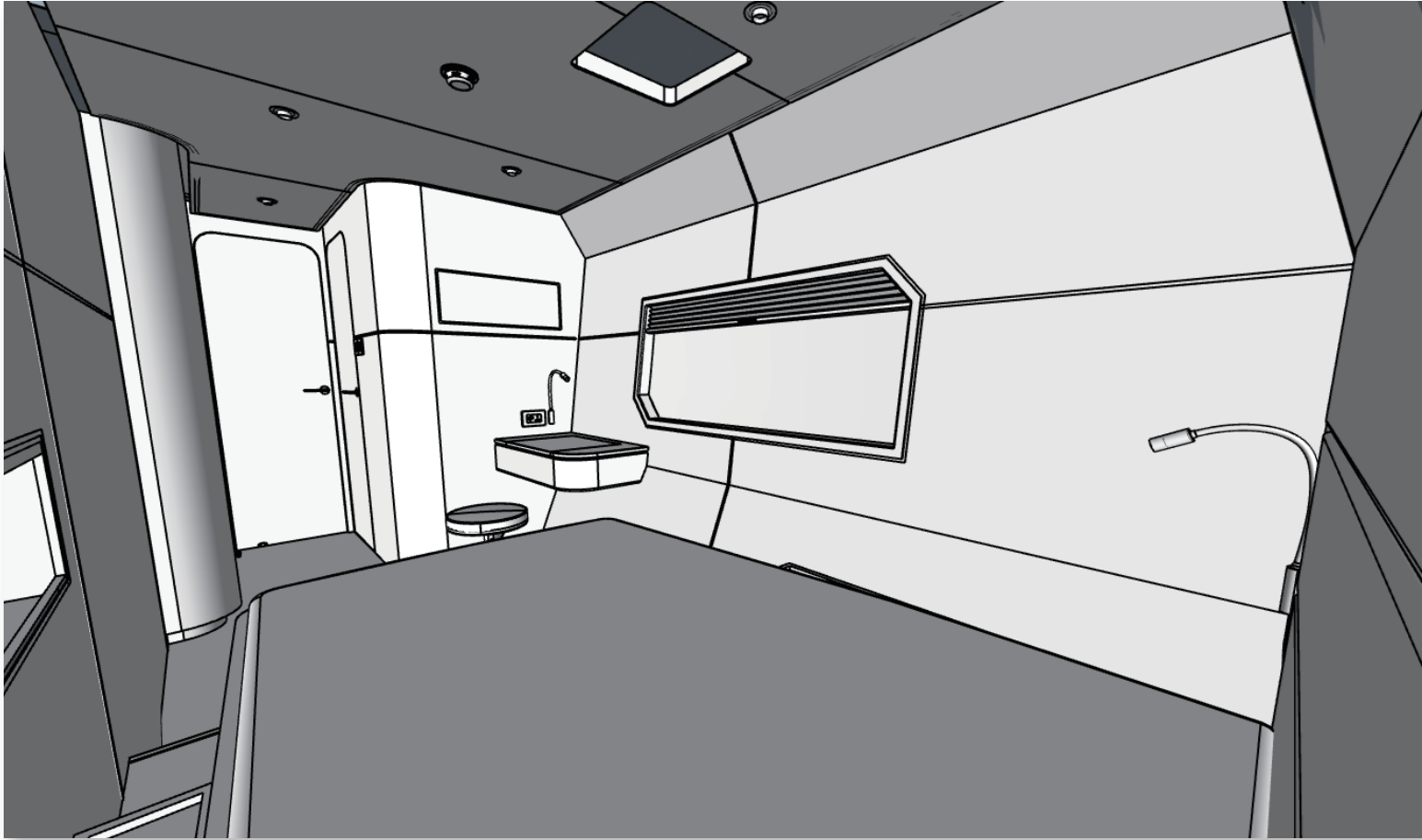


SALON

Standard

Premium

- Panoramic view through large fixed windows
- Dining table on the starboard side
- Inlaid wood dining table
- A large L-shaped sofa
- Entertainment center with LCD TV, CD player and 2 speakers
- 2 cabin access companionways
- Leather interior upholstery
- Headliner combination wood battens, FG and vinyl
- SS accent overhead lighting
- Courtesy floor lighting
- Solid natural teak cabin sole
- galley convenient to salon and cockpit
- Granite counter tops with SS sink
- Embedded marine refrigerator
- 2 electric stove/oven – Electrolux
- Microwave/oven-Electrolux
- FRP cabinets
- Custom storage



AFT STATEROOM(Starboard)

Standard

Premium

- Double berth

- Storage under berth

- Locker with shelf storage

- SS overhead light fixtures

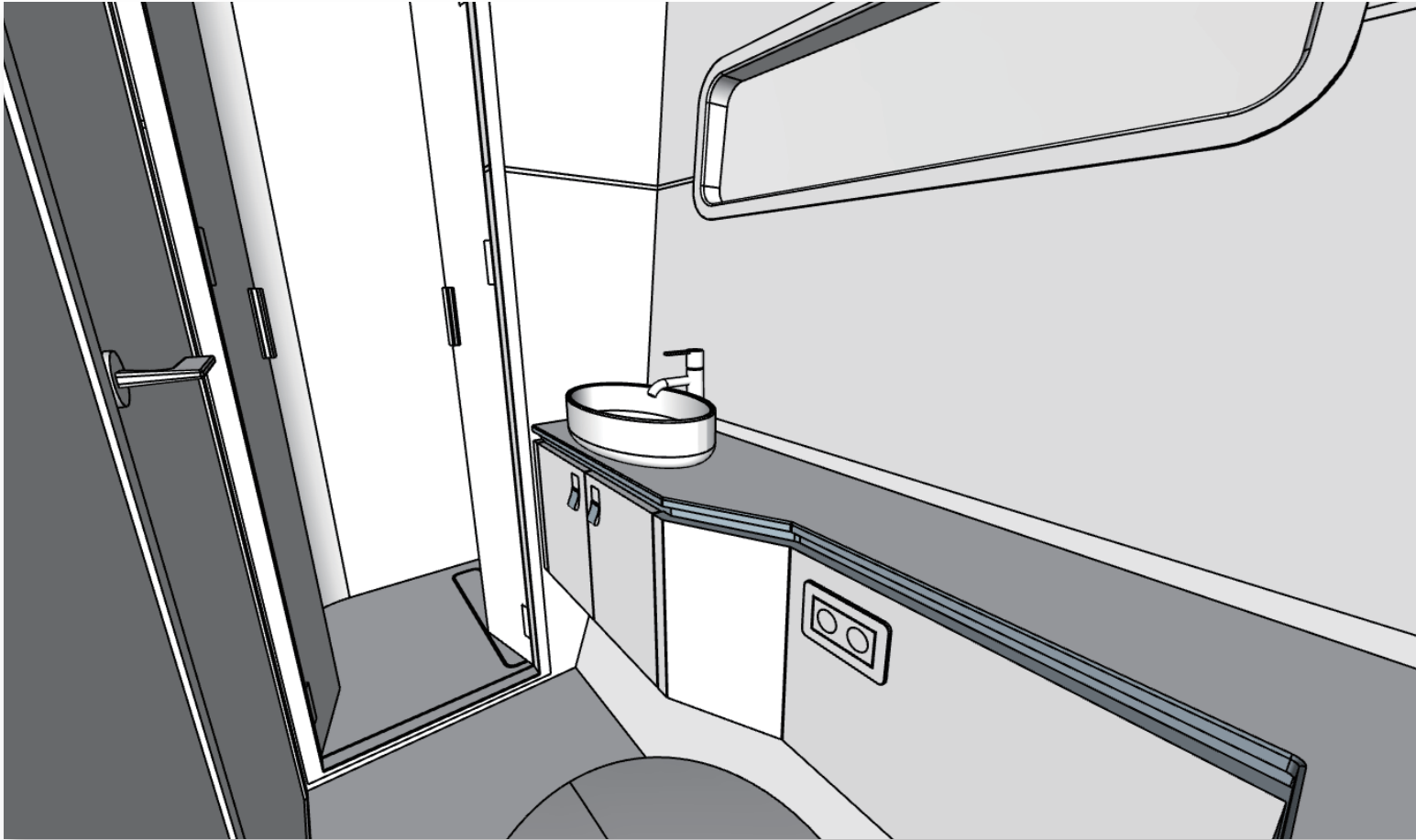
- SS reading light

- Courtesy floor nightlight

- Panoramic forward and side view through fixed windows

- Large overhead hatches with shades and screens – Lewmar

- Solid natural teak or hardwood cabin sole



STARBOARD HEAD AND SHOWER

Standard

Premium

- Shower compartment FRP

- Electric flush toilet -albinus

- Granite counter top with basins

- FRP cabinet

- Mirror

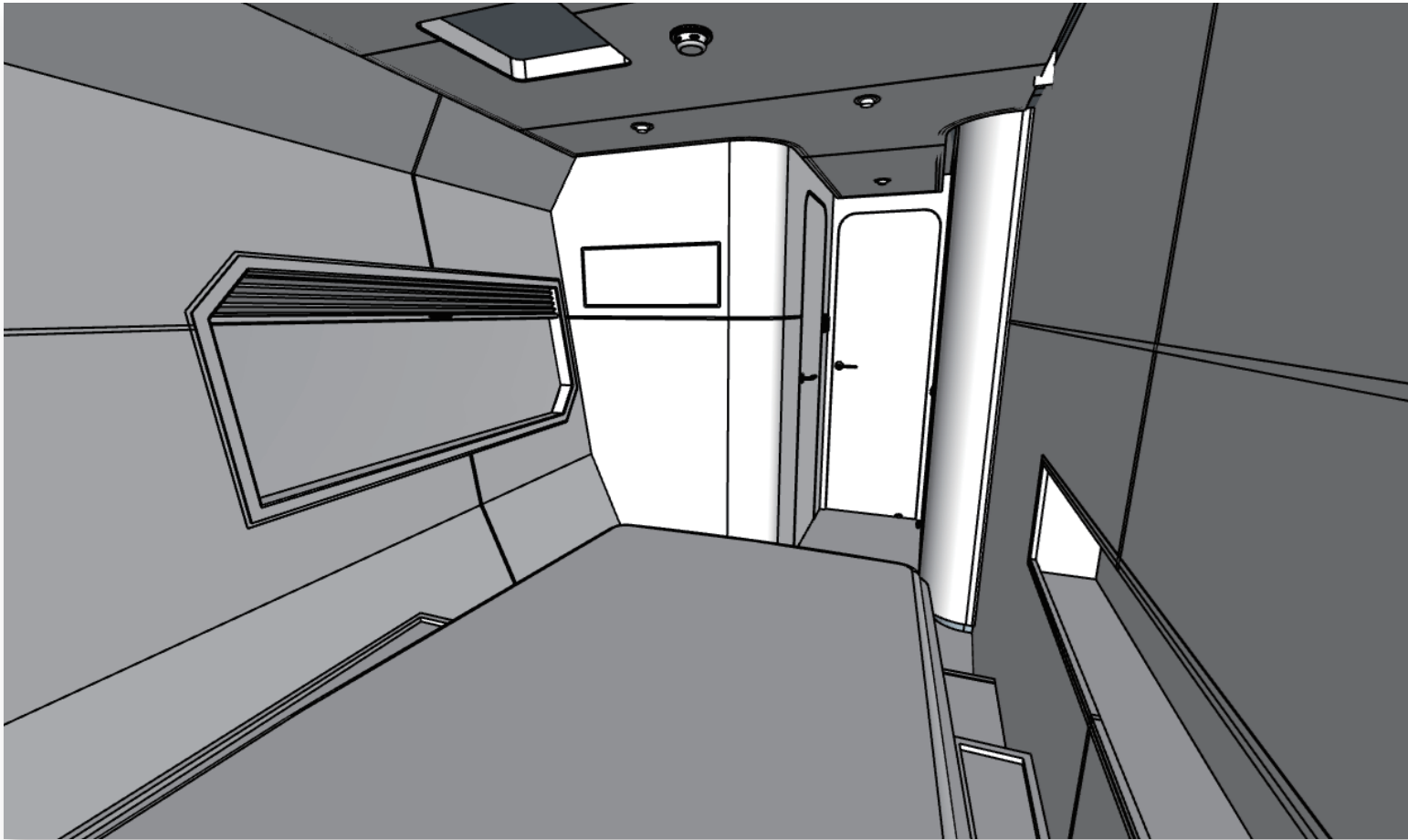
- SS accent overhead LED light fixture

- Courtesy floor nightlight

- SS tissue roller

- SS towel/clothing loops and hooks

- Large overhead hatch with shade and screen – Lewmar



FORWARD STATEROOMS (Starboard)

Standard

Premium

- Double berth

- Drawer storage under berth

- Wardrobe

- SS overhead light fixtures

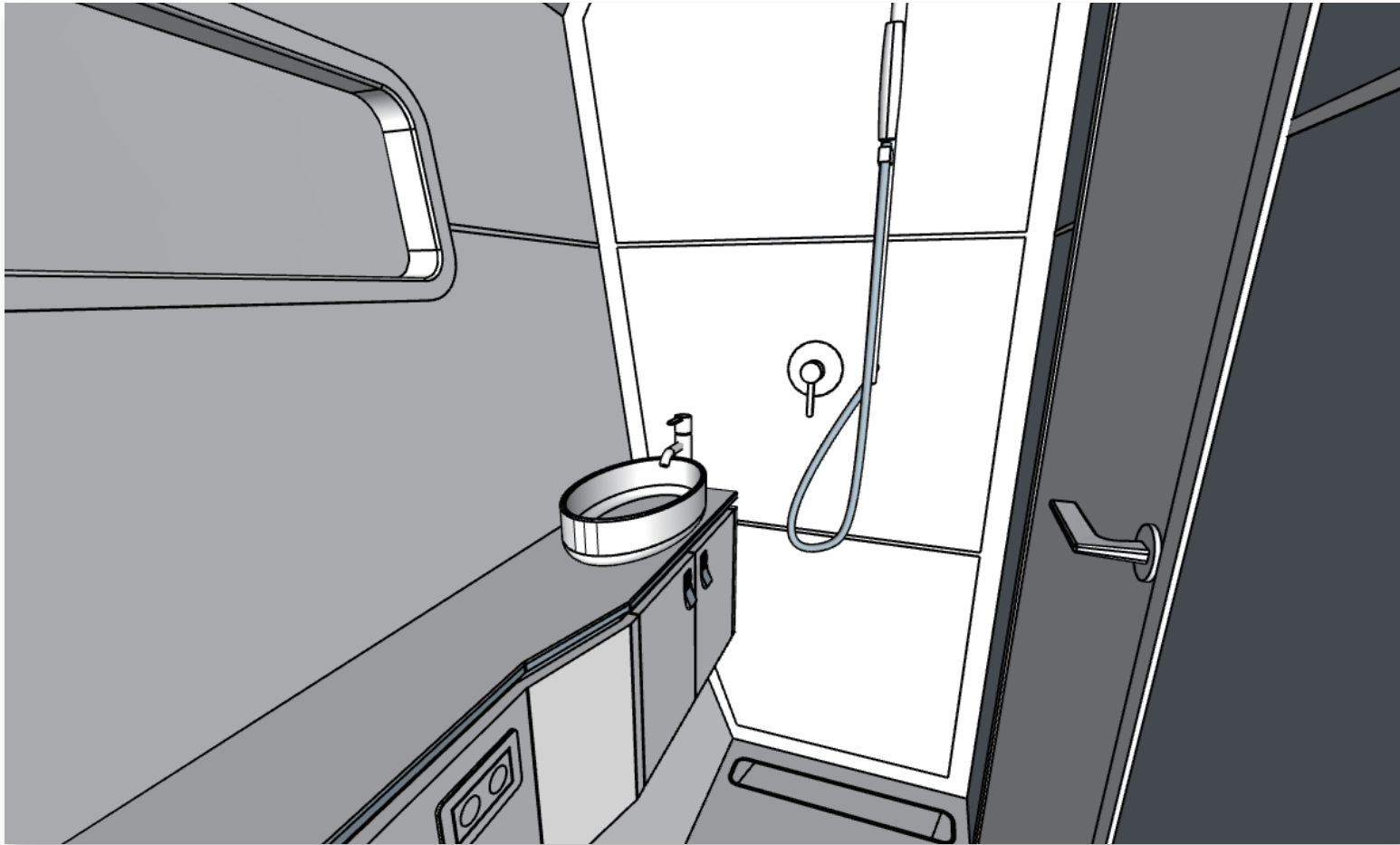
- SS reading light

- Courtesy floor nightlight

- Portlight

- Large overhead hatch with shade and screen – Lewmar

- Solid natural teak or hardwood cabin sole



AFT STATEROOMS (Port)

Standard

Premium

- Double berth

- Storage under berth

- Large hanging locker with shelf storage

- SS overhead light fixtures

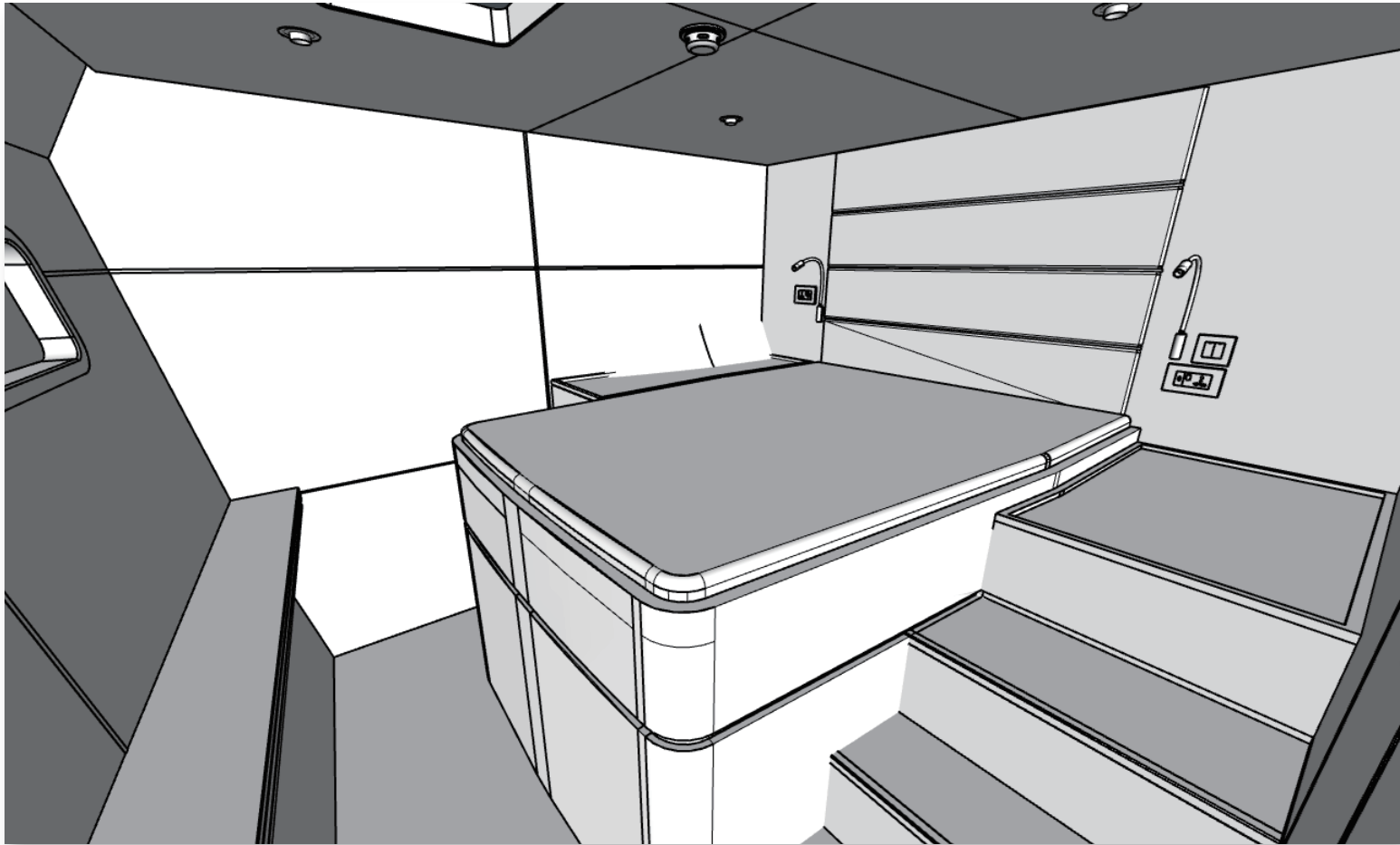
- SS reading light

- Courtesy floor nightlight

- Portlight

- Large overhead hatch with shade and screen – Lewmar

- Solid natural teak or hardwood cabin sole



PORT HEAD AND SHOWER

Standard

Premium

- Shower compartment FRP

- Electric flush toilet -albinus

- Granite counter top with basins

- FRP cabinet

- Mirror

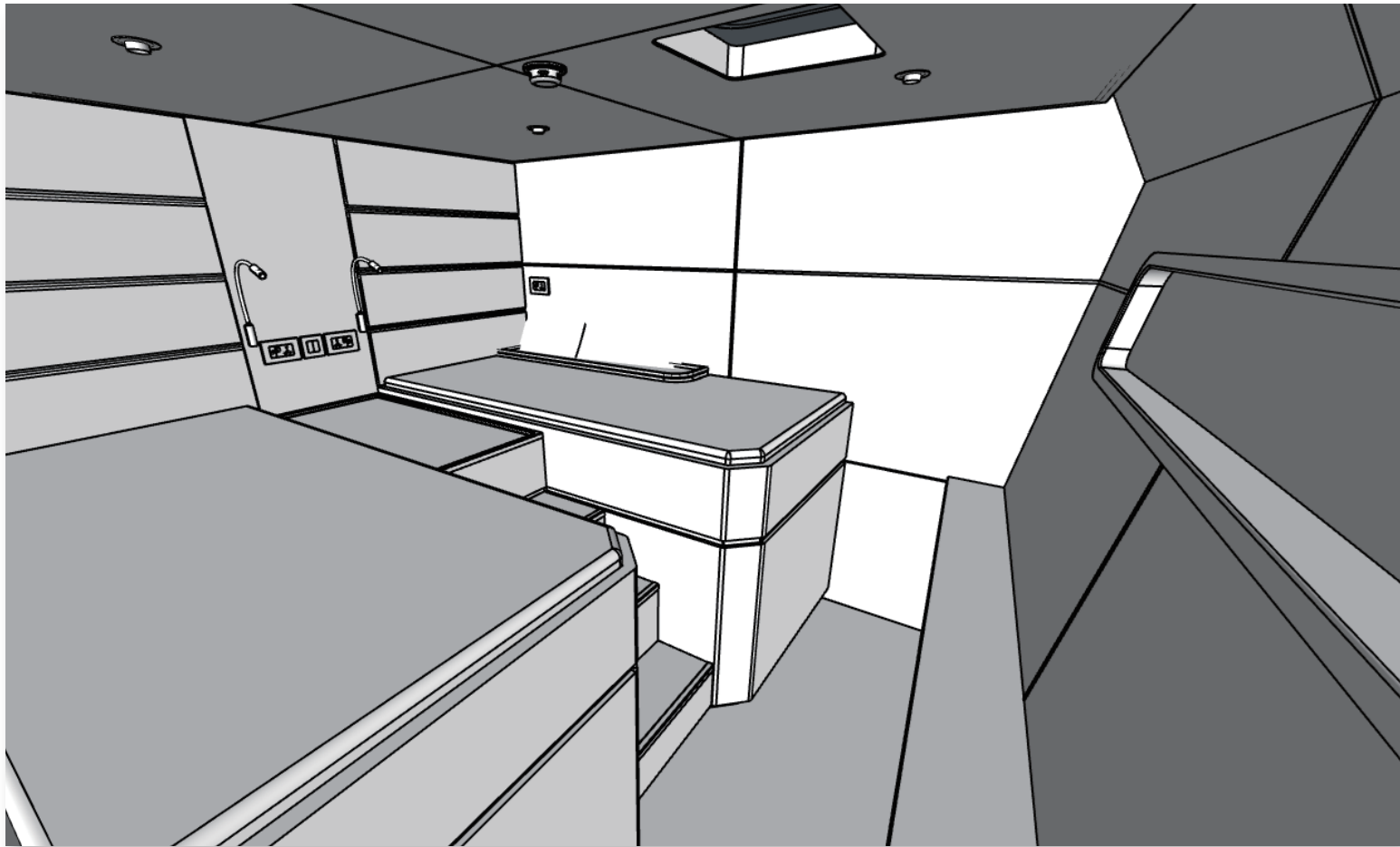
- SS accent overhead LED light fixture

- Courtesy floor nightlight

- SS tissue roller

- SS towel/clothing loops and hooks

- Large overhead hatch with shade and screen – Lewmar

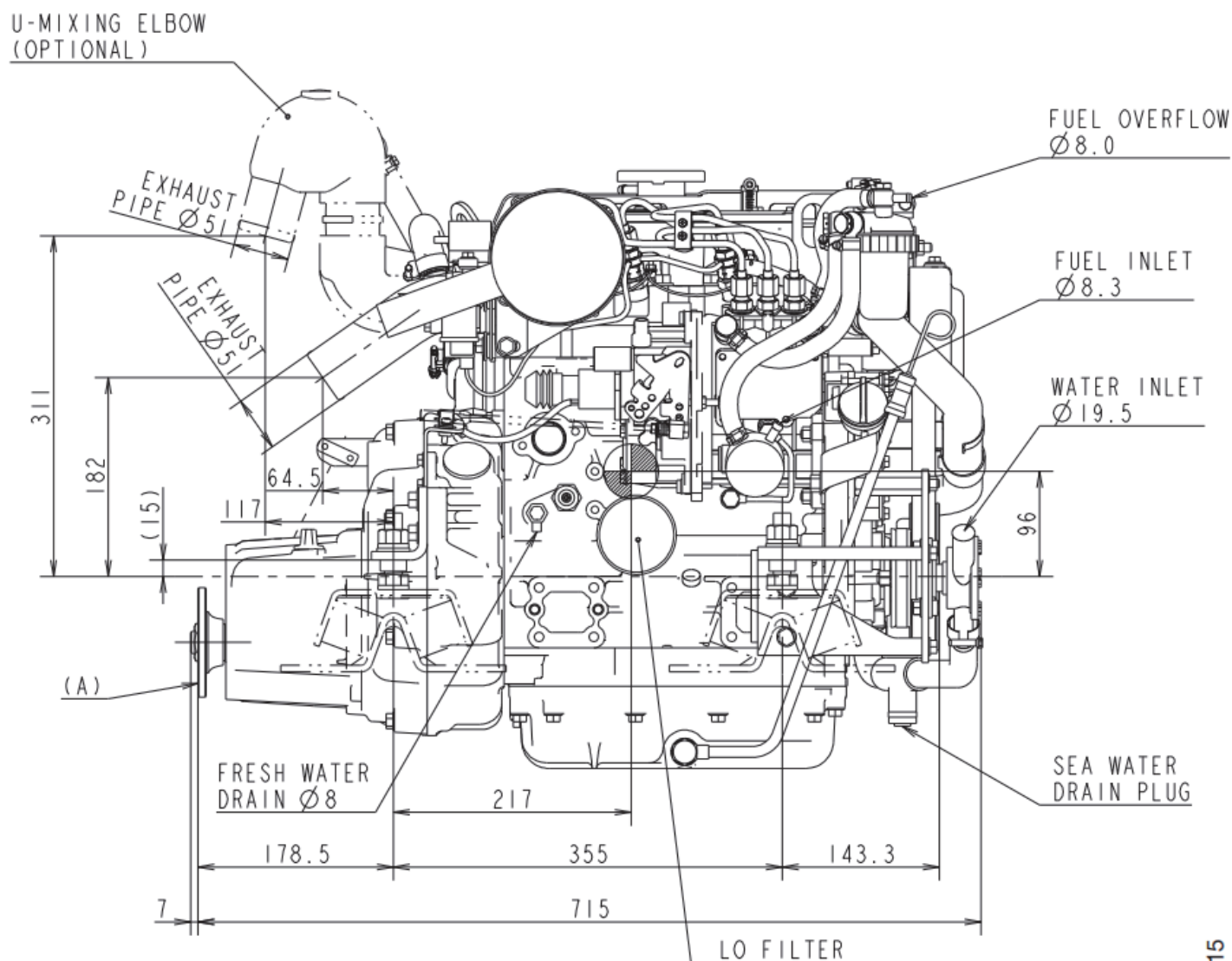


FORWARD STATEROOMS (Port)

Standard

Premium

- Double berth
- Drawer storage under berth
- Large hanging locker outside the room
- SS overhead light fixtures
- SS reading light
- Courtesy floor nightlight
- Portlight
- Large overhead hatch with shade and screen – Lewmar
- Solid natural teak or hardwood cabin sole



0415

ENGINE AND MACHINERY

Standard

Premium

- Twin Yanmar 29 HP diesel engines
- 2 Yanmar SD25 gearboxes
- Engine instrument panel at helm position
- 316 stainless steel fuel tank 1,000 liters (317 gallons)
- Fireboy automatic fire extinguishers in engine rooms

PLUMBING

Standard

Premium

- 6 automatic bilge pumps (1,100 GPH each), 4 in each hull
- Two manually operated bilge pumps 35 liters/min
- Hot and cold pressure water system
- Two (2) fresh water tanks with 1,000 liter total capacity (264 gallons)
- 1 40 liter hot water heaters
- Two (2) black water tanks (2 x 150 liter tanks)
- Black water direct overboard discharge via "Y" valve and pump out through deck pump-out fitting
- Main water maker – Rainman 360 GPD or similar
- Showers on transom

NAVIGATION AND ELECTRONICS

Standard

Premium

- Compass at each helm with light and dimmer
- Raymarine I60 or similar wind/speed/depth instruments
- Raymarine RAY63 VHF radio at navigation station
- Raymarine handheld radio
- 2 Raymarine AXIOM2 PRO 9 or similar chart plotter
- Raymarine RS150 GPS sensor interfaced with MSD
- Raymarine RD418HD 4 kW radar

ELECTRICAL

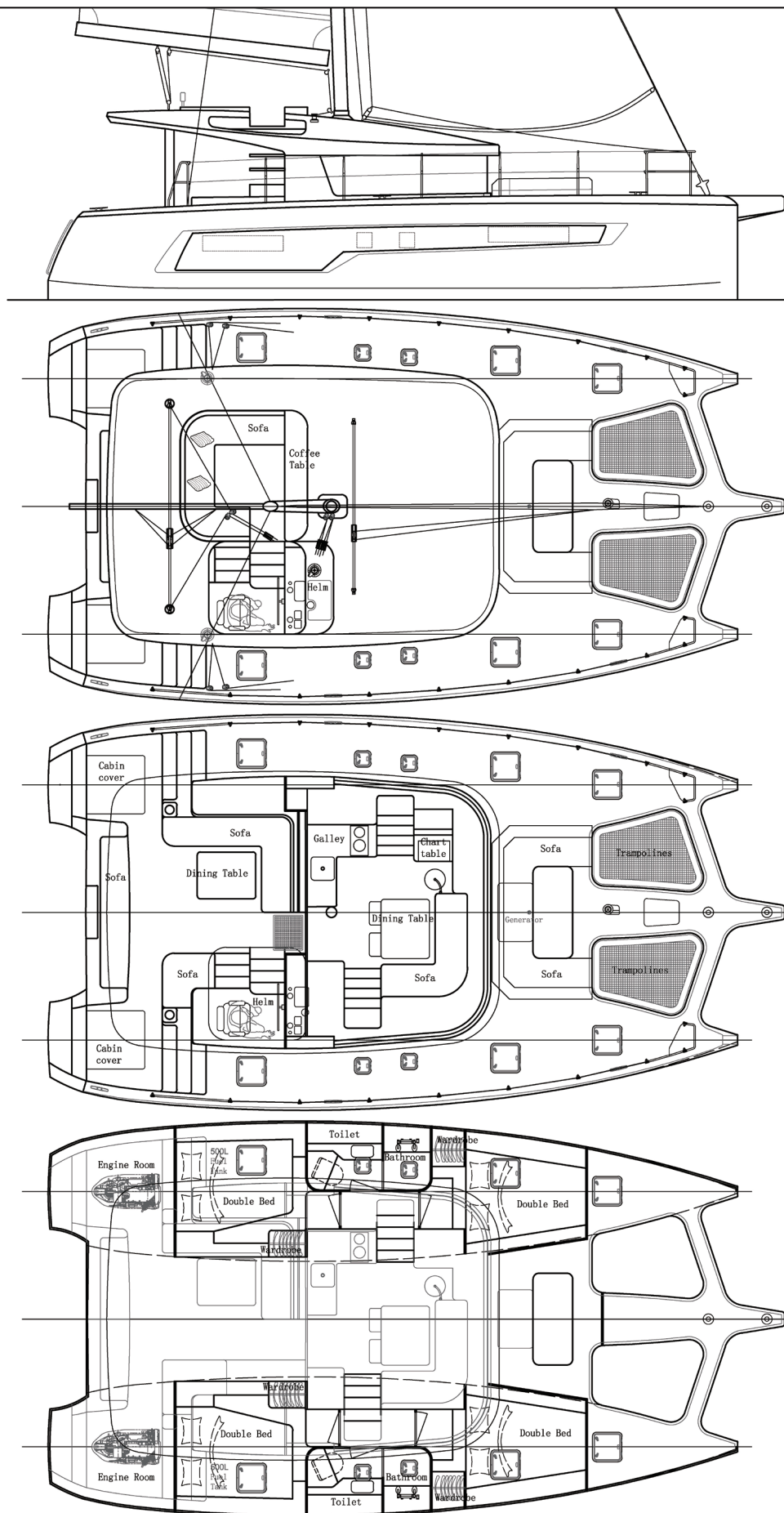
Standard

Premium

- Voltage: 12v DC
- Kohler 9 kw, 120/220v AC, 50 Hz generator
- Inverter/charger 12v DC, 2500 watt, 130 amp, 120v AC
- Gree Chiller air-conditioning system total minimum 64,000 BTU
- Custom 12v DC/120/220v AC electrical distribution panel with circuit breakers
- Battery combiner integrated with the electrical system
- Shore power provides 220v AC
- Batteries to be sealed gel type: house and engine starting
- House: 4 deep cycle total 1200AH to run all domestic services
- Generator and Engines start batteries: two (3) 200AH batteries
- Battery charging from high output alternators
- Wiring - all marine cables to be Lloyds, ABS or CE approved
- Mast wiring run in plastic conduits
- Battery charging from high output alternators or shore power receptacles
- Lighting throughout will be 12v DC
- Mast lights: navigation lights, anchor light, steaming light, tri-color and two deck lights
- Twelve (12) electrical outlets throughout
- 50 foot shore power cords with Hubble fittings
- Alarm system: environment - high bilge, fire/smoke/heat alert; machinery - high water temp, low oil pressure on main engine; high oil temp and low oil pressure on transmission and reduction gear

PARAMETERS

MAX LENGTH:	12.80 M	41.3 Ft
HULL BREADTH (MLD) :	6.82 M	22.3 Ft
DESIGN DRAFT:	1.40 M	4.6 Ft
FUEL CAPACITY:	400 L	106 USGal
STANDARD MAINSAIL AREA:	45 M²	484 SQft
ENGINE POWER OF PROPELLER:	2×YANMAR 29 HP	
LENGTH OF WATERLINE:	11.80 M	38.7 Ft
DEPTH (MLD) :	2.50 M	8.20 Ft
FRESH WATER CAPACITY:	700 L	184 USGal
FULL-LOAD DISPLACEMENT:	16 T	35273 LB
GENOA:	32 M²	344 SQft



DESIGN		AUDIT		FMA420S	TECHNICAL DESIGN
PROOFREAD		CAD		GENERAL DRAWING	CZ420-100-02
LABEL INSPECTION		DITE			WWW.FMABOAT.COM
DETERMINE					

INTERIOR FINISH

Standard

Premium

- Hull interior surfaces to be leather covered
- Salon and stateroom upholstery to be from a selection of leather fabrics
- Wood veneer color options
- Cushions for settees to be of high grade foam of 75-100 mm
- Mattresses to be latex

GENERAL

Standard

Premium

- Antifouling paint
- Four (4) winch handles

Specifications and component part manufacturers are subject to change. All dimensions, sizes and volumes listed are approximate. The shipyard reserves the right to modify any specifications without notice.



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Embark on an ultimate sea journey

