

## PERI 36 TECHNICAL SPECIFICATIONS

### INTENT & STANDARDS

It is the intent of this specifications document that the yacht will be constructed, equipped, furnished, finished and finally tested in every respect and made ready for service by Peri Yachts in high yacht standards from all aspects.

-Some Equipment / systems / material / work / are mentioned more than once in these specifications. This is done for ease of reference and because some equipment might be related to more than one system.

-The yacht will be a twin-screw diesel planing motoryacht and when delivered she will be completed in all respects.

-Except for those items of equipment specially stated here-after as being supplied by the Owner, the Builder will supply all items necessary for the normal operation of the yacht.

-The yacht will be built in accordance with the Specifications and attached plans. No modification can be made by either party without agreement of both. However, they yard reserves the right to alter the specifications as long as this change will have the capacity to improve the specifications and/or the performance to a better degree. Additionally, the owner shall have the possibility to request in writing, through the terms of the contract, changes in the specifications; after receiving such request by written the builder will inform the owner of all the impacts in terms of cost, delivery time and yacht performance. Any changes requested by the owner that can compromise the safety of the yacht , her crew and the passengers will be rejected by the builder.

-All workmanship will be first class in every respect and in accordance with the best marine practice for a boat of this size and type.

-A high standard of cleanliness will be maintained throughout the yacht during the whole period of construction. Additionally the builder will provide suitable facilities and exercise proper diligence in connection with the storage, handling and installation of both builder furnished and owner furnished materials and equipment going into the yacht.

-Items which are not specified "of acceptable manufacturer" or by trade mark or name will be at the builder's option unless otherwise agreed. However the readiness with which service and spare parts can be obtained will be taken into account in the choice of material and equipment.

-All tests and trials will be conducted in accordance with the requirements of the classification society and the builder's practices. The builder will conduct tests and trials necessary to ensure that all structure, systems, equipment and fittings are in accordance with the specification and working satisfactorily.

-All mechanical, propulsion, piping, refrigeration and electrical systems will undergo satisfactory dock's trials and will operate at various loads for a sufficient length of time to demonstrate to be in proper working order before the sea trials.

-The builder is responsible for collecting and analyzing all data and records obtained during the various trials, properly tabulated and presented into a trials record booklet, one copy to be supplied to the owner.

-The sea trials will be carried out by and at the expense of the builder who will provide all necessary material and services for the operation of the yacht during the sea trials program. On the other hand it is owner's responsibility to keep at least one member of the crew during the sea trials to summon practical operational information throughout the sea trials.

-Any defects which may develop or become apparent during the tests and trials will be made good by the builder.

-All tanks, storage spaces, bilges, accommodations and other spaces will be clean and thoroughly cleared of all dunnage and dirt; particular care will be taken that all inside surfaces in tanks, piping systems and machinery are clean and free from any foreign substances, that all painted surfaces will be touched up and clean, that all machinery are in good working order. The responsibility for the storage of all extra equipment, stores and spare parts belong to the yacht's crew.

-When complete, the yacht shall be delivered to the owner afloat at the location of the builder's yard in seaworthy condition, ready to sail but without fuel oil, additional lube oil than the quantity existing in the engines, food and stores.

### Contract Plans

The contract plans will consist of the following:

- Outboard profile
- General arrangement plans of all decks

### Construction Plans

The construction technical documentation will consist of all the drawings, calculations and certificates needed for the construction, the classification and the registration of the yacht and shall be in accordance with the terms of the contract.

### Delivery Documentation

The builder will provide an inventory of all machinery, equipment and outfitting placed on board, including the maker' s standard instruction books.

All plans, instructions books and manuals will be in the English language and will be complete of operating and maintenance instructions.

At the time of yacht' s completion the following documentation will be delivered on board :

-1 set of operating and maintenance manual covering all machinery containing the information on the operating data, design data, reference and serial numbers, maker' s reference numbers, maintenance data as specified by the manufacturer or where applicable according to builder' s standard.

-1 complete set of drawings "as built", covering hull, machinery, auxiliary systems and outfitting.

-The fire control plan will be supplied in glass frames and placed on board of the vessel.

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## **PART 1 PRELIMINARY REMARKS & SPECS.**

### **101 MAIN PARTICULARS**

<b>101.1 VESSEL TYPE</b>	: Composites Motoryacht
<b>101.2 HULL TYPE</b>	: Planing Hull
<b>101.3 HULL MATERIAL</b>	: Glass Reinforced Epoxy Sandwich
<b>101.4 MAIN POWER</b>	: 2 x 2400 HP Diesel
<b>101.5 L.O.A.</b>	: 36,18 m.
<b>101.6 L.W.L.</b>	: 29,31 m.
<b>101.7 BREADTH</b>	: 8,06 m.
<b>101.8 DRAUGHT</b>	: 2,02 m.
<b>101.9 DISPLACEMENT</b>	: 140 M/T
<b>101.10 ACCOMODATION FOR GUESTS</b>	: 10 in 5 cabins
<b>ACCOMODATION FOR CREW</b>	: 7 in 4 cabins
<b>101.11 FUEL TANK CAPACITY</b>	: 30.000 lt.
<b>101.12 FRESHWATER TANK CAP.</b>	: 4.000 lt.
<b>101.13 WASTE WATER TANK CAP.</b>	: 3.000 lt.
<b>101.14 TOTAL PROPULSION POWER</b>	: 2 x 2400 hp@2450 rpm, 2 x shaft inline, 5 blade fixed pitch propellers
<b>101.15 SPEED CRITERIA</b>	: Max. 28 knots / Cruising 23 knots
<b>101.16 RANGE</b>	: 1000 nautical miles

### **102 DESIGN**

<b>102.1 EXTRIOR DESIGN</b>	: Scaro Design
<b>102.2 INTERIOR DESIGN</b>	: Scaro Design
<b>102.3 EXTERIOR STYLING</b>	: Scaro Design
<b>102.4 INTERIOR STYLING &amp; DECO.</b>	: Scaro Design

### **103 ENGINEERING**

<b>103.1 NAVAL ARCHITECTURE</b>	: Dixon Yacht Design
<b>103.2 STRUCTURAL ENGINEERING</b>	: High Modulus
<b>103.3 SYSTEMS ENGINEERING</b>	: Peri Yachts
<b>103.4 ELECTRICAL ENGINEERING</b>	: Vela Yachts
<b>103.5 PLUMBING ENGINEERING</b>	: Peri Yachts

### **104 CLASSIFICATION & CERTIFICATION**

<b>104.1 CLASSIFICATION SOCIETY</b>	: BV / MCA upon request
<b>104.2 NOTATION</b>	: To be discussed and decided
<b>104.3 REGISTRATION &amp; CERTIFIC.</b>	: To be discussed and decided
<b>104.4 MCA COMPLIANCE</b>	: To be discussed and decided

**105 APPROVALS & SURVEYS**

- 105.1 CHANGE IN SPECS** : Changes in specifications are accepted only approved by both the customer and Peri Yachts and limited to the period till the contract is signed.
- 105.2 CHANGE IN ORDERS** : In principal, changes in design and engineering will not be accepted after the signing of the contract with the exception that the customer accepts to pay the additional cost of the changes
- 105.3 APPROVALS OF THE CLIENT** : Any slightest deviation from the below stated specifications will be able to be made only by written approval of the customer or his representative
- 105.4 SURVEYS** : The proceeding of the construction will be inspected, surveyed and reported in writing by the joint survey of Peri Yachts' and customer' s representative with intervals as decided by both parties.

## **PART 2 HULL AND SUPERSTRUCTURE**

### **201 TYPE OF CONSTRUCTION**

- 201.1 HULL CONSTR. TYPE : E-glass reinforced epoxy sandwich  
201.2 SUPERSTRUCTURE CONS. TYPE : E-glass reinforced epoxy sandwich  
201.3 DECKS' CONSTR. TYPE : E-glass reinforced epoxy sandwich with carbon reinforced beams and longitudinal elements

### **202 STRUCTURES – SPECIFICATION**

- 202.1 DEFINITIONS OF MAIN STRC. : 1) EB 850 + EB1130 GLASS + H100 40 mm PVC + EB1130 + EB 850 GLASS (Watertight bulkheads)  
2) EB1130 GLASS + H80 40 mm PVC + EB1130 GLASS (Non-watertight bulkheads)  
3) EB 850 + EB1130 GLASS + H40 60 mm PVC + EB 850 + EB850 GLASS (Floors)
- 202.2 DEF. OF SECONDARY STRC. : EB1130 GLASS + H80 30 mm PVC + EB1130 GLASS (Accommodation bulkheads)

### **203 BULKHEADS**

#### **203.1 WATERTIGHT BULKHEADS :**

##### **203.1.1 Number and Location of Watertight Bulkheads**

WT. BLKHD. B	1774 mm abaft of pos. 0
WT. BLKHD. H	15557 mm abaft of pos. 0
WT. BLKHD. J	21575 mm abaft of pos. 0

##### **203.1.2 Watertight Compartments**

Bulkhead B is to be accepted as collision bulkhead.

B---H	Bowthruster & accommodation compartment
H---J	Engine Room

##### **203.1.3 Watertight Bulkhead Penetrations**

As per directions of the classification rules



**203.2 NON-W.T. BULKHEADS :**

**203.2.1 Number and Location of Non-watertight Bulkheads**

NON-WT. BLKHD. D	6733 mm abaft of pos. 0
NON-WT. BLKHD. E	8984 mm abaft of pos. 0
NON-WT. BLKHD. G	12293 mm abaft of pos. 0
NON-WT. BLKHD. L	26976 mm abaft of pos. 0

AND

RINGFRAME A	746 mm forward of pos. 0
RINGFRAME C	3638 mm abaft of pos. 0
RINGFRAME F	8992 mm abaft of pos. 0
RINGFRAME I	16817 mm abaft of pos. 0

**203.2.2 Non-watertight Bulkhead Penetrations**

As per directions of the classification rules

**203.3 ACCOMMODATION BULKHEADS :**

**203.1.1 Number and Location of Accommodation Bulkheads**

As per interior designer's drawings

**203.1.2 Composition of Accommodation Bulkheads**

As per interior designer' s specifications

**204 OPEN DECKS**

**204.1 OPEN DECKS :**

All deck (131 m<sup>2</sup>) to be covered with Golden Burmese teak

**204.2 FORE DECK :**

All deck (12 m<sup>2</sup>) to be covered with Golden Burmese teak

**204.3 AFT DECK :**

All deck (26 m<sup>2</sup>) to be covered with Golden Burmese teak

**204.4 FLYBRIDGE DECK :**

All deck (50 m<sup>2</sup>) to be covered with Golden Burmese teak

**204.5 SIDE DECKS**

All deck (34 m<sup>2</sup>) to be covered with Golden Burmese teak

**204.6 AFT PLATFORM :**

Aft platform and stairs leading to it (9 m<sup>2</sup>) to be covered with Golden Burmese teak .

**205 FLOORS**

**205.1 MAIN DECK FLOORS :**

88 m<sup>2</sup> covered with high quality carpet or a wood veneer of choice, including the saloon and the galley.

**205.2 LOWER DECK FLOORS :**

91 m<sup>2</sup> to be covered with high quality carpet or a wood veneer of choice, including the crew area

**205.3 UPPER DECK FLOORS :**

46 m<sup>2</sup> of floor to be covered with high quality carpet or a wood veneer of choice

**205.4 WHEELHOUSE FLOOR :**

6 m<sup>2</sup> of floor to be covered with high quality carpet or a wood veneer of choice

**206 DECK EQUIPMENT**

**206.1 ANCHORING ARRANGEMENTS :**

**206.1.1 Windlass / Capstan**

2 x hydraulic AISI 316 lep, each 3500 kg pull capstan with chain stoppers, retractable 316L SS chainways covers and wash system. Bow rollers of chainways to be built in Delrin ®. SS chafing plates at necessary section of the bow.

**206.1.2 Anchors**

2 x CQR or Delta, each 150 kg

**206.1.3 Chain & chainlocker**

2 x 120 meters 17,5 caliber, studless  
Separate chainlocker for each link with fast release and swivel.  
Chain pipes to be slanted and swelled at bottom to provide proper paying-out and prevent rattling.

**206.2 MOORING ARRANGEMENTS :**

**206.2.1 Mooring winches**

2 x hydraulic AISI 316 lep, each 1800 kg pull vertical winches

**206.2.2 Bitts**

10 x 316L SS + 2 x bullhorn bollard-fairleads

**206.2.3 Fairleads**

8 x 316 L SS

Bitts and fairleads well supported under deck for load distribution and to be strong enough to take the weight of the boat under dynamic snatch loads in any direction.

The fairleads to be in a size to allow an eye splice go through.

**206.2.4 Stoppers**

2 x 316 L SS chainstoppers on fore deck

**206.2.5 Lines**

2 x 20 meters + 2 x 30 meters 26 mm. white braided flexible polyamide, breaking load 37.3 kN.

**206.2.6 Fenders**

8 x Losange fenders 1100 mm x 500 mm. approx.

4 x Spherical fenders 800 mm. dia. approx.

All fenders with 2 meters, spliced 12 mm. cords

**206.3 CONTROL & MANEOUV. ARR. :**

**206.3.1 Steering System**

Dual Hydro electric with twin cylinders

Individual emergency hydraulic steering system

2 x Balanced spade type 316 L SS rudder blades with connection bar

Bearings to be discussed and set

**206.3.2 Engine Control System**

2 x MTU electronic throttle and shift control system for twin engines

2 x MTU monitoring and alarm panel for each engine with following indications and alarms:

-Engine RPM

-Engine oil pressure

-Engine temperature

-Gearbox oil pressure

-Gearbox temperature

- Engine load
- Boost pressure
- Alternator charge gauge
- Start and stop push buttons
- Low engine oil pressure alarm
- High engine temperature alarm
- Trip totals and lifetime totals for operating hours, fuel consumption and load factors

**206.3.3 Bowthruster**

1 x 70 HP hydraulic fixed tunnel bowthruster with double control panels

**206.3.4 Stabilizer**

Optional

**206.3.5 Notes**

**206.4 NAVIGATION EQUIPMENT :**

**206.4.1 Manual Navigation Equipment**

2 x Magnetic compass

**206.4.2 Electronic Navigation Equipment**

- 1 x 48 miles SIMRAD Anritsu radar
- 1 x 72 miles SIMRAD Anritsu radar
- 1 x SIMRAD DGPS
- 1 x SIMRAD Navtex receiver
- 1 x Navigation computer and chartplotter system with printer
- 1 x SIMRAD Robertson autopilot system with remote control panel
- 1 x SIMRAD echosounder
- 1 x SIMRAD log
- 1 x SIMRAD wind indicator
- 2 x 10" Color displays for SIMRAD systems

**206.4.3 Navigational Aids**

- 1 x chart table and drawer
- 1 x ruler-divider set
- 1 x barometer-hygrometer-thermometer set
- 1 x pair of binoculars
- 1 x complete set of navigational lights of Aqua Signal or equivalent
- 2 x dual station remote controlled search lights
- 1 x dual station 24 VDC ship' s horn

**206.4.4 Navigational Publishes**

- Relevant charts of Turkish territorial waters
- 1 x Turkish waters pilot book

**206.4.5**        **Notes**

**206.5 COMMUNICATION EQUIP.                :**

**206.5.1**        **Communication Equipment**

- 1 x GMDSS SIMRAD Shipmate standard VHF with remote station
- 1 x Nera Inmarsat Mini M terminal
- 1 x Marine cellular phone set

**206.5.2**        **Internal Communication Equipment**

- 1 x 14 station internal telephone system
- 1 x loudhailer system

**206.5.3**        **Portable Communication Equipment**

- 2 x 5 watts portable VHF set

**206.7 DOORS, HATCHES & SCREENS       :**

**206.7.1**        **Doors**

- 1 x 316 Lep saloon door, Opecmare or equivalent
- 2 x epoxy composites pantograph side doors
- 1 x epoxy composites side door
- 2 x watertight bulkhead doors by Libra or equivalent
- 1 x epoxy composites flybridge sliding door
- 1 x epoxy composites hydraulically operated garage door
- 1 x epoxy composites hydraulically operated transom stairs

**206.7.2**        **Hatches**

- 1 x Master cabin escape hatch by Goyot, Lewmar or equivalent
- 1 x fore deck epoxy composites hatch
- 1 x aft deck epoxy composites hatch

**206.7.3**        **Screens**

- 25 x hardened and laminated 12 mm. screens for the superstructure and master cabin
- 6 x hardened and laminated fixed portlights for the guest cabins
- 3 x 316 L SS portholes for crew quarters
- 3 x Exalto 250 BS 24 VDC screen wipers

**206.8 MISCELLANEOUS :**

**206.7.1 Hydraulic gangway**

- 1 x min. 4.5 meters telescopic hydraulic gangway with remote control, Opacmare or equivalent

**206.7.2 Swimming ladder**

- 1 x 316 L SS swimming ladder with sockets on both side of the aft platform

**206.7.3 Tender & Jet Ski**

- Approx. 5 meters inflatable RIB dinghy and an appropriate size of jet- ski in garage
- Hydraulic winch for the above

**206.7.4 Others**

- 1 x 316 L SS Flagpole
- 1 x 316 L SS Pennant Flagpole
- 1 x 316 L SS Ship' s bell and ship's bell / anchor light pole
- 1 x 316 L SS or composites navigation light mast
- 2 x boat hooks

## **PART 3 ENGINE ROOM & SYSTEMS**

- The simplicity of the equipment and systems will be taken as a major measure for trouble free operation of the yacht.
- Peri Yachts will use similar equipment in the different systems as much as possible in order to have interchangeable parts.
- Pump capacities and pipe diameters will be ample in pressure and flow for all systems throughout the vessel.
- Utmost care will be given to the installation of equipment and piping to ensure proper ventilation and cooling and to provide acceptable accessibility.
- Wherever applicable, all pumps, motors, switchboards, engines and other equipment will have a strong, solid foundation or support to hold the equipment intended in order to avoid vibration or noise by use of rubber mountings and shocks where appropriate.
- SS drip trays will be provided wherever necessary.

### **301 PROPULSION & CONTROL**

#### **301.1 MAIN ENGINE(S) :**

##### **301.1.1 Maker & Model**

2 x MTU 16 V 2000 M93  
Turbocharged – Aftercooled –Electronic Governor

##### **301.1.2 Power & Consumption**

2 x 2400 HP @ 2450 rpm E Rating  
458 lt /h @ full power

##### **301.1.3 Dimensions**

L x W x H	2890 mm x 1295 mm x 1425 mm
Weight (wet & with gear)	4330 kg.

##### **301.1.4 PTO Units**

Secondary hydraulic system pumps with electromagnetic clutch connected to both engines

##### **301.1.5 Installation**

4 points flexible mounting

##### **301.1.6 Exhaust System**

Wet exhaust with injection after elbow  
Low rpm pass-by overboard circuit  
Main underwater exhaust outlet

**301.1.7 Cooling System**

Raw water cooling system with closed circuit freshwater coolant, heat exchanger and after cooler

**301.1.8 Others**

**301.2 GEAR :**

**301.2.1 Maker & Model**

ZF 4650 A

**301.2.2 Power & Ratio**

To be decided

**301.2.3 Dimensions**

Dry weight with standard equipment 490 kg.  
Dimensions are 680 x 752 x 774 mm

**301.2.4 PTO Units**

Each gearbox has PTO's for hydraulic system

**301.2.5 Others**

**301.3 SHAFT LINE :**

**301.3.1 Shaft Material and Length**

Marinemet or Temet 25,  $\varnothing$  100 mm  
6.787 mm. from coupling to propeller nut screw

**301.3.2 Shaft Connection**

Aquadrive, Python or equivalent flexible coupling between gear & shaft

**301.3.3 Alignment, Shaft Bearings and Brackets**

Shaft aligned at 2 x water cooled phenolic bearing  
No. 1 bearing at stern tube outer gland  
No. 2 bearing at P bracket

**301.3.4 Shaft Seals**

Dripless shaft seals, Sure Seal –SSM-70M or equivalent



**301.3.5 Propeller(s)**

2 x 5 Blade, fixed pitch propellers to be designed and manufactured in accordance with the hydrodynamic features and engine specifications.

**301.4 ENGINE ALARM & MONITORING :**

**301.4.1 Engine monitoring panels**

4 x MTU Marine Power Display  
2 x Engine Mounted monitoring panels

**301.4.2 Type of alarms**

All relevant sound and light alarms for safe operation of the engines

**301.4.3 Engine emergency shut off**

Available from MTU control panels

**301.4.4 Notes**

**302 ELECTRICAL PLANT & SYSTEMS**

**302.1 AC SYSTEM :**

**302.1.1 Voltage Type and Total Consumption**

European standard, 3 phase 380 VAC & single phase 220 VAC, 50 Hz.,  $\Sigma$  consumption approximately 60 kW.

Main Electrical panel in the engine room fore bulkhead by Merlin Gerin Schneider panel provided by Vela

**302.1.2 AC Sources**

2 x 65 kW onboard generators  
1 x 4.5 kW electronics power supply inverter  
1 x 55 kW shore power supply system

**302.1.3 Generators**

2 x Onan e-QD MDDCG, 65 kW with;  
-Soundshield  
-2 x Wet exhaust system with mufflers and separators  
-2 x Main operation panels  
-2 x Remote monitoring and alarm panels

**302.1.4 Inverters**

1 x 4.5 kW Mastervolt inverter for electronics' supply

**302.1.5 Alternators**

None

**302.1.6 Shorepower**

60 kW, 380 volts, 3 phase, 50 Hz shorepower supply system with;  
-Isolator transformer  
-Voltage limit and timing switches  
-Polarity control system  
-25 meter shorepower cord  
-Watertight 5 pin shorepower plug and socket

**302.1.7 AC Switchboards, Fusing and Protection**

As per rules of classification society

**302.1.8 AC DPs**

9 x Merlin Gerin / Schneider distribution panels by Vela

**302.1.9 Cabling**

As per classification rules

**302.1.10 List of AC Consumers**

To be discussed and listed

**302.2 DC SYSTEM :**

**302.2.1 Voltage Type & Total Consumption**

24 VDC

**302.2.2 Sources**

Battery banks, battery chargers and alternators

**302.2.3 Battery Banks**

Service battery banks :24 VDC – 1200 Ah, located at E/R  
Main engine battery bank :24 VDC – 2 x 240 Ah, located at E/R  
Generator battery bank :24 VDC – 2 x 120 Ah, located at E/R  
-Paralleling option of above given battery banks

**302.2.4 Emergency Batteries**

Emergency battery bank :24 V – 240 Ah, located at the cockpit

**302.2.5 Alternators (additional to standard alternators on engines)**

-1 x 100 Ah alternator on starboard main engine

**302.2.6 Battery Chargers**

-2 x 100 Ah Mastervolt automatic battery charger for service bank  
-1 x 100 Ah Mastervolt automatic battery charger for emergency bank

**302.2.7 DC Switchboards, Fusing and Protection**

As per classification rules

**302.2.8 DC DPs**

8 x 24 VDC Merlin Gerin / Schneider distribution panels by Vela

**302.2.9 Cabling**

As per classification requirements

**302.2.10 List of DC Consumers**

Service Battery Bank:  
-Electronics' inverter  
-24 VDC FW pump  
-24 VDC bilge & fire pump  
-Secondary bilge system  
-Fuel transfer pump  
-Garage & bilge ventilation  
Emergency Battery Bank  
-Navigation & Communication Equipment  
-Navigation Lights  
-Emergency Lighting  
-Alarm & Monitoring Panel  
-Ships whistle and telephone system

**302.2.11 Notes**

### **303 PLUMBING SYSTEMS**

#### **303.1 FUEL SYSTEM :**

##### **303.1.1 Fuel Capacity and Tanks**

1 x composites D.B. fore fuel tank with interconnected triple section  
13.400 liters  
1 x composites D.B. aft fuel tank with interconnected triple section  
12.600 liters  
1 x composites D.B. starboard daily fuel tank  
2.000 liters  
1 x composites D.B. port daily fuel tank  
2.000 liters  
TOTAL FUEL CAPACITY: 30.000 lt.

##### **303.1.2 Fuel Pumps**

1 x G & R ACB 90 MD 24 VDC / 0.4 kW transfer pump  
1 x G & R Excelsior 1 " manual transfer pump

##### **303.1.3 Fuel Separator**

1 x Alfa Laval MIB 303 fuel separator

##### **303.1.4 Fuel Filters**

1 x Algea X for bacteria treatment  
2 x Separ SWK 2000 10 UMKS for M/Es  
2 x Separ 500 for generators

##### **303.1.5 Fuel Piping, Manifolds & Valves**

-Metallic piping except flexible fuel hoses at connection points to machinery  
-316 L SS manifolds and 316 SS ball valves  
-Remote operated mechanical emergency fuel shut -off valves of fuel feed system

##### **303.1.6 Fuel Gauging**

Vela transducers and gauges

##### **303.1.7 Fuel Fill**

Fuel fill station at transom for all tanks and with spillage well

##### **303.1.8 Fuel Tank Ventilation**

Fuel tank ventilation lines 1.25 times larger in diameter than fill lines. Meshed wire protected outlets at radar arch

**303.1.9 Fuel Consumers' List**

-2 x M/E  
-2 x Generator

**303.1.10 Notes**

**303.2 SEAWATER SYSTEM :**

**303.2.1 Seawater Intake Chests & Strainers**

2 x 3.5 " intake valve & raw water filter  
2 x 2 " intake valve & raw water filter  
1 x 2" service intake chest  
All valves are 316 SS ball valves

**303.2.2 Seawater Discharge Chests & Outlets**

1 x 316 Lep + composites chest  
Bronze skin fittings  
All valves are 316 SS ball valves  
Discharge stack for the following:  
- Bilge pumps  
- Aircon system cooling water  
- Refrigeration system cooling water

**303.2.3 Seawater Pumps**

As per in bilge & fire system

**303.2.4 Seawater Piping, Manifolds & Valves**

Piping either in 316 L SS or in CuNiFer,  
manifolds in 316 L SS, all valves ball type and in 316 SS

**303.2.5 Chainwash System**

1 x ½ hp pump resistant to seawater, PPR piping and 316 SS nozzles

**303.2.6 Notes**

**303.3 FRESHWATER SYSTEM :**

**303.3.1 FW Capacity and Tanks**

1 x composites double bottom fore freshwater tank  
2800 lt capacity  
2 x composites double bottom aft freshwater tank  
600 lt capacity each,  
TOTAL FRESHWATER TANK CAPACITY: 4000 lt.

**303.3.2 FW Pumps**

1 x G & R Jet 1 CC 24VDC  
1 x G & R Jet 1 CC 380 VAC  
1 x Wilo Top S 220 VAC hot water circulation pump

**303.3.3 Watermaker(s)**

2 x Aquaset 350 lt./hr.  
Total watermaker capacity 8.400 lt. approx. per unit/per day

**303.3.4 FW Filters**

1 x mesh wire intake, 4 x carbon

**303.3.5 FW Piping, Manifolds & Valves**

Aquatherm or equivalent PPR piping with original fittings both for cold & hot water systems.  
All valves in 316 SS and ball type  
All metallic fittings either to be in SS or bronze  
All lines metallic at bulkhead penetrations  
All piping to be tested with 4 bars.

**303.3.6 FW Gauging**

Vela level transducers and indicators

**303.3.7 FW Intake**

1 intake at transom  
1 shore connection with regulation valve at transom

**303.3.8 FW Tank Ventilation**

PPR / appropriate dia.

**303.3.9 FW Heater(s)**

2 x G & R - 380 VAC 120 lt.

**303.3.10 Notes**

**303.4 GREYWATER SYSTEM :**

**303.4.1 GW Capacity and Tanks**

Greywater system connected to Jets central sewage system with  
3 x 16 lt. + 2 x 8 lt. Jets vacuum collection boxes

**303.4.2 GW Pumps**

None for the Jets integrated GW system

**303.4.3 GW Collection Chests**

None

**303.4.4 GW Overboard Outlets**

Individual outlet for galley with three way valve

**303.4.5 GW Piping, Manifolds & Valves**

Geberit or equivalent high quality sanitary piping with thermoplastic  
welded joints  
All piping to be tested by min. 3 bars pressure

**303.4.6 GW Gauging**

As per BW system

**303.4.7 GW Discharge Connection**

As per BW system

**303.4.8 GW Tank Ventilation**

As per BW system

**303.4.9 Notes**

**303.5 BLACKWATER SYSTEM :**

**303.5.1 BW Capacity and Tanks**

1 x double bottom composites sewage tank with 3000 lt. capacity

**303.5.2 BW Pumps**

2 x Jets 15 MB-D vacuum pumps of 380 VAC with 150 lt.  
accumulation tank  
2 x 120 flushes per hour / 2 x 15 m<sup>3</sup> per hour

**303.5.3 BW Collection Chests**

None

**303.5.4 BW Discharge System & Outlets**

1 x Jets 4 HK 50 high capacity 380 VAC discharge pump

**303.5.5 BW Piping, Manifolds & Valves**

Geberit or equivalent high quality sanitary piping with thermoplastic welded joints  
All piping to be tested by min. 3 bars pressure

**303.5.6 BW Gauging**

Vela transducer and gauge system

**303.5.7 Sanitary System**

N/A. Direct overboard discharge or shore discharge connection at transom

**303.5.8 BW Tank Ventilation**

Geberit or equivalent piping and carbon filter at ventilation outlet

**303.5.9 Toilets**

8 x Jets 50 FD/VPC floor mounted with seat and cover

**303.5.10 Notes**

**303.6 DRAINAGE SYSTEM :**

**303.6.1 Chainlocker drainage**

Direct overboard discharge

**303.6.2 Foredeck drainage**

316 L SS scupper and PVC piping with overboard discharges over loaded waterline.

**303.6.3 Side decks drainage**

316 L SS scuppers and PVC piping connected to drainage trunk on both sides

**303.6.4 Aft deck drainage**

316 L SS scuppers and PVC piping connected to drainage trunk on both sides



**303.6.5** *Flybridge drainage*

316 L SS scuppers and PVC piping connected to drainage trunk on both sides

**304 SAFETY SYSTEMS**

**304.1 BILGE SYSTEM**

:

**304.1.1** *Watertight compartments*

5 as described in section 203.2.1

**304.1.2** *Main bilge system*

Connected to all watertight compartments except fore peak which has an individual 220 VAC bilge pump.

**304.1.3** *Main bilge system pump(s)*

1 x G & R ACM 401 BT – 380 VAC, 3 kW  
1 x G & R ACM 401 BT – 24 VDC, 3 kW  
Used alternatively as bilge or fire pump

**304.1.4** *Main bilge system lines and manifold(s)*

Either in 316 L SS or in CuNiFer with ball type 316 SS valves and 316 L SS manifold  
All suction pipes connected to the bilge manifold directly and equipped with a strainer and a non-return valve.

**304.1.5** *Secondary bilge system*

1 x secondary bilge pump system

**304.1.6** *Secondary bilge system pumps and lines*

PPR piping and 6 x 24 VDC submersible Rule 2000 pumps

**304.1.7** *Bilge monitoring and alarm system*

Electronic bilge sensors by Vela

**304.1.8** *Emergency bilge pump*

1 x G&R removable diesel pump

**304.1.9** *Notes*

**304.2 FIRE FIGHTING SYSTEM :**

**304.2.1 Fire detection / alarm system & fire station**

Fire detection and alarm system with  
6 x heat detectors  
14 x smoke detectors  
1 x control panel at cockpit  
Amidships fire control station on port side with controls to:  
-Engine room fire fighting system  
-Ship alarm switch  
-Fuel shut off valves  
-Ventilation fan shut off switches  
-Ventilation damper shut off switches

**304.2.2 Fire pump(s) and lines**

As in 304.1.3

**304.2.3 Fire hydrant(s)**

1 x 1.5" at chainlocker  
1 x 1.5" at ransom station  
with 15 meter fire hoses and spray nozzles

**304.2.4 Engine room fire fighting system**

Sea Fire FM 200 65 m<sup>3</sup> inert gas system with remote control from fire station

**304.2.5 Fire extinguishers**

3 x 5 kg. CO 2  
9 x 1 kg. powder

**304.2.6 Ventilation dampers**

Remote controlled 4 x ventilation dampers for engine room ventilation intake and outlets

**304.2.7 Fuel shut off valves**

Manually controlled fuel feed shut off valves

**304.2.8 Notes**

**304.3 SAFETY EQUIPMENT :**

**304.3.1 CO & CO2 sensors**

Engine room, crew quarters, garage to be equipped with relevant sensors

**304.3.2 Life raft(s)**

2 x Viking 14 DK, Solas A 16 persons

**304.3.3 Life buoys**

4 x horseshoe buoys with self igniting light

**304.3.4 Life vests**

20 x Plastimo Typhoon type life vests with whistle and light

**304.3.5 Life slings**

N/A

**304.3.6 Pyrotechnics**

1 set of new pyrotechnics set

**304.3.7 First aids kit**

1 kit

**304.3.8 Life rails**

As per design parameters and classification rules

**304.3.9 Life lines**

As per design parameters and classification rules

**304.3.10 Notes**

## **305 AC & VENTILATION SYSTEMS**

### **305.1 AIRCONDITION SYSTEM :**

#### **305.1.1 AC system**

CLD chilled water triple compressor 380 VAC  
Total capacity 1800.000 Btu

#### **305.1.2 AC System pumps & piping**

1 x high capacity raw water & 2 x high capacity circulation pump  
Aquatherm or equivalent PPR piping with original fittings both for  
raw and chilled water systems.  
All valves in 316 SS and ball type  
All metallic fittings either to be in SS or bronze  
All lines metallic at bulkhead penetrations  
All piping to be tested with 4 bars.

#### **305.1.3 Blower units**

16 x with electronic control panels, capacities to be discussed and set

#### **305.1.4 Fresh air make up unit**

1 x CLD Extair 8 of 32.000 Btu

#### **305.1.5 Notes**

### **305.2 VENTILATION SYSTEM :**

#### **305.2.1 Accommodation ventilation**

1 x G & R C 402 with outlet on port side

#### **305.2.2 Engine room ventilation**

2 x Blowers, G & R 750 –  
2 x Extractor, G & R 450 –

#### **305.2.3 Galley ventilation**

1 x 500 watts extractor with carbon filter

#### **305.2.4 Garage ventilation**

1 x Enag spark proof 500 watts

#### **305.2.5 Manually ventilated volumes**

Fore peak

**305.2.7      Insulation**

- Attention will be paid to the noise reduction of pipes, equipment, pumps, compressors, transformers, unsupported panels, doors and hangings.
- All hot water piping and chilled water lines of the aircon system to be insulated.
- Engine room bulkheads to be insulated as per directions of classification rules.
- Hull shell at the perimeter of the engine room to be completely insulated with a material to the satisfaction of the classification society just like the ceilings of the same volume. The insulation material will be totally covered with Al-bondal plates or equivalent.
- All fuel, water, exhaust, oil and other connections to the main engines, main engine gears, generators and hydraulic power packs and other connection to equipment such as pumps will be flexible to allow spatial displacement of the equipment on its mounting.
- All auxiliary equipment to be mounted on anti-vibration rubber mountings.

**306    HYDRAULIC SYSTEMS**

**306.1    MAIN HYDRAULIC POWER :**

**306.1.1      Main hydraulic power supplier**

1 x Rexroth or equivalent or 10 kW 380 VAC – Tank mounted power pack

**306.1.2      Main pump connected system(s)**

Bowthruster, capstans, mooring winches, garage door

**306.1.3      Valve blocks & piping**

As per engineering and diagrams. All piping metallic except at connection points to machinery where flexibility needed. Metallic lines to be replaced by high quality flexible hoses of appropriate diameter and pressure at such points.

**306.1.4      Notes**

**306.2    SECOND. HYDR. POWER      :**

**306.2.1      Secondary hydraulic power supplier**

2 x secondary pumps run by M/E PTO's

**306.2.2      Secondary pump connected system(s)**

Same as 306.1.2

**306.2.3 Valve blocks& piping**

As per engineering and diagrams. All piping metallic except at connection points to machinery where flexibility needed. Metallic lines to be replaced by high quality flexible hoses of appropriate diameter and pressure at such points.

**306.2.4 Notes**

**306.3 HYDRAULIC CONSUMERS :**

**306.3.1 List of hydraulic power consumers**

To be discussed and set.

**306.3.2 Notes**

**306.4 CLOSE CIRCUIT SYSTEMS :**

**306.4.1 Steering system**

B.S.C. HD FFU Dual hydro electric with Stazo wheels

**306.4.2 Emergency steering system**

Mechanical DATA pump at dinghy garage with a heading indicator.

**306.4.3 Valve blocks& piping**

As per engineering and diagrams.

**306.4.4 Notes**

**307 ALARM & MONITORING SYSTEMS**

**307.1 ALARM & MONITORING :**

**307.1.1 Fire monitoring& alarm system**

As in 304.2.1

**307.1.2 Bilge monitoring & alarm system**

Bilge sensing and alarm panel at main helm station of the bridge.  
Secondary sound and light alarm at cockpit steering position.

**307.1.3 Tanks monitoring & alarm system**

Tank sensing and alarm panel at the main helm station of the bridge.  
Daily tank fuel gauges and alarms at both steering positions.

**307.1.4      Navigation alarm systems**

As per instruments specifications

**307.1.5      Security monitoring and alarm**

Burgler alarm at all deck entrances. Closed circuit camera system for engine room, steering room, fore deck & aft deck

**307.1.6      Notes**

## **PART 4 INTERIORS**

### **401 GUEST INTERIORS & DECK SPACES**

#### **DECORATION & DOMESTIC EQUIPMENT :**

As per design standards on the plans attached, the decoration and interior domestic equipment will have the following specifications :

#### **Standard Fixtures & Materials for all areas**

- All interior lighting fixtures will be Cantalupi, BCS, Pelagi or equivalent.
- All lights will be 220 volt wherever practical, otherwise they will be 24 volt.
- All lighting switches and all sockets will be Vimar , Berker or equivalent type
- All interior door, drawer and locker handles will be Handle, Wurth or equivalent type
- All interior bathroom water faucet fixtures and accessories will be Grohe or equivalent
- All bathroom sinks will be white enamel
- Sinks in bars and galley will be stainless steel type Bianco or equivalent type
- Bed mattresses will be in two density foam.
- All bathroom and cabin mirrors will be clear silver with bevelled edges, 8 mm. min. thickness and supplied by Yamancam or equivalent type

#### **Standard materials for, cabins, corridors & salon are**

#### **Furniture**

- Wood veneer on furniture pieces will be satin lacquered , shade of staining as per client's choice. Veneer as per client choice based on a cost of 20 euro per m<sup>2</sup>
- Massive wood for furniture trim and mouldings will be satin or brilliant lacquered Ayos or similar wood, colour as per clients choice

#### **Upholstery**

- Furniture seating upholstery will be covered in fabrics as per clients choice, based on a fabric cost of 20 Euro per linear meter
- All bedding materials fabrics will be as per clients choice, based on a fabric cost of 20 Euro per linear meter
- All windows and portlights will have curtains except in pilothouse & crew. They will be Roman Blind style, and fabrics will be as per clients choice, based on a fabric cost of 20 Euro per linear meter

#### **Floor Coverings**

- In cabins, corridors and salon will be carpet, colour as per clients choice
- In bathrooms and pilothouse it will be simulated teak and holly decking

#### **Wall Coverings**

- In cabins, corridors and salon the wall finish will be fabric panels, fabric and colour as per clients choice, based on a fabric cost of 20 Euro per linear meter
- In the pilothouse, the wall finish will be mostly lacquered cherry or mahogany wood



panels.

- In bathrooms the wall finish will be white brilliant lacquered panels
- In shower stalls the wall finish will be white brilliant lacquered Forex panels

### **Ceiling Coverings**

- In cabins, corridors, salon and pilothouse the ceiling covering will be Lorica or
- Alcantara, colour as per clients choice
- In bathrooms the ceiling will be white brilliant lacquered panels

### **Bathrooms**

- Counter tops will be granite, type/colour Verde Bahia from Betaka Granit Mermer or other texture and colour as per Clients choice
- The master cabin bathroom only, is equipped with two sinks, and a semi-round custom built Jacuzzi style bathtub

<b>401.1 MASTER CABIN</b>	: To be arranged as per drawings of designer
<b>401.2 VIP CABINS</b>	: To be arranged as per drawings of designer
<b>401.3 GUEST CABINS</b>	: To be arranged as per drawings of designer
<b>401.4 NANNY CABIN</b>	: None
<b>401.5 SALOON</b>	: To be arranged as per drawings of designer
<b>401.6 UPPER SALOON</b>	: None
<b>401.7 AFT DECK ARR.</b>	: To be arranged as per drawings of designer
<b>401.8 FORE DECK ARR.</b>	: As per GA drawings
<b>401.9 FLYBRIDGE ARR.</b>	: To be arranged as per drawings of designer
<b>401.10 CORRIDORS</b>	: To be arranged as per drawings of designer
<b>401.11 LOCKERS</b>	: As per GA drawings
<b>401.12 AFT PLATFORM ARR.</b>	: As per GA drawings

## **402 CREW QUARTERS**

### **Furniture**

- Wood veneer on furniture pieces will be built in clear lacquered Wava wood
- Massive wood veneer on furniture pieces will be built in clear lacquered Wava wood
- All interior door, drawer and locker handles will be Tem Mobilya and Wurth

### **Upholstery**

- Furniture seating upholstery will be covered in fabrics as per clients choice, based on a fabric cost of 20 Euro per linear meter
- All bedding materials, fabrics will be as per clients choice, based on a fabric cost of 15 Euro per linear meter

### **Floor Coverings**

- In cabins, will be light grey carpet.
- In bathroom and corridor simulated teak and holly decking or light grey vinyl tiles.

### **Wall Coverings**

- In cabins, corridors and salon the wall finish will be fabric panels, fabric and colour as per clients choice, based on a fabric cost of 15 Euro per linear meter
- In the bathroom the wall finish will be white brilliant lacquered Forex panels

### **Ceiling Coverings**

- In cabins, and corridor, and bathrooms the ceiling will be white lacquered panels

### **Domestic Equipment Installed in Crew Area**

1	Washing machine	Bosch WFL 2460
1	Drying machine	Bosch WTA 2000

- 402.1 SKIPPER CABIN** : To be arranged as per drawings of designer
- 402.2 ENGINEER CABIN** : To be arranged as per drawings of designer
- 402.3 CREW CABINS** : To be arranged as per drawings of designer
- 402.4 CREW MESS** : To be arranged as per drawings of designer
- 402.5 CREW QUART. CORR.** : To be arranged as per drawings of designer
- 402.6 CREW QUART. LOCKERS** : To be arranged as per drawings of designer

## **403 GALLEY**

### **403.1 GALLEY :**

- Wood veneer and trim on locker doors will be brilliant white lacquered wood
- Finish inside of galley lockers will be white Forex
- Counter tops will be granite, type/colour Verde Bahia from Betaka Granit Marble or other texture and colour as per Clients choice

### **Floor Coverings**

Will be simulated teak and holly decking or vinyl tiles, colour as per clients choice

### **Wall Coverings**

Wall finish behind counters will be brushed stainless steel or fire resistant formica panels colour as per clients choice  
Refrigerator door finish will be brushed stainless steel

### **Ceiling Coverings**

Will be white brilliant lacquered panels

**403.2 GALLEY EQUIPMENT :**

**Standard Equipment Includes**

1	Water faucet fixture	Grohe	1
1	Large corner type double sink	Bianco or (equal) SS	
1	Large refrigerator	Bosch KSU 3620	
1	Medium freezer	Bosch GUL 1203	
1	4 plate ceramic stove	Bosch NKN 615	
1	Stove ventilation hood	Bosch DHU 652 U	
1	Oven	Bosch HEN 580	

**403.3 PANTRY & EQUIPMENT :**

None

**403.4 BARS & EQUIPMENT :**

2	Small refrigerator	Frigonautica FR 115 RC	
2	Ice maker	VitrifrigoIM 100	

**404 ENTERTAINMENT**

**404.1 AUDIO & VIDEO EQUIPMENT :**

**Standard Equipment Includes** (All to be in international brands)

2	15" television in captains cabin and galley		
1	CD or DVD video player in captains cabin and one in galley		
1	17" television in each guest cabin		
1	CD or DVD video player in each guest cabin		
1	One 37" television in owner's cabin		
1	One 32" television in each VIP cabin		
1	CD or DVD video player in owner's cabin and each VIP cabin		
1	37" television in the salon		
1	CD or DVD video player in the salon		
1	CD stereo in each cabin with two speakers		
1	CD stereo in salon with four speakers, plus two speakers for aft deck		
1	CD stereo on flybridge with two speakers		
1	TV satellite antenna and tuner		

**404.2 IT EQUIPMENT : To be discussed and set**

**405 MISCELLANEOUS**

**405.1 DECK INVENTORY : As in the relevant sections**

**405.2 MACHINERY INVENTORY : As in the relevant sections**

**405.3 INTERIORS INVENTORY : As in the relevant sections**

## **PART 5 PAINT & VARNISH SYSTEMS**

### **501 EXTERIORS PAINT SYSTEMS**

#### **501.1 UNDERCOATS :**

##### **501.1.1 Underwater area**

Underwater area of approximately 150 m<sup>2</sup>, will be painted with two coats of high-build, two components epoxy paint such as Jotun Megaprimer prior to slight filler work to be carried out in this area. The application will be done by roller brush with relative humidity less than %70 and temperature in between 18° to 26° C.

##### **501.1.2 Sides, superstructure & decks**

The hull sides, superstructure and deck areas of approximately 640 m<sup>2</sup>, will be painted with two coats of high-build, two components epoxy paint such as Jotun Megaprimer prior to complete filler work to be carried out in this area. The application will be done by roller brush with relative humidity less than %70 and temperature in between 18° to 26° C.

#### **501.2 FILLER WORK :**

##### **501.2.1 Underwater area**

The filler work to be carried out on the underwater area is only for the measure of avoiding surface irregularities which may create turbulence during the planing of the vessel and has no cosmetic aim. The application will be done only after the coarse sending of undercoat for proper adhesion of the filler. Jotun Megafiller will be used as filling material. The filler applied areas will be sanded and re-filled with Jotun Megafiller Smooth if necessary. The filler application will be done with relative humidity less than %70 and temperature in between 16° to 28° C. The partial filler work at underwater areas will be locally coated with two additional coats of the undercoat paint used in the system.

##### **501.2.2 Sides, superstructure & decks**

The filler work to be carried out on the hull sides, superstructure and deck has significant cosmetic value and the target is to get perfect finish surface free of any irregularities. The application of Jotun Megafiller and Jotun will Megafiller Smooth to be carried on with satisfactory degree of sanding and refilling until a perfect smooth surface is reached. The application will be done only after the coarse sending of undercoat for proper adhesion of the filler. The filler application will be done with relative humidity less than %70 and temperature in between 16° to 28° C.

**501.3 UNDERCOAT & TOPCOAT :**

**501.3.1 Underwater area**

The underwater will be primed as per instructions of the anti-fouling paint manufacturer . The anti-fouling paint of Jotun Imperial will be applied by roller brush not less than three complete layers. The application will be done with relative humidity less than %70 and temperature in between 16° to 28° C.

**501.3.2 Sides, superstructures & decks**

After the completion of the filler work, the resulting surfaces will be undercoated by two application of Sicomin 215 two component undercoat. The same areas will be wet sanded prior to the application of last undercoat: Sicomin 228 two component undercoat. The resulting surface will be wet sanded again with fine sanding paper prior to minimum three layers of Sicomin aeronautic class two component polyurethane topcoat. The last layer of topcoat will be done with the mixture of colour and polyurethane clear coat as per manufacturer' s instructions. In accordance with the conditions, the topcoat can be applied at one go or the clear coat can be applied after the first two coloured coats. In case there is a longer interval than 24 hours in between the last two coats and the clear coat, the surface will be sanded after a period of minimum 78 hours, with fine sanding paper prior to clear coat application. All the above applications will be done with relative humidity less than %70 and temperature in between 16° to 28° C. The result of the topcoat application will be in top megayacht level, free of contamination, opaque spots, orange peel areas, droplets and other similar defects which may create cosmetic discrepancies.

**502 INTERIORS PAINT SYSTEMS**

**502.1 UNDERCOATS :**

**502.1.1 Bulkheads and walls to be painted**

Minimum one coat of two component epoxy paint on all horizontal and vertical surfaces even if such surfaces will be covered by panels, upholstery and etc.

**502.1.2 Furniture**

As per interior designer's specifications

**502.2 TOPCOATS :**

**502.2.1 Bulkheads and walls to be painted**

As per interior designer's specifications

**502.2.2 Furniture**

As per interior designer's specifications

**503 BILGE PAINT SYSTEMS**

**503.1 List of bilge areas to be painted**

All bilge surfaces, wings, bulkheads and ceilings without exception

**503.2 Application of bilge paint**

Minimum 2 coats of two component epoxy paint in all bilge surfaces. Critical areas such as fore peak, engine room bilge, garage bilge to be painted with an additional third coat of same paint.

**504 TANK PAINT SYSTEMS**

**504.1 List of tanks to be painted**

All tanks to be painted at least with two coats of paint as per need of the tanks. Only suitable coating material can be applied in accordance with the tank specifications. The varying coating specifications should match the different criteria for :

- Fuel Tanks
- Sewage Tank
- Freshwater tank

**504.2 Application of tank paints**

As per directions of the manufacturers

**504.3 Notes**