

TARTAN 4300 SPECIFICATIONS & FEATURES

Hull

- NPG Isothalic gelcoat for superior gloss retention
- BPA epoxy hull laminate producing a strength to weight ratio not attainable in any production polyester laminates
- BPA epoxy's superior adhesive strength reduces overall hull weight while increasing strength producing a faster and safer performance cruising yacht
- Strict resin control through use resin infusion produces glass to resin ratio of 60% glass, 40% resin. (production polyester boats are typically 25% glass, 75% resin=heavy and brittle)
- Superior fatigue and cyclic loading characteristics of BPA epoxy ensure a hull that retains its shape and strength longer resulting in higher resale value
- Extensive internal structure designed to carry rig and keel loads, glass taped into hull using BPA epoxy resin
- Synthetic foam hull coring, provides lightweight structure, stiffness, sound and thermal insulation and superior impact resistance
- Hull is infused under vacuum and the structure is laminated in "one shot" thus does not rely on secondary bonding of structural materials
- BPA epoxy hull laminate is far stronger than any polyester laminate of similar weight, i.e. greater safety margins while delivering superior performance over normal production polyester hulls
- 90 degree throw, Marelon, flush thru hull fittings. Marelon fittings are UL and ABS approved and are corrosion free
- Complete interior paintout for enhanced cosmetics and to seal interior laminate surfaces
- Built to meet ABS Plan Certification
- Industry leading, non-prorated 15 year hull structural and blister guarantee
- Warranty is conditionally transferable

Deck

- Deck is a balanced composite laminate utilizing BPA epoxy resin, uni-directional "E"-glass reinforcement, and high strength/stiffness sealed end grain balsa coring
- CNC computer cut balsa coring also offers acoustic as well as thermal insulation increasing interior comfort
- Our custom resin infusion process creates the best resin-to-glass reinforcement ratio possible resulting in the stiffest, lightest, strongest deck in production boatbuilding
- Weight saved high increases righting moment improving safety and performance
- Infusion process with epoxy resin provides a stronger more fatigue resistant deck laminate than typical production polyester deck laminates
- Deck is locally reinforced at high load areas with additional plies of bi-directional "E"-glass reinforcement
- NPG Isothalic gelcoat for improved color and gloss retention
- Gelcoat is formulated for greater flexibility reducing occurrence of common gel coat crazing
- White or off-white gelcoat with patterned, molded non-skid surface on horizontal deck areas
- Core "windows" at all deck hardware installations. Window is reinforced with solid laminate and isolates hardware installations from cored laminate, reducing stress crazes around hardware often seen in laminates reinforced with plywood and eliminates rot problems associated with decks reinforced with plywood
- Structurally loaded hardware backed with either FRP or 6061 T6 aluminum backing plates
- Time-tested hull to deck joint. Deck is fastened to inward facing hull flange with integrally molded hardened 6061 T6 aluminum bar forming a full sheer length backing plate
- Stainless steel fasteners sized to meet or exceed ABS standard for offshore use, are drilled and tapped into aluminum bar, offering full serviceability from the outside of the boat
- Deck to hull joint bonded with 3M 5200 adhesive sealant

Keel & Ballast

- 6,750 lb (3,062 kg) fin, 8,775 lb (3,980 kg) beavertail, 4% antimonial hardened lead casting
- Template ground for fit and maximum performance
- Faired and epoxy coated
- Beavertail bulb or fin keel design significantly lowers center of gravity improving righting moment. Result is increased sail carrying ability, performance and safety
- Ballast is through-bolted to hull with cast in place stainless steel bolts. Quantity and size exceed ABS standard for offshore use

Rudder & Steering System

- Console style rack and pinion steering pedestal
- 48" stainless steel wheel with leather cover
- Stainless steel pedestal guard
- Single lever engine control with stainless steel handle
- 6" binnacle compass with stainless steel hood
- Engine controls mounted on pedestal for easy access and viewing
- High density, closed cell urethane foam rudder blade with modified epoxy reinforced skins
- Carbon fiber rudder post autoclave molded for high strength and low weight
- High-density, low-friction, self aligning roller rudder bearings
- Gator rudder post seal

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Interior

- Structural fiberglass timbers bonded to hull to carry mast and keel loads
- Structural bulkheads bonded to hull
- Bulkheads and risers are pressure laminate or varnished cherry faced marine plywood
- Hand fit varnished cherry trim throughout
- Solid stock raised panel varnished cherry cabinet doors with ventilation slots
- Positive lock polished chrome cabinet hardware
- 1" solid stock raised panel varnished cherry passage doors in full cherry framed jambs
- Polished chrome Mobella mortised door lock sets
- Solid stock varnished cherry cabinet faces throughout
- Tongue and groove solid cherry hull ceilings in forward stateroom
- Solid cherry face, dovetail joined, all wood drawers throughout
- Custom solid stock main salon table with inlaid Tartan logo and centerline drawer storage
- Easy maintenance, varnished cherry battened overhead with strategically placed access panels
- Varnished teak cabin sole with extensive teak banded access hatches
- Varnished teak handrails placed for security in a seaway
- Selection of designer fabrics available for interior upholstery

Ventilation

- (7) Stainless steel unlimited offshore CE approved deck hatches
- (12) Cabin side mounted stainless steel opening port lights with fly screens
- (2) Cockpit mounted stainless steel opening port lights with fly screens
- (4) 4" Chrome dorade vents with stainless steel guard
- Custom curved Lexan sliding companionway hatch with fiberglass spray hood, solid teak hatch boards and trim

Engine & Mechanical

- 55 hp diesel saildrive with pedestal mount single lever controls
- Pedestal mount engine panel
- 60 gallon (227 l) fuel capacity in aluminum tank with remote gauge
- Fuel filter/water separator
- Lead lined engine insulation
- Excellent engine service access front, sides, and aft
- Folding three blade prop on saildrive for high performance under power and sailing

Electrical

- 2 KW inverter/charger
- Polished chrome and stainless steel interior lighting
- Automatic lights in hanging locker, liquor lockers and refrigerator compartment
- Service lighting in engine compartment
- Service lighting in cockpit lockers
- Directional reading lights at berths and main cabin settees
- Directional spotlights in galley and over main cabin table
- Recessed, dimmable overhead spotlights in main, forward and aft cabins
- Interior courtesy lighting
- Cockpit and swim ladder courtesy lighting
- Dual 30 amp shore power services
- (2) 50 foot shore power cords
- 110 VAC distribution panel prepped to accept gen set
- 110 VAC shore power outlets in each cabin, GFI protected
- 12 VDC & 110 VAC digital metered distribution panel
- Battery selector switch
- Electrical bonding system
- Electric sump pump with automatic float switch for icebox and shower drains
- Electric bilge pump with automatic float switch with manual override
- UL approved, stranded, tinned copper wiring for increased corrosion resistance
- Wiring bundled in PVC conduit with additional conduit in place and available for future installations
- All wiring is properly chafe protected where it passes through bulkheads, liners and cabinetry
- ABYC color coded wiring throughout
- USCG approved navigation lights on bow rail, stern rail and mast
- Nav & exterior lighting switch panels at helm

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Galley & Plumbing

- LPG sniffer with automatic shut off
- Cherry faced cabinetry with raised panel access doors
- Cherry faced, dovetailed cutlery drawers
- 9" deep double sinks with premium marine grade galley faucet and manual foot pump with swivel spigot
- Granicote solid surface galley countertops available in several designer colors
- Storage under galley sink through ventilated raised panel cherry doors
- Hinge out galley trash bin with cherry raised panel door access
- Molded icebox with Granicote solid surface counter top and 4" foam insulation, insulated front and top load access, insulated divider in box
- (1) 11 lb (5kg) LPG Tank
- Hot and cold pressure water with easy service access to pump and plumbing
- Freshwater plumbing features polyethylene tubing and Whale mechanical fittings
- All below water hose connections are double stainless steel clamped for added security
- Premium marine grade hoses used throughout
- 120 gallons (454 l) of freshwater tankage with distribution manifold
- Forespar Marelon thru-hull fittings throughout, UL approved and corrosion free
- 10 gallon (37.85 l) water heater, with engine head exchanger and 110 VAC
- 3 burner Force 10 gimbaled LPG stove with oven and broiler

Head

- (2) Marine head, each with 20 gallon (75.7 l) holding tank w/deck pump out and vent
- Y-valve with direct overboard discharge for offshore use
- Macerator pump for holding tank discharge for offshore use
- Premium marine grade sanitation hoses with low odor permeability
- Separate stall showers with Plexiglas enclosure, molded seat & molded shower lockers
- Digital tank level monitor
- Premium marine grade head faucets and shower mixers
- Molded Granicote solid surface counter tops with integral sinks
- Utility storage under sink through raised panel cherry door
- Ample storage in upper vanity

Accommodations & Storage

- Approximately 78" x 64" berth in forward cabin with quilted mattress
- Furniture grade main cabin settees and seats with contoured cushions
- Main cabin fit with cherry cabinets and ventilated raised panel doors throughout
- Varnished, drop leaf, solid stock cherry table with center storage bin and two dovetail drawers
- 88" long sofa style main cabin settees with slide out extension port to form double berth
- Navigation station port with adjustable navigation chair and chart & laptop storage
- Navigation lockers with installation space for extensive electronics
- Aft cabin with a full-width 78" x 60" double berth, hanging locker and shelves or 2 cabins aft, each with double berth
- Storage below berths
- Cockpit seat locker to port
- Cockpit lazarette hatches port and starboard
- Propane gas bottle storage in cockpit for two 11 lb (5 kg) tanks
- Sail & anchor locker forward

Spars & Rigging

- Mast:
- Carbon-fiber mast for greater strength, lower weight, increased safety margins and improved performance
 - White coated double spreader design
 - Tapered mast section for reduced weight aloft
 - Tapered airfoil swept spreaders
 - Custom designed integral carbon fiber masthead with sheaves for headsail halyards and 1 main halyard
 - 1 x 19 Stainless steel wire rigging with forged turnbuckles
 - Mast to deck tie rod to carry running rigging loads
 - Custom designed stainless steel chainplate system ties to extensive internal FRP structure and hull
 - Masthead anchor light
 - Steaming light with foredeck illuminator
 - Mast wiring conduit
 - VHF wiring for masthead antenna
 - Spartite mast sealing and chock system
 - Harken furler for self tacking jib
 - Harken furler for reacher
 - Harken Battcar system with ball bearing batten cars, slider intermediates and slider headboard

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Spars & Rigging cont'd

Boom:

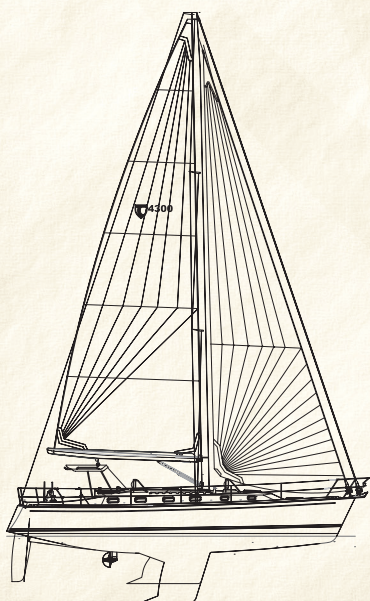
- Tartan Pocket Boom, carbon fiber and epoxy composite with sail cover
- Single line lazy jack system
- Internal 4:1 outhaul – led aft to cockpit winch
- Two-part boom topping lift
- Solid rod vang with tackle led aft to cockpit winch
- Integral lazy jack system

Running Rigging:

- (1) Low stretch genoa halyard
- (1) Low stretch reacher halyard
- (1) Low stretch main halyard
- (1) Dacron self-tacking jib sheet
- (2) Dacron reacher sheets
- (1) Dacron mainsheet
- (2) Main traveler taglines
- (2) Reef lines

Deck Hardware

- (2) Harken 44.2 STC (self-tailing chrome) aft house top-mounted winches for sail controls and mainsheet
- (2) Harken 53.2 STC (self-tailing chrome) cockpit winches
- 27" x 1 1/8" diameter, all-welded stainless steel stanchions, 4 hole mounting base with backing plate installation
- 27" x 1 1/8" tube double stainless steel bow rail with rail-mounted combination navigation light
- 27" x 1 1/8" tube double stainless steel split stern rail with rail mounted navigation light & ensign socket
- 1 x 19 double lifelines with port, starboard, and stern boarding gates with pelican hooks
- Custom designed and fabricated stainless steel stem fitting with integral double bow roller
- Custom fabricated rail mount chocks for bow mooring cleats
- Stainless steel 10" bow mooring cleats with backing plate
- Custom fabricated mid mooring chocks with 10" stainless steel mooring cleats, installed with backing plates
- Stern stainless steel quarter caps
- Stainless steel 10" aft mooring cleats
- 2 1/2" x 1 7/8" teak toerails through-bolted to 6060 T6 aluminum bar in hull flange
- Teak taffrail
- (3) Harken aluminum winch handles
- Outboard genoa trade for reacher
- (12) Spinlock rope clutches for aft sail control leads
- Harken stacked triple aft lead control blocks
- Harken turning blocks at base of mast for aft sail control leads
- Five-part Harken mainsheet system led to housetop self-tailing winch
- Harken traveler with six-part tagline adjustment
- Custom stainless steel mast collar with multiple attachments for blocks
- (4) Polished chrome 4" dorades on teak dorade caps
- (4) Stainless steel dorade guards
- Companionway hatch sea hood with instrument pod
- 6" binnacle compass
- Anchor locker lid with latch
- CE unlimited offshore approved stainless steel deck hatches
- CE unlimited offshore approved stainless steel port lights
- On deck drains to waterline discharge, eliminates hull streaking
- Extensive housetop teak handrails
- Manual cockpit mounted bilge pump
- Drink holders in cockpit
- Offshore ready, match molded, and gasketed cockpit seat hatches
- Hinge down swim platform with a retracting stainless steel ladder with walk through transom



Tartan 4300 Design Dimensions

LOA.....	43.08 ft (13.13 m)
LWL.....	37.86 ft (11.54 m)
Beam.....	13.58 ft (4.14 m)

DRAFT

Fin.....	8.25 ft (2.51 m)
Beavertail Keel.....	5.83 ft (1.78 m)
Keel/Centerboard	4.83 ft (1.47 m)

DISPLACEMENT

Fin.....	21,800 lbs (9888 kg)
Beavertail.....	23,800 lbs (10,796 kg)
Keel/Centerboard	24,075 lbs (10,920 kg)

BALLAST

Fin.....	6,750 lbs (3062 kg)
Beavertail.....	8,775 lbs (3980 kg)
Keel/Centerboard	9,000 lbs (4,092 kg)

CAPACITIES

Fuel	60 gal (227.12 l)	
Water	120 gal (378.54 l)	
Auxiliary	56 hp diesel	
Berths (2 Cabin Layout).....	7 Berths (3 Cabin Layout).....	9

SAIL DIMENSIONS

I, Self tacking jib.....	57.6 ft (17.55 m)
J, Self tacking jib.....	17.5 ft (5.33 m)
I, Reacher.....	59.6 ft (18.17 m)
J, Reacher	18.75 ft (5.75 m)
P.....	54.0 ft (16.46 m)
E.....	18.2 ft (5.53 m)
Total Sail Area, ST Jib.....	994 sq ft (92.35 sq m)
Mainsail Area	490 sq ft (45.52 sq m)
Upwind Sail Area.....	504 sq ft (46.82 sq m)
Sail Area 150% reacher.....	852 sq ft (79.15 sq m)
Bridge Clearance.....	64.75 ft (19.74 m)

PERFORMANCE RATIOS

SA/Disp (W/Self Tacking Jib)	19.3
Ballast/Disp (Beavertail Keel).....	37%
Disp/Length (Beavertail Disp)	196

DesignerTim Jackett

CE approved for category "A" unlimited offshore

Specifications subject to change • Updated September 2011