

TARTAN 31 PIPER

Tartan 31 Piper Design comments by Tim Jackett

The **Tartan 31 Piper** is designed to carry on the Tartan tradition of excellence in sailing performance, whether racing or cruising and to withstand offshore conditions. We then looked for proven and innovative ways to maximize comfort and luxury within her 31-foot hull.

The hull form carries fullness to the ends; her sections are U-shaped with a firm turn at the bilge. The result is excellent stability, low wetted surface and powerful sailing lines. Her design points to a hull with good behavior and performance throughout a wide range of wind and wave conditions.

Two keel plans are offered; a deep elliptical fin (6'0") and a shoal-draft beaver tail bulb (4'4") which has proven successful and popular among cruising owners of other Tartan models. The proper size of the subtly elliptical rudder underscores Tartan's commitment to control. Ballast is carried low; this, together with a high ballast/displacement ratio, allows **Tartan 31 Piper** to comfortably carry a powerful sailplan.

Tartan 31 Piper has a tall double-spreader masthead rig. The large mainsail insures good reaching and off-wind performance; the high-aspect fore-triangle and close sheeting-angles insure efficient headsails and strong windward performance.

While the deck styling is sleek and modern, the emphasis has been placed on function and safety. All sail controls are led aft to housetop-mounted winches. So, too, are the 4-part cabin-top mainsheet traveler controls. The cockpit is T-shaped; seats are contoured for comfort under sail and at anchor. From the gently raised hump of the helmsman's seat, the visibility forward is excellent. **Tartan 31 Piper's** large foredeck, wide sidedecks, comfortable cockpit and well-planned layout provide safety and pleasure to the sailing experience.

The interior was designed with offshore sailing in mind yet is contemporary in style. Angled bulkheads and cabin furniture in hand-rubbed teak provide an openness and a luxurious look without omitting necessary features. Tartans have always been well appointed; this model is no exception.

The forward stateroom provides a large V-berth with bureau and hanging locker to starboard. The generously sized head includes marine toilet, sink, and shower (separate shower sump with overboard pump) plus lockers and access from both forward stateroom and main cabin.

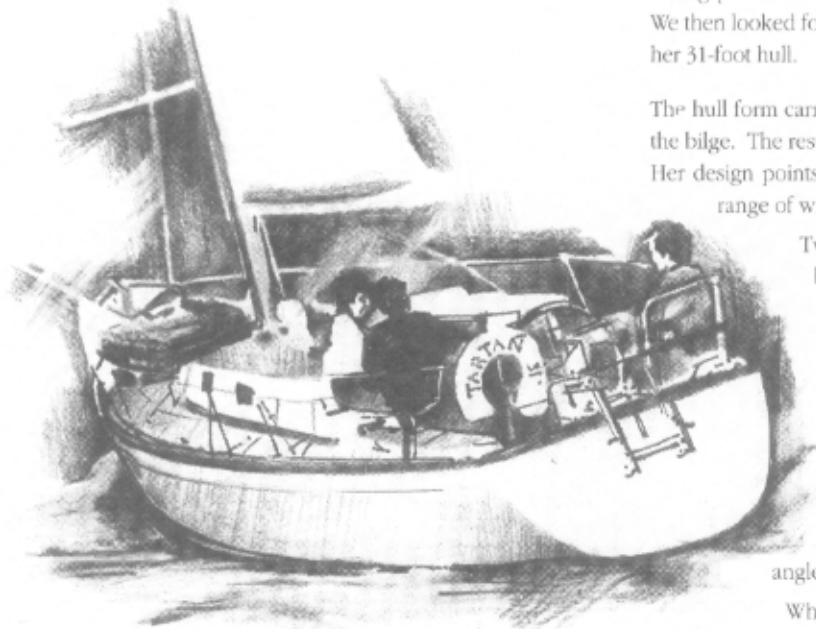
In the main cabin, a varnished drop-leaf table stands on centerline between facing settees, both of which are bunk size. Behind each settee are storage lockers with book shelves.

The U-Shaped galley, for security in a seaway, wraps an area to starboard at the foot of the companionway with a large and well insulated ice box, 2-burner gimballed propane stove with oven, storage trap and deep stainless steel sink.

To port is a large nav station with lockers for instrumentation, equipment and charts. Aft, past the nav station, you'll find access to a 5 ft wide double quarterberth, 7 ft in length.

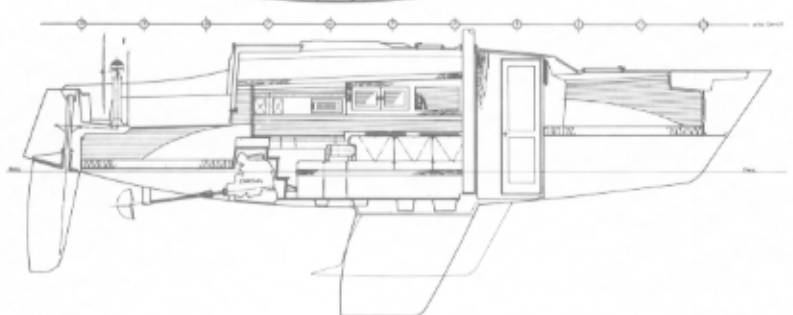
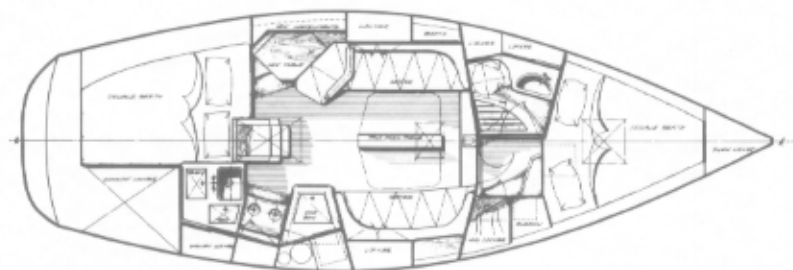
Interior cabinetry and trim is hand-oiled teak lumber and ply or pressure laminates. Ventilation, always an important Tartan consideration, is provided in nine aluminum-frame opening portlights, three overhead hatches and two dorades.

Craftsmanship and construction techniques adhere to Tartan's proven high standard. Value-retention based on these virtues is one of this company's hallmarks. As designer, it is reassuring to know that **Tartan 31 Piper** is built in Tartan's technically sophisticated facilities under the company's diligent quality-control supervision.



VITAL STATISTICS

| | |
|-------------------------|-------------|
| Sail Area | 506 sq. ft. |
| I - Foretriangle Height | 42'6" |
| J - Foretriangle Base | 12'6" |
| P - Mainsail Luff | 37'0" |
| E - Mainsail Foot | 13'0" |
| Bilge Clearance | 48'6" |
| LOA | 31'4" |
| LWL | 26'0" |
| Beam | 10'11" |
| Draft: | |
| Deep Fin | 6'0" |
| Beaver Tail | 4'4" |
| Ballast | 3,600lbs. |
| Displacement | 9,030 lbs. |
| Diesel Power | 18 hp |
| Berths | 6 |



SPECIFICATION

HULL

- NPG/ISO gelcoated hull, hand laminated with alternating layers of strand mat and uni-directional "E" glass in polyester resin. Gelcoat back-up layer is laminated using vinyl ester anti-corrosive resin for blister resistance.

DECK

- White, off white or sand gelcoat with a patterned non-skid deck consisting of a balsa cored uni-directional "E" glass laminate. Hand laid with polyester resin.

KEEL/BALLAST

- 3600 lb. high lift elliptical lead fin or heavier tall bulb keel. Attached to hull with stainless steel bolts.

RUDDER

- Elliptical foam cored rudder with uni-directional FRP skins. 3in. O.D. type 304 stainless steel rudder post. Pedestal steering with 50in. destroyer type wheel. Emergency tiller supplied.

INTERIOR

- Off white structural hull liner bonded to hull. Bulkheads and risers are teak faced or pressure laminate faced plywood. Cabinetry and trim of hand rubbed teak. Cabin sole is varnished teak and holly. Overhead is teak battened FRP with strategically placed access panels. A selection of designer fabrics is available for interior upholstery.

VENTILATION

- Sliding companionway hatch.
- (2) domes.
- 12" x 17" Lewmar mid-cabin hatch.
- 19" x 19" Lewmar foredeck hatch.
- (6) 5" x 15" Lewmar opening ports (housesides).
- (2) 4" x 14" Lewmar opening ports (housesides).
- (1) 5" x 15" Lewmar opening port (cockpit).

ENGINE/ELECTRICAL

- 18 hp water cooled diesel with pedestal mount controls and deluxe engine instrument panel.
- 19 gallon fuel capacity (approximately), with Racor fuel filter.
- 15in. fixed propeller on bronze shaft.
- (2) 105 amp hour batteries with battery selector switch.
- Interior cabin dome lights and berth directional lights.
- Courtesy cabin sole night lighting.
- Navigation lights.
- 12 Volt DC metered panel.
- 110 Volt AC shorepower with distribution panel.
- Shore power cord.
- UL approved stranded, tinned copper ABYC color coded wiring throughout.

GALLEY/HEAD

- Gimballed propane stove with oven.
- Stainless steel galley sink - 9" deep.
- Molded top load icebox. 4" foam insulated with drain to sump.
- Built-in trash bin.
- Hot and cold pressure water.
- Freshwater foot pump.
- Extensive lockers, shelves and drawers. Teak louvered doors and teak hardwood locker faces.
- 30 gallon fresh water tank (approximately).
- Marine head with "Y" valve and 24 gallon holding tank with deck pumpout.
- Shower fixture in head with drain to sump.
- Molded FRP sink.
- Ample locker storage in teak louvered door cabinets.

ACCOMMODATIONS/ STORAGE

- Forecabin with locker, hanging locker, and bureau.
- Furniture grade bank cushions.
- Main cabin with teak hardwood cabinet port and starboard.
- Main cabin seaters fitted with 6in. thick cushions.
- Large storage area outboard of main cabin seatbacks.
- Furniture quality, varnished centerline table.
- Pelt sitting navigation table.
- Navigation locker with storage and room for electronic installations.
- All double quarterberth with furniture quality cushion.
- Dry storage bins below quarterberth.
- Hinged storage in engine box top.
- Cockpit seat locker to starboard.
- Helmseat storage lockers port and starboard.

SPAR/RIGGING

Mast:

- Polyurethane finished double spreader swept tapered spar.
- 1 x 19 stainless steel standing rigging with turnbuckles.
- Steaming/foredeck illumination light.
- Masthead anchor light.
- Mast wiring conduit.

Boom:

- Polyurethane finished boom.
- Single line slab reefing—one line reefs both luff and leech led aft to cockpit. 2-points.
- Internal 4:1 overhaul.
- (3) sheave outboard boom end.
- (3) sheave inboard endcap.
- 2-part boom topping lift.

DECK HARDWARE

- (2) Harken 42.2 STC (self-tailing) primary winches.
- (1) Harken 16.2C halyard aft led winch.
- (1) Harken 16.2C (self-tailing) mainsheet winch.
- Double stainless steel bow and stern rails.
- Double lifelines.
- Swim ladder.
- Boarding gates port and starboard.
- Custom stainless steel stemplate with tack fitting and anchor roller.
- Molded foredeck anchor locker with overboard drain.
- Teak toe rails (aluminum rails optional).
- S.S. fore and aft mooring chocks with cleats.
- S.S. mid-mooring chocks with cleats.
- 1/2in teak taffrail.
- Outboard track 1-1/4in. with (2) cans and (2) snatch blocks.
- Inboard genoa track 1-1/4in. with (2) Lewmar wide sheave cars.
- (2) Harken winch handles.
- (3) Spinlock Express rope clutches for aft leads.
- Deck turning blocks for halyards and aft leads to cockpit.
- 4-part mainsheet system led to winch.
- Traveler with port and starboard adjustment.
- Lewmar deck hatches and opening ports.
- Cast aluminum mast collar with stainless aft lead plates.
- On-deck drains to waterline exit.
- Housetop teak handrails.
- Manual deck mount bilge pump.
- Ritchie SP-5 binocular compass.

RUNNING RIGGING

- (1) wire/rope genoa halyard.
- (1) low stretch main halyard.
- (2) Dacron genoa sheets.
- (1) Dacron mainsheet.
- (2) traveler taglines.
- (2) reef lines.

OPTIONS

- Colored hull.
- Contrasting non-skid color.
- 2nd electric bilge pump.
- 20 amp battery charger.
- Adler Barbour refrigeration.
- Spinner gear.
- 2nd internal genoa halyard led aft.
- Boom vang.
- Steel storage cradle.
- Aft mount traveler.
- Secondary winches.

ADDITIONAL EQUIPMENT

- North fully battened Dacron mainsail.
- North self-tacking Dacron jib or 135% Genoa.
- Mainsail cover.
- Harken lazy jack kit.
- Harken roller furling.
- Autohelm knotmeter.
- Autohelm depthmeter.

TARTAN

320 RIVER STREET, P.O. BOX 308,
GRAND RIVER, OHIO (216) 354-3111
TELEPHONE: (216) 354-3111
FAX: (216) 354-6162

Qualifications, Specifications and prices subject to change without notice including after receipt of customer's order and final delivery.

All prices F.O.B., Grand River, OH