

ALEGRÍA TECH SPECS SUMMARY AND EQUIPMENT LIST

BOAT

Type: Bristol 41.1
Build: 1984
LOA: 12,55 m
Beam: 3,94 m
Draft: 1,36 m
3,05 m with Centreboard down

Cabins: 2
Heads: 2
Sleeps: Max 6
2 x 2 cabins
2 x salon

ENGINE & SUPPLIES

Engine: 50 LE, Betamarine
Fuel: 375 l, 2 tanks
Water: 230 l, 1 tank
Gas: 2 bottles

Stove: 3 burner, gas oven with grill
Fridge: 166 l, Dometic

Wind generator: 1
Solar panel: 2

RIG, SAILS & DECK

Sloop rig: Forestay, backstay
3 sets of shrouds

Sails: 1 Main (fully battened)
2 Genoa (rollreef)
1 Gennaker
1 Staysail

Winches: 2 Genoa, cockpit
4 Mast
1 Main sail, cockpit

Anchor: 2, electrical windlass

COCKPIT

Wheel: 1
Compass: 1
Autopilot: no

DINGHY

Dinghy: SeaGo Light 4 person
Outboard: Selva 4 Hp
Anchor
Dinghy outboard lift

COMMUNICATION

VHF radio: 1 built in, DSC
1 hand held, DSC
GPS/Plotter: iPad
Sat Phone: Iridium

INSTRUMENTS

Echo Sounder: NASA
Log: NASA, Electromagnetic
Wind instrument: NASA, wireless
Compass: NASA Fluxgate
Radar: Furuno

OTHER

Charts: Digital and paper
Flags

Life vests: 4 automatic
4 foam

Flares: electronic, conventional
Lifering x 2

Boat hook x 2
Ropes
Fenders
Fender board

COMFORT

Sprayhood
Bimini
Bimini extensions on three sides
Cockpit cushions
Cockpit table foldable
Drinks holder
Swimming ladder
Deck shower
CD player
Mosquito screens for all portholes and hatches
Fans in both cabins and salon

ALEGRÍA TECH SPECS DETAIL

Hull Measurements

Length over all:	12,55 m	41,16 ft	
Length waterline:	10,16 m	33,33 ft	
Beam:	3,94 m	12,92 ft	Centreboard down
Draft:	1,37 m	4,50 ft	3,05 m 9,3 ft
Air Draft:	17,98 m	59,00 ft	
Displacement:	12,03 t	26.530 lb	
Ballast:	4,76 t	10.500 lb	

Rig Measurements

Mainsail: Height	P	13,72 m	45.00 ft
Foot	E	4,65 m	15,25 ft
Headsail: Height	I	16,15 m	53,00 ft
Foot	J	5,13 m	16,83 ft

Ratios

Ballast ratio:	39,6 %
SA/Displacement:	11 - 18 Depending on sails
Displacement/Length:	320 Heavy
Capsize screening value:	1,73 Below 2.0 considered safe
Comfort ratio:	36,2 Moderate bluewater

Hull Speed: 7,8 knots

Designer: Ted Hood, Dieter Empacher

Builder: Bristol Boatyards, R.I.

RATIO CALCULATIONS

Sail Area/Displacement:

$\frac{\text{Sail Area in (ft}^2\text{)}}{(\text{Displacement}/64)^{2/3}}$

below 12 low, ca. 15 good performance, 18+ high

Displacement/Length:

$\frac{\text{Displacement (lb/2240)}}{(\text{LWL ft}/100)^3}$

90-120 Light, 180-270 moderate, 270-360 Heavy, 360+ Ultraheavy

Capsize Screening Value:

$\frac{\text{Max Beam in (ft)}}{(\text{Displacement}/64)^{-3}}$

Below 2.0 is considered safe

Comfort ratio:

$\frac{\text{Displacement (lb)}}{(\text{.65} \times (\text{.7 LWL} + \text{.3 LOA}) \times \text{Beam}^{1.33})}$

20 to 30 coastal cruiser; 30 to 40 moderate bluewater cruising boat; 50 to 60 heavy bluewater boat

