

Pop Alu 28

Dimensions and Coefficients

Principal Dimensions		
Construction	Aluminum	
L.O.A	8.50 m	27' 11"
L.W.L	7.90 m	25' 11"
Beam	3.07 m	10' 1"
Draught	1.50 m	4' 11"
Displacement	3495 kg	7698 lb
Ballast	1054 kg	2321 lb
Fresh water tanks	365 l	96 gl
Standing Headroom	1.85 m	6' 1"
Propulsion	8 HP (electric motor)	
Sail Area (main + fore triangle)	37.49 m ²	403 sq ft
Wetted Surface	15.81 m ²	170 sq ft
Length/displ ratio – displ/length ratio	5.21	197
Prismatic coefficient	0.57	
Sail Area/Wetted surface ratio	2.27	
Immersion	137 kg/cm	766 lb/in
Sail Area/Displacement ratio	16.5	
Block coefficient	0.44	
GM	1.1 m	3' 7"
STIX (Monohull Stability Index)	32.7 (Category A)	

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STANDING RIGGING

STAY	QUANT.	TYPE	LENGTH BETWEEN PINS *	UPPER TERMINAL **	LOWER TERMINAL
FORE STAY	1	INOX 1/19 -6MM	11.844 m	SWAGELESS EYE	SWAGELESS STUD+TURNBUCKLE
JIB FORE STAY	1	INOX 1/19 -7MM	9.023 m	SWAGELESS EYE	SWAGELESS STUD+TURNBUCKLE
TOP SHROUDS	2	INOX 1/19 -6MM	11.178 m	SWAGELESS EYE	SWAGELESS STUD+TURNBUCKLE
INTERMEDIATE SHROUDS	2	INOX 1/19 -5MM	8.616 m	SWAGELESS EYE	SWAGELESS STUD+TURNBUCKLE
LOWER SHROUDS	2	INOX 1/19 -6MM	4.569 m	SWAGELESS EYE	SWAGELESS STUD+TURNBUCKLE
BOB STAY	1	INOX 1/19 -6MM	1.173 m	SWAGELESS STUD+TURNBUCKLE	SWAGELESS FORK

NOTES WHEN FITTING A ROLLER FURLING SYSTEM FOR THE HEAD SAILS
PLEASE CHECK DIMENSIONS ON THE BOAT BEFORE ORDERING SAILS

* LENGTH BETWEEN PINS GIVEN AS GUIDE FOR QUOTES AND PURCHASING
THE MATERIALS. CHECK ON THE COMPLETED BOAT BEFORE CUTTING WIRES.
ACTUAL LENGTH CAN VARY DEPENDING ON MAST CONSTRUCTION AND FITTINGS.

** TERMINAL TYPE CAN VARY DEPENDING ON MAST CONSTRUCTION

MAST

MOMENTS OF INERTIA :

$$I_{xx} = 169 \text{ cm}^4$$

$$I_{yy} = 428 \text{ cm}^4$$

Suggested Mast Sections

Selden C175

Sparcraft S260

TOTAL LENGTH: 10.90 m

BOOM

MOMENTS OF INERTIA :

$$I_{xx} = 42.5 \text{ cm}^4$$

$$I_{yy} = 155 \text{ cm}^4$$

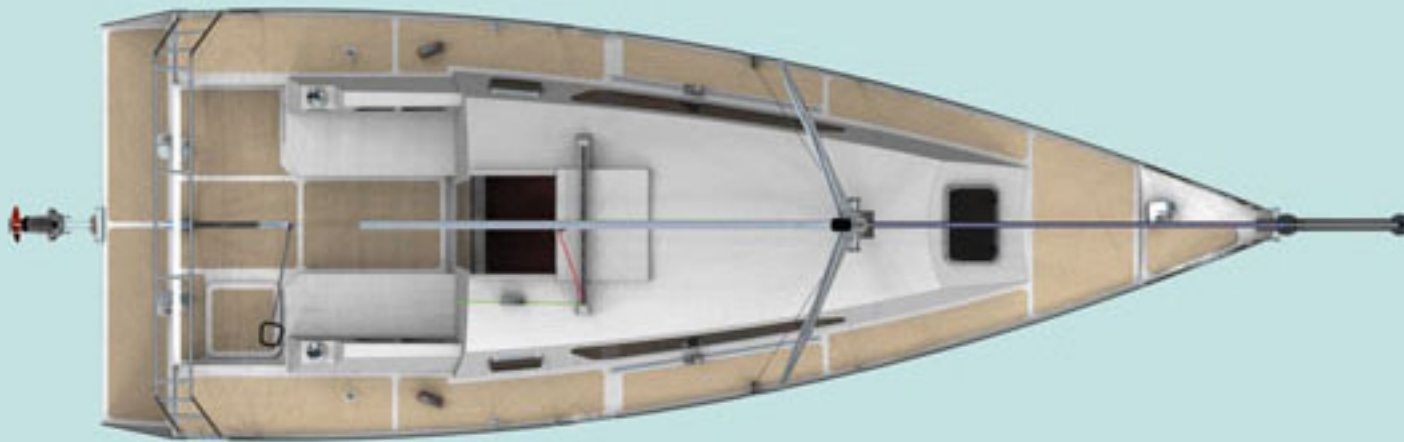
SM_y 24.8 cm³, SM_x 13.7 cm³

Suggested Sections:

Selden B120

Sparcraft F125

TOTAL LENGTH: 3.45 m



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