

APH ToD: **630.0** CDL: **7.142**

APH ToT: **0.9523** CertNo: **00146**

BOAT

Class **COMFORTINA 32**
Designer **ALBINSON**
Builder **COMFORT BATAR**
Age date **05/1986**
Series date **05/1986**
Offset file **G1018.off**
Data file

HULL

Length Overall **9.435 m**
Maximum Beam **3.304 m**
Draft **1.750 m**
Displacement **4,600 kg**
DLR **10.7445**
IMS Division **Cruiser/Racer**
Dynamic Allowance **0.520%**
Age Allowance **0.487%**

PROPELLER

Installation **Strut**
Type **Folding 2 blades**
Diameter **0.383m**

CREW

Maximum weight **460 kg (default)**
Minimum weight **330 kg *when applied**
Non Manual Power **No**
Crew Arm Extension

SAIL AREAS (m²)

	Measured	Rated
Mainsail	26.58	26.80
Headsail Luffed	26.18	26.18
Headsail Flying		
Symmetric	77.59	77.59
Asymmetric		

STORM SAIL AREAS (m²)

Trysail **8.50**
Storm Jib **6.45**
Heavy Weather Jib **17.40**

SAIL LIMITS

Headsails **1 * Woven polyester sails**
Spinnakers **4**

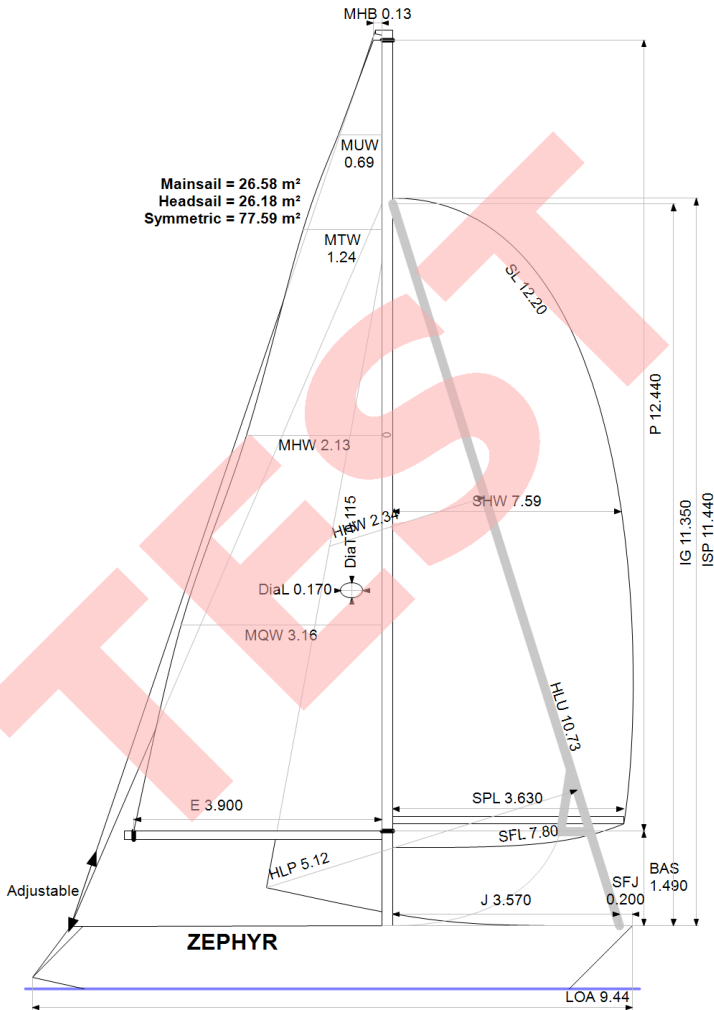
STABILITY

Righting Moment **N/A**
Stability Index **N/A**

COMMENTS

Builder's displacement.

The owner and any other person in charge is responsible that boat is complying with her certificate in accordance with RRS 78.1 and ORC Rule 304.



Rated boat velocities in knots

Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt	24 kt
Beat Angles	43.2°	41.2°	40.0°	39.1°	38.9°	38.7°	39.0°	40.0°
Beat VMG	3.08	3.68	4.10	4.36	4.48	4.54	4.57	4.52
52°	4.67	5.45	5.94	6.19	6.33	6.41	6.47	6.47
60°	4.91	5.68	6.11	6.35	6.49	6.59	6.67	6.69
75°	5.05	5.83	6.25	6.50	6.67	6.79	6.97	7.05
90°	5.12	5.98	6.41	6.63	6.75	6.90	7.15	7.35
110°	5.21	6.11	6.56	6.85	7.07	7.27	7.53	7.74
120°	5.04	6.00	6.51	6.84	7.12	7.36	7.83	8.12
135°	4.50	5.52	6.25	6.64	6.96	7.25	7.85	8.53
150°	3.84	4.83	5.70	6.31	6.66	6.95	7.51	8.15
Run VMG	3.32	4.18	4.95	5.63	6.16	6.53	7.09	7.62
Gybe Angles	146.4°	151.4°	152.1°	162.2°	175.9°	178.6°	179.0°	178.6°

Time Allowances in secs/NM								
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt	24 kt
Beat VMG	1170.2	978.6	878.1	825.2	803.1	792.4	787.8	796.7
52°	770.4	660.3	606.5	581.2	568.4	561.5	556.2	556.1
60°	733.6	634.4	589.4	566.9	554.6	546.6	539.7	538.0
75°	713.0	617.9	576.3	554.0	539.7	529.9	516.2	511.0
90°	702.8	601.9	561.5	542.8	533.1	521.6	503.4	490.1
110°	691.3	589.5	548.8	525.5	508.9	495.0	478.4	465.2
120°	714.0	599.8	553.3	526.5	505.9	489.0	459.6	443.5
135°	799.5	651.7	575.7	541.9	517.6	496.4	458.4	422.3
150°	938.0	745.9	631.4	570.8	540.6	517.8	479.2	441.7
Run VMG	1083.2	860.3	727.8	639.2	584.9	551.2	507.8	472.4
Selected Courses								
Windward / Leeward	1126.7	919.4	802.9	732.2	694.0	671.8	647.8	634.5
All purpose	870.1	724.1	649.3	608.1	585.9	570.8	551.1	538.2

Single Number Scoring Options		
Course	Time On Distance	Time On Time
Windward / Leeward	766.9	0.7824
All purpose	630.0	0.9523

Custom scoring options for Netherlands

Scoring Option	Time On Time
Triple Number Coastal/Long Distance Low	0.7527
Triple Number Coastal/Long Distance Medium	0.9585
Triple Number Coastal/Long Distance High	1.0579
Triple Number Windward/Leeward Low	0.5865
Triple Number Windward/Leeward Medium	0.7876
Triple Number Windward/Leeward High	0.8978
Coastal/Long Distance	0.8772
Predominantly Upwind	0.8765
Predominantly Downwind	0.9488

For information

General Purpose Handicap (GPH)	704.2
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Data in meters/kilograms (Metric)

HULL AND APPENDAGES (Lightship Trim)

Class	COMFORTINA 32	LOA	9.435	VCGD	-0.005
Measurement	24/06/2009	Max. Beam	3.304	VCGM	0.036
HIN		Draft	1.750	RM Rated (kg-m)	70.5
Plan review		Displacement	4,600	Limit of positive stability(°)	N/A
Hull construction	Solid	Wetted area	19.20	Stability Index	N/A
Carbon Rudder	No	IMS L	7.736	Default crew weight	460
Light stanchions	No	LSM0	7.536	Declared crew weight	N/A
Trim tab	No	Acc. length	9.435		
		Sink (kg/mm)	13.84		

PROPELLER

Propeller Type	Folding 2 blades				
Installation	Strut	PRD	0.383	EDL	ST3
Twin screw	No	PBW		ST1	ST4
Hydro generator	No	PIPA	0.0006	ST2	ST5

RIG

Forestay tension	Aft	P	12.440	E	3.900
Inner stay	None Fitted	IG	11.350	J	3.570
Mast material	Aluminum	ISP	11.440	BAS	1.490
Single headsail furler	Yes	MDT1	0.115	FSD	Foil
Mainsail furler	No	MDL1	0.170	SFJ	0.200
Articulated bowsprit	No	MDT2		SPL	3.630
Non-circular rigging	No	MDL2		WPL	
Fiber rigging	No	TL	No Taper	TPS	
Adjustable mast foot	No	MW		BD	
Runners/Checkstays	1	GO		MWT	
Spreaders	1			MCG	
Rotating mast	No				

FLOTATION AND STABILITY

Calculation method	RM estimated
Flotation Date	01/01/2013



MAINSAIL

<i>Id</i>	<i>MHB</i>	<i>MUW</i>	<i>MTW</i>	<i>MHW</i>	<i>MQW</i>	<i>Area</i>	<i>Meas.Date</i>	<i>Comment</i>
1	0.13	0.69	1.24	2.13	3.16	26.58	10/05/2017	

HEADSAIL

<i>Id</i>	<i>HHB</i>	<i>HUW</i>	<i>HTW</i>	<i>HHW</i>	<i>HQW</i>	<i>HLP</i>	<i>HLU</i>	<i>Btn</i>	<i>Flying FT</i>	<i>Area</i>	<i>Meas.Date</i>	<i>Comment</i>
2	0.04	0.55	1.11	2.34	3.69	5.12	10.73	No	No	26.18	14/03/2010	

SYMMETRIC SPINNAKER

<i>Id</i>	<i>SLU</i>	<i>SLE</i>	<i>SL</i>	<i>SHW</i>	<i>SFL</i>	<i>Area</i>	<i>Meas.Date</i>	<i>Comment</i>
new	12.20	12.20	12.20	7.59	7.80	77.59		

CRUISER/RACER REQUIREMENTS*

Accommodation length	9.4 m	Table area	0.44 m²	Headroom	1.66 m
Minimum number of berths	4	Personal gear stowage	0.16 m³	Fresh water capacity	68 l
Minimum number of seats in cockpit	4	Food stowage	0.24 m³	Fuel capacity	38 l

* This list refers to the calculated requirements. See IMS Appendix 1 for the complete list of requirements.