

APH ToD: **571.4** CDL: **9.542**  
APH ToT: **1.0500** CertNo: **141540**

**BOAT**  
Class **DUF0UR 385 GL MOD**  
Designer **FELCI**  
Builder **DUF0UR**  
Age date **01/2004**  
Series date **05/2001**  
Offset file **CLG6494m.off**  
Data file **GER6494**

**HULL**  
Length Overall **11.639 m**  
Maximum Beam **3.944 m**  
Draft **2.082 m**  
Displacement **8,035 kg**  
DLR **6.6358**  
IMS Division **Cruiser/Racer**  
Dynamic Allowance **0.400%**  
Age Allowance **0.487%**

**PROPELLER**  
Installation **Strut**  
Type **Folding 3 blades**  
Diameter **0.470m**

**CREW**  
Maximum weight **540 kg (declared)**  
Minimum weight **410 kg \* when applied**  
Non Manual Power **No**  
Crew Arm Extension

**SAIL AREAS (m<sup>2</sup>)**

	Measured	Rated
Mainsail	<b>30.51</b>	<b>30.76</b>
Headsail Luffed	<b>41.96</b>	<b>41.96</b>
Headsail Flying	<b>58.24</b>	<b>58.24</b>
Symmetric		
Asymmetric	<b>81.05</b>	<b>81.05</b>

(All asymmetric spinnakers with SHW/SFL > 85%)

**STORM SAIL AREAS (m<sup>2</sup>)**

Trysail	<b>9.91</b>
Storm Jib	<b>9.77</b>
Heavy Weather Jib	<b>26.36</b>

**SAIL LIMITS**

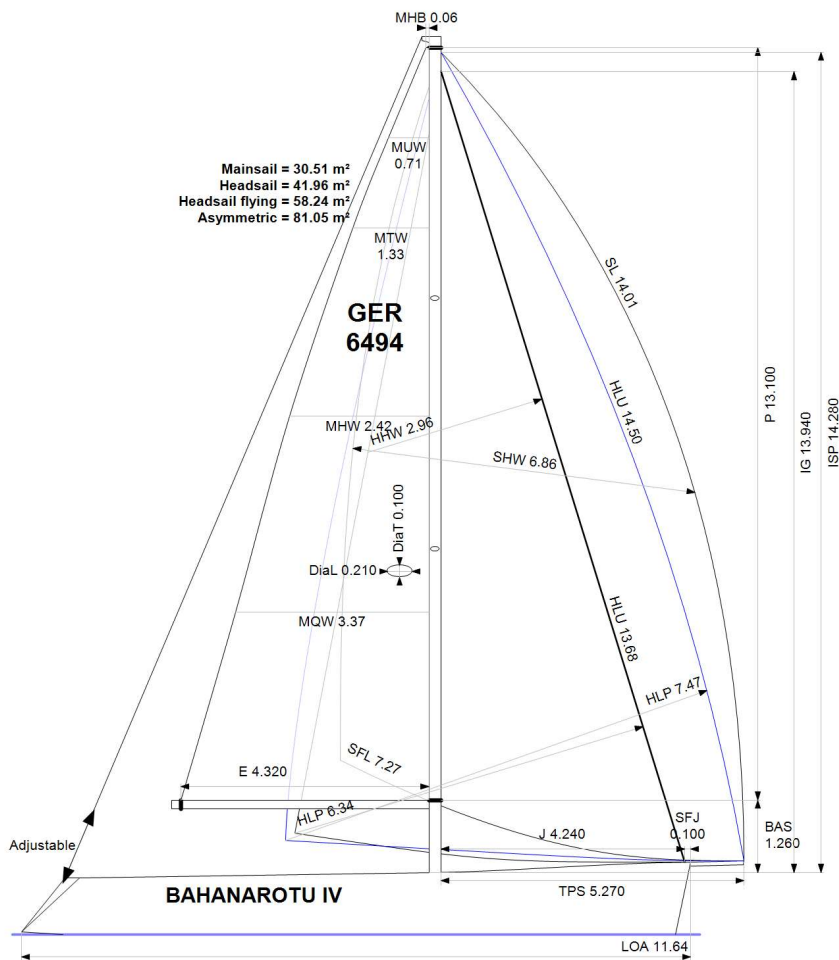
Headsails	<b>5</b>
Spinnakers	<b>4</b>

**STABILITY**

Righting Moment	<b>N/A</b>
Stability Index	<b>N/A</b>

**COMMENTS**  
MODIFIED HULL NEW ENGINE 2022 (+30kg)

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	44.8°	42.8°	41.4°	40.1°	38.6°	37.8°	37.8°	38.3°
Beat VMG	3.14	3.89	4.46	4.92	5.26	5.46	5.59	5.57
52°	4.90	5.95	6.70	7.18	7.44	7.61	7.78	7.80
60°	5.29	6.31	7.00	7.41	7.66	7.81	8.00	8.06
75°	5.62	6.63	7.26	7.63	7.89	8.11	8.39	8.51
90°	5.60	6.64	7.31	7.71	8.01	8.28	8.74	9.06
110°	5.17	6.37	7.22	7.71	8.09	8.44	9.09	9.61
120°	5.00	6.19	7.08	7.63	8.02	8.39	9.12	9.96
135°	4.48	5.67	6.62	7.31	7.75	8.11	8.83	9.63
150°	3.80	4.91	5.83	6.57	7.08	7.45	8.01	8.55
Run VMG	3.29	4.25	5.05	5.69	6.13	6.48	7.40	7.97
Gybe Angles	144.7°	146.5°	146.8°	146.9°	147.8°	168.5°	175.4°	176.8°



Club  
Certificate  
2024

Boat  
**BAHANAROTU IV**  
GER 6494

Deutscher Segler Verband e.V.  
Soling 16  
24159 Kiel Schilksee  
technik@dsv.org



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	1148.2	926.5	807.8	732.1	684.5	659.7	644.2	646.8
52°	735.4	605.2	537.2	501.7	483.9	473.3	463.0	461.3
60°	680.8	570.1	514.0	485.7	470.1	461.0	450.2	446.7
75°	640.3	542.8	496.0	472.0	456.0	443.7	429.3	423.0
90°	642.8	541.9	492.4	466.9	449.5	434.9	412.1	397.3
110°	696.1	564.9	498.9	466.6	445.1	426.6	396.0	374.5
120°	720.7	581.8	508.6	471.9	448.9	429.3	394.7	361.5
135°	803.2	635.2	543.7	492.7	464.5	443.7	407.6	373.9
150°	947.5	733.7	617.9	548.1	508.2	483.1	449.3	421.2
Run VMG	1094.1	847.2	713.5	632.8	586.8	555.7	486.5	451.6
Selected Courses								
Windward / Leeward	1121.1	886.8	760.6	682.5	635.6	607.7	565.4	549.2
All purpose	851.0	685.4	597.9	547.2	516.9	496.9	470.2	455.0

Single Number Scoring Options		
Course	Time On Distance	Time On Time
Windward / Leeward	717.8	0.8359
All purpose	571.4	1.0500

### Custom scoring options for Germany

Scoring Option	Time On Time
Triple Number Coastal/Long Distance Low	0.7811
Triple Number Coastal/Long Distance Medium	1.0562
Triple Number Coastal/Long Distance High	1.2198
Triple Number Windward/Leeward Low	0.5976
Triple Number Windward/Leeward Medium	0.8405
Triple Number Windward/Leeward High	1.0020

Performance Curve	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt	24 kt
Coastal/Long Distance	1118.4	830.8	679.9	587.1	537.7	503.3	451.7	433.5