

APH: **620.3** CDL: **7.530**

GPH: **696.5** CertNo:

**BOAT**

Class **Hallberg Rassy 34**  
Designer **Frers**  
Builder **Hallberg Rassy**  
Age date **01/1992**  
Series date **01/1990**  
Offset file **clhr34.off**  
Data file **NED9172**

**HULL**

Length Overall **10.280 m**  
Maximum Beam **3.450 m**  
Draft **1.886 m**  
Displacement **6,250 kg**  
DLR **10.5708**  
IMS Division **Cruiser/Racer**  
Dynamic Allowance **0.630%**  
Age Allowance **0.487%**

**PROPELLER**

Installation **Strut**  
Type **Folding 3 blades**  
Diameter **0.400m**

**CREW**

Maximum weight **536 kg**  
Minimum weight **402 kg** \* when applied  
Non Manual Power **No**  
Crew Arm Extension

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

	Measured	Rated
Mainsail	<b>28.40</b>	<b>28.75</b>
Headsail Luffed	<b>32.82</b>	<b>32.82</b>
Headsail Flying		
Symmetric	<b>82.73</b>	<b>82.73</b>
Asymmetric	<b>78.34</b>	<b>78.34</b>

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

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

Trysail **8.75**  
Storm Jib **8.90**  
Heavy Weather Jib **24.03**

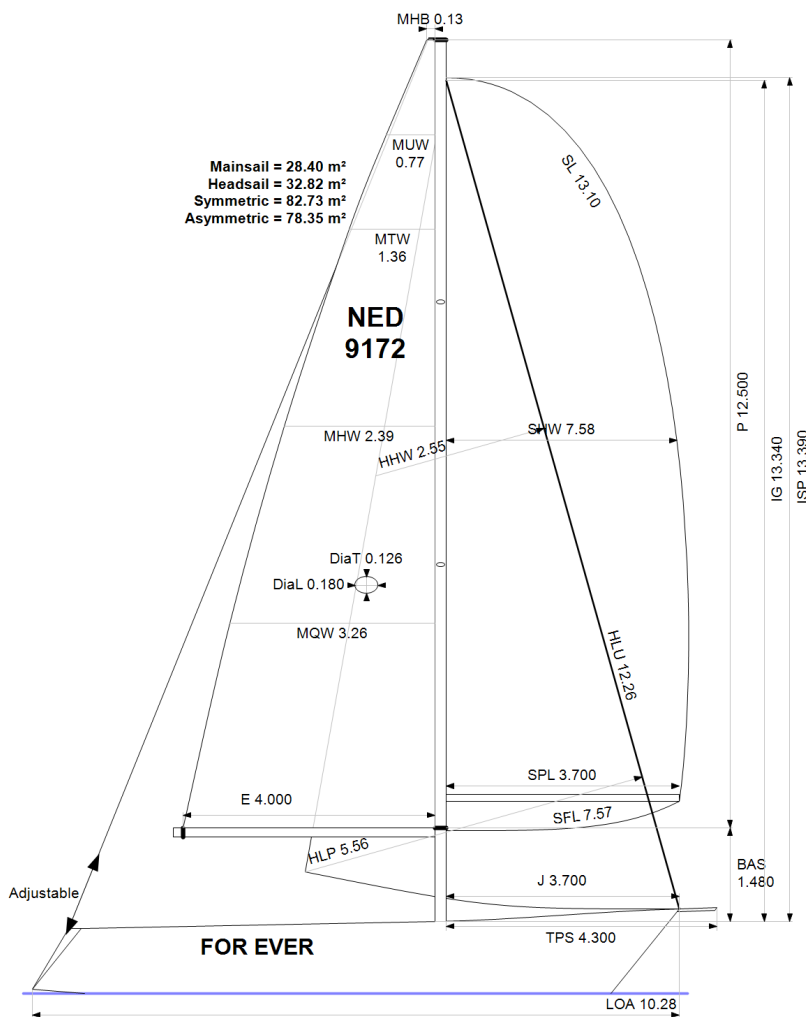
**SAIL LIMITS**

Headsails **5** \* Woven polyester sails  
Spinnakers **4** \* Asymmetric SHALL NOT be tacked on the pole

**STABILITY**

Righting Moment **108.5 kg·m**  
Stability Index **N/A**

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
Beat Angles	43.2°	41.4°	41.7°	40.8°	40.0°	39.4°	39.6°
Beat VMG	3.01	3.59	4.03	4.40	4.62	4.71	4.73
52°	4.60	5.39	6.02	6.38	6.57	6.67	6.72
60°	4.86	5.68	6.25	6.55	6.73	6.85	6.92
75°	5.04	5.90	6.42	6.69	6.88	7.04	7.27
90°	5.08	6.07	6.63	6.91	7.07	7.17	7.49
110°	5.13	6.16	6.69	7.01	7.31	7.60	7.93
120°	4.99	6.02	6.62	6.96	7.27	7.59	8.14
135°	4.56	5.54	6.34	6.76	7.06	7.38	8.00
150°	3.92	4.88	5.73	6.41	6.78	7.06	7.65
Run VMG	3.40	4.23	4.97	5.67	6.24	6.65	7.20
Gybe Angles	146.6°	152.0°	152.0°	159.2°	173.6°	179.0°	179.0°

Time Allowances in secs/NM							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1195.8	1002.3	892.6	818.1	779.8	765.1	761.4
52°	782.0	667.8	597.9	564.0	547.6	539.7	535.7
60°	740.6	634.3	576.1	549.7	535.1	525.9	519.9
75°	713.8	610.2	561.2	538.4	523.3	511.3	495.4
90°	709.3	593.4	543.3	520.8	509.3	501.8	480.4
110°	701.3	584.2	537.8	513.4	492.5	474.0	454.1
120°	721.8	597.9	543.5	517.4	495.5	474.4	442.2
135°	788.7	650.3	567.5	532.5	509.7	488.0	450.0
150°	917.3	738.0	627.9	561.6	531.0	509.9	470.3
Run VMG	1059.3	850.6	723.7	634.8	577.0	541.4	500.3
Selected Courses							
Windward / Leeward	1127.5	926.5	808.1	726.4	678.4	653.2	630.8
All purpose	873.5	725.9	645.0	597.0	569.6	553.1	532.9

Single Number Scoring Options		
Course	Time On Distance	Time On Time
Windward / Leeward	761.1	0.7883
All purpose	620.3	0.9673

### Custom scoring options for Netherlands

Single Number	Time On Time
Triple Number Coastal/Long Distance Low	0.7503
Triple Number Coastal/Long Distance Medium	0.9726
Triple Number Coastal/Long Distance High	1.0916
Triple Number Windward/Leeward Low	0.5842
Triple Number Windward/Leeward Medium	0.7912
Triple Number Windward/Leeward High	0.9215
Coastal/Long Distance	0.8881
Predominantly Upwind	0.8871
Predominantly Downwind	0.9610

Data in meters/kilograms (Metric)

**HULL AND APPENDAGES (Lightship Trim)**

Class	<b>Hallberg Rassy 34</b>	LOA	<b>10.280</b>	VCGD	<b>0.099</b>
Measurement	<b>14/04/2021</b>	Max. Beam	<b>3.450</b>	VCGM	<b>0.068</b>
HIN		Draft	<b>1.886</b>	RM Measured (kg·m)	<b>108.5</b>
Plan review		Displacement	<b>6,250</b>	RM Default (kg·m)	<b>108.5</b>
Hull construction	<b>Solid</b>	Wetted area	<b>24.14</b>	Limit of positive stability(°)	<b>N/A</b>
Aramid Hull Core	<b>No</b>	IMS L	<b>8.395</b>	Stability Index	<b>N/A</b>
Carbon Rudder	<b>No</b>	LSM0	<b>8.392</b>		
Light stanchions	<b>No</b>	Acc. length	<b>10.280</b>		
Trim tab	<b>No</b>	Sink (kg/mm)	<b>17.15</b>		

**PROPELLER**

Propeller Type	<b>Folding 3 blades</b>			
Installation	<b>Strut</b>	PRD	<b>0.400</b>	EDL ST3
Twin screw	<b>No</b>	PBW		ST1 ST4
Hydro generator	<b>No</b>	PIPA	<b>0.0006</b>	ST2 ST5

**RIG**

Forestay tension	<b>Aft</b>	P	<b>12.500</b>	E	<b>4.000</b>
Inner stay	<b>None Fitted</b>	IG	<b>13.340</b>	J	<b>3.700</b>
Carbon mast	<b>No</b>	ISP	<b>13.390</b>	BAS	<b>1.480</b>
Headsail furler	<b>No</b>	MDT1	<b>0.126</b>	FSD	<b>Foil</b>
Mainsail furler	<b>No</b>	MDL1	<b>0.180</b>	SFJ	
Articulated bowsprit	<b>No</b>	MDT2		SPL	<b>3.700</b>
Non-circular rigging	<b>No</b>	MDL2		WPL	
Fiber rigging	<b>No</b>	TL	<b>No Taper</b>	TPS	<b>4.300</b>
Runners/Checkstays	<b>0</b>	MW		BD	
Spreaders	<b>2</b>	GO		MWT	
				MCG	

**FLOTATION AND STABILITY**

Calculation method	<b>VCG estimated</b>	SFFP	<b>0.980</b>	SAFP	<b>9.501</b>
Flotation Date	<b>14/04/2021</b>	FFM	<b>1.298</b>	FAM	<b>0.946</b>
Measurer		FF	<b>1.310</b>	FA	<b>0.954</b>
Comment		LCFcl	<b>5.684</b>	LCFsh	<b>5.932</b>
		SG	<b>1.0000</b>	HBI	<b>1.147</b>

**INVENTORY**

TANKS	<i>Id</i>	<i>Description</i>	<i>Sp.Wght</i>	<i>Capacity</i>	<i>Condition</i>	<i>LCG</i>	<i>VCG</i>
			<i>Total deductible</i>				
OTHER ITEMS	<i>Id</i>	<i>Kind</i>	<i>Description</i>		<i>Weight</i>	<i>LCG</i>	<i>VCG</i>
	1	Engine	Volvo 2030				
	1	Deck Gear	Landvasten		6	3.70	
				<i>Total deductible</i>	<b>6</b>	<b>3.70</b>	

#### 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>Maker</i>	<i>Material</i>	<i>Comment</i>
ORC	0.13	0.77	1.36	2.39	3.26	28.40		Hagoort	Dacron	

#### 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</i>	<i>FT</i>	<i>Area</i>	<i>Meas.Date</i>	<i>Maker</i>	<i>Material</i>	<i>Comment</i>
ORC	0.05	0.62	1.24	2.55	4.08	5.56	12.26	No	No		32.82		Hagoort	Dacron	
2	0.07	0.41	0.85	1.79	2.86	4.03	12.30	Yes	No		23.30		Hagoort	Dacron	

#### 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>Maker</i>	<i>Material</i>	<i>Comment</i>
ORC	13.10	13.10	13.10	7.58	7.57	82.73	07/10/2005		Nylon	

#### ASYMMETRIC SPINNAKER

<i>Id</i>	<i>SLU</i>	<i>SLE</i>	<i>SL</i>	<i>SHW</i>	<i>SFL</i>	<i>Ratio</i>	<i>Area</i>	<i>Meas.Date</i>	<i>Maker</i>	<i>Material</i>	<i>Comment</i>
i	13.74	12.55	13.15	7.23	6.84	106%	78.34		Hagoort	Nylon	