

APH: **620.4**

CDL: **7.587**

GPH: **696.1**

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

### HULL

Length Overall **10.280 m**  
Maximum Beam **3.450 m**  
Draft **1.886 m**  
Displacement **6,250 kg**  
DLR **10.7830**  
IMS Division **Cruiser/Racer**  
Dynamic Allowance **0.630%**  
Age Allowance **0.487%**

### PROPELLER

Installation **Strut**  
Type **Folding 3 blades**  
Diameter **0.432m**

### CREW

Maximum weight **531 kg**  
Minimum weight **398 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 **8.72**  
Heavy Weather Jib **23.53**

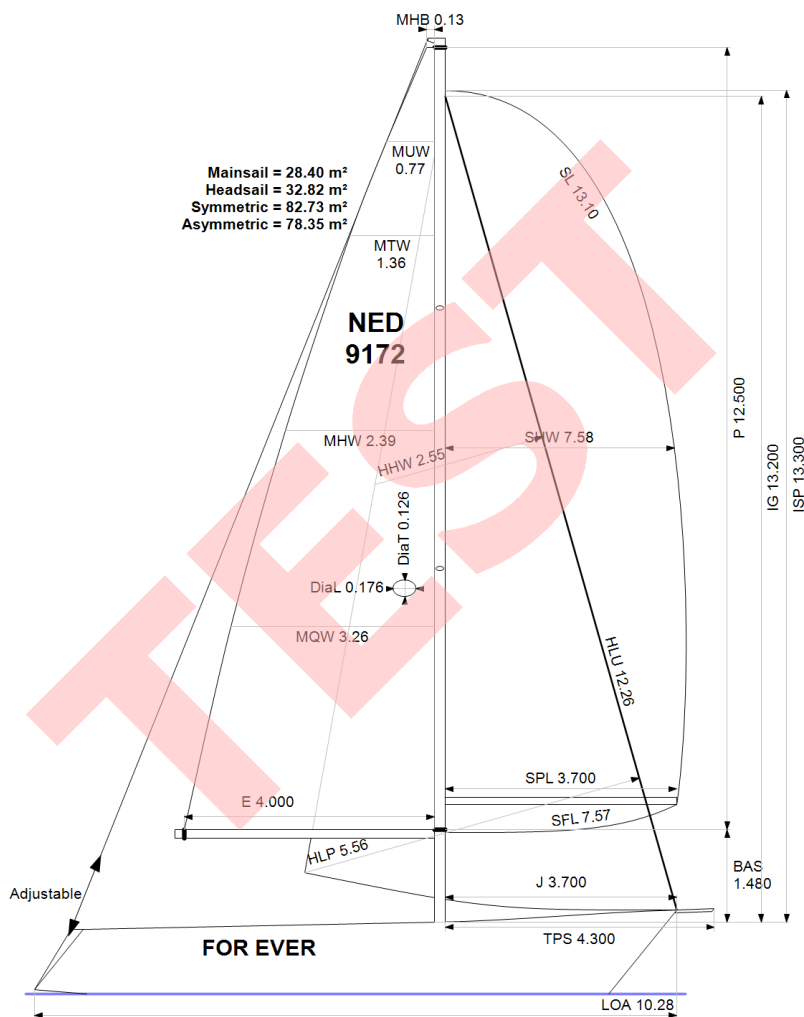
### SAIL LIMITS

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

### STABILITY

Righting Moment **N/A**  
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°  | 41.5°  | 40.2°  | 39.4°  | 39.3°  | 38.8°  | 39.0°  |
| Beat VMG      | 3.07   | 3.69   | 4.14   | 4.44   | 4.60   | 4.67   | 4.71   |
| 52°           | 4.68   | 5.49   | 6.04   | 6.36   | 6.53   | 6.63   | 6.69   |
| 60°           | 4.92   | 5.72   | 6.23   | 6.52   | 6.70   | 6.81   | 6.89   |
| 75°           | 5.07   | 5.89   | 6.38   | 6.67   | 6.87   | 7.02   | 7.20   |
| 90°           | 5.06   | 6.00   | 6.55   | 6.85   | 7.02   | 7.13   | 7.39   |
| 110°          | 5.12   | 6.10   | 6.66   | 6.99   | 7.26   | 7.49   | 7.82   |
| 120°          | 4.96   | 5.97   | 6.58   | 6.95   | 7.25   | 7.52   | 8.00   |
| 135°          | 4.51   | 5.52   | 6.29   | 6.74   | 7.06   | 7.35   | 7.90   |
| 150°          | 3.86   | 4.85   | 5.71   | 6.36   | 6.76   | 7.06   | 7.60   |
| Run VMG       | 3.34   | 4.20   | 4.96   | 5.63   | 6.19   | 6.62   | 7.19   |
| Gybe Angles   | 146.0° | 151.4° | 153.2° | 160.4° | 173.6° | 178.1° | 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                   | 1173.4 | 975.2 | 870.3 | 811.1 | 783.1 | 770.3 | 764.8 |
| 52°                        | 769.1  | 655.7 | 596.5 | 566.5 | 551.0 | 543.4 | 538.0 |
| 60°                        | 731.3  | 628.9 | 578.1 | 552.2 | 537.6 | 528.9 | 522.1 |
| 75°                        | 710.3  | 611.5 | 564.2 | 539.9 | 524.4 | 513.1 | 499.8 |
| 90°                        | 711.7  | 599.8 | 549.2 | 525.4 | 512.6 | 505.2 | 487.1 |
| 110°                       | 703.3  | 589.8 | 540.9 | 515.1 | 495.9 | 480.7 | 460.5 |
| 120°                       | 725.1  | 603.0 | 546.9 | 518.2 | 496.9 | 478.9 | 450.0 |
| 135°                       | 797.7  | 652.0 | 572.6 | 534.2 | 509.8 | 489.5 | 455.4 |
| 150°                       | 932.9  | 742.5 | 630.7 | 566.1 | 532.6 | 510.1 | 473.7 |
| Run VMG                    | 1077.2 | 856.5 | 725.8 | 639.3 | 581.4 | 543.9 | 500.6 |
| Selected Courses           |        |       |       |       |       |       |       |
| Windward / Leeward         | 1125.3 | 915.8 | 798.0 | 725.2 | 682.2 | 657.1 | 632.7 |
| All purpose                | 871.7  | 721.5 | 642.3 | 597.7 | 572.2 | 556.5 | 536.9 |

| Single Number Scoring Options |                  |              |
|-------------------------------|------------------|--------------|
| Course                        | Time On Distance | Time On Time |
| Windward / Leeward            | 758.8            | 0.7907       |
| All purpose                   | 620.4            | 0.9671       |

### Custom scoring options for Netherlands

| Scoring Option                             | Time On Time |
|--|--------------|
| Triple Number Coastal/Long Distance Low    | 0.7532       |
| Triple Number Coastal/Long Distance Medium | 0.9732       |
| Triple Number Coastal/Long Distance High   | 1.0849       |
| Triple Number Windward/Leeward Low         | 0.5879       |
| Triple Number Windward/Leeward Medium      | 0.7951       |
| Triple Number Windward/Leeward High        | 0.9171       |
| Coastal/Long Distance                      | 0.8895       |
| Predominantly Upwind                       | 0.8905       |
| Predominantly Downwind                     | 0.9589       |

Data in meters/kilograms (Metric)

**HULL AND APPENDAGES (Lightship Trim)**

|                   |                          |              |               |                                |              |
|-------------------|--------------------------|--------------|---------------|--------------------------------|--------------|
| Class             | <b>Hallberg Rassy 34</b> | LOA          | <b>10.280</b> | VCGD                           | <b>0.102</b> |
| Measurement       | <b>14/04/2021</b>        | Max. Beam    | <b>3.450</b>  | VCGM                           | <b>0.072</b> |
| HIN               |                          | Draft        | <b>1.886</b>  | RM Rated (kg·m)                | <b>108.0</b> |
| Plan review       |                          | Displacement | <b>6,250</b>  | Limit of positive stability(°) | <b>N/A</b>   |
| Hull construction | <b>Solid</b>             | Wetted area  | <b>24.14</b>  | Stability Index                | <b>N/A</b>   |
| Carbon Rudder     | <b>No</b>                | IMS L        | <b>8.395</b>  |                                |              |
| Light stanchions  | <b>No</b>                | LSM0         | <b>8.337</b>  |                                |              |
| Trim tab          | <b>No</b>                | Acc. length  | <b>10.280</b> |                                |              |
|                   |                          | Sink (kg/mm) | <b>17.15</b>  |                                |              |

**PROPELLER**

|                 |                         |      |               |         |
|-----------------|-------------------------|------|---------------|---------|
| Propeller Type  | <b>Folding 3 blades</b> |      |               |         |
| Installation    | <b>Strut</b>            | PRD  | <b>0.432</b>  | EDL ST3 |
| Twin screw      | <b>No</b>               | PBW  |               | ST1 ST4 |
| Hydro generator | <b>No</b>               | PIPA | <b>0.0008</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>13.200</b>   | J   | <b>3.700</b> |
| Carbon mast          | <b>No</b>          | ISP  | <b>13.300</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>0.176</b>    | SFJ | <b>0.000</b> |
| 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 |              |
| Rotating mast        | <b>No</b>          |      |                 | MCG |              |

**FLOTATION AND STABILITY**

|                    |                     |       |               |       |              |
|--------------------|---------------------|-------|---------------|-------|--------------|
| Calculation method | <b>RM 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**

| OTHER ITEMS | Id  | Kind | Description                | Weight   | LCG         | VCG         |
|-------------|-----|------|----------------------------|----------|-------------|-------------|
|             | SaS |      | Deductible Sailor Services | €        | 3.70        | 0.00        |
|             |     |      | <i>Total deductible</i>    | <b>6</b> | <b>3.70</b> | <b>0.00</b> |



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**MAINSAIL**

| <i><b>Id</b></i> | <i><b>MHB</b></i> | <i><b>MUW</b></i> | <i><b>MTW</b></i> | <i><b>MHW</b></i> | <i><b>MQW</b></i> | <i><b>Area</b></i> | <i><b>Meas.Date</b></i> | <i><b>Comment</b></i> |
|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|-------------------------|-----------------------|
| ORC              | 0.13              | 0.77              | 1.36              | 2.39              | 3.26              | 28.40              |                         |                       |

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**HEADSAIL**

| <i><b>Id</b></i> | <i><b>HMB</b></i> | <i><b>HUW</b></i> | <i><b>HTW</b></i> | <i><b>HHW</b></i> | <i><b>HQW</b></i> | <i><b>HLP</b></i> | <i><b>HLU</b></i> | <i><b>Btn</b></i> | <i><b>Flying FT</b></i> | <i><b>Area</b></i> | <i><b>Meas.Date</b></i> | <i><b>Comment</b></i> |
|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------------|--------------------|-------------------------|-----------------------|
| ORC              | 0.05              | 0.62              | 1.24              | 2.55              | 4.08              | 5.56              | 12.26             | No                | No                      | 32.82              |                         |                       |
| 2                | 0.07              | 0.41              | 0.85              | 1.79              | 2.86              | 4.03              | 12.30             | Yes               | No                      | 23.30              |                         |                       |

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**SYMMETRIC SPINNAKER**

| <i><b>Id</b></i> | <i><b>SLU</b></i> | <i><b>SLE</b></i> | <i><b>SL</b></i> | <i><b>SHW</b></i> | <i><b>SFL</b></i> | <i><b>Area</b></i> | <i><b>Meas.Date</b></i> | <i><b>Comment</b></i> |
|------------------|-------------------|-------------------|------------------|-------------------|-------------------|--------------------|-------------------------|-----------------------|
| ORC              | 13.10             | 13.10             | 13.10            | 7.58              | 7.57              | 82.73              | 07/10/2005              |                       |

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**ASYMMETRIC SPINNAKER**

| <i><b>Id</b></i> | <i><b>SLU</b></i> | <i><b>SLE</b></i> | <i><b>SL</b></i> | <i><b>SHW</b></i> | <i><b>SFL</b></i> | <i><b>Ratio</b></i> | <i><b>Area</b></i> | <i><b>Meas.Date</b></i> | <i><b>Comment</b></i> |
|------------------|-------------------|-------------------|------------------|-------------------|-------------------|---------------------|--------------------|-------------------------|-----------------------|
| i                | 13.74             | 12.55             | 13.15            | 7.23              | 6.84              | 106%                | 78.34              |                         |                       |