## <u>International A-Division Catamaran Measurement Certificate</u>

Mast & Boom Measurement Form

| General mast formula Double taper mast Straight mast $MA = U \times (L-T1-T2)/2 + T1 \times (U+U1)/4 + T2 \times (U+U2)/4$ $MA = T1 \times (U+U1)/4 + T2 \times (U+U2)/4$ $MA = U \times L/2$ $MA = U \times $ | www.a-cat.org  Calculation of MA:       |                        |               |                                   |                   |
|--|---|------------------------|---------------|-----------------------------------|-------------------|
| Mast ((s half of the surface area of the mast excluding top and bottom surface)   L [m]  | General mast formula  Double taper mast | $MA = T1 \times (U +$  |               |                                   |                   |
| (Is half of the surface area of the mast excluding up and bottom surface)  L [m] 9,04  T1 [m] 0,36  T2 [m] 0,35  U [m] 0,38  U1 [m] 0,38  U2 [m] 0,34  MA [m2] 1,49  Calculation of BA: BA = 1/2 x MG x Lb  Boom Measurement  (Only required if the profile height is more than 15 the width)  Length, Lb [m]  Mean Girth, MG [m]  Boom Area, BA [m2]  Measurer to mark the following on bottom starboard side of mast.  MA = *** Date *** Signature ***  Mast Identification  Serial N°  Builder Fiberfoam  Comments  Measurers Declaration:  I declare that I have measured this mast & boom and they comply with all the class rules.  Date of Measurement:  16/8/2023  Frank Layrsen  Danish Sailing Association   |   | $ MA = U \times L/2$   |               | 7.5                               |                   |
| TI U U U U U U U U U U U U U U U U U U U   |   | U1                     | $\top$        | (Is half of the surface area of t | he mast excluding |
| Ti [m] 8,54 Ti [m] 0,50 U [m] 0,36 Ui [m] 0,34 MA [m2] 1,49  Calculation of BA: BA = 1/2 x MG x Lb  Boom Measurement (Only required if the profile height is more than 1.5 the width) Length, Lb [m] Mean Girth, MG [m] Boom Area, BA [m2]  Weasurer to mark the following on bottom starboard side of mast. MA = *** Date *** SN = *** Signature ***  Mast Identification  Serial N° Builder Fiberfoam  Comments  Measurers Declaration:  I declare that I have measured this mast & boom and they comply with all the class rules.  Date of Measurement: Measurer's Name: Appointed by:  Danish Sailing Association  Ti [m] 0,50 U [m] 0,36 UI [m] 0,34 MA [m2]  Lb  Calculation of BA: BA = 1/2 x MG x Lb  Boom Measurement (Only required if the profile height is more than 1.5 the width)  Length, Lb [m] Mean Girth, MG [m] Boom Area, BA [m2]  Lb  MG  Weasurers Date *** SN = *** Signature ***  Lb  MG  Weasurers Date *** SN = *** Signature ***  Date of Measurement:  Date of Measurement:  Date of Measurement:  Date Sailing Association  |   |                        |               | L [m]                             | 9,04              |
| T2 [m] 0.56 U [m] 0.36 U1 [m] 0.36 U2 [m] 0.34 MA [m2] 1.49  Calculation of BA: BA = 1/2 x MG x Lb  Boom Measurement (Ohy required if the profile height is more than 1.5 the width) Length, Lb [m] Mean Girth, MG [m] Boom Area, BA [m2]  Weasurer to mark the following on bottom starboard side of mast. MA = *** Date *** SN = *** Signature ***  Mast Identification  Serial N* Builder Fiberfoam  Comments  I declare that I have measured this mast & boom and they comply with all the class rules.  Date of Measurement:  16/8/2023  Frank Lavrsen Danish Sailing Association   | T1                                      | T1                     |               |                                   | 8,54              |
| U m 0.36 U1 m 0.38 U2 m 0.34 MA [m2] 1.49  Calculation of BA: BA = 1/2 x MG x Lb  Boom Measurement (Only required if the profile height is more than 1.5 the width) Length, Lb [m] Mean Girth, MG [m] Boom Area, BA [m2]  Measurer to mark the following on bottom starboard side of mast. MAA *** Date *** SN = *** Signature ***  Mast Identification  Serial N° Builder Fiberfoam  Comments  Measurers Declaration: I declare that I have measured this mast & boom and they comply with all the class rules.  Date of Measurement: Measurer's Name: Appointed by: Danish Sailing Association   |   |                        |               |                                   | 0,50              |
| U1 m   0,25 U2 m   0,34 MA [m2]  | U                                       |                        | U             |                                   | 0,36              |
| Calculation of BA:   BA = 1/2 x MG x Lb     Boom Measurement (Only required if the profile height is more than 1.5 the width)  |   |                        |               |                                   | 0,29              |
| Calculation of BA:   BA = 1/2 x MG x Lb     Boom Measurement (Only required if the profile height is more than 1.5 the width)     Length, Lb [m]   Mean Girth, MG [m]     Boom Area, BA [m2]     U2  |   |                        |               |                                   | 0,34              |
| Calculation of BA: BA = 1/2 x MG x Lb  Boom Measurement (Only required if the profile height is more than 1.5 the width)  Length, Lb [m] Mean Girth, MG [m] Boom Area, BA [m2]  Measurer to mark the following on bottom starboard side of mast. MA = *** Date *** SN = *** Signature ***  Mast Identification  Serial N° Builder Fiberfoam  Comments  Measurers Declaration:  I declare that I have measured this mast & boom and they comply with all the class rules.  Date of Measurement:  16/8/2023  Measurer's Name: Appointed by:  Danish Sailing Association  |   |                        |               | • 1                               | 1,49              |
| BA = 1/2 x MG x Lb  Boom Measurement (Only required if the profile height is more than 1.5 the width)  Length, Lb [m] Mean Girth, MG [m] Boom Area, BA [m2]  Weasurer to mark the following on bottom starboard side of mast.  AA = *** Date *** SN = *** Signature ***  Mast Identification  Brial N°   |   |                        | L             |                                   |                   |
| Boom Measurement (Only required if the profile height is more than 1.5 the width)   Length, Lb [m]   Mean Girth, MG [m]   Boom Area, BA [m2]   |   |                        |               |                                   |                   |
| (Only required if the profile height is more than 1.5 the width)  Length, Lb [m]  Mean Girth, MG [m]  Boom Area, BA [m2]  Measurer to mark the following on bottom starboard side of mast.  AA = *** Date *** SN = *** Signature ***  Mast Identification  Serial N°   |   |                        |               |                                   |                   |
| Length, Lb [m]   Mean Girth, MG [m]  |   |                        |               | (Only required if the profile he  | ight is more than |
| Measurer to mark the following on bottom starboard side of mast.  Ma = *** Date *** SN = *** Signature ***  Measurer to mark the following on bottom starboard side of mast.  Mast Identification  Serial N° 1560 Material Carbon  Somments  Measurers Declaration: I declare that I have measured this mast & boom and they comply with all the class rules.  Date of Measurement: 16/8/2023  Measurer's Name: Frank Lavrsen  Appointed by: Danish Sailing Association  | U                                       | U                      |               | ,                                 |                   |
| Double taper   Straight   MG   |   | +                      |               | Length, Lb [m]                    |                   |
| Double taper   Straight   MG   | T2                                      | T2                     |               | Mean Girth, MG [m]                |                   |
| Measurer to mark the following on bottom starboard side of mast.  MA = *** Date *** SN = *** Signature ***  Mast Identification  Serial N°   |   |                        |               | Boom Area, BA [m2]                |                   |
| Measurer to mark the following on bottom starboard side of mast.  MA = *** Date *** SN = *** Signature ***  Mast Identification  Serial N°   |   |                        | Straight      |                                   |                   |
| Mast Identification  Serial N° 1560 Material Carbon  Suilder Fiberfoam  Comments  Measurers Declaration: I declare that I have measured this mast & boom and they comply with all the class rules.  Date of Measurement: 16/8/2023  Measurer's Name: Frank Lavrsen  Danish Sailing Association   | General De                              | Judie tapei            | Straight      | MG                                |                   |
| Mast Identification  Serial N° 1560 Material Carbon  Suilder Fiberfoam  Comments  Measurers Declaration: I declare that I have measured this mast & boom and they comply with all the class rules.  Date of Measurement: 16/8/2023  Measurer's Name: Frank Lavrsen  Danish Sailing Association   | Measurer to mark the following          | ng on bottom starboard | side of mast. |                                   | )                 |
| Serial N°   1560   Material   Carbon   |   | =                      |               | Lb                                |                   |
| Measurers Declaration:  J declare that I have measured this mast & boom and they comply with all the class rules.  Date of Measurement:  Measurer's Name:  Appointed by:  Danish Sailing Association   | Mast Identification                     |                        |               |                                   |                   |
| Measurers Declaration:  I declare that I have measured this mast & boom and they comply with all the class rules.  Date of Measurement:  Measurer's Name:  Appointed by:  Danish Sailing Association   |   |                        | 1560 Materia  | l Carbon                          |                   |
| Measurers Declaration:  I declare that I have measured this mast & boom and they comply with all the class rules.  Date of Measurement:  Measurer's Name:  Appointed by:  Danish Sailing Association   |   |                        |               |                                   |                   |
| comply with all the class rules.  Date of Measurement:  Measurer's Name:  Appointed by:  Danish Sailing Association  Danish Sailing Association  | Comments                                |                        |               |                                   |                   |
| comply with all the class rules.  Date of Measurement:  Measurer's Name:  Appointed by:  Danish Sailing Association  Danish Sailing Association  |   |                        |               |                                   |                   |
| comply with all the class rules.  Date of Measurement:  Measurer's Name:  Appointed by:  Danish Sailing Association  Danish Sailing Association  |   |                        |               |                                   |                   |
| Comply with all the class rules.  Date of Measurement:  Measurer's Name:  Appointed by:  Danish Sailing Association  The state of Measurement:  Danish Sailing Association   |   |                        |               |                                   |                   |
| comply with all the class rules.  Date of Measurement:  Measurer's Name:  Appointed by:  Danish Sailing Association  Danish Sailing Association  |   |                        |               |                                   |                   |
| comply with all the class rules.  Date of Measurement:  Measurer's Name:  Appointed by:  Comply with all the class rules.  Frank Lavrsen  Danish Sailing Association   |   |                        |               |                                   |                   |
| Date of Measurement:  Measurer's Name:  Appointed by:  Danish Sailing Association  | Measurers Declaration:                  |                        |               |                                   |                   |
| Measurer's Name:  Appointed by:  Danish Sailing Association  Measurer's Signature:   |   | 16/8/2023              |               | www.a-tat.uk                      |                   |
| Appointed by:  Danish Sailing Association  Measurer's Signature:   | Date of Measurement:                    | 10/0/2023              |               |                                   | >                 |
| Measurer's Signature:  |   |                        |               |                                   | 2                 |
| Measurer's Signature:  | Measurer's Name:                        | Frank Lavrsen          | ssociation    |                                   |                   |
|  | Measurer's Name:                        | Frank Lavrsen          | ssociation    | - Class Associa                   |                   |