

# HADRON H2

## CLASS RULES

2018



The Hadron H2 was designed in 2015 by Keith Callaghan and is manufactured under licence by Hadron Dinghies Ltd.

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# INTRODUCTION

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*The Hadron H2 is designed as a single handed racing dinghy to give close competition.*

*This introduction only provides an informal background and HADRON H2 Class Rules proper begin on the next page.*

*HADRON H2 hull, centreboard and rudder are manufacturer controlled.*

*HADRON H2 rigs and sails are measurement controlled.*

*HADRON H2 hulls shall only be manufactured by Hadron Dinghies Ltd – in the class rules referred to as licensed manufacturers.*

*HADRON H2 hulls, hull appendages, rigs and sails may, after having left the manufacturer, only be altered to the extent permitted in Section C of the class rules.*

*Owners should be aware that compliance with rules in Section C may NOT be checked as part of any certification process.*

*Rules regulating the use of equipment during a race are contained in Section C of these class rules, in the Equipment Rules of Sailing (ERS) Part I and in the Racing Rules of Sailing (RRS).*

## **PLEASE REMEMBER:**

**THESE RULES ARE CLOSED CLASS RULES  
WHERE IF IT DOES NOT SPECIFICALLY SAY  
THAT YOU MAY – THEN YOU SHALL NOT.**

**COMPONENTS, AND THEIR USE, ARE  
DEFINED BY THEIR DESCRIPTION.**

# PART I – ADMINISTRATION

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## Section A – General

### A.1 LANGUAGE

- A.1.1 The official language of the class is English and in case of dispute over translation the English text shall prevail.
- A.1.2 The word “shall” is mandatory and the word “may” is permissive.

### A.2 ABBREVIATIONS

- A.2.1 WS World Sailing
- MNA WS Member National Authority
- NCA National Hadron H2 Class Association
- ERS Equipment Rules of Sailing
- RRS Racing Rules of Sailing
- LM Licensed Manufacturer (Hadron Dinghies Ltd)

### A.3 AUTHORITIES

- A.3.1 The **Class Rules Authority** and the **Certification Authority** of the class is the designer (Keith Callaghan) until such time as a viable national Class Association is in existence. The designer is the copyright holder of the Hadron H2 dinghy design. The designer has authorised one LM: Hadron Dinghies Ltd.
- A.3.2 The **Certification Authority**, **Class Rules Authority** and any **Official Measurer** is under no legal responsibility in respect of these rules or accuracy of measurement and no claims arising therefrom can be entertained.
- A.3.3 Notwithstanding anything contained herein, the **certification authority** has the authority to withdraw a **certificate**

### A.4 ADMINISTRATION OF THE CLASS

- A.4.1 Administrative functions as stated in these **class rules** shall be carried out by the designer until such time as a viable national Class Association is in existence.

### A.5 WS RULES

- A.5.1 These **class rules** shall be read in conjunction with the ERS.
- A.5.2 Except where used in headings, when a term is printed in “**bold**” the definition in the ERS applies and when a term is printed in “*italics*” the definition in the RRS applies.

### A.6 CLASS RULES AMENDMENTS

- A.6.1 Amendments to these **class rules** are subject to the approval of the **class rules authority** and the copyright holder.

### A.7 CLASS RULES INTERPRETATION

- A.7.1 Interpretation of **class rules** shall be made by the **class rules authority**

## **A.8 SAIL NUMBERS**

- A.8.1 Sail numbers shall be issued by the designer upon notification by the LM that a **hull** has been completed.
- A.8.2 Sail numbers shall be issued in consecutive order starting at “101”.

## **A.9 HULL CERTIFICATION**

- A.9.1 Hull **certificates** will not be issued.

# **Section B – Boat Eligibility**

For a **boat** to be eligible for *racing*, it shall comply with the rules in this section.

## **B.1 CLASS RULES AND CERTIFICATION**

- B.1.1 The boat shall:
  - (a) be in compliance with the **class rules**.
  - (b) have valid **certification marks** if required

## **B.2 CLASS ASSOCIATION MEMBERSHIP**

- B.2.1 The **crew** shall be a valid member of the Hadron H2 Class Owners Association.
- B.2.2 Where the **crew** is not a valid member of the Hadron H2 Class Association (HH2CA) the **crew** may, by payment of a supplement (the amount to be voted on at each HH2CA AGM), be considered as a member of the HH2CA for that open meeting only. It will be the responsibility of the organising club/body to collect and forward any such supplements paid to the HH2CA.
- B.2.3 In order to compete at the National Championships the **crew** must be a full or associate member of the HH2CA.

# PART II – REQUIREMENTS AND LIMITATIONS

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The **crew** and the **boat** shall comply with the rules in Part II when *racing*. In case of conflict Section C shall prevail.

The rules in Part II are **closed class rules**. **Certification control** and **equipment inspection** shall be carried out in accordance with the ERS except where varied in this Part.

## Section C – Conditions for Racing

### C.1 GENERAL

#### C.1.1 RULES

- (a) The ERS Part I – Use of Equipment shall apply.

### C.2 CREW

#### C.2.1 LIMITATIONS

- (a) The **crew** shall consist of 1 person.

### C.3 PERSONAL EQUIPMENT

#### C.3.1 MANDATORY

- (a) The boat shall be equipped with **personal buoyancy** for each crew member to the minimum standard ISO 1240s:5 (CE 50 Newtons), EN 393: 1995 (CE 50 Newtons), or USCG Type III, or AUS PFD 11.

### C.4 ADVERTISING

#### C.4.1 LIMITATIONS

Advertising shall only be displayed in accordance with the ISAF Advertising Code. Advertising chosen by the boat's owner or by the person in charge is not permitted.

### C.5 PORTABLE EQUIPMENT

#### C.5.1 FOR USE

- (a) OPTIONAL

- (1) Electronic or mechanical timing devices
- (2) Electronic or magnetic compass
- (3) Mooring line
- (4) Consumables
- (5) Items on deck which functions are storage of food, drink, clothing, safety or relevant tools or spares.

- C.5.2 NOT FOR USE
- (a) OPTIONAL
    - (1) Paddle
    - (2) Tow line

## C.6 BOAT

### C.6.1 WEIGHT

minimum

The weight of the **boat** in dry condition .....72 kg  
The weight shall be taken excluding **sails** and all portable equipment as listed in C.5 other than permanently fitted mounting brackets.

### C.6.2 CORRECTOR WEIGHTS

- (a) **Corrector weights** of lead shall be permanently fastened to the **boat** anywhere inside the buoyancy compartment when the **boat** weight is less than the minimum requirement.
- (b) The total weight of such **corrector weights** shall not exceed 5 kg. See also rules B.1.1.

## C.7 HULL

### C.7.1 MODIFICATIONS, MAINTENANCE AND REPAIR

The following is permitted without approval of the **certification authority**. Unless stated otherwise items mentioned in this section may be obtained from any manufacturer or supplier.

#### MAINTENANCE

- (a) The **hull** may be **polished**.
- (b) The **hull** may be **painted**.
- (c) The **hull** may be **sanded** but only in such a way as to facilitate painting.

#### REPAIR

- (a) The **hull** may be repaired in such a way that it shall not change the shape or basic weight distribution

#### MODIFICATIONS

- (a) Holes may be made in the **hull** for the fixing of fittings. Backing pads of a suitable material (e.g. nylon) must be placed under the fittings for attachment purposes.
- (b) Placement of line bags, and additional fairleads, cleats, jammers and pad eyes is permitted but see (a) above.
- (c) Vinyl may be added to the **hull** to facilitate advertising or personal graphics.
- (d) Non-skid tape or patches made from a flexible material not greater than 3mm thick may be attached to the internal surfaces and deck moulding.

## C.7.2 FITTINGS

### (a) USE

- (1) Hand hole covers and drainage plugs shall be kept in place at all times.
- (2) Fittings are optional except that hydraulics shall not be permitted.
- (3) The use of plastic and other adhesive tapes is unrestricted.

## C.8 HULL APPENDAGES

### C.8.1 MODIFICATIONS, MAINTENANCE AND REPAIR

The following is permitted without approval of the **certification authority**. Unless stated otherwise items mentioned in this section may be obtained from any manufacturer or supplier.

#### MAINTENANCE

- (a) The **hull appendages** may be **polished**.
- (b) The **hull appendages** may be **painted**.
- (c) The **hull appendages** may be **sanded** but only in such a way as to facilitate painting.

#### REPAIR

- (a) **Hull appendages** may have minor scratches and abrasions and damaged edges repairs and faired in to return them to the original shape.
- (b) Tillers may be repaired as necessary.

#### MODIFICATIONS

- (a) The fixings and fastenings of the **hull appendages** may be replaced.

### C.8.2 LIMITATIONS

- (a) Only one **centreboard** and one **rudder** blade shall be used during an event of less than 5 consecutive days, except when a **hull appendage** has been lost or damaged beyond repair.

### C.8.3 CENTREBOARD

#### (a) USE

- (1) The top part of the **centreboard** may be marked to show various angles.

### C.8.4 RUDDER

#### (a) USE

- (1) The **rudder** blade angle is optional.

## C.9 RIG

### C.9.1 MODIFICATIONS, MAINTENANCE AND REPAIR

The following is permitted without approval of the **certification authority**. Unless stated otherwise items mentioned in this section may be obtained from any manufacturer or supplier.

#### MAINTENANCE

- (a) The **spars** may be **polished** or **painted**.



- (b) Fitting and spars may be modified to accommodate larger diameter bolts or rivets
- (c) **Spars** may be **re-finished**.

REPAIR

- (a) Spars may be repaired.

MODIFICATIONS

- (e) Running rigging may be replaced.

C.9.2 FITTINGS

- (a) USE
  - (1) Fittings are optional except that hydraulics shall not be permitted.

C.9.3 LIMITATIONS

- (a) Only one set of **spars** and standing **rigging** shall be used during an event of less than 5 consecutive days, except when an item has been lost or damaged beyond repair.

C.9.4 MAST

- (a) USE
  - (1) The **spar** shall be stepped in the mast step in such a way that the heel is not capable of moving more than 3 mm.

C.9.5 BOOM

- (a) DIMENSIONS
 

	minimum	maximum
<b>Limit mark width</b> .....	10 mm	
<b>Boom point distance</b> .....		2160 mm

- (b) USE
  - (1) The intersection of the aft edge of the mast **spar** and the top of the boom **spar**, each extended as necessary, shall not be below the upper edge of the mast **lower limit mark** when the boom **spar** is at 90° to the mast **spar**.

C.9.7 STANDING RIGGING

- (a) USE
  - (1) Shroud attachments, links and rigging screws shall not be adjusted.
  - (2) The Forestay may be adjusted.

C.9.8 RUNNING RIGGING

- (a) USE
  - (1) The lead of the mainsail sheet, kicking strap, clew out haul and Cunningham is optional.
  - (2) The use of shock cord is unrestricted.

## C.10 SAILS

### C.10.1 MODIFICATIONS, MAINTENANCE AND REPAIR

The following is permitted without re-**certification** or approval of the **certification authority**. Unless stated otherwise items mentioned in this section may be obtained from any manufacturer or supplier.

- (a) **Repairs** and cleaning are permitted.
- (b) Addition of tell tales
- (c) Addition of camber stripes
- (d) Battens may be placed in the **batten pockets**
- (e) **Sails** shall not be altered in any way except as permitted by these **class rules**.

### C.10.2 LIMITATIONS

- (a) Not more than 1 mainsail shall be carried aboard.
- (b) Not more than 1 mainsail shall be used during an event of less than 5 consecutive days, except when a **sail** has been lost or damaged beyond repair.

### C.10.3 MAINSAIL

- (a) USE
  - (1) The **sail** shall be hoisted on a halyard. The arrangement shall permit hoisting and lowering of the **sail** at sea.
  - (2) The highest visible point of the **sail**, projected at 90° to the mast **spar**, shall not be set above the lower edge of the mast **upper limit mark**. The intersection of the **leech** and the top of the boom **spar**, each extended as necessary, shall not be behind the fore side of the boom **outer limit mark**.
  - (3) The **Luff** bolt rope shall be in the **spar** groove or track.
  - (4) The full length battens shall be in the pockets at all times whilst sailing.

## Section D – Hull

### D.1 PARTS

#### D.1.1 MANDATORY

- (a) Hull

### D.2 GENERAL

#### D.2.1 RULES

- (a) The **hull** shall comply with the Building Specification in force at the time of manufacture.

#### D.2.2 MODIFICATIONS, MAINTENANCE AND REPAIR

- (a) **Hull** repairs, modifications and maintenance shall be carried out so that the **boat** continues to comply with the **class rules** and no substantial stiffness or other advantage has been gained by the repairs or modifications.

### D.2.3 IDENTIFICATION

- (a) The hull shall carry the sail number and Hull identification number on the transom.

### D.2.4 BUILDERS

- (a) The **hull** shall be built only by the LM or its licensee.

## D.3 HULL SHELL, DECK, BUOYANCY AND ASSOCIATED STRUCTURE

### D.3.1 MATERIALS & CONSTRUCTION

- (a) The **hull** shall be built in accordance with the specifications set out by the LM.

## D.4 ASSEMBLED HULL

### D.4.1 FITTINGS

#### (a) MANDATORY

The following fittings shall be positioned in accordance with the LM Specifications:

- (1) Forestay sheave
- (2) Shroud plates
- (3) Mast step

#### (b) OPTIONAL

Other fittings are optional except that hydraulics shall not be permitted

## Section E – Hull Appendages

### E.1 PARTS

#### E.1.1 MANDATORY

- (a) **Centreboard**
- (b) **Rudder**

### E.2 GENERAL

#### E.2.1 RULES

- (a) **Hull appendages** shall comply with the **class rules** in force at the time of **certification**.

#### E.2.2 MODIFICATIONS, MAINTENANCE AND REPAIR

- (a) Hull appendages shall not be altered in any way except as permitted by these **class rules**.

### E.3 CENTREBOARD

#### E.3.1 MANUFACTURERS

- (a) Manufacturers shall be licensed by the LM.

### E.3.2 MATERIALS & CONSTRUCTION

- (a) The **centreboard** shall be constructed within the specifications issued by the LM.

## E.4 RUDDER BLADE, RUDDER STOCK AND TILLER

### E.4.1 MANUFACTURERS

- (a) Manufacturers shall be licensed by the LM.

### E.4.2 MATERIALS & CONSTRUCTION

- (a) The **rudder** shall be constructed within the specifications issued by the LM.

## Section F – Rig

### F.1 PARTS

#### F.1.1 MANDATORY

- (a) **Mast**
- (b) **Boom**
- (c) Standing **rigging**
- (d) Running **rigging**

### F.2 GENERAL

#### F.2.1 RULES

- (a) The **spars** and their fittings shall comply with the **class rules** in force at the time of **certification** of the **spar**.
- (b) The standing and running **rigging** shall comply with the **class rules**.

#### F.2.2 MODIFICATIONS, MAINTENANCE AND REPAIR

- (a) **Spars** shall not be altered in any way except as permitted by these **class rules**.

#### F.2.3 CERTIFICATION

- (a) The **official measurer** shall **certify spars**.
- (b) No **certification** of standing and running **rigging** is required.

#### F.2.4 DEFINITIONS

- (a) MAST DATUM POINT  
The **mast datum point** is the **heel point**.

#### F.2.5 MANUFACTURER

- (a) A licence from the LM is required. Only one licence has been issued: to Super Spars Ltd. New or replacement spars must be procured through the LM.

### F.3 MAST

#### F.3.1 MATERIALS

- (a) The **spar** shall be of carbon fibre.
- (b) An external track may be aluminium, carbon fibre or plastic
- (b) Permitted surface finish shall be anodised or of polish or resin or paint/varnish

#### F.3.2 CONSTRUCTION

- (a) The **spar** extrusion shall include a fixed sail groove or track which may or may not be integral with the **spar**
- (b) Other construction details are optional.

#### F.3.3 FITTINGS

##### (a) MANDATORY

- (1) Mast head fitting
- (2) Shroud and forestay fittings
- (3) A set of spreaders
- (4) Mainsail halyard sheave box
- (5) Gooseneck
- (6) Heel fitting

##### (b) OPTIONAL

- (1) Exit for halyard or external fitting for halyard
- (2) External halyard lock
- (3) One or two mechanical wind indicators
- (4) Compass bracket
- (5) Fittings for permitted control lines

#### F.3.5 DIMENSIONS

	minimum	maximum
<b>Mast length</b> .....	5770 mm	5800 mm
<b>Mast spar cross section</b>		
<b>fore-and-aft</b> .....	65 mm	70 mm
<b>transverse</b> .....	53 mm	60 mm
<b>Mast limit mark width</b> .....	10 mm	
<b>Lower point height</b> .....	323 mm	
<b>Upper point height</b> .....		5713 mm
<b>Lower point to upper point</b> .....		5390 mm
<b>Forestay height</b> .....	3100 mm	3745 mm
<b>Shroud height</b> .....	3780 mm	3800 mm
<b>Spreader;</b>		
<b>length</b> .....	350 mm	400 mm
<b>height</b> .....	2000 mm	2140 mm

Distance from **mast datum point** as defined in F.2.3  
to centre of gravity in condition as described in  
ERS H.4.6 .....2300 mm

F.3.16 WEIGHTS

minimum    maximum

**Mast weight** .....4.5 kg

**F.4 BOOM**

F.4.1 MATERIALS

- (a) The **spar** shall be of Carbon Fibre.
- (b) Permitted surface finish shall be of polish or resin or paint/varnish.

F.4.2 CONSTRUCTION

- (a) The **spar** extrusion construction is optional

F.4.3 FITTINGS

- (a) Fittings are optional.

F.4.5 DIMENSIONS

minimum    maximum

**Boom spar cross section** at any point;

**vertical** ..... 70 mm ..... 95 mm

**transverse** ..... 70 mm ..... 75 mm

Overall length of **Boom spar** ..... mm .. 2390 mm

F.4.16 WEIGHTS

minimum    maximum

**Boom weight** .....1.4 kg

**F.5 STANDING RIGGING**

F.5.1 MANDATORY

- (a) One pair of shrouds
- (b) One adjustable forestay

F.5.2 MATERIALS

- (a) The shrouds **rigging** shall be of stainless steel.
- (b) The forestay material is optional.

F.5.3 CONSTRUCTION

- (a) Optional.

F.5.4 FITTINGS

- (a) Optional.

**F.6 RUNNING RIGGING**

F.6.1 MANDATORY

- (a) Mainsail halyard
- (b) Mainsail sheet

- (c) Kicking strap
- (d) Mainsail outhaul
- (e) Mainsail Cunningham line
- (f) Forestay control line

#### F.6.2 MATERIALS

- (a) The construction, purchase and materials of the running rigging are optional.

#### F.6.3 FITTINGS

- (a) Fittings are optional.

## Section G – Sails

### G.1 PARTS

#### G.1.1 MANDATORY

- (a) Mainsail

### G.2 GENERAL

#### G.2.1 RULES

- (a) **Sails** shall comply with the **class rules** in force at the time of **certification**.

#### G.2.2 CERTIFICATION

- (a) The **official measurer** shall **certify** mainsails in the **tack** and shall sign and date the **certification mark**.
- (b) RYA Class and Sail measurers may measure Hadron H2 Sails
- (c) The **Certification Authority** may appoint one or more persons at a sailmaker to measure and **certify sails** produced by that manufacturer in accordance with the WS In-house Certification Guidelines.

#### G.2.3 SAILMAKER

- (a) A licence from the LM is required. Only one licence has been issued: to HD Sails Ltd. New or replacement sails must be procured through the LM.

### G.3 MAINSAIL

#### G.3.1 IDENTIFICATION

- (a) The class insignia shall conform with the dimensions and requirements as detailed in the diagram contained in Section H and be placed above and below the third batten from the **head**.
- (b) The Sail numbers and optional national letters shall be placed in accordance with RRS Appendix G.

#### G.3.2 MATERIALS

- (a) The **ply** fibres shall consist of ZZ One design Racing Black Technora 2 mil - Reference ZZ04.
- (b) **Stiffening** shall consist of:
  - (1) Headboards: Plastic, GRP or Aluminium

(2) Battens: GRP, Foam or a combination of.

(c) **Sail reinforcement** shall consist of materials permitted in the **body of the sail**.

G.3.3 CONSTRUCTION

- (a) The construction shall be: **soft sail, single ply sail**.
- (b) The **body of the sail** shall consist of woven and/or **laminated ply** throughout.
- (c) The **sail** shall have 5 batten **pockets** in the **leech**. Battens shall be removed for sail measurement.
- (d) All batten pockets shall be full length and extend from **luff** to **leech**.
- (e) The top batten shall intersect the **leech** immediately below the **aft head point**.
- (f) The following are permitted: Stitching, glues, tapes, bolt ropes, corner eyes, headboard with fixings, Cunningham eye or pulleys, **batten pocket** patches, **batten pocket** end caps, mast slides, leech line with cleat, **windows**, tell tales, sail shape indicator stripes, chafe patches and items as permitted or prescribed by other applicable rules.

G.3.4 DIMENSIONS – STANDARD SAIL

All standard sails shall be made to the HD Sails pattern reference Hadron2Proto9\_4. No variation is allowed. The following dimensions are thus for information only.

*Where no limit(s) for a particular dimension is given then the item is not controlled and need not be measured.*

	minimum	maximum
<b>Leech length</b> .....	. 5270 mm	
<b>Quarter width</b> .....	. 2060 mm	
<b>Half width</b> .....	. 1805 mm	
<b>Three-quarter width</b> .....	. 1345 mm	
<b>Top width</b> .....	. 900 mm	
<b>Head point</b> to intersection of <b>leech</b> and centreline of second <b>batten pocket</b> .....	1300 mm ...	1340 mm
<b>Head point</b> to intersection of <b>luff</b> and centreline of uppermost <b>batten pocket</b> .....	530 mm .....	570 mm
<b>Head point</b> to intersection of <b>luff</b> and centreline of second <b>batten pocket</b> .....	860 mm .....	900 mm
<b>Aft head point</b> to intersection of <b>leech</b> and centreline of second <b>batten pocket</b> .....	540 mm .....	580 mm
<b>Clew point</b> to intersection of <b>leech</b> and centreline of lowermost <b>batten pocket</b> .....	1270 mm .....	1310



G.3.5 DIMENSIONS – SMALL SAIL

*Where no limit(s) for a particular dimension is given then the item is not controlled and need not be measured.*

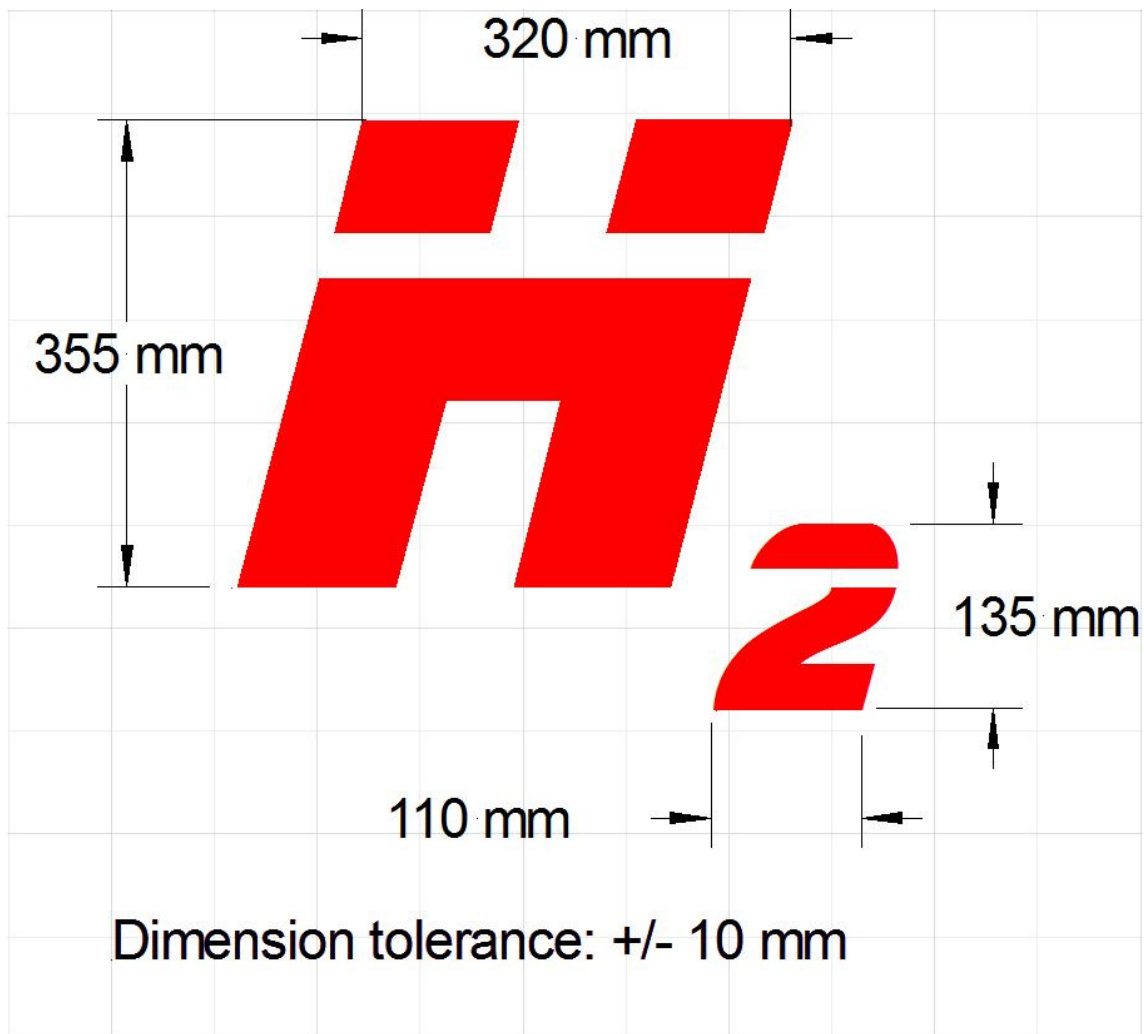
	minimum	maximum
<b>Leech length</b> .....		5105 mm
<b>Quarter width</b> .....		1840 mm
<b>Half width</b> .....		1515 mm
<b>Three-quarter width</b> .....		1055 mm
<b>Top width</b> .....		455 mm
<b>Head point</b> to intersection of <b>leech</b> and centreline of second <b>batten pocket</b> .....	895 mm ....	925 mm
<b>Head point</b> to intersection of <b>luff</b> and centreline of uppermost <b>batten pocket</b> .....	575 mm .....	610 mm
<b>Head point</b> to intersection of <b>luff</b> and centreline of second <b>batten pocket</b> .....	890 mm .....	920 mm
<b>Aft head point</b> to intersection of <b>leech</b> and centreline of second <b>batten pocket</b> .....	535 mm .....	575 mm
<b>Clew point</b> to intersection of <b>leech</b> and centreline of lowermost <b>batten pocket</b> .....	1270 mm ...	1310 mm

# PART III – APPENDICES

The rules in Part III are **closed class rules**. Measurement shall be carried out in accordance with the ERS except where varied in this Part.

## Section H

### H.1



Version 6.3

Effective: 1 November 2018

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