



POLICY DOCUMENT

AUSTRALIAN TRAILABLE YACHT AND SPORTS BOAT RULE

March 2009

1.0 OBJECTIVE

- 1.01 The objective of the Australian Trailable Yacht and Sports Boat Rule (ATYSBR), hereinafter called "the Rule", is to provide a national system for even and fair racing on handicap in a mixed fleet of trailable yachts and/or sports boats, resulting in racing success being primarily determined by the skills of the crew.
- 1.02 The Rule will also provide a basis for the conduct of national and state-level championship for trailable yachts and sports boats, as well as for club and other events

2.0 DEFINITIONS

2.01 Class Based Handicap:

The Class Based Handicap (CBH) is an allocated performance factor applicable to an individual trailable yacht or sports boat, or a class of trailable yachts or sports boats, to achieve the objective at Section 1. above when sailing in a mixed fleet.

2.02 Trailable Yacht or Sports Boat:

For the purpose of this Rule a trailable yacht or sports boat is a monohull, ballasted yacht with a retractable keel, being of 9.40 metres LOA or less, which can be transported on the road on the same trailer used to launch and retrieve it without the assistance of external equipment or detachment from the towing vehicle and without requiring a special road permit.

2.03 Standard Trailable Yacht or Standard Sports Boat:

A Standard Trailable Yacht or Standard Sports Boat is a trailable yacht or sports boat having a cabin of solid construction enclosing at least two functional berths. The cabin shall have minimum headroom measured vertically and continuously over the total area of one square metre of the cabin sole with hatches, pop tops etc closed off.

- For craft less than 6.00 m LOA - 0.90 m
- For craft of 6.00 m LOA or longer - 1.05 m

2.04 Open Trailable Yacht or Open Sports Boat:

An Open Trailable Yacht or Open Sports Boat is a trailable yacht or sports boat that does not necessarily conform to the requirements for a Standard Trailable Yacht or Standard Sports Boat. There shall be a cockpit and provision for stowage of sails, equipment and crew effects below deck, except that: -

- Berths are not required

- The bow section of the boat shall be decked in at least level with or higher than the gunnels, with the aftermost edge of the deck being no more than 100 mm forward of the leading edge of the centreboard case.

3.0 GENERAL

- 3.01 This Rule shall be known as the Australian Trailable Yacht and Sports Boat Rule (ATYSBR), otherwise referred to in this document as the "Rule".
- 3.02 This Rule shall come into effect on 1 July 2008.
- 3.03 The Custodian of this Rule shall be Yachting Australia (YA).
- 3.04 The Rule shall be used in conjunction with the Racing Rules of Sailing and the rules of individual class associations. In the event of a conflict, interpretation of these rules is the responsibility of the Custodian to ensure the intention of fair and even racing is upheld.
- 3.05 It is not the purpose of this Rule to restrict any individual yacht class from development within their own class rules.
- 3.06 This Rule is intended to support each Member Yachting Association (MYA) in its work to promote trailable yacht and sports boat racing activities within their own state or territory and at the national level.
- 3.07 In this Rule the word `shall` is mandatory and the word `may` permissive.
- 3.08 YA and its subordinate bodies shall not be held liable for any accident or injury occurring in a race organised under the ATYSBR.

4.0 VARIATIONS

- 4.01 This Rule shall only be amended in accordance with YA policy.

5.0 CLASS BASED HANDICAP

- 5.01 A CBH shall be allocated by the Custodian, based on the information relating to the basic dimensions of an individual boat or class of boat provided by a measurer appointed by an MYA and shall be recorded in Appendix `A` of this Rule.
- 5.02 Any change to the details provided by a boat or class at Section 5.01 above, upon which its CBH was calculated, shall be advised to the Custodian by an MYA appointed measurer and the Appendix `A` shall be amended to include the new or changed CBH.
- 5.03 Where the specifications of a boat or a class are altered from those upon which its CBH was calculated, it shall immediately notify its MYA appointed measurer and shall be re-measured for review of its CBH by the Custodian.
- 5.04 A designer, manufacturer or owner shall comply with the spirit and intent of the ATYSBR and shall not seek means of artificially reducing an allocated CBH or seek to increase performance without a corresponding increase in CBH.
- 5.04 The CBH is for racing events. The CBH does not give any concessions for additional equipment or fittings that exceed those required by the Category of Event in YA Special Regulations Part 1 as specified by the Organising Authority of an event, or for the age of any boat.
- 5.05 The CBHs listed in Appendix `A` are regarded as the National CBH of any Class of Trailable Yacht or Sports Boat. These CBHs shall be used for the YA National Championship.
- 5.05 Each boat's or class's classification and CBH shall be reviewed annually by the Custodian, at least 3 months prior to each National Championship, and posted 60 days prior to the event.

- 5.07 The Custodian may undertake a review of the CBH applying to any class, or boat, on the request of two or more MYAs. Any revised CBH shall remain interim until the next annual review.
- 5.08 Any alteration referred to at Section 5.03 above, or breach of that Section that is decided by a protest committee, shall be advised to the Custodian, which shall then amend Appendix `A` and notify each MYA for distribution to Organising Authorities.
- 5.08 The method of obtaining a CBH as set out in Appendix `B` shall be included in the annual review provided for at Section 5.06 above
- 5.09 Types of CBH
- Affiliated one-design class (YA affiliated class association with registered Class Rules)
 - Non-affiliated one design (no affiliated class association)
 - Individually modified one design or one of a kind (OAK)
 - Provisional handicap until reliable performance data is obtained.

6.0 NATIONAL CHAMPIONSHIP

- 6.01 The YA National Trailable Yacht and Sports Boat Championship shall be conducted using this Rule.
- 6.02 The eligibility requirements for the National Championship shall be as set out in Section 7.0 below. Additionally, the classifications at Section 7.0 below may be used for other events as chosen by the Organising Authority.
- 6.03 To be eligible to sail in a YA National Trailable Yacht and Sports Boat Championship an entry must have an allocated CBH as listed in Appendix `A`.
- 6.04 An entry not listed in Appendix `A` may be allocated, for the Championship, a provisional CBH as determined by the Custodian or its nominated representative, plus a penalty of (+) 0.020. The allocated CBH shall not be subject to appeal by the owner or his/her representative.

7.0 CLASSIFICATIONS

- Trailable boats, including sports boats, shall conform to the following classifications.
- 7.01 Standard Trailable Yacht
Maximum beam 2.5 m
CBH as specified in Appendix `A`
- 7.02 Open Trailable Yacht
Maximum beam 2.5 m
CBH as specified in Appendix `A`
- 7.03 Standard Sports Boat
Maximum beam 2.5 m
CBH as specified in Appendix `A`
- 7.04 Open Sports Boat
A maximum hull beam of 2.5 m while towing
A maximum extended wing beam, while sailing, of 3.5 m
CBH as specified in Appendix `A`
- 7.05 The Custodian shall classify all such boats under this Rule.

8.0 VARIATIONS TO LAUNCHING AND RETRIEVING

- 8.01 Owing to the effect of shallow angled ramps and tides, and for the purpose of launching or retrieving with a crane (for ease of launching or retrieving but not the sole purpose due to boat design), the trailer may be detached from the towing vehicle without invalidating the status of a trailable yacht or sports boat under this Rule at Section 2. above. The design or construction of a boat or trailer shall not be the determining factor for detaching from the towing vehicle or the use of a crane.

9.0 ELIGIBILITY

- 9.01 Eligible boats are as described in Section 7.0 above, and may be fitted with either drop or swing keels, centreboards, canards or other movable appendages, provided that they are mechanically locked down in their designed sailing position, as determined by their allocated CBH.
- 9.02 A trailable yacht or sports boat issued with a CBH by an MYA prior to the entry into force of this Rule shall be accepted as an eligible boat and as complying with the Rule.

10.0 DIMENSIONS

10.01 Sailing Configuration.

Hull length overall	-	Minimum	4.60 m
		Maximum	9.40 m
Hull width		Maximum	2.50 m
Hull width with wings:		Maximum	3.50 m
Mast length	-	Maximum	12.50 m from top of cabin to mast tip
		Maximum	13.50 m from sheer
Draft	-	Maximum	2.50 m

11.0 EQUIPMENT RULES

- 11.01 Standard equipment as described in individual class rules shall not be relocated or removed when racing.
- 11.02 Outboard motors shall be fitted in their operating position, but may be retracted out of the water while racing.
- 11.03 Unless otherwise specified and approved by class rules, or use of hiking devices has been included in the original request for CBH by the builder/owner and reflected in the CBH, no crew member shall sail or manoeuvre the boat with his/her torso outboard of a vertical line from the gunwale with the boat in its sailing position at the time.
- 11.04 Open Sports Boats may use hiking straps, trapezes, or hiking wings (maximum beam 3.5 m) to increase stability. This rule excludes Open Sports Boats from Section 11.03.
- 11.05 Open Sports Boats with a sailing beam exceeding 2.50 m shall not use a trapeze(s), or sliding beams.
- 11.06 A boat may use hiking devices to increase stability if allowed by the registered individual class rules.
- 11.07 Standard Sports Boats and Open Sports Boats shall be single masted.
- 11.08 Standard Trailable Yachts/Open Trailable Yachts /Standard Sports Boats shall not use any attachments to the hull in a manner to move the crew beyond the maximum beam of the hull unless permitted by Section 11.03.

12.0 SAILS

- 12.01 Sails shall be constructed and measured in accordance with the individual class rules.
- 12.02 If no class rules apply sails shall be measured in accordance with the ISAF Equipment Rules of Sailing in relation to sail measurement, but shall not exceed the dimensions of the CBH measurement.

13.0 CREW

- 13.01 The maximum crew number shall be six (6) or less if specified in individual class rules while racing using CBH and this Rule.
- 13.02 Minimum crew numbers shall be two (2) while racing.
- 13.02.01 YA Special Regulations, Category 5 One (1) member of the crew shall be 18 years or over.
- 13.02.02 YA Special Regulations Category 6 All crew members to be 14 years or older, unless one (1) crew member is over the age of 18 years.

14.0 HORIZONTAL STABILITY FACTOR (HSF)

- 14.01 Boats may comply with the Horizontal Stability Factor (HSF) as defined for Trailable Yacht races by the YA Special Regulations Category 6
- 14.02 Determination of the HSF shall be at the owner's risk and cost and no liability will be accepted by the club, the State authority, the YA or any of its members, officers or servants.
- 14.03 All boats not complying with Rule 14.0 HSF shall have a minimum keel / overall boat weight ratio i.e., (weight of keel fin and bulb assembly / weight of boat empty) of : -
- 0.20 : 1 All boats with CBH less than 0.801
 - 0.35 : 1 All boats with CBH of .801 and greater
 - Or comply with Section 9.02 of this Rule
- Fastenings and other components of the keel assembly not permanently fixed to the keel shall be excluded from the keel weight.

15.0 BUOYANCY

- 15.01 Boats not complying with the HSF at Section 14.01 shall have sufficient buoyancy to support the boat, its crew and stores above the water when fully swamped.

16.0 REVIEW

- 16.01 This Rule shall be reviewed at least every four years.

Appendix `A`**Class Based Handicap****KEY**

with genoa = +G
 with spinnaker = +S
 fully battened main = FB
 bulb keel = BK
 masthead (usually genoa & spinnaker) =MH
 swing keel = SK
 drop keel = DK
 standard without spinnaker = *
 masthead spinnaker only = MHS

CLASS KEY

Elliott 7.8 MKI	Asymmetric spinnaker 3/4
Elliott 7.8 MKII	Asymmetric spinnaker MHS
Sonata 6.7 MKII	Taller rig and increased sail area from MKI
Sonata 760 Sports MKII	Lighter hull weight from MKI
Spider 22 MKII	Taller mast ,same sail area as MKI
Spider 24 MKII	Different keel from MKI
Spider 28 MKII	Taller mast, same sail area as MKI
Timpenny 670 MKII	10 % increase in sail area , same rig
Young 7.8	Timber hull,3/4 spinnaker
Young 780 Rocket MKI	Timber hull,masthead spinnaker Glass hull, 3/4 spinnaker, short keel
Young 780 Rocket MKII	Glass hull, mast head spinnaker, short keel
Young 780 Rocket MKIII	Glass hull, mast head spinnaker, longer keel

NOTE

1. Class Based Handicaps shall be used in conjunction with the Australian Trailable Yacht and Sportsboat Rule.
2. Asymmetric spinnakers and poles not fitted to mast may only be used if specified in class rules.
3. Yachts with standard spinnaker and pole being changed to asymmetric spinnaker (with same sail area) and pole increase C.B.H. by .010
4. NO HIKING DEVICES TO BE FITTED TO ANY T/Y OR ANY TYPE OF HIKING ALLOWED WHILE USING THESE C.B.H. HANDICAPS, UNLESS SPECIFIED IN INDIVIDUAL YACHTS CLASS RULES.

STANDARD TRAILABLE YACHTS		INDIVIDUALLY MODIFIED STANDARD TRAILABLE YACHTS / OAKS		
CLASS	C.B.H.	NAME	CLASS	C.B.H.
Adams 21	0.69	BREATHLESS	Beale 740	0.777
Adams 8	0.809		Careel 18 +G*	0.591
Admiral 21	0.641		Cherry 16 (mod Shivers)	0.605
Adventure	0.661		Dennis TS 500 Mod	0.675
Adventure 22	0.628	HEN & CHICKEN BAY	DH RAMBLER	0.64

Alien 21 Cat Rig	0.7		Hartley 18 MA	0.73
Alien 21 Sloop Rig	0.74		Hartley 21 Mod	0.65
Allegro	0.63	ECLIPSE	HIGHWAY 21	0.68
Aloora	0.63	PARAFUNALIA	JEANNEAU FUN 7.2	0.755
Aloora (Junk Rig)	0.61	KIWI BIRD	M.H.S. SPIN	0.845
Aloora MKII	0.64	BLUE BAYOU	MAGNUM	0.775
Austral 20	0.65	DR WHO	MASRM 720	0.765
Austral 24 DK	0.675	HUNTRESS	MASRM 720	0.765
Austral 24 SK	0.665	SAILAGERE	MASRM 720	0.795
Austral 8	0.805	SALTY TIGER	MASRM 720	0.795
B63	0.645	MEN WITH WIND	MASRM 720M	0.785
Baroness 22	0.611	SLIPPERY WHEN WET	MW SHARPE	0.79
Beale 740 (Frac. Rig)	0.79	SHIRLEY VALENTINE	MW SHARPIE	0.6
Beale 740 (MH Rig)	0.8	LOKI	ONE OFF	0.695
Beale 780	0.807		RL 28 Exotic	0.721
Beale 860	0.85	BLACKBEARD	RL28	0.725
Beneteau 235	0.715	DISTRACTION	RL28	0.71
Beneteau 7	0.73	EXOTIC	RL28	0.721
Binks 25	0.672	FOUL PLAY	RL28	0.71
Blazer 740	0.78	IMPULSE	RL28	0.75
Bonito 22	0.65	MOONBIRD	RL28	0.7
Bonito 580	0.63	PEPSEA	RL28	0.71
Bonito 750	0.71	STORMY AFFAIR	RL28	0.69
Bonito25	0.7	MEN AT WORK	ROSS 780	0.805
Boomaroo 22	0.64	RADICAL	ROSS 780	0.805
Boomaroo 25	0.656	RISKY BUSINESS	ROSS 780	0.8
Boomerang 20 DK	0.64	FLASH POINT	SONATA 6.7	0.795
Boomerang 20 SK	0.62	MAGIC MOMENTS	SONATA 6.7 MKI	0.706
Brolga 17	0.602	AWESOME	SONATA 760 SPORTS	0.79
Bush Ranger	0.705	KIWI BIRD	SPID 28 MK1 3/4 SPIN	0.825
Capri 18	0.567	PARTY MANIAC	SPIDER 24	0.785
Capri 21	0.62	GREY GHOST	STATUS SLIPSTREAM	0.72
Caprice 11 (BK)	0.579	POSH JUNK	TIMPENNY 670	0.72
Careel 18	0.59	SCADEG	TIMPENNY 670	0.697
Careel 22 L	0.69		Timpenny 670 Mod	0.697
Careel 22 S	0.665	GENIA	TIMPENNY 770 (DK)	0.758
Careel Sonata 26	0.728	TRANTY	ULTIMATE 23 MOD	0.705
Caribou 20	0.619		Ultimate 23 Mod-Tran-ty	0.71
Castle 20	0.651	UPFRONT	WILDFIRE	0.681
Castle 550	0.675	WEDNESDAYS CHILD	YOUNG 6.0	0.72
Castle 650	0.725	EXPORTER		0.78
Catalina 25	0.65	PENGUIN 4		0.629
Cherry 16	0.59	SPIRIT OF ELVIS		0.79
Clifton 683 DK	0.66			
Clifton 683 SK	0.65			
Clipper 17	0.531			
Clipper 21	0.592	STANDARD SPORTSBOATS		
Coastal 868	0.734	CLASS	C.B.H.	

Cole 19	0.61	Blazer 23	0.79
Cole 23	0.665	Bull 7000	0.85
Comet 20	0.638	Elliott 5.9	0.775
Compass 750	0.698	Elliott 6.5	0.84
Compass 750 MKII	0.699	Elliott 7.0	0.835
Compass 750 MKIII	0.721	Elliott 7.4	0.78
Court 550 *	0.553	Elliott 7.8 MKI	0.86
Court 650	0.624	Elliott 7.8 MKII	0.88
Court 750	0.657	Elliott 770	0.864
Cross 830	0.85	Flying Angel 9.1	0.822
Cumulus	0.65	Inglis 27	0.87
Cunningham 19	0.64	Lyons 750	0.86
Dancer	0.562	Lyons 8	0.91
Davidson 26	0.778	Masrm 750	0.797
Dennis TS 500	0.56	Melgers 24	0.89
Dennis TS 600	0.617	Metcher 8	0.874
DH Rambler	0.626	PG 8000	0.88
Diamond / Rasmussen	0.75	Scorpion 8	0.893
Duncanson 22	0.669	Spider 22 Mkl	0.788
Duncanson 25	0.675	Spider 22 MkII	0.798
Eclipse 17	0.592	Thompson 7	0.895
Embassy 5.5	0.572	Thompson 8	0.95
Explorer 16	0.58	Young 6.6 Rocket	0.779
Explorer 21	0.627	Young 7.8 3/4 S	0.805
Farr 5000	0.57	Young 7.8 MHS	0.844
Farr 6000	0.64	Young 780 Rocket MKI	0.84
Farr 740 Sports	0.755	Young 780 Rocket MKII	0.869
Farr 7500	0.708	Young 780 Rocket MKIII	0.89
Firebird 19	0.6		

INDIVIDUALLY MODIFIED STANDARD SPORTSBOATS /

		OAKS		
		NAME	CLASS	C.B.H.
Flinders 7.8	0.648	FIERY DRAGON	DUNCANSON SPORTS 8	0.98
Freedom 21	0.639	ELLE	Elliott 5.9	0.78
Gazelle	0.72	JAFFA	ELLIOTT 5.9	0.785
Gem 550	0.685	DRI-DECK ESCAPADE	ELLIOTT 780	0.867
Griffin 17	0.589	FIREFALL	ELLIOTT 780	0.825
Hartley 16	0.635	TOKYO TRASH BABY	I550	0.8
Hartley 18 (3/4)	0.625	OBSESSED	JS 30	0.835
Hartley 18 MA	0.59	SEABISCUIT	LASER SB3	0.8
Hartley 18 MH *	0.632	WICKED	LYONS 750	0.875
Hartley 21	0.61	MONKEY BUSINESS	MASRM 750	0.845
Hewitt 20	0.576	PENGUINS ON PARADE	ONE OFF	0.925
Highway 21	0.658	UNIQUE 1	ONE OFF	0.82
Highway 8	0.73	UNIQUE 2	ONE OFF	0.865
Hood 20 *	0.605	ELASTIC LIMIT	SELMOR 7.8	0.794
Hunter 19	0.6	BAKERS DOUGH	SPIDER 22	0.82
Hunter 19 (Fixed Keel)	0.61	NOT NEGOTIABLE	SPIDER 22	0.798
Hutton 24	0.671			
Inga 5.5	0.6			

Investigator	0.594	SLIPPERY WHEN WET	SPIDER 22	0.79
J.S. 6.7	0.672	THE TERRAR	YOUNG 7.8	0.825
Jeanneau 24	0.775	GETAHOBBI	YOUNG 780	0.82
Jedda 20	0.61	GREY GHOST	YOUNG 780	0.82
Jedda 22 BK	0.575	FLAPS	YOUNG 780 MKII	0.9
Kalaroo 780	0.764	BLOCK BUSTER		0.85
Kestral BK	0.65	LIGHTNING 8		0.87
King 780	0.815	NOTHING TO SERIOUS		0.9
Koala 24	0.659	ORPHAN		0.8
Lancer 25	0.637	STILETTO		0.875
Lidgard 25	0.715	VIVACE		0.99
Magnum 8.5	0.767	VMG		0.88
Masrm 720	0.77			
PROVISIONAL INDIVIDUALLY MODIFIED STANDARD				
Masrm 720 C	0.725	TRAILABLE YACHTS CBH		
Masrm 750	0.797	NAME	CLASS	C.B.H.
Matilda	0.59	HUGHIE	BLAZER 740	0.84
Maxi 20	0.586	SIX PAK	ROSS 780	0.81
McGregor 26	0.663			
McGregor 26 WB	0.715	PROVISIONAL SPORTSBOAT CBH		
Narwahl Is. Sharpie	0.705	NAME	CLASS	C.B.H.
Noelex 25	0.725	BERANI "B"	BLAZER 23	0.775
Nomad 20	0.572		CRUISE MISSILE	0.935
Pacific 747	0.607	HOT GOSSOP	EAGLE	0.84
Penn 707	0.687		EDMONDS 7500	0.91
Princess	0.58		ELLIOTT ESCAPE	0.864
Quintet 5	0.586		ELLIOTT ESPX	0.925
Quintet 7	0.715		LYONS 740	0.85
Randell 20	0.626	VIVACE	ONE OFF	0.99
Red Jacket *	0.561		STEALTH 8	0.97
Red Witch	0.605		THOMPSON 6.5	0.85
Resolution	0.725		THOMPSON 750	0.935
RL 24 DK	0.76	FREESTYLE	YOUNG 770	0.81
RL 24 SK	0.725			
RL 28	0.692			
Ross 650	0.746	PROVISIONAL OPEN SPORTSBOAT CBH		
Ross 780 MK1,2,3	0.795		CLASS	C.B.H.
Sabre 20	0.625		MAGIC 25	0.925
Sabre 22	0.639			
Scorpion 7	0.635			
Sea Bita	0.595			
Sea Horse 6	0.66			
Seaway 25	0.725			
Seaway 25 MHS	0.73			
Serena TY22 *	0.617			
Sonata 26	0.728			
Sonata 6	0.63			
Sonata 6.3	0.65			

Sonata 6.7 MKI	0.71
Sonata 6.7 MKII	0.722
Sonata 7	0.65
Sonata 760 Sports MKI	0.74
Sonata 760 Sports MKII	0.766
Sonata 760 Sports Ultra	0.782
Sonata 8	0.728
Southern Cross 23	0.65
Spacesailer 20	0.624
Spider 24 MKI	0.754
Spider 24 MKII	0.764
Spider 28 MK4	0.8
Spider 28 MKI	0.815
Spider 28 MKI MHS	0.83
Spider 28 MKII	0.83
Spider 28 MKII MHS	0.85
Star 22	0.6
Status Slipstream	0.71
Sth. Coast 22	0.715
Sth. Coast 25	0.625
Stratus 747	0.723
Sunbird 24 MS	0.585
Sunbird 25	0.635
Sunmaid 20	0.6
Swarbrick 20	0.66
T26	0.738
Timpenny 670	0.685
Timpenny 770 DK	0.74
Timpenny 770 SK	0.716
Tropic 5.2	0.572
Ultimate 16	0.58
Ultimate 18 DK	0.6
Ultimate 18 SK	0.59
Ultimate 23	0.615
Van Der Stadt 7	0.715
Venture 6	0.662
Victory 22	0.62
Vivacity	0.625
Waratah	0.613
Wildfire	0.674
X 770 Sport	0.73
Young 5.7	0.616
Young 6.0	0.705
Zeeman 6.5	0.68

INTRODUCTION

The CBH for each class of yacht is set such that only a well sailed yacht, in top racing condition, would have an equal chance of winning a series of races over varying conditions against equally well sailed yachts from other classes.

Where club racing consists of trailable yachts and sports boats, sailing with “off the beach” boats it is recommended that back calculated personal handicaps are used and that the CBH system is used as a starting point for handicappers to rate the different boats.

It is therefore recommended that in club mixed fleet TY & SB racing and at National, State and Class Championships the CBH system is used. The elapsed time for a race is multiplied by CBH to obtain the corrected time.

APPLYING FOR A CBH

Detailed, accurate measurement data will be required to obtain a CBH. This technical information is usually obtained from the designer/builder.

To obtain a CBH an owner/builder/designer or class association must: -

- Submit an application on the prescribed form provided by the Measurer of the applicable MYA, along with the class rules
- Submit the appropriate measurement fee to the Measurer of the applicable MYA
- Make available the boat for measurement

As part of the measurement procedure, all trailable yachts and sports boats will be subject to stability and self righting tests. (See YA Special Regulations Part 1).

T/Y's that cannot meet this requirement will be obliged to demonstrate that they are buoyant prior to the issue of a CBH certificate. (See YA Special Regulations Part 1)

To ensure the manufacture of class yachts complies with the original specification as supplied to the Custodian, the first boat built after five (5) years of receipt of the CBH certificate, or the first boat built by a new manufacturer shall be measured as if applying for a new CBH.

APPLYING FOR RE-MEASUREMENT

Any alteration or modification to a trailable yacht or sports boat, or its equipment, that does not accord with class rules will require re-measurement and the re-allocation of a suitable Provisional CBH

Modified boats are required to carry a `MOD` symbol on the mainsail next to the class insignia.

MEASUREMENT ACRONIMS

LOA	Length Over All (mm)	LPG	Longest perpendicular of largest genoa (Luff to Clew at a right angle to the luff)
LWL	Length of Water Line (mm)		
B	Rated Beam (mm)	P	Mainsail Hoist (mm)
MASS	Total Mass (in KGS)	BLM	Batten Length Maximum (mm)
BM	Maximum Beam (mm)	E	Mainsail Foot Length (mm)
I	Fore Triangle Hight (mm)	EPF	Effective Propeller Factor
SL	Spinnaker Luff (mm)	KF	Keel Factor
J	Base of Fore Triangle (mm)	OAML	Over All Mast length (mm)
SPL	Spinnaker Pole Length (mm)		
SMW	Spinnaker Maximum Width (mm)		

PREPARATION OF YACHT FOR MEASUREMENT

- All of the above items must be measured for a handicap to be produced.
- In order to determine waterline length, it may be necessary for the boat to be floated in its racing trim. Briefly, everything required for racing shall be in the locations where it will be stowed or used while racing.
- This will not include batteries, anchors and chain, navigational instruments and cooking appliances (unless required under the Class rules). No food, clothing, stores, toolkits PFD's or additional ballast, etc. shall be aboard. Fuel and water tanks shall be empty.
- Dimensional bands shall be painted on the mast and boom in a contrasting colour ("black bands").
- Spinnaker poles shall be in the normal stowage position.
- All sails used whilst racing shall be stowed below deck on the cabin sole and not forward of the mast.
- All mattresses, cushions and pillows as required by class rules shall be stowed in their normal positions.
- Centreboards, swing keels and drop keels shall be in the fully lowered position.
- If the yacht motor is an outboard motor, it shall be fitted in the operating position.
- The yacht shall be rigged completely and ready to sail.
- The yacht's bow shall not be depressed through lying to a mooring and the bilges shall be dry.
- Major hull measurements may be taken ashore, with the yacht approximately level.

- The longitudinal trim should be established from freeboard measurements taken from the yacht afloat in measurement trim. Large overhangs may be taken into account in assessing waterline length or de-rating factor.
- For the measurement of fore-triangle height, (the "I" measurement), the distance shall be measured from the mid point of a line taken athwartships, through the sheer of the hull directly below the mast, to the intersection of the forestay with the mast.
- The weight of the boat (mass) shall be measured with the boat in racing trim. It will not include the fuel, anchors, chains, and safety equipment (unless required by the Class Rules), food, clothing, stores, tool kits, etc. but shall include the motor. Measurement of Mass will be determined during the measurement process by use of the applicable MYA's weighing equipment.
- The applicant for measurement will be required to sign the measurement certificate and a declaration as to the validity of all measurements listed on the certificate. Subsequent infringement of any of the measurements may lead to disqualification in a particular race(s) in which the infringement(s) occurred and any other previous races as may be determined, resulting in possible withdrawal of the CBH to prevent further race entries.
- Supplementary measurement information / class rules, in accordance with the attached guidelines, will be required before a handicap will be provided.
- Where no class association exists for a particular design, the MYA may assist the owner, if necessary, to prepare this information.
- In addition to undertaking measurements, which are the basis of the handicap formula, checking the measurements against those contained in the class rules / supplementary measurement information questionnaire shall be required.
- The applicant may be required to demonstrate the boats resistance to capsize by performing a haul down test to satisfy the Measurer that the boat complies with: -

YA Special Regulations Part 1, Resistance to Capsize for Monohulls.

- The applicant should ensure that the craft's rigging is in good repair so that it will support the mast when the boat is hauled down on its beam-ends by use of either the spinnaker halyard or main halyard. The test will be conducted by the owner or his representative and shall be entirely at his/her risk.

Yachting Australia, an MYA or any of its members, officers or servants will not except liability for any damage how so ever incurred during the entire measurement process.

APPLICATION FORM

NAME OF APPLICANT: _____

ADDRESS: _____

PHONE NO: Bus _____ Home _____

Fax _____ Mobile _____

STATUS OF APPLICANT: _____

(e.g. Club or association, manufacturing or agent, private owner)

CLASS OF BOAT: _____ NAME OF BOAT: _____

SAIL NUMBER: _____ YEAR BUILT: _____

DESIGNER: _____ DESIGN DATE: _____

NAME & ADDRESS OF OWNER: _____

(If not the Applicant)

Is a set of Class Rules attached?	Yes	No
	(Please circle)	
If no Class Rules attached, have Class Rules been established?	Yes	No
	(Please circle)	
Is this application for a modification? If yes attach details.	Yes	No

NOTE: If no Class Rules are attached Appendix F ***must*** be completed

Applications should be submitted with the details required and should be accompanied by any supporting or evidentiary information regarding the yachts performance against other known Classes.

All handicaps issued are "Provisional" for 12 months or until the next annual CBH review (whichever is sooner), except that a yacht may remain on a "Provisional" handicap until such time as sufficient relevant performance data has been obtained. Provisional handicaps are subject to adjustment, upwards or downwards, at the discretion of the YA TYSPC.

Application form to be returned to

The Measurer,
APPLICABLE MYA

1. It is the purpose of the CBH to encourage, where possible, the rating of boats as a class rather than individually, although this does not preclude the measurement and rating of "one off" designs.

Applications for measurement and CBH calculation should come from the class association, or the manufacturer or his agent and a set of class rules should be lodged with the application for measurement.

The owners of "one off" designs should submit their applications in as much detail as possible and provide similar information as that required for class boats.

2. Applications should be directed to the MYA Administration Officer on the prescribed form and shall be accompanied by the prescribed fee, as determined by the MYA.
3. The MYA will allocate the task to an accredited Trailable Yacht and Sports Boat Measurer. The MYA will advise the Applicant of the name, address and telephone number of the Measurer.
4. A mutually satisfactory appointment will be made between the Applicant and Measurer.
5. On completion of measurement, the Measurer will forward the data to the Custodian for calculation and preparation of the measurement certificate.
6. Four (4) copies of the measurement certificate will be distributed as follows:
 - Two copies to the applicant. One of the copies must be signed (preferably on behalf of the Class Association) and returned to the MYA.
 - One copy to the Custodian.
 - One copy to the Measurer
7. By signing a copy of the measurement certificate and returning it to the MYA, the applicant expresses his acceptance of the work.
8. The application fee may be determined annually.
9. Part-measurements and checking of alterations must be applied for in the same way as a full measurement and a measurement fee (up to the full amount) paid.
10. All new measurements and CBH results will be circulated by the Custodian to all MYAs for distribution to Organising Authorities.
11. All handicaps issued are "Provisional" for 12 months or until the next annual CBH review (whichever is sooner) except that a boat may remain on a "Provisional" handicap until such time as sufficient relevant performance data has been obtained. Provisional handicaps are subject to adjustment, upwards or downwards, at the discretion of the Custodian.
12. If travel incurred is more than 50 km from the capital city GPO, or from the Measurer's home address, the Measurer shall be paid an additional \$15.00 per 50 km or part thereof. Payments will be made by the MYA when measurement certificates are issued.

Appendix `E` Guidelines for Preparation of Class Rules

The Custodian recommends that the following information be included in Class Rules for Trailable Yachts and Sports Boats.

1. General

Name of class, objects, authorised builder, etc

2. Class Certificates

It is recommended that each class undertake their own measurements to ensure that class rules are complied with and certificates issued to owners. Queries concerning measurement methods must be directed to the applicable MYA Trailable Yacht Committee.

3. Measurements

Details of class measuring procedures, designation of class measurer etc.

4. Hull and Deck

Specification of material of construction permitted (a) hull, (b) deck, and reference to hull plans and dimensions. A diagram of the boat should be appended containing the main hull and deck dimensions. Deck layout if prescribed. Internal ballast, weight and position. Waterline marks required and their measured location prescribed.

5. Keel / Centreplate

Type (*swing/drop/bilge*), weight (*where located*), dimensions and shape (*aerofoil/flat plate etc*), method of raising and lowering, whether lockdown device is fitted (Refer to YA Special Regulations). If swing keel, whether any devices (ie, centreplate flaps or blocks) are permitted to fill the slot opening. A diagram should be appended with dimensions.

(Note: where flaps/blocks or similar devices designed to reduce drag are fitted to classes with swing keels, they will, for measurement purposes, be treated as a drop keel).

6. Rudder

Type allowed (*swing/dagger etc*), how to be mounted. A diagram should be appended showing dimensions and mounting details.

7. Masts and Spars

Section size and material allowed for mast, boom, spreaders, spinnaker pole etc., dimensions, reefing system for sails etc.

8. Rigging

Type of standing rigging and wire size, location of intersection with mast, position of chain plates etc., halyards (wire or rope), dimensions, internal or external, where attached to mast, location of halyard blocks on mast, spinnaker ring etc. A diagram should be appended. Spars should have dimensional limit bands painted on in contrasting colour.

9. Sails

Number and type permitted, materials allowed, detailed sail plan to be attached indicating:

Main	Foot, luff measurement, area, roach and batten types, lengths, headboard width. A diagram showing shape and dimension should be appended.
Genoa	Foot, luff measurement, area. A diagram should be appended showing shape and dimensions. Any restrictions on type of cut (mitre, crosscut, etc).
Jibs	As per Genoa
Bloppers	If permitted
Spinnaker	Width, height, area, diagram should be appended showing shape, restrictions on cut (cross, radial head, asymmetric etc). Maximum number of spinnakers to be used during a race.

10. Optional Devices

Details of what is permitted under class rules, eg. Boom vang, mainsheet traveller, tiller extension, main luff down haul (Cunningham), backstay tension device, barber haulers, mainsail foot outhaul, flattening reef etc.

11. Prohibitions

Any items specifically prohibited such as trapeze, crew hiking out, rotating masts, etc.

12. Fittings required in cabin

Details of essential furniture to be contained in the boat, eg bunks, stove, sink etc.

13. Auxiliary Power

Type of motor permitted (*outboard / inboard*), minimum horsepower, if outboard where carried (*in well / on transom*). Note: Motors must be mounted in the normal operating position whilst racing (*refer to YA Special Regulations*), except that the motor may be tilted such that the propeller and leg are clear of the water.

14. Safety

At a minimum, class rules shall meet the requirements of YA Special Regulations; any additional requirements of the class must be specified, eg. PFD's to be worn at all times, whether lifelines are required, buoyancy requirements etc.

15. Crew

Minimum number required for sailing, minimum age, etc

16. Association Insignia

Diagram to be attached

17. Any other requirements

Please list.

APPENDIX F

SUPPLEMENTARY MEASUREMENT INFORMATION

Name of Class _____

This questionnaire is taken from the guidelines issued for the preparation of class rules. Where class rules do not exist (such as where there are only a few boats of a particular type and there is no association) the owner(s) of the boat type presented for measurement should endeavour to supply as much of the information as possible.

It should be noted that the questionnaire has an alternative title of "Supplementary Measurement Information" and it is suggested that the information should be supplied by classes although it may not be listed at the present time in the "official" class rules.

It should also be noted that the numbering system is based on the guidelines and as the first measurement listed in the guidelines is number 4. The same numbering system has been used in the questionnaire.

All measurements should be supplied in millimetres and weights in kilograms.

4. Hull and Deck

4.1 Construction Material Allowed

(a) Hull Marine Ply GRP

Other (specify) _____
_____ (eg. airex foam, balsa core etc)

(b) Deck Marine Ply Solid GRP

Other (specify) _____
_____ (eg. airex foam, balsa core etc)

4.2 Dimensions (attach diagram with dimensions if possible)

LOA _____ LWL _____ MAX. BEAM _____

If skeg, or shoal draft keel etc., specify _____

Approx. shape and dimensions _____

4.3 Other hull / deck prescriptions, if applicable.

(if your class has mandatory deck layout, please specify)

4.4 Weight

Total minimum weight as per CBH requirements for measurements _____
 _____ kgs

If available, specify separately weights of:

Hull _____ kgs Deck _____ kgs

4.5 Ballast

Keel weight _____ Describe (eg. lead shot, bulb, solid lead in steel keel etc)

Internal ballast weight _____ kgs Describe (eg. steel punchings, lead, etc and where material is positioned. eg, throughout the keel, at the foot of the keel or other.)

5. CENTREPLATE

Type: (please tick)

Swing

Drop

Bilge

Drop

Swing

Other

(specify) _____

Shape: Aerofoil

Flat Plate

Other

(specify) _____

Dimensions: Max. Thickness _____ Width _____ Length _____

Method of raising and lowering describe (eg. wire winch, hydraulic ram, sheet winch, electric winch. Method of locking centreplate in the down position.)

If bilge keels, can keels be raised separately?

If swing (or swing bilge), do class rules allow flaps or other device to block off hole when keel in down position?

Describe

Attach diagram of keel case showing above information.

6. RUDDER

Type: Swing Dagger Other (specify) _____

If option allowed, specify _____

Shape: Aerofoil Flat Plate Other (specify) _____

Dimensions: Max thickness _____ width _____ length _____

Attach diagram of rudder showing above information

7. MASTS AND SPARS

7.1 Mast

Shape (round, oval or pear shape) _____

Section Dimensions: Fore _____ & aft _____
Width _____

size _____ Gauge _____ Section

Length _____ Tapered _____

Material _____

7.2 Boom

Shape _____

Section Dimensions: Width _____
Thickness _____

_____ Gauge _____ Section size

_____ Material

7.3 Spreader/s: No. of _____ Length

_____ Material

_____ Other specifications

7.4 Spinnaker Pole: Length _____

Material _____

(for boats with bowsprit poles for asymmetric spinnakers, measure length from jib tack to pole end). On these boats, for rating purposes, the "SPL" will be the pole length + "J" (fore triangle base).

8. RIGGING (Diagram must be attached)

8.1 Standing Rigging

Describe (eg). *single fixed backstay, upper masthead shrouds, lower shrouds, 7/8 height forestay etc*) and show measurements where attached to mast and hull.

Running backstays fitted? _____

Twin groove head-sail foil or other similar device allowed? _____

Describe: _____

Variable tension devices allowed on backstay?

Describe: _____

8.2 Halyards: internal or external?

8.3 Location of spinnaker ring? (eg). 1 metre from mast step) _____

8.4 Height of spinnaker halyard block. _____
(the distance shall be measured from the intersection of the forestay with the mast to the spinnaker halyard exit ("I" + dim?).

8.5 Black Bands (or bands of contrasting colour)

8.5.1 Mast distance apart (inner of both bands – underside of top mast band to inside of sail track when boom fitted) _____

8.5.2 Boom (fore-side of black band to foreside of mast track)

9. SAILS

9.1 Main and Headsails (Sail Plan shall be attached)

Note: measurements taken from re-measured boat – notify if any variations exist (suggest check class measurements for foot and luff).

Main

Jib /Genoa

Maximum area: _____

Luff: _____

 Foot _____

 Genoa LPG _____

 Roach _____

 No. of Battens / total length _____

If only largest headsail specified in class rules and no restriction on size or number of smaller sails, specify (ie. number of sails allowed, etc.)

9.2 Spinnaker: Type _____ allowed _____ (*symmetrical* / *asymmetrical*)

(if no restriction, state)

Max Area _____ Luff _____ Max. width _____

Leech (*asymmetric*) _____ Foot (*asymmetric*) _____

++ _____

9.3 General

If any other restrictions in class rules such as material type, material weights, second smaller spinnaker, etc. specify

10 OPTIONAL DEVICES

Any devices specified in class rules; eg. 8:1 boom vang, mainsail reefing, jib barber haulers, spinnaker, flattening reef on main (*slab foot*), rotating mast, lifelines mandatory in class rules, etc.

11 PROHIBITIONS

Any devices etc. not permitted, eg. rotating mast, trapeze (*not permitted in Trailable Yacht races*).

12 INTERNAL FITTINGS – FURNITURE - BUOYANCY

12.1 Specify any mandatory requirements contained in class rules, eg. four bunks, sink, stove, toilet etc.
(Note trailable yacht requirements in YA Special Regulations).

12.2 Buoyancy – required in class rules, specify and describe (eg. front and rear sealed air tanks, foam (amount and location) etc).

If not buoyant, specify: _____

13. AUXILIARY POWER (inboard / outboard)

If Inboard, propeller type (fixed / folding) _____

14. SAFETY EQUIPMENT

Specify any mandatory requirements contained in class rules

15. CREW

Specify minimum number required for racing and minimum age etc

16. ASSOCIATION INSIGNIA

Diagram shall be attached

17. ANY OTHER REQUIREMENTS NOT SPECIFIED ABOVE BUT CONTAINED IN CLASS RULES

SIGNED: -----

**TITLE: DESIGNER / BUILDER / CLASS ASSOCIATION / OWNER / OWNERS
REPRESENTATIVE.**

(Please circle applicable title)